DOCKETED	
Docket Number:	23-OPT-01
Project Title:	Fountain Wind Project
TN #:	248307-2
Document Title:	aquatic resources report
Description:	N/A
Filer:	Caitlin Barns
Organization:	Stantec Consulting Services, Inc.
Submitter Role:	Applicant Consultant
Submission Date:	1/4/2023 11:10:43 AM
Docketed Date:	1/4/2023



Fountain Wind Energy Project

Aquatic Resources Survey Report

December 23, 2019

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Acronyms and Abbreviations

ac Acre

°F degrees Fahrenheit

ft foot/feet

OHWM ordinary high water mark
Project Fountain Wind Project

Stantec Stantec Consulting Services Inc.

USACE United States Army Corps of Engineers



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Executive Summary

On behalf of Fountain Wind LLC (Fountain Wind), Stantec Consulting Services Inc. (Stantec) conducted a delineation of potential waters of the United States including wetlands occurring in the 6,118.06-acre (ac) Fountain Wind Project survey area near the community of Montgomery Creek in Shasta County, California. The survey area includes the 4,000 ac project area plus appropriate buffers and also includes areas previously proposed for development under and earlier project iteration. The delineation was conducted in accordance with the *Corps of Engineers Wetlands Delineation Manual* and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region*². A total of 51.900 acres (ac) of potential waters of the United States were mapped within the survey area and include fresh emergent wetland (0.967 ac, 156 linear feet [ft]), riparian wetland (26.808 ac), seasonal wetland (0.120 ac), vegetated ditch (0.174 ac, 2,432 linear ft), wetland meadow (8.714 ac), wetland seep/spring (1.809 ac), ephemeral stream (0.559 ac, 10,224.323 linear ft), intermittent stream (2.861 ac, 24,900 linear ft), non-vegetated ditch (0.239 ac, 4,975 linear ft), perennial stream (9.468 ac, 30,495.398 linear ft), and pond (0.181 ac).

This delineation documents and describes aquatic features and wetlands occurring within the project survey area that may be waters of the United States. The report provides sufficient information that may be used to support a Preliminary Jurisdictional Determination from the United States Army Corps of Engineers (USACE), which would be subject to verification by USACE, Sacramento District. Stantec advises all parties to treat the information contained herein as preliminary until USACE provides written verification of the boundaries of its jurisdiction.

² United States Army Corps of Engineers. 2010. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region (Version 2.0).



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¹ Environmental Laboratory. 1987. Corps of Engineers Wetlands Delineation Manual. U.S. Army Engineer Waterways Experiment Station, Vicksburg, Mississippi. Technical Report Y-87-1.

1.0 INTRODUCTION

Fountain Wind LLC, is proposing to construct and operate the Fountain Wind Project (project), an industrial-scale renewable energy generation facility to be located in Shasta County, California (Figure 1). The project would consist of up to 72 wind turbines and associated facilities, including wind measurement towers, an electrical collection system, access roads, construction staging areas, an operations and maintenance facility, and a transmission interconnection and associated point of interconnection. The project would have a nameplate capacity of up to 216 megawatts.

Wind turbines would be installed on land owned and managed by Shasta Cascade Timberlands, LLC. Proposed turbine locations are situated east of Round Mountain, in Shasta County, California (Figure 1).

Stantec conducted a delineation of aquatic resources to support project permitting. This Aquatic Resources Survey Report summarizes the methods and results of Stantec's survey of potentially jurisdictional waters.

The survey area encompasses a total of 6,118.06 acres (ac) within a project area encompassing approximately 29,500 acres (Figure 1). It includes a 700-foot (ft) radius centered on proposed turbine locations, a 200- to 400-ft corridor centered on project roads, a 300-ft corridor centered on the electrical collection line, a 200-ft buffer around proposed project facilities, and a 100-ft buffer around proposed construction staging areas.

The delineation comprised three surveys efforts: the first in 2017, the second in 2018, and the third in 2019. The initial survey effort was conducted between October and December 2017 and was focused on tower locations, access roads, construction staging areas, and an operations and maintenance facility for a prior project iteration. The second survey effort was conducted in August 2018 and was focused on the electrical collection line, a transmission interconnection and associated point of interconnection, additional staging areas, and expanded buffers around some areas surveyed during 2017. The third survey effort conducted in October 2019 was focused on several modifications to the project site plan and expanded buffers around various project components. The 2017, 2018, and 2019 surveys provide a comprehensive survey of the project site, including the most current site plan and associated survey buffers (Figure 1-3).

2.0 ENVIRONMENTAL SETTING

The survey area is within coniferous forest habitat near the southern end of the Cascade Range, between two volcanoes: Lassen Peak and Mount Shasta. The area's climate is characterized as Mediterranean with moderate winters and hot, dry summers. Based on data collected from the National Oceanic and Atmospheric Administration Western Regional Climate Center Applied Climate Information System Buckhorn station, precipitation occurs as rain and snow within the survey area. The average annual precipitation is approximately 68 inches with an average annual snowfall of 70 inches (Western Regional Climate Center 2019). Air temperatures range between an average January high of 58 degrees Fahrenheit (°F), and an average July high of 99°F. The annual average high is



approximately 101°F (Western Regional Climate Center 2019). The growing season (i.e., 50% probability of air temperature 28°F or higher) in the study area is approximately 120 days and occurs between May and September.

The project would be built on privately owned and managed lands in rural, unincorporated Shasta County, 3 miles east of Montgomery Creek, 7 miles west of Burney, and 28 miles northeast of Redding. The survey area is accessible from Highway 299 west of Hatchet Peak and is in the quadrangles, townships, ranges, and sections shown in Table 1. The project would be located to the west and south of the existing Hatchet Ridge Wind Farm, along several ridgelines and peaks.

Table 1. Survey Area Locations

Quadrangle(s)	Township	Range	Section(s)
Hatchet Mountain Pass Miller Mountain	33 North	1 East	3
Hatchet Mountain Pass Montgomery Creek	34 North	1 East	1–4, 8, 10–17, 20–28, 33–36
Hatchet Mountain Pass	34 North	2 East	5–8, 18
Chalk Mountain Hatchet Mountain Pass Roaring Creek	35 North	1 East	8–10, 13–15, 21–28, 33–36
Hatchet Mountain Pass	35 North	2 East	29–32

The survey area consists primarily of managed timberlands. Approximately half the survey area is within the boundary of the area burned in the 1992 Fountain Fire. The portion of the survey area that is within the fire boundary is predominantly ponderosa pine (*Pinus ponderosa*) forest, while the remaining survey area is predominantly mixed conifer forest. There are grassland, hardwood, and chaparral inclusions scattered throughout the survey area. In addition to timber production, a few areas are managed for cattle grazing.

2.1 TOPOGRAPHY AND HYDROLOGY

The survey area is in the Sacramento River Basin (Central Valley Region), which covers 17.42 million ac and includes the entire Sacramento River watershed. The Sacramento River Basin is divided into 24 hydrologic units and is further divided into hydrologic areas and hydrologic subareas. The survey area is located within two hydrological units: Whitmore and Pit River (Table 2). Each of the hydrologic units within the survey area ultimately flow west to the Sacramento River. The survey area crosses numerous unnamed drainages and wetlands as well as several named drainages, including Richardson Creek, Little Hatchet Creek, Hatchet Creek, Carberry Creek, Goat Creek, North Fork Montgomery Creek, Indian Spring, South Fork Montgomery Creek, Cedar Creek, North Fork Little Cow Creek, Little Cow Creek, and Mill Creek. Hydrology for these features is provided by sheet flow, snow melt, seeps, springs, and groundwater. Several of the streams provide hydrology that supports adjacent riparian wetlands.

Table 2. Hydrologic Units, Areas, and Subareas within the Survey Area

Hydrological Units	Hydrological Areas	Hydrological Subareas
526.00 Pit River	526.10 Lower Pit River	26.13 Montgomery Creek
		26.14 Hatchet Creek
507.00 Whitmore	507.30 Cow Creek	07.33 Little Cow Creek



Source: Water Quality Control Plan for the Central Valley Region (RWQCB 2018)

Topography within the survey area varies widely from gently sloping mountain meadows to steep hillsides and drainages. The survey area occurs between 3,550 and 6,300 ft in elevation. Named topographical features occurring in the survey area include Carberry Flat, Carberry Mountain, Fauries Peak, Fuller Flat, Fuller Mountain, Lookout Mountain, and Sanders Ridge.

2.2 VEGETATION COMMUNITIES

Stantec biologists classified vegetation communities within the survey area during the aquatic resources survey. Vegetation communities are based on descriptions provided in *A Guide to Wildlife Habitats of California* (Mayer and Laudenslayer 1988) and are as follows:

Barren. Barren occurs as dirt and paved roads and their associated road shoulders. Vegetation is usually not present, although sparse cover of grasses and forbs or weedy species occasionally occurs on road shoulders or infrequently used roads.

Fresh Emergent Wetland. Fresh emergent wetland occurs in a seasonally inundated pond and within a few low gradient streams in the survey area. Plant species observed in fresh emergent wetlands include common tule (Schoenoplectus acutus), Rocky Mountain pond-lily (Nuphar polysepala), reed canary grass (Phalaris arundinacea), smartweed (Persicaria sp.), small fruited bulrush (Scirpus microcarpus), and American brooklime (Veronica americana).

Lodgepole Pine. Lodgepole pine occurs at higher elevations within the survey area. The lodgepole pine vegetation community is bordered by and interspersed among the wet meadow vegetation community at the headwaters of the North Fork of Montgomery Creek. Lodgepole pine (Pinus contorta) is the dominant overstory species, while understory species include cascara (Frangula purshiana), western blueberry (Vaccinium uliginosum), Douglas spiraea (Spiraea douglasii), California oat grass (Danthonia californica), tufted hair grass (Deschampsia cespitosa), and Bigelow's sneezeweed (Helenium bigelovii).

Montane Hardwood. Montane hardwood occurs on a hillside west of Carberry Flat. The dominant overstory species is California black oak (*Quercus kelloggii*). The understory consists of a moderate canopy of deer brush (*Ceanothus integerrimus*) and snowberry (*Symphoricarpos albus*), with a sparse herbaceous layer of Pacific starflower (*Lysimachia latifolia*).

Montane Chaparral. Montane chaparral occurs at a few locations throughout the survey area, including at the highest elevations in the southeastern portion of the survey area. It is composed of a dense shrub layer and borders woodlands or forest. Shrub species present include of Brewer's oak (*Quercus garryana*), green leaf manzanita (*Arctostaphylos patula*), dear brush, and other manzanita (*Arctostaphylos* spp.) and ceanothus (*Ceanothus* spp.) species. The herbaceous layer is poorly developed.

Montane Riparian. The montane riparian community occurs adjacent to streams and ponds and around some seep springs in the survey area. Many of the riparian areas are dominated by shrubs, including arroyo willow (Salix lasiolepis), Pacific willow (Salix lasiandra), Scouler's willow (Salix scouleriana), vine maple (Acer circinatum), and mountain alder (Alnus incana). Some of the larger streams also support tree species, including white alder (Alnus rhombifolia), Oregon ash (Fraxinus latifolia), and big-leaf maple (Acer macrophyllum). Other shrubs include American



dogwood (*Cornus sericea*), wild rose (*Rosa* sp.), and Himalayan blackberry (*Rubus armeniacus*). Herbaceous species include sedges (*Carex* sp.), western lady fern (*Athyrium filix-femina*), cow parsnip (*Heracleum maximum*), horsetail (*Equisetum* spp.), hedge nettle (*Stachys ajugoides*), creeping wild ginger (*Asarum caudatum*), stream violet (*Viola glabella*), western columbine (*Aquilegia formosa*), California tiger lily (*Lilium pardalinum*), and ridged manna grass (*Glyceria striata*).

Perennial Grassland. Perennial grasslands occur around Carberry Flat. The herbaceous layer is dominant and includes meadow foxtail (*Alopecurus pratensis*), Kentucky blue grass (*Poa pratensis*), blue wild-rye (*Elymus glaucus*), common velvet grass (*Holcus lanatus*), gumweed (*Grindelia* sp.), sticky cinquefoil (*Drymocallis glandulosa*), and common yarrow (*Achillea millefolium*).

Ponderosa Pine. Ponderosa pine occurs in the northern portion of the survey area in plantations established after the Fountain Fire in 1992. These stands are dense, with ponderosa pine dominating the overstory canopy. However, there is some natural regeneration of white fir (*Abies concolor*), Douglas fir (*Pseudotsuga menziesii*), incense cedar (*Calocedrus decurrens*), and California black oak. The understory layer varies from dense shrubs including manzanita (*Arctostaphylos* spp.), ceanothus (*Ceanothus* spp.), mountain dogwood (*Cornus nuttallii*), bush chinquapin (*Chrysolepis sempervirens*), Oregon boxwood (*Paxistima myrsinites*), thimbleberry (*Rubus parviflorus*), and bitter cherry (*Prunus emarginata*) to sparse grasses and forbs including blue wild-rye, Pacific starflower, fireweed (*Chamerion angustifolium*), and bracken fern (*Pteridium aquilinum*).

Riverine. Riverine vegetation occurs in the larger streams and is dominated by run and riffle areas with boulder, cobble, gravel, and sand substrates. Vegetation within the active river channel is sparse with occasional clumps of sedges.

Sierran Mixed Conifer. Sierran mixed conifer occurs throughout the unburned southern portion of the survey area. Dominant conifers include ponderosa pine, Douglas-fir, white fir, incense-cedar, and sugar pine (*Pinus lambertiana*). A few deciduous trees occur irregularly among the conifers, including California black oak and big-leaf maple. The understory varies greatly from dense stands with little understory to more open stands supporting many of the same understory species listed under the ponderosa pine vegetation community

Wet Meadow. Wet meadows occur in gently sloping areas adjacent to lodgepole pine and perennial grassland vegetation communities. They also occur as openings on seepy hillsides surrounded by Sierran mixed conifer or ponderosa pine forest, interspersed with montane riparian vegetation. Herbaceous vegetation dominates wetland meadows, including big-leaf sedge (Carex amplifolia), rushes (Juncus spp.), spearmint (Mentha spicata), tundra aster (Oreostemma alpigenum), western mountain aster (Symphyotrichum spathulatum), white-flowered bog-orchid (Platanthera dilatata), giant checkerbloom (Sidalcea gigantea), narrow leaved lotus (Hosackia oblongifolia), three petaled bedstraw (Galium trifidum), pull-up muhly (Muhlenbergia filiformis), seep monkey flower (Mimulus guttatus), tufted hair grass, and cultivated timothy (Phleum pratense).

2.3 SOIL

Shasta County spans five geologic provinces: the Klamath Range, Coast Range, Great Valley, Cascade Range, and Modoc Plateau. The survey area is in the Cascade Range Province within the Cohasset-Windy-McCarthy soil association. This soil association is composed of gently sloping to steep soils underlain by volcanic rock (Soil Conservation Service and Forest Service 1974). The U.S. Department of Agriculture Natural Resources Conservation



Service has mapped 27 soil map units within the survey area (NRCS 2019) (Table 3, Figure 2). Two of the soil map units are rated as hydric, while the remaining 25 are not hydric and do not have any hydric components.

Table 3. Soil Map Units Within the Survey Area

Map Unit Symbol	Map Unit Name	Hydric Rating Status
Cohasset-McCarthy complex, 0 to 30 percent slopes	CrD	N
Cohasset-McCarthy complex, 30 to 50 percent slopes	CrE	N
Cohasset-McCarthy complex, 50 to 70 percent slopes	CrG	N
Cohasset loam, 0 to 30 percent slopes	CID	N
Cohasset stony loam, 0 to 30 percent slopes	CmD	N
Cohasset stony loam, 10 to 50 percent slopes	CmE	N
Cohasset very stony loam, moderately deep, 8 to 50 percent slopes	CoE	N
Colluvial land	CsF	N
Gardens-Jacksback complex, 0 to 2 percent slopes	169, 169im	Y
Gasper-Scarface complex, moist, 2 to 15 percent slopes	172, 172im	N
Gasper-Scarface complex, moist, 15 to 30 percent slopes	173, 173im	N
Gasper-Scarface complex, moist, 30 to 50 percent slopes	174, 174im	N
Goulder gravelly sandy loam, 15 to 30 percent slopes	179, 179im	N
Jacksback loam, 2 to 9 percent slopes	190, 190im	Y
Lyonsville-Jiggs complex, deep, 10 to 50 percent slopes	LhE	N
Lyonsville-Jiggs soils, 50 to 70 percent slopes	LkF	N
Nanny gravelly sandy loam, 0 to 8 percent slopes	NaB	N
Nanny stony sandy loam, 0 to 8 percent slopes	NbB	N
Obie-Mounthat complex, 5 to 15 percent slopes	266, 266im	N
Obie-Mounthat complex, 30 to 50 percent slopes	268, 268im	N
Rubbleland	RyF	N
Stukel complex, 15 to 30 percent slopes	316	N
Toomes very rocky loam, 0 to 50 percent slopes	TcE	N
Windy and McCarthy stony sandy loams, 0 to 30 percent slopes	WeD	N
Windy and McCarthy very rocky sandy loams, 8 to 50 percent slopes	WgE	N
Windy and McCarthy very stony sandy loams, 30 to 50 percent slopes	WfE	N
Windy and McCarthy very stony sandy loams, 50 to 75 percent slopes	WfG	N

Source: Natural Resources Conservation Service. 2019. USDA Web Soil Survey. Available: http://websoilsurvey.nrcs.usda.gov. Accessed October 2019.



3.0 METHODS

The delineation reflects three phases of work: desktop review, field assessment, and classification. Each is described below.

3.1 DESKTOP REVIEW

Prior to conducting fieldwork, Stantec biologists reviewed the following resources:

- U.S. Fish and Wildlife Service National Wetland Inventory (USFWS 2019);
- Google Earth aerial imagery dating back to 1984;
- U.S. Geological Survey 7.5-minute topographic maps (USGS 1990a,b,c; 1995a,b); and
- U.S. Geological Survey National Hydrography Dataset (USGS 2019)

These resources were used to identify potential aquatic features based on changes in vegetation, topographic changes, or visible drainage patterns. Prior to field surveys, potential features were digitized into a working field map that was then used as a reference during field surveys.

3.2 AQUATIC RESOURCES FIELD ASSESSMENT

The aquatic resources field survey was conducted between October 10, 2017, and August 30, 2018, by the following Stantec biologists:

- John Holson
- Allison Loveless
- Andrew Sorci
- Gabe Youngblood

The 2019 field survey was conducted between October 14 and 18, 2019, by the following Stantec biologists:

- John Holson
- Sheryl Creer
- Cristian Singer
- Brendan Cohen
- Sara Cortez

The qualifications of these biologists are provided in Appendix E.

3.2.1 Wetlands

Stantec biologists delineated potential wetlands and classified them into different types based on function, hydrological source/regime, topography, plant species composition, and origin (i.e., natural vs. man-made). Stantec conducted an on-site routine delineation of wetlands of the United States based on field observations of positive indicators for wetland vegetation, hydrology, and soils. The routine delineation includes establishing sample points and investigating three parameters at each point to determine and document the wetland-upland boundary. This methodology is consistent with the approach outlined in the *Corps of Engineers Wetlands Delineation Manual* (Environmental Laboratory 1987) and the *Regional Supplement to the Corps of Engineers Wetland Delineation*



Manual: Western Mountains Valleys and Coast (USACE 2010). At least one set of data points was selected to best represent the wetland feature type and the adjacent uplands. Data points were also placed in suspect areas to confirm wetland or upland status.

Wetland boundaries were determined by following a combination of the limits of hydrophytic vegetation, limits of observed wetland hydrology, topographic breaks, and aerial ortho-photo interpretation. Sample pits and wetland boundaries were mapped using a sub-meter-accurate Bad Elf™ Global Positioning Service Unit paired with Collector for ArcGIS™. All spatial data was collected in the World Geodetic System (WGS84) datum. Representative photographs were also taken of sample points and features (Appendix D). All potential wetland areas were evaluated to identify their connection to onsite and offsite hydrologic resources, and all potentially jurisdictional wetland areas were mapped if they met all three USACE-required parameters.

Plant taxonomy follows the Jepson Flora Project (2019). Wetland indicator status for plant species was confirmed with *The National Wetland Plant List* (Lichvar et al. 2016). Soil pits were excavated in representative wetland features to a depth sufficient to document the presence or confirm the absence of hydric soil or wetland hydrology indicators. Positive indicators of hydric soils were observed in the field following the criteria outlined in *Field Indicators of Hydric Soils in the United States* (Vasilas et al. 2017). Soil hue and chroma were determined using a Munsell® soil color chart. The hydric status of each soil map unit occurring in the survey area was reviewed using the Web Soil Survey (NRCS 2019). Stantec biologists used the Cowardin et al. (1979) system, as amended by subsequent updates (Federal Geographic Data Committee 2013) to assign all features a Cowardin type.

3.2.2 Other Waters

Stantec biologists delineated non-wetland features and classified them into different types based on function, hydrological source/regime, and origin (i.e., natural vs. man-made). These features were designated "other waters" of the United States and were delineated based on indicators of an ordinary high water mark (OHWM) and bed and banks. The OHWM was determined using the approach outlined in *A Guide to Ordinary High Water Mark (OHWM) Delineation for Non-Perennial Streams in the Western Mountains, Valleys, and Coast Region of the United States* (USACE 2014). Other waters are jurisdictional either (1) by rule or (2) because they have a significant nexus to a traditional navigable water (TNW), interstate water, territorial sea, or impoundment of a water of the U.S. Waters jurisdictional by rule are defined as (1) a TNW, interstate water, territorial sea, or impoundment of a water of the U.S. or (2) a tributary to or adjacent to a interstate water, territorial sea, or impoundment of a water of the U.S. (33 CFR 328.4). Delineation and potential jurisdiction of other waters was based guidance in USACE regulations (33 CFR 328.3 and 33 CFR 328.4). Physical characteristics of an OHWM include, but are not limited to, the following conditions: a natural line impressed on the bank, shelving, changes in the character of the soil, destruction of terrestrial vegetation, presence of litter and debris, leaf litter disturbed or washed away, scour, deposition, presence of bed and bank, and water staining. Either a data point was selected to best represent the OHWM of other waters or attributes were averaged along the length of the feature within the survey area.

A custom data dictionary in Collector was used to ensure consistent data collection in the field, and all spatial data was collected in the WGS84 datum. The following attributes were collected or measured for each mapped drainage: average OHWM width and depth, average top-of-bank width and depth, hydrologic regime, OHWM indicators, substrate below OHWM, substrate above OHWM and depth of water (if present). Representative photographs of features were also taken (Appendix D). In some instances, culverts or drainages were obscured by thick brush or inaccessible due to steep terrain. In these cases, full-color aerial imagery and/or topographic maps were used to



assist mapping the jurisdictional features. All potentially jurisdictional drainages with primary or secondary indicators of OHWM and bed and bank were mapped and assumed to have either connectivity in some capacity (subsurface, adjacent, etc.) or a significant nexus with traditionally navigable waters as defined by the Clean Water Rule. Stantec biologists used the Cowardin et al. (1979) system, as amended by subsequent updates (Federal Geographic Data Committee 2013) to assign all features a Cowardin type.

3.2.3 Data Points and Delineation Map

Seventy-eight 3-parameter data points were used to characterize and document each wetland and the adjacent upland or other water feature type. The boundaries of delineated features and the associated data points were mapped using a Trimble Mapping Grade Global Positioning System (GPS) capable of sub-foot accuracy. Where the use of the GPS was not practicable, or satellites were not available, the features were delineated utilizing orthorectified color aerial photographs. The GPS and hand-drawn location data were overlaid onto an aerial photograph of the survey area to develop the delineation map.

4.0 RESULTS

Stantec biologists mapped 38.592 ac of wetlands and 13.311 ac (70,595.54 linear ft) of other waters (Appendix A). A summary of the delineated features is presented in Table 4, routine wetland determination data forms are presented in Appendix B, a plant list is provided in Appendix C, and representative photographs of the delineated features and data point locations are presented in Appendix D.

Table 4. Summary of Potentially Jurisdictional Aquatic Resources within the Survey Area

Feature Type	Acres	Linear Feet	Cowardin Code ¹
Wetlands			
Fresh Emergent Wetland	0.967	156 ²	PEM
Riparian Wetland	26.808	N/A	PSS, PFO
Seasonal Wetland	0.120	N/A	PEM
Vegetated Ditch	0.174	2,432	PEM
Wetland Meadow	8.714	N/A	PEM, PSS, PFO
Wetland Seep/Spring	1.809	N/A	PEM, PSS
Subtotal – Wetlands	38.592	2,588	
Other Waters			
Ephemeral Stream	0.559	10,224	R4SB
Intermittent Stream	2.861	24,900	R4SB
Non-vegetated Ditch	0.239	4,975	R4
Perennial Stream	9.468	30,495	R3UB
Pond	0.181	N/A	PUB
Subtotal – Other waters	13.311	70,595	
Total Jurisdictional Area	51.900	73,183	



4.1 WETLANDS

Stantec biologists mapped 206 wetlands and classified them into 1 of 6 wetland types: fresh emergent wetland, riparian wetland, seasonal wetland, vegetated ditch, wetland meadow, and wetland seep/spring. In total, Stantec biologists examined and mapped 5 fresh emergent wetlands, 134 riparian wetlands, 5 seasonal wetlands, 12 vegetated ditches, 17 wetland meadows and 33 wetland seep/springs within the survey area. They also categorized mapped wetlands into 1 of 3 Cowardin classifications: palustrine emergent, palustrine forested, and palustrine scrubshrub habitats (Figure 3).

4.1.1 Vegetation

Fresh Emergent Wetland

Fresh emergent wetlands occur infrequently throughout the survey area. They are associated with ponded depressions and low gradient vegetated portions of perennial stream channels. Vegetation found in fresh emergent wetlands includes American brooklime (OBL³), marsh purslane (*Ludwigia palustris*, OBL), common tule (OBL), Rocky Mountain pond-lily (OBL), and ridged manna grass (OBL).

Riparian Wetland

Riparian wetlands are the most common wetland type in the survey area. They are most often associated with intermittent or perennial drainages. Riparian wetlands in the survey area consist of tree- or shrub-dominated features. Dominant species within the survey area include white alder (FACW), Oregon ash (FACW), mountain alder (FACW), American dogwood (FACW), and Pacific willow (FACW). An herbaceous understory is often present and includes ridged manna grass (OBL), reed canary grass (FACW), hedge nettle (OBL), western lady fern (FAC), horsetail (Equisetum spp., FAC-OBL), stream violet (FACW), California tiger lily (FACW), and cow parsnip (FAC).

Seasonal Wetland

Seasonal wetlands occur infrequently in the survey area in a variety of landscape positions from shallow depressions to hillslopes. Seasonal wetlands are typically dominated by herbaceous vegetation that dies back during the dry season. Species present in seasonal wetlands include annual hair grass (*Deschampsia danthonioides*, FACW), Baltic rush (*Juncus balticus*, FACW), needle spikerush (*Eleocharis acicularis*, OBL), white brodiaea (*Triteleia hyacinthine*, FAC), and needleleaf navarretia (*Navarretia intertexta*, FACW).

³ FAC = facultative. FACU = facultative upland, FACW = facultative wetland, OBL = obligate, UPL = upland. Status based on Lichvar, R. W., D. L. Banks, W. N. Kirchner, and N. C. Melvin. 2016. The National Wetland Plant List: 2016 wetland ratings. Phytoneuron 2016-30: 1-17. Published 28 April 2016. ISSN 2153 733X.



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¹ PEM = palustrine emergent, PSS = palustrine scrub-shrub, PFO = palustrine forested, R4SB = riverine intermittent streambed, R4 = Riverine intermittent, R3UB = riverine upper perennial unconsolidated bottom, PUB = palustrine unconsolidated bottom. Codes based on Cowardin et al. 1979.

² Linear distance for stream segments mapped as fresh emergent wetlands.

Vegetated Ditch

Vegetated ditches are man-made ditches that support a hydrologic regime sufficient to support hydrophytic vegetation. Vegetated ditches in the survey area typically convey water from perennial streams to areas outside the survey area for agricultural use. Herbaceous vegetation dominates these features including small fruited bulrush (OBL), western mountain aster (FAC), and big-leaf sedge (OBL).

Wetland Meadow

The wetland meadow classification is used for low gradient features in the survey area. Wetland meadows are dominated by herbaceous vegetation, including lamp rush (*Juncus effusus*, FACW), spearmint (FACW), big-leaf sedge (OBL), southern beaked sedge (*Carex utriculata*, OBL), white-flowered bog-orchid (FACW), Bigelow's sneezeweed (FACW), tufted hair grass (FACW), western mountain aster (FAC), long-stalked clover (FAC), and California oat grass (FAC). Wetland meadows at the headwaters of the North Fork of Montgomery Creek also support trees and shrubs, including lodgepole pine (FAC), Douglas spiraea (FACW), cascara (FAC), and western blueberry (FACW).

Wetland Seep/Spring

Wetland seep/springs occur as large, seepy hillsides or smaller seeps associated with road cuts. Herbaceous vegetation dominates these features, although hillside seeps often have shrubs or trees scattered throughout the wetland. Species observed in seep spring wetlands include white alder, mountain alder, Pacific yew (*Taxus brevifolia*, FAC), vine maple (FAC), Pacific willow (FACW), arroyo willow (FACW), pull-up muhly (FACW), giant checkerbloom (UPL), California tiger lily (FACW), narrow-leaved lotus (OBL), western mountain aster (FAC), seep monkey flower (OBL), Tinker's penny (*Hypericum anagalloides*, OBL), grayswamp whiteheads (*Sphenosciadium capitellatum*, FACW), and feathery false lily of the valley (*Maianthemum racemosum*, FAC).

4.1.2 Soils

Stantec biologists examined soils at wetland and upland data points. Several hydric soil indicators were observed in soil samples, including Histosol (A1), Histic Epipedon (A2), Hydrogen Sulfide (A4), Sandy Mucky Mineral (S1), Sandy Redox (S5), Loamy Mucky Mineral (F1), Loamy Gleyed Matrix (F2), Depleted Matrix (F3), Redox Dark Surface (F6), and Depleted Dark Surface (F7). Stantec documented problematic hydric soils in riparian wetlands, a seasonal wetland, a wetland meadow, and a vegetated ditch. Problematic soils in riparian wetlands were associated with vegetated gravel bars where indicators of hydric soils are often absent due to deposition of new soil material, low iron and manganese levels, and lack of organic content. The only seasonal wetland with problematic hydric soils occurred on a hillslope with shallow soils over bedrock. Soils in the vegetated ditch were inundated at the time of the survey and the feature was dominated by obligate hydrophytic vegetation. The vegetated ditch in question appears to be inundated perennially based on historical imagery. The wetland meadow with problematic hydric soils was inundated at the time of the survey and exhibited a positive reaction to alpha-alpha-Dipyridyl, indicating a presence of ferrous (Fe⁺⁺) iron. In addition, Stantec observed and documented dominant hydrophytic vegetation and indicators of wetland hydrology at four locations where problematic hydric soils were observed in wetland determinations.



4.1.3 Hydrology

Stantec biologists evaluated wetland hydrology at all established data points. Several primary indicators of wetland hydrology were observed within wetlands, including surface water (A1), high water table (A2), saturation (A3), water marks (B1), sediment deposits (B2), drift deposits (B3), algal mat or crust (B4), inundation visible on aerial imagery (B7), water stained leaves (B9), hydrogen sulfide odor (C1), oxidized rhizospheres (C3), and saturation visible on aerial imagery (C9). Stantec biologists also observed secondary indicators of wetland hydrology including drainage patterns (B10), geomorphic position (D2), and FAC-neutral test (D5).

4.2 OTHER WATERS

Stantec biologists mapped a total of 284 features designated "other waters" and classified them into 1 of 5 other waters types: ephemeral stream, intermittent stream, non-vegetated ditch, perennial stream, and pond. In total, Stantec biologists examined and mapped 41 ephemeral streams, 110 intermittent streams, 21 non-vegetated ditches, 109 perennial stream segments, and 3 ponds within the survey area. They also categorized other waters into one of four Cowardin classifications: riverine intermittent streambed, riverine intermittent, riverine upper perennial unconsolidated bottom, and palustrine unconsolidated bottom habitats (Figure 3).

4.2.1 Ephemeral Stream

Ephemeral streams exhibit indicators of scour and deposition, minor drift lines, and sediment deposits, but lack indication of a ground water component. Hydrology is provided by sheet flow during precipitation events. The poorly defined hydrology indicators, proximity to the headwaters, and small sizes of the ephemeral streams indicate short duration flow and lack of a groundwater component. Stantec biologists mapped 41 ephemeral stream segments within the survey area, which range from 1 to 6 ft wide. The streambed is devoid of vegetation and exhibit dominant substrates of soil, rock, and gravel. Drift deposits were the most commonly observed OHWM indicator in ephemeral streams.

4.2.2 Intermittent Stream

Intermittent streams flow seasonally but are fed by a groundwater component in addition to precipitation and sheet flow from adjacent slopes. Stantec biologists mapped 110 intermittent stream segments within the survey area. They are characterized as bed and bank features that exhibit indicators of scour, deposition, watermarks, and drift lines. Intermittent streams range from 1 to 20 ft wide and some support adjacent riparian wetlands. Rock, gravel, and soil are the dominant stream substrates. A few of the intermittent stream segments are named streams, including Richardson Creek and the upper reaches of Little Hatchet Creek.

4.2.3 Perennial Stream

Perennial streams are characterized by year-round surface water. Stantec biologists mapped 109 perennial stream segments within the survey area. They are characterized as features with bed and bank that exhibit indicators of scour, deposition, watermarks, and drift lines. Stream widths vary between 2 and 90 ft, and several of the perennial streams support adjacent riparian wetlands. Cobble, gravel, and sand are the dominant substrates in perennial streams. Several of the perennial stream segments are named streams, including Hatchet Creek, the lower reaches



of Little Hatchet Creek, Carberry Creek, Goat Creek, the North and South Forks of Montgomery Creek, North Fork of Cedar Creek, the North Fork of Little Cow Creek, Little Cow Creek, and Mill Creek.

4.2.4 Non-Vegetated Ditch

Non-vegetated ditches are man-made ditches that do not support hydrophytic vegetation, have OHWM and bed and bank, and are connected to a wetland or other water. There were two types of non-vegetated ditches in the survey area: roadside ditches that convey runoff from adjacent roads to wetlands or other waters, and irrigation ditches that convey water from streams or vegetated ditches. Stantec biologists mapped 21 non-vegetated ditch segments within the survey area, which range from 1 to 8 ft wide. Soil, rock, and gravel are the dominant substrates in non-vegetated ditches.

4.2.5 Pond

Ponds in the survey area are constructed features either with a seasonally high water table or created by pooling water adjacent to natural springs. Stantec biologists mapped three ponds in the survey area. They occur adjacent to fresh emergent wetlands or wetland seep/springs but lack the vegetation component required to qualify as wetlands. Ponds were either fully inundated at the time of the survey or the ordinary high water mark was delineated based on drift deposits and inundation visible on historical imagery.

4.3 NEGATIVE OBSERVATIONS

There were some areas where existing data (i.e., National Wetland Inventory and National Hydrography Dataset) indicated features were present (e.g., headwaters of streams), but no evidence of overland flow or indicators of wetlands were observed during the field examination. No features were mapped at these locations and because there was no physical evidence of any wetland or other waters feature, no data was taken at these locations.

5.0 CONCLUSION

Potential waters of the United States, including wetlands, delineated within the survey area occupy a total of 51.900 ac in the survey area and include fresh emergent wetland (0.967 ac, 156 linear ft), riparian wetland (26.808 ac), seasonal wetland (0.120 ac), vegetated ditch (0.174 ac, 2,432 ft), wetland meadow (8.714 ac), wetland seep/spring (1.809 ac), ephemeral stream (0.559 ac, 10,224 linear ft), intermittent stream (2.784 ac, 24,900 linear ft), nonvegetated ditch (0.239 ac, 4,975 linear ft), perennial stream (9.468 ac, 30,495 linear ft), and pond (0.181 ac).

Determinations of waters of the United States, including wetlands, are based on current conditions, (i.e., normal circumstances) and made in accordance with June 2015t U.S. Environmental Protection Agency and USACE guidance (33 CFR 328). Determinations may be subject to verification by the USACE. Stantec advises all interested parties to treat the information contained herein as preliminary as written verification of jurisdictional boundaries by USACE may be required.



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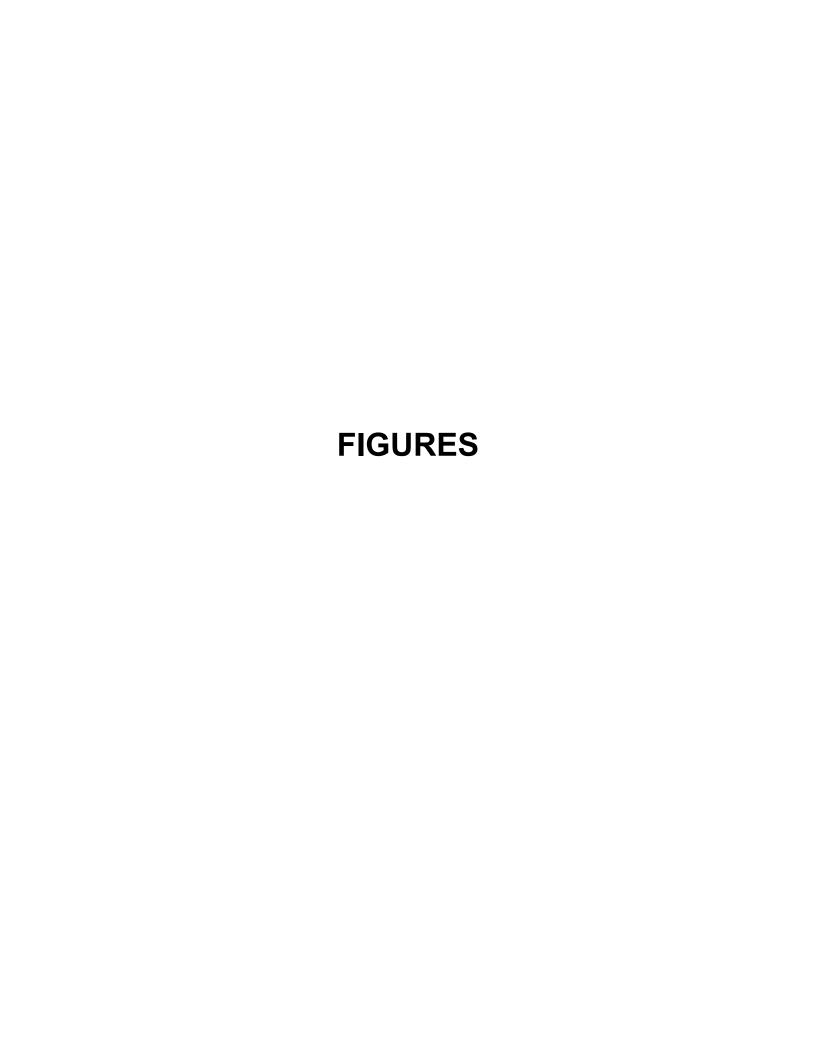


Figure 1. General Overview Map

Figure 2. Soils Map

Figure 3. Aquatic Resources Survey Results Map

APPENDICES

Appendix A AQUATIC RESOURCE SURVEY RESULTS



Table A-1. Aquatic Resources

Aquatic Resource Name	Туре	Aquat	Aquatic Resource Classification			
			Lo	cation	Acres	Linear Feet
		Cowardin	Latitude	Longitude		reet
Wetlands	•		•	·		
FEW1	fresh emergent	PEM	40.890447	-121.834332	0.017	
FEW2	fresh emergent	PEM	40.853232	-121.780988	0.007	56
FEW3	fresh emergent	PEM	40.841437	-121.861347	0.882	
FEW4	fresh emergent	PEM	40.840474	-121.821305	0.042	55
FEW5	fresh emergent	PEM	40.840517	-121.821061	0.019	45
RW1	riparian wetland	PSS	40.891495	-121.835363	0.780	
RW2	riparian wetland	PSS	40.891599	-121.835343	0.494	
RW3	riparian wetland	PSS	40.890837	-121.834593	0.166	
RW4	riparian wetland	PSS	40.890337	-121.834052	0.025	
RW5	riparian wetland	PSS	40.889439	-121.833081	1.268	
RW6	riparian wetland	PSS	40.888925	-121.832221	0.447	
RW7	riparian wetland	PSS	40.887418	-121.830094	0.258	
RW8	riparian wetland	PSS	40.886252	-121.828624	0.246	
RW9	riparian wetland	PSS	40.884149	-121.826098	0.268	
RW10	riparian wetland	PSS	40.883870	-121.825625	0.239	
RW11	riparian wetland	PFO	40.873218	-121.858120	0.114	
RW12	riparian wetland	PFO	40.873100	-121.857852	0.060	
RW13	riparian wetland	PFO	40.873292	-121.857597	0.703	
RW14	riparian wetland	PFO	40.873670	-121.836937	0.050	
RW15	riparian wetland	PFO	40.873635	-121.836923	0.051	
RW16	riparian wetland	PSS	40.880939	-121.821330	0.291	
RW17	riparian wetland	PSS	40.881021	-121.821352	0.131	
RW18	riparian wetland	PSS	40.878541	-121.818671	0.481	
RW19	riparian wetland	PSS	40.877669	-121.818184	0.549	
RW20	riparian wetland	PSS	40.877059	-121.818055	0.114	
RW21	riparian wetland	PSS	40.876417	-121.817259	0.057	
RW22	riparian wetland	PSS	40.875833	-121.816962	0.099	
RW23	riparian wetland	PSS	40.875776	-121.816837	0.082	
RW24	riparian wetland	PSS	40.873509	-121.815448	0.290	
RW25	riparian wetland	PSS	40.873640	-121.815454	0.136	
RW26	riparian wetland	PSS	40.872656	-121.813937	0.067	
RW27	riparian wetland	PSS	40.872654	-121.813875	0.090	
RW28	riparian wetland	PFO	40.860975	-121.837816	0.500	



	Type	Aquat	ic Resource Cla	ssification		
Aquatic Resource Name			Lo	Acres	Linear Feet	
Name		Cowardin	Latitude	Longitude		1 661
RW29	riparian wetland	PFO	40.860524	-121.837613	1.235	
RW30	riparian wetland	PSS	40.871419	-121.814428	0.191	
RW31	riparian wetland	PSS	40.871190	-121.814446	0.225	
RW32	riparian wetland	PSS	40.868878	-121.814728	0.126	
RW33	riparian wetland	PSS	40.868779	-121.814774	0.115	
RW34	riparian wetland	PSS	40.865209	-121.818110	0.010	
RW35	riparian wetland	PSS	40.864723	-121.818203	0.039	
RW36	riparian wetland	PSS	40.865208	-121.818005	0.006	
RW37	riparian wetland	PSS	40.864720	-121.818083	0.012	
RW38	riparian wetland	PSS	40.863026	-121.814215	0.114	
RW39	riparian wetland	PSS	40.862944	-121.814297	0.102	
RW40	riparian wetland	PSS	40.852568	-121.844232	0.062	
RW41	riparian wetland	PSS	40.851808	-121.844058	0.154	
RW42	riparian wetland	PSS	40.851444	-121.844056	0.077	
RW43	riparian wetland	PSS	40.854344	-121.783416	0.144	
RW44	riparian wetland	PSS	40.854555	-121.783674	0.028	
RW45	riparian wetland	PSS	40.853794	-121.782600	0.207	
RW46	riparian wetland	PSS	40.853914	-121.782609	0.076	
RW47	riparian wetland	PSS	40.853190	-121.780694	1.690	
RW48	riparian wetland	PFO	40.841212	-121.861894	0.471	
RW49	riparian wetland	PSS	40.845914	-121.831109	0.071	
RW50	riparian wetland	PSS	40.845931	-121.831647	0.037	
RW51	riparian wetland	PSS	40.845351	-121.827945	1.649	
RW52	riparian wetland	PSS	40.844681	-121.825535	0.451	
RW53	riparian wetland	PSS	40.844679	-121.825674	0.479	
RW54	riparian wetland	PSS	40.842373	-121.822825	0.338	
RW55	riparian wetland	PSS	40.841967	-121.822511	0.456	
RW56	riparian wetland	PSS	40.840733	-121.821993	0.208	
RW57	riparian wetland	PSS	40.840582	-121.820956	0.065	
RW58	riparian wetland	PSS	40.840503	-121.820908	0.042	
RW59	riparian wetland	PSS	40.840597	-121.816460	0.008	
RW60	riparian wetland	PSS	40.840642	-121.816399	0.016	
RW61	riparian wetland	PSS	40.834212	-121.817283	0.014	
RW62	riparian wetland	PSS	40.834188	-121.817289	0.013	
RW63	riparian wetland	PSS	40.833724	-121.816664	0.015	
RW64	riparian wetland	PSS	40.833732	-121.816641	0.015	



	Type	Aquat	ic Resource Cla	ssification		
Aquatic Resource Name			Loc	cation	Acres	Linear Feet
Name		Cowardin	Latitude	Longitude		1 001
RW65	riparian wetland	PFO	40.815172	-121.812451	3.298	
RW66	riparian wetland	PSS	40.823068	-121.778623	0.071	
RW67	riparian wetland	PSS	40.822403	-121.777886	0.226	
RW68	riparian wetland	PSS	40.821951	-121.777227	0.269	
RW69	riparian wetland	PFO	40.820653	-121.778426	0.119	
RW70	riparian wetland	PFO	40.820769	-121.778299	0.034	
RW71	riparian wetland	PFO	40.820366	-121.778372	0.006	
RW72	riparian wetland	PFO	40.820404	-121.778264	0.015	
RW73	riparian wetland	PFO	40.820227	-121.778185	0.081	
RW74	riparian wetland	PFO	40.812569	-121.846053	0.201	
RW75	riparian wetland	PFO	40.812629	-121.845533	0.014	
RW76	riparian wetland	PSS	40.814488	-121.820920	0.034	
RW77	riparian wetland	PSS	40.814419	-121.820983	0.066	
RW78	riparian wetland	PSS	40.812468	-121.817060	0.027	
RW79	riparian wetland	PSS	40.812562	-121.817172	0.009	
RW80	riparian wetland	PSS	40.812526	-121.816962	0.025	
RW81	riparian wetland	PSS	40.812052	-121.816732	0.105	
RW82	riparian wetland	PSS	40.812152	-121.816532	0.146	
RW83	riparian wetland	PFO	40.814566	-121.810205	0.003	
RW84	riparian wetland	PFO	40.801414	-121.879709	0.287	
RW85	riparian wetland	PSS	40.796313	-121.810630	0.209	
RW86	riparian wetland	PSS	40.796408	-121.810553	0.136	
RW87	riparian wetland	PSS	40.795604	-121.810194	0.072	
RW88	riparian wetland	PSS	40.795361	-121.810729	0.029	
RW89	riparian wetland	PSS	40.795248	-121.810832	0.005	
RW90	riparian wetland	PSS	40.795221	-121.810645	0.033	
RW91	riparian wetland	PSS	40.795062	-121.810106	0.374	
RW92	riparian wetland	PSS	40.790117	-121.833817	0.045	
RW93	riparian wetland	PSS	40.790047	-121.833793	0.069	
RW94	riparian wetland	PSS	40.790446	-121.832991	0.051	
RW95	riparian wetland	PSS	40.790362	-121.833069	0.038	
RW96	riparian wetland	PSS	40.792191	-121.826971	0.301	
RW97	riparian wetland	PSS	40.792341	-121.827458	0.041	
RW98	riparian wetland	PSS	40.792227	-121.826803	0.049	
RW99	riparian wetland	PSS	40.792068	-121.826113	0.008	
RW100	riparian wetland	PSS	40.791793	-121.825514	0.069	



Aquatic Resource Name	Туре	Aquat	tic Resource Cla	assification		
			Lo	cation	Acres	Linear Feet
Name		Cowardin	Latitude	Longitude		
RW101	riparian wetland	PSS	40.791591	-121.825292	0.052	
RW102	riparian wetland	PSS	40.791175	-121.824461	0.149	
RW103	riparian wetland	PSS	40.791207	-121.824287	0.080	
RW104	riparian wetland	PSS	40.791193	-121.822844	0.014	
RW105	riparian wetland	PSS	40.773617	-121.852219	0.011	
RW106	riparian wetland	PSS	40.773563	-121.852166	0.013	
RW107	riparian wetland	PSS	40.773601	-121.850887	0.008	
RW108	riparian wetland	PSS	40.773663	-121.850833	0.011	
RW109	riparian wetland	PSS	40.773549	-121.850483	0.012	
RW110	riparian wetland	PSS	40.773623	-121.850581	0.002	
RW111	riparian wetland	PSS	40.773621	-121.850358	0.008	
RW112	riparian wetland	PSS	40.773944	-121.849629	0.004	
RW113	riparian wetland	PSS	40.773861	-121.849497	0.009	
RW114	riparian wetland	PSS	40.773926	-121.849114	0.008	
RW115	riparian wetland	PSS	40.773981	-121.848678	0.011	
RW116	riparian wetland	PSS	40.774095	-121.848464	0.005	
RW117	riparian wetland	PSS	40.774359	-121.847838	0.008	
RW118	riparian wetland	PSS	40.774336	-121.847781	0.008	
RW119	riparian wetland	PSS	40.774418	-121.847670	0.008	
RW120	riparian	PFO	40.759667	-121.867426	0.045	
RW121	riparian	PFO	40.759582	-121.867279	0.146	
RW122	riparian	PFO	40.761524	-121.871080	0.028	
RW123	riparian	PSS	40.757966	-121.833940	0.033	
RW124	riparian	PSS	40.757819	-121.834125	0.039	
SW1	seasonal	PEM	40.855418	-121.796332	0.087	
SW2	seasonal	PEM	40.830941	-121.848041	0.006	
SW3	seasonal	PEM	40.830981	-121.847850	0.019	
SW4	seasonal	PEM	40.832394	-121.847031	0.003	
SW5	seasonal	PEM	40.815233	-121.804631	0.005	
VD1	vegetated ditch	PEM	40.864946	-121.821408	0.005	114
VD2	vegetated ditch	PEM	40.864915	-121.821259	0.003	73
VD3	vegetated ditch	PEM	40.864944	-121.821061	0.006	146
VD4	vegetated ditch	PEM	40.865218	-121.820776	0.014	739
VD5	vegetated ditch	PEM	40.836493	-121.820790	0.001	52
VD6	vegetated ditch	PEM	40.816789	-121.789207	0.003	54
VD7	vegetated ditch	PEM	40.812409	-121.845484	0.003	59



	Туре	Aquat	ic Resource Cla	assification		Linear Feet
Aquatic Resource Name			Loc	cation	Acres	
Name		Cowardin	Latitude	Longitude		
VD8	vegetated ditch	PEM	40.806278	-121.880500	0.003	152
VD9	vegetated ditch	PEM	40.805908	-121.880505	0.027	235
VD10	vegetated ditch	PEM	40.803975	-121.879762	0.020	219
VD11	vegetated ditch	PEM	40.802449	-121.879872	0.057	415
VD12	vegetated ditch	PEM	40.801865	-121.879357	0.032	174
WM1	meadow	PEM	40.864720	-121.822380	2.578	
WM2	meadow	PEM	40.853997	-121.782958	0.095	
WM3	meadow	PEM	40.853828	-121.782279	0.327	
WM4	meadow	PEM	40.853931	-121.780587	0.266	
WM5	meadow	PEM	40.852239	-121.780911	0.046	
WM6	meadow	PEM	40.851990	-121.780767	0.038	
WM7	meadow	PEM	40.841956	-121.861564	0.147	
WM8	meadow	PFO	40.814975	-121.805890	4.614	
WM9	meadow	PEM	40.818286	-121.794219	0.039	
WM10	meadow	PEM	40.818246	-121.793875	0.030	
WM11	meadow	PEM	40.818302	-121.793441	0.133	
WM12	meadow	PEM	40.824337	-121.780008	0.028	
WM13	meadow	PEM	40.824205	-121.779653	0.005	
WM14	meadow	PEM	40.823941	-121.779240	0.028	
SSW1	seep/spring	PEM	40.880767	-121.821626	0.011	
SSW2	seep/spring	PEM	40.877874	-121.818932	0.002	
SSW3	seep/spring	PSS	40.865232	-121.819485	0.414	
SSW4	seep/spring	PSS	40.853703	-121.783179	0.062	
SSW5	seep/spring	PEM	40.845116	-121.825675	0.001	
SSW6	seep/spring	PEM	40.844968	-121.825528	0.023	
SSW7	seep/spring	PSS	40.843166	-121.822585	0.066	
SSW8	seep/spring	PEM	40.840315	-121.815487	0.002	
SSW9	seep/spring	PSS	40.847580	-121.781099	0.185	
SSW10	seep/spring	PSS	40.836221	-121.820897	0.172	
SSW11	seep/spring	PSS	40.836672	-121.820496	0.057	
SSW12	seep/spring	PEM	40.837776	-121.818593	0.114	
SSW13	seep/spring	PEM	40.834990	-121.816054	0.004	
SSW14	seep/spring	PEM	40.838192	-121.815089	0.003	
SSW15	seep/spring	PSS	40.812212	-121.845667	0.067	
SSW16	seep/spring	PEM	40.791346	-121.825301	0.012	
SSW17	seep/spring	PEM	40.790844	-121.820400	0.007	



	Туре	Aquat	Aquatic Resource Classification			
Aquatic Resource Name			Loc	ation	Acres	Linear Feet
Name		Cowardin	Latitude	Longitude		1 001
SSW18	seep/spring	PEM	40.791067	-121.820056	0.003	
SSW19	seep/spring	PEM	40.791744	-121.819765	0.005	
SSW20	seep/spring	PEM	40.791531	-121.819862	0.004	
SSW21	seep/spring	PEM	40.791221	-121.819697	0.005	
SSW22	seep/spring	PEM	40.791351	-121.819529	0.002	
SSW23	seep/spring	PEM	40.791289	-121.819441	0.004	
SSW24	seep/spring	PEM	40.773057	-121.857046	0.010	
SSW25	seep/spring	PEM	40.773023	-121.856441	0.011	
SSW26	seep/spring	PSS	40.774072	-121.849235	0.153	
SSW27	seep/spring	PSS	40.774109	-121.848712	0.051	
SSW28	seep/spring	PSS	40.775018	-121.847328	0.100	
SSW29	seep/spring	PEM	40.769698	-121.835837	0.005	
SSW30	seep/spring	PSS	40.759478	-121.867748	0.004	
SSW31	seep/spring	PFO	40.758601	-121.867078	0.230	
1	riparian	PSS	40.83385673	-121.78377	1.020	
2	meadow	PEM	40.82826307	-121.787843	0.244	
3	meadow	PSS	40.82781361	-121.787015	0.072	
4	meadow	PSS	40.82791797	-121.787333	0.024	
5	riparian	PSS	40.82542795	-121.782464	0.083	
6	riparian	PSS	40.82508067	-121.781715	0.093	
8	riparian	PFO	40.790353	-121.832811	0.087	
9	riparian	PFO	40.79003735	-121.83405	0.067	
10	seep/spring	PEM	40.7750096	-121.847283	0.002	
11	seep/spring	PEM	40.77491331	-121.847382	0.016	
50	riparian	PSS	40.84053307	-121.863502	0.373	
51	riparian	PSS	40.82953048	-121.845301	0.032	
53	riparian	PFO	40.78585444	-121.851623	0.634	
56	riparian	PFO	40.79689706	-121.810473	0.048	
57	riparian	PFO	40.81279719	-121.846088	0.084	
Other Waters	•					
ES1	ephemeral stream	R4SB	40.906356	-121.871535	0.004	160
ES2	ephemeral stream	R4SB	40.895389	-121.847652	0.015	323
ES3	ephemeral stream	R4SB	40.873249	-121.848448	0.027	395
ES4	ephemeral stream	R4SB	40.873446	-121.846996	0.020	428
ES5	ephemeral stream	R4SB	40.877326	-121.819019	0.022	153
ES6	ephemeral stream	R4SB	40.877415	-121.818606	0.005	42



	Туре	Aquat	ic Resource Cla	ssification		
Aquatic Resource Name			Loc	cation	Acres	Linear Feet
Name		Cowardin	Latitude	Longitude		1 001
ES7	ephemeral stream	R4SB	40.865603	-121.834594	0.001	54
ES8	ephemeral stream	R4SB	40.864961	-121.832654	0.007	153
ES9	ephemeral stream	R4SB	40.865410	-121.829715	0.001	48
ES10	ephemeral stream	R4SB	40.865286	-121.829737	0.005	43
ES11	ephemeral stream	R4SB	40.864870	-121.829891	0.004	156
ES12	ephemeral stream	R4SB	40.851954	-121.846311	0.003	112
ES13	ephemeral stream	R4SB	40.841939	-121.862610	0.017	139
ES14	ephemeral stream	R4SB	40.839359	-121.862111	0.003	137
ES15	ephemeral stream	R4SB	40.838893	-121.861779	0.019	272
ES16	ephemeral stream	R4SB	40.842927	-121.826460	0.005	114
ES17	ephemeral stream	R4SB	40.843052	-121.826202	0.008	329
ES18	ephemeral stream	R4SB	40.840847	-121.824265	0.006	237
ES19	ephemeral stream	R4SB	40.839643	-121.823468	0.006	262
ES20	ephemeral stream	R4SB	40.839820	-121.822907	0.0003	14
ES21	ephemeral stream	R4SB	40.838333	-121.819333	0.003	112
ES22	ephemeral stream	R4SB	40.838442	-121.861017	0.014	294
ES23	ephemeral stream	R4SB	40.838295	-121.860787	0.004	78
ES24	ephemeral stream	R4SB	40.832081	-121.846274	0.016	686
ES25	ephemeral stream	R4SB	40.830269	-121.841112	0.007	303
ES26	ephemeral stream	R4SB	40.829453	-121.834288	0.047	1,025
ES27	ephemeral stream	R4SB	40.838263	-121.819891	0.009	202
ES28	ephemeral stream	R4SB	40.826878	-121.818557	0.066	956
ES29	ephemeral stream	R4SB	40.824791	-121.781061	0.002	111
ES30	ephemeral stream	R4SB	40.824625	-121.780605	0.008	369
ES31	ephemeral stream	R4SB	40.824258	-121.779830	0.002	78
ES32	ephemeral stream	R4SB	40.791800	-121.822685	0.008	111
ES33	ephemeral stream	R4SB	40.791404	-121.822874	0.017	148
ES34	ephemeral stream	R4SB	40.778938	-121.841781	0.010	109
ES35	ephemeral stream	R4SB	40.778336	-121.842372	0.001	19
ES36	ephemeral stream	R4SB	40.778746	-121.841329	0.049	713
ES37	ephemeral stream	R4SB	40.759364	-121.825149	0.003	145
IS1	intermittent stream	R4SB	40.902292	-121.857570	0.033	173
IS2	intermittent stream	R4SB	40.902230	-121.856919	0.027	147
IS3	intermittent stream	R4SB	40.891986	-121.835677	0.020	285
IS4	intermittent stream	R4SB	40.891287	-121.835221	0.040	292
IS5	intermittent stream	R4SB	40.888301	-121.831137	0.006	62



	Туре	Aquat	ic Resource Cla	essification		
Aquatic Resource Name			Loc	cation	Acres	Linear Feet
Name		Cowardin	Latitude	Longitude		1001
IS6	intermittent stream	R4SB	40.885150	-121.836824	0.007	148
IS7	intermittent stream	R4SB	40.873832	-121.856003	0.021	154
IS8	intermittent stream	R4SB	40.873543	-121.855497	0.018	152
IS9	intermittent stream	R4SB	40.882989	-121.837240	0.027	592
IS10	intermittent stream	R4SB	40.882074	-121.836977	0.007	97
IS11	intermittent stream	R4SB	40.881399	-121.836616	0.026	374
IS12	intermittent stream	R4SB	40.880431	-121.836389	0.034	365
IS13	intermittent stream	R4SB	40.879618	-121.836687	0.017	88
IS14	intermittent stream	R4SB	40.877990	-121.836783	0.153	1,112
IS15	intermittent stream	R4SB	40.876214	-121.836658	0.039	214
IS16	intermittent stream	R4SB	40.875449	-121.836446	0.051	277
IS17	intermittent stream	R4SB	40.872689	-121.813895	0.049	357
IS18	intermittent stream	R4SB	40.865501	-121.834510	0.005	100
IS19	intermittent stream	R4SB	40.865383	-121.834581	0.001	38
IS20	intermittent stream	R4SB	40.865005	-121.834400	0.008	179
IS21	intermittent stream	R4SB	40.871875	-121.814210	0.034	185
IS22	intermittent stream	R4SB	40.871195	-121.814471	0.096	332
IS23	intermittent stream	R4SB	40.868844	-121.814664	0.084	309
IS24	intermittent stream	R4SB	40.865301	-121.824299	0.002	101
IS25	intermittent stream	R4SB	40.864913	-121.824317	0.002	70
IS26	intermittent stream	R4SB	40.856538	-121.836553	0.020	431
IS27	intermittent stream	R4SB	40.855561	-121.835742	0.012	256
IS28	intermittent stream	R4SB	40.853804	-121.782916	0.001	29
IS29	intermittent stream	R4SB	40.845932	-121.828274	0.013	191
IS30	intermittent stream	R4SB	40.845955	-121.828123	0.004	77
IS31	intermittent stream	R4SB	40.846156	-121.827878	0.011	123
IS32	intermittent stream	R4SB	40.846328	-121.827286	0.019	211
IS33	intermittent stream	R4SB	40.845678	-121.826722	0.005	111
IS34	intermittent stream	R4SB	40.845972	-121.826426	0.002	105
IS35	intermittent stream	R4SB	40.840640	-121.815959	0.113	355
IS36	intermittent stream	R4SB	40.840927	-121.815144	0.031	166
IS37	intermittent stream	R4SB	40.841785	-121.812045	0.032	344
IS38	intermittent stream	R4SB	40.841435	-121.813888	0.023	253
IS39	intermittent stream	R4SB	40.841661	-121.813144	0.029	211
IS40	intermittent stream	R4SB	40.841169	-121.814585	0.026	1,840
IS41	intermittent stream	R4SB	40.841230	-121.814087	0.008	178



	Туре	Aquat	ic Resource Cla	ssification		Linear Feet
Aquatic Resource Name			Loc	cation	Acres	
Name		Cowardin	Latitude	Longitude		
IS42	intermittent stream	R4SB	40.841105	-121.813507	0.006	127
IS43	intermittent stream	R4SB	40.841216	-121.813413	0.012	236
IS44	intermittent stream	R4SB	40.839558	-121.806713	0.080	1726
IS45	intermittent stream	R4SB	40.832597	-121.847999	0.017	240
IS46	intermittent stream	R4SB	40.832019	-121.847418	0.005	235
IS47	intermittent stream	R4SB	40.831425	-121.847554	0.009	187
IS48	intermittent stream	R4SB	40.837736	-121.819629	0.011	232
IS49	intermittent stream	R4SB	40.837735	-121.819103	0.005	112
IS50	intermittent stream	R4SB	40.834977	-121.820063	0.007	106
IS51	intermittent stream	R4SB	40.818108	-121.820309	0.085	31
IS52	intermittent stream	R4SB	40.818174	-121.797261	0.011	93
IS53	intermittent stream	R4SB	40.818237	-121.796939	0.032	136
IS54	intermittent stream	R4SB	40.818502	-121.796227	0.115	331
IS55	intermittent stream	R4SB	40.818492	-121.794751	0.022	52
IS56	intermittent stream	R4SB	40.818431	-121.794486	0.026	64
IS57	intermittent stream	R4SB	40.816631	-121.789141	0.011	45
IS58	intermittent stream	R4SB	40.816557	-121.789016	0.006	54
IS59	intermittent stream	R4SB	40.816286	-121.788860	0.012	174
IS60	intermittent stream	R4SB	40.816586	-121.788614	0.012	254
IS61	intermittent stream	R4SB	40.816687	-121.788219	0.003	17
IS62	intermittent stream	R4SB	40.812871	-121.847505	0.038	552
IS63	intermittent stream	R4SB	40.813439	-121.846288	0.002	26
IS64	intermittent stream	R4SB	40.813487	-121.846167	0.009	810
IS65	intermittent stream	R4SB	40.813601	-121.845811	0.008	171
IS66	intermittent stream	R4SB	40.813566	-121.845797	0.014	152
IS67	intermittent stream	R4SB	40.813453	-121.845488	0.003	53
IS68	intermittent stream	R4SB	40.813548	-121.845423	0.005	74
IS69	intermittent stream	R4SB	40.813555	-121.845068	0.004	164
IS70	intermittent stream	R4SB	40.812561	-121.843594	0.002	30
IS71	intermittent stream	R4SB	40.811568	-121.842162	0.160	1,102
IS72	intermittent stream	R4SB	40.812329	-121.843345	0.001	19
IS73	intermittent stream	R4SB	40.812293	-121.843261	0.004	91
IS74	intermittent stream	R4SB	40.812184	-121.843268	0.001	23
IS75	intermittent stream	R4SB	40.812181	-121.843193	0.001	18
IS76	intermittent stream	R4SB	40.812020	-121.843019	0.003	65
IS77	intermittent stream	R4SB	40.811839	-121.842595	0.000	17



	Туре	Aquat	ic Resource Cla	ssification		
Aquatic Resource Name			Loc	cation	Acres	Linear Feet
Name		Cowardin	Latitude	Longitude		1 001
IS78	intermittent stream	R4SB	40.811714	-121.842425	0.002	81
IS79	intermittent stream	R4SB	40.810935	-121.841241	0.001	31
IS80	intermittent stream	R4SB	40.810775	-121.841096	0.002	77
IS81	intermittent stream	R4SB	40.810621	-121.840841	0.011	123
IS82	intermittent stream	R4SB	40.810671	-121.840711	0.038	84
IS83	intermittent stream	R4SB	40.810468	-121.840460	0.020	146
IS84	intermittent stream	R4SB	40.810142	-121.840144	0.026	181
IS85	intermittent stream	R4SB	40.810108	-121.839803	0.014	98
IS86	intermittent stream	R4SB	40.783412	-121.837431	0.014	103
IS87	intermittent stream	R4SB	40.783452	-121.837191	0.012	40
IS88	intermittent stream	R4SB	40.783465	-121.836918	0.025	180
IS89	intermittent stream	R4SB	40.783254	-121.836246	0.035	128
IS90	intermittent stream	R4SB	40.783318	-121.836240	0.003	79
IS91	intermittent stream	R4SB	40.778848	-121.842346	0.003	52
IS92	intermittent stream	R4SB	40.778335	-121.842501	0.044	321
NVD1	ditch	R4	40.876514	-121.817529	0.013	175
NVD2	ditch	R4	40.876009	-121.817651	0.009	69
NVD3	ditch	R4	40.865345	-121.832613	0.008	49
NVD4	ditch	R4	40.864771	-121.824826	0.002	90
NVD5	ditch	R4	40.865351	-121.822307	0.028	611
NVD6	ditch	R4	40.871062	-121.814232	0.005	55
NVD7	ditch	R4	40.871095	-121.814017	0.004	438
NVD8	ditch	R4	40.852910	-121.781686	0.008	165
NVD9	ditch	R4	40.841927	-121.862077	0.013	188
NVD10	ditch	R4	40.845502	-121.827824	0.003	109
NVD11	ditch	R4	40.845267	-121.825812	0.002	87
NVD12	ditch	R4	40.839173	-121.822651	0.002	61
NVD13	ditch	R4	40.837795	-121.860348	0.015	327
NVD14	ditch	R4	40.837425	-121.859655	0.004	190
NVD15	ditch	R4	40.832313	-121.847360	0.012	170
NVD16	ditch	R4	40.834850	-121.816129	0.002	80
NVD17	ditch	R4	40.812320	-121.845772	0.003	38
NVD18	ditch	R4	40.806514	-121.880685	0.017	189
NVD19	ditch	R4	40.791069	-121.821182	0.022	477
NVD20	ditch	R4	40.773181	-121.854917	0.058	1,259
NVD21	ditch	R4	40.778783	-121.842090	0.010	148



	Туре	Aquat	ic Resource Cla	essification		_
Aquatic Resource Name			Loc	cation	Acres	Linear Feet
Name		Cowardin	Latitude	Longitude		1 661
PS1	perennial stream	R3UB	40.891052	-121.834861	0.004	47
PS2	perennial stream	R3UB	40.890757	-121.834580	0.022	234
PS3	perennial stream	R3UB	40.890288	-121.834029	0.018	162
PS4	perennial stream	R3UB	40.889536	-121.833095	0.027	292
PS5	perennial stream	R3UB	40.888392	-121.831478	0.132	161
PS6	perennial stream	R3UB	40.886975	-121.829703	0.116	515
PS7	perennial stream	R3UB	40.886555	-121.829011	0.004	38
PS8	perennial stream	R3UB	40.884426	-121.826436	0.709	2,570
PS9	perennial stream	R3UB	40.873235	-121.857989	0.101	209
PS10	perennial stream	R3UB	40.873519	-121.857510	0.035	301
PS11	perennial stream	R3UB	40.873715	-121.856838	0.002	19
PS12	perennial stream	R3UB	40.875151	-121.836440	0.002	34
PS13	perennial stream	R3UB	40.873657	-121.836928	0.150	950
PS14	perennial stream	R3UB	40.880994	-121.821371	0.410	1173
PS15	perennial stream	R3UB	40.880154	-121.819299	0.012	33
PS16	perennial stream	R3UB	40.877758	-121.818181	0.663	1608
PS17	perennial stream	R3UB	40.876049	-121.816853	0.019	36
PS18	perennial stream	R3UB	40.875770	-121.816901	0.055	170
PS19	perennial stream	R3UB	40.873544	-121.815365	0.082	299
PS20	perennial stream	R3UB	40.860908	-121.837674	0.408	558
PS21	perennial stream	R3UB	40.865306	-121.821159	0.007	79
PS22	perennial stream	R3UB	40.865207	-121.818055	0.050	306
PS23	perennial stream	R3UB	40.864722	-121.818136	0.097	306
PS24	perennial stream	R3UB	40.862986	-121.814253	0.218	474
PS25	perennial stream	R3UB	40.859710	-121.837571	0.058	313
PS26	perennial stream	R3UB	40.852640	-121.844214	0.026	113
PS27	perennial stream	R3UB	40.852397	-121.844109	0.028	77
PS28	perennial stream	R3UB	40.852198	-121.844210	0.052	88
PS29	perennial stream	R3UB	40.851947	-121.844247	0.036	99
PS30	perennial stream	R3UB	40.851470	-121.844024	0.063	269
PS31	perennial stream	R3UB	40.854543	-121.783690	0.025	184
PS32	perennial stream	R3UB	40.854006	-121.782781	0.009	189
PS33	perennial stream	R3UB	40.853705	-121.782355	0.021	155
PS34	perennial stream	R3UB	40.853338	-121.781588	0.043	312
PS35	perennial stream	R3UB	40.853261	-121.780828	0.007	50
PS36	perennial stream	R3UB	40.853187	-121.780676	0.004	55



	Type	Aquat	ic Resource Cla	essification		Linear Feet
Aquatic Resource Name			Lo	cation	Acres	
Name		Cowardin	Latitude	Longitude		
PS37	perennial stream	R3UB	40.853129	-121.780515	0.002	47
PS38	perennial stream	R3UB	40.845952	-121.831505	0.221	487
PS39	perennial stream	R3UB	40.845625	-121.829304	0.076	207
PS40	perennial stream	R3UB	40.845697	-121.828495	0.081	251
PS41	perennial stream	R3UB	40.845591	-121.827736	0.026	98
PS42	perennial stream	R3UB	40.845616	-121.827171	0.043	159
PS43	perennial stream	R3UB	40.844984	-121.826160	0.132	582
PS44	perennial stream	R3UB	40.844033	-121.824461	0.111	605
PS45	perennial stream	R3UB	40.843496	-121.823571	0.013	31
PS46	perennial stream	R3UB	40.842321	-121.822743	0.151	812
PS47	perennial stream	R3UB	40.843215	-121.822945	0.003	61
PS48	perennial stream	R3UB	40.841208	-121.822502	0.004	33
PS49	perennial stream	R3UB	40.840861	-121.822138	0.031	342
PS50	perennial stream	R3UB	40.840545	-121.821538	0.011	82
PS51	perennial stream	R3UB	40.840550	-121.820834	0.015	81
PS52	perennial stream	R3UB	40.835693	-121.820022	0.060	435
PS53	perennial stream	R3UB	40.834810	-121.819333	0.040	431
PS54	perennial stream	R3UB	40.834230	-121.817335	0.015	161
PS55	perennial stream	R3UB	40.834062	-121.817060	0.008	35
PS56	perennial stream	R3UB	40.833728	-121.816652	0.020	218
PS57	perennial stream	R3UB	40.820369	-121.778294	0.278	366
PS58	perennial stream	R3UB	40.814458	-121.820970	0.127	301
PS59	perennial stream	R3UB	40.811899	-121.817195	0.058	253
PS60	perennial stream	R3UB	40.812587	-121.817122	0.006	44
PS61	perennial stream	R3UB	40.812299	-121.816822	0.105	396
PS62	perennial stream	R3UB	40.796770	-121.810586	0.024	102
PS63	perennial stream	R3UB	40.796583	-121.810632	0.006	43
PS64	perennial stream	R3UB	40.796577	-121.810592	0.003	42
PS65	perennial stream	R3UB	40.796208	-121.810647	0.071	249
PS66	perennial stream	R3UB	40.795745	-121.810385	0.036	78
PS67	perennial stream	R3UB	40.795237	-121.810537	0.050	89
PS68	perennial stream	R3UB	40.790099	-121.833763	0.033	183
PS69	perennial stream	R3UB	40.790225	-121.833462	0.013	47
PS70	perennial stream	R3UB	40.790348	-121.833266	0.023	122
PS71	perennial stream	R3UB	40.790409	-121.832957	0.021	95
PS72	perennial stream	R3UB	40.792315	-121.827468	0.023	117



	Туре	Aquat	ic Resource Cla	ssification		_
Aquatic Resource Name			Loc	ation	Acres	Linear Feet
Name		Cowardin	Latitude	Longitude		1 001
PS73	perennial stream	R3UB	40.792203	-121.826799	0.038	201
PS74	perennial stream	R3UB	40.791810	-121.825631	0.113	407
PS75	perennial stream	R3UB	40.791473	-121.824980	0.014	33
PS76	perennial stream	R3UB	40.791205	-121.824384	0.053	288
PS77	perennial stream	R3UB	40.773590	-121.852192	0.123	268
PS78	perennial stream	R3UB	40.773831	-121.849568	0.419	925
PS79	perennial stream	R3UB	40.774359	-121.847796	0.070	152
PS80	perennial stream	R3UB	40.774332	-121.847733	0.005	40
PS81	perennial stream	R3UB	40.775636	-121.846020	0.039	86
PS82	perennial stream	R3UB	40.759626	-121.867440	0.196	426
PS83	perennial stream	R3UB	40.765307	-121.837121	0.090	489
PS84	perennial stream	R3UB	40.758198	-121.867570	0.031	222
PS85	perennial stream	R3UB	40.757982	-121.833624	0.418	338
PS86	perennial stream	R3UB	40.747830	-121.840312	0.039	214
PON1	perennial stream	PUB	40.841583	-121.861610	0.137	
PON2	perennial stream	PUB	40.812260	-121.845864	0.011	
PON3	perennial stream	PUB	40.812339	-121.845654	0.033	
A (Hatchet Creek)	perennial stream	R3UB	40.83388153	-121.783671	0.313	446
A1 (Hatchet Creek)	perennial stream	R3UB	40.82543492	-121.782441	0.314	341
В	intermittent stream	R4SB	40.83330343	-121.782393	0.001	60
С	ephemeral stream	R4SB	40.84286023	-121.807543	0.108	937
C1 (North Fork Cedar Creek)	perennial stream	R3UB	40.79003107	-121.834076	0.022	94
D	perennial stream	R3UB	40.82794635	-121.787638	0.003	40
D1 (North Fork Cedar Creek)	perennial stream	R3UB	40.79027933	-121.832742	0.028	121
E	perennial stream	R3UB	40.82803867	-121.787679	0.001	17
E1	intermittent stream	R4SB	40.78345333	-121.837588	0.008	61
E2	intermittent stream	R4SB	40.78344026	-121.838067	0.017	120
F	perennial stream	R3UB	40.82795794	-121.787653	0.0002	7
F1	intermittent stream	R4SB	40.78337647	-121.838211	0.011	78
G1	intermittent stream	R4SB	40.78341698	-121.83845	0.091	399
G2	intermittent stream	R4SB	40.78322327	-121.841412	0.223	970
Н	perennial stream	R3UB	40.8281905	-121.787786	0.004	154
H1	intermittent stream	R4SB	40.78303504	-121.838906	0.003	75
1	perennial stream	R3UB	40.82809804	-121.787192	0.004	93



	Туре	Aquat	ic Resource Cla	ssification		
Aquatic Resource Name		0	Loc	ation	Acres	Linear Feet
Name		Cowardin	Latitude	Longitude		1 661
I1	intermittent stream	R4SB	40.78300564	-121.838841	0.001	46
J	perennial stream	R3UB	40.82804317	-121.786973	0.002	106
J1	intermittent stream	R3UB	40.78125253	-121.831685	0.095	1,037
K	perennial stream	R3UB	40.82803623	-121.786933	0.001	32
K1 (North Fork Little Cow Creek)	perennial stream	R3UB	40.77584467	-121.844045	0.143	519
L	intermittent stream	R4SB	40.82794342	-121.787615	0.001	14
L1	perennial stream	R3UB	40.77483319	-121.844982	0.102	372
M	perennial stream	R4SB	40.82776879	-121.786829	0.020	217
M1 (North Fork Little Cow Creek)	perennial stream	R3UB	40.77455022	-121.847517	0.031	114
N	intermittent stream	R4SB	40.84062839	-121.863574	0.042	307
O (North Fork Montgomery Creek)	perennial stream	R3UB	40.81742637	-121.842789	0.229	664
P1	intermittent stream	R4SB	40.81290446	-121.843947	0.026	192
P2	intermittent stream/culvert	R4SB	40.81312891	-121.844621	0.001	22
P3	intermittent stream	R4SB	40.81313024	-121.844629	0.014	104
Q (South Fork Montgomery Creek)	perennial stream	R3UB	40.80222033	-121.84041	0.405	980
R	perennial stream	R3UB	40.78735153	-121.848454	0.357	2,242
S	perennial stream	R3UB	40.79433757	-121.82953	0.059	321
T1	intermittent stream	R4SB	40.79775118	-121.875107	0.137	597
T2	intermittent stream	R4SB	40.8014536	-121.879136	0.017	75
U	ephemeral stream	R4SB	40.83708622	-121.778328	0.005	105
V	ephemeral stream/culvert	R4SB	40.83708226	-121.778127	0.002	50
W	ephemeral stream	R4SB	40.837079	-121.778076	0.004	102
W1	intermittent stream	R4SB	40.79694424	-121.8105455	0.013	56
X	perennial stream	R3UB	40.77361381	-121.8527186	0.085	309
Υ	intermittent stream	R4SB	40.81281922	-121.8484931	0.009	63
Total					51.900	73,183



Appendix B WETLAND DETERMINATION DATA FORMS





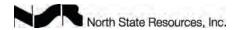
Wetland Determination Data Forn	n-Westerr	n Mounta	ains, Vall	eys, & C	Data Point Coast Region Feature Type	Intermittent Stream
Project/Site: Fountain Wind			City/County	. Shasta C	County	Date: 10/10/17
Applicant/Owner: Avangrid					ο CΔ	. Dutc
Investigator(s): Gabe Youngblood, John Ho	olford			Section	Township, Range Sec. 10, T35N,	R1E
Landform (hillslope, terrace, etc.) Drainage			Local relie	ef (concave,	convex, none) Concave	Slope % 5
Subregion (LRR): MLRA 22B).902296°	_	Long:	-121.857121° Datu	m: NAD 83
Soil Map Unit Name: _Goulder gravelly sand		30 percer				
Are climatic/hydrologic conditions on the site type						
Are vegetation \(\subseteq \subseteq soil \subseteq \subseteq or hydrology \subseteq						
Are vegetation \(\sqrt{\sqrt{soil}} \sqrt{\sqrt{or hydrology}} \)	0	,			•	
Summary of Findings (Attach site map st						
Hydrophytic vegetation?						7/ 0
, , , , , , , , , , , , , , , , , , ,		3 03		•	a a welland:	<u> </u>
Evaluation of features designated "(Other Wate	rs of the	United St	ates"		
Feature Designation: Perennial Intermit	tent ✔ Fn	hemeral	Blue-lin	e on USGS	apped Stream Width <u>8'</u> Ouad Substrate Rock	
Natural Drainage	Artificial Drain	age	Navigable V	Vater	-	
Remarks DP documents OHWM of an						
Dr documents Orivivi or an	miemiliem	Sueam.				
Vegetation (Use Scientific Names)		Absolute	Dominant	Indicator	Dominance Test Worksheet	
Tree Stratum (Plot Size:)		% Cover	Species?		Number of dominant species	
1					that are OBL, FACW, or FAC: _	(A)
2					Total number of dominant species across all strata:	(B)
3					Percent of dominant species that	(b)
4						(A/B)
50%=	Total Cover:	0			Prevalence Index Worksheet	
Sapling/Shrub Stratum (Plot Size:)	% Cover	Species?	Status	Total % Cover of: Multiply	by
1					OBL Species x 1 =	0
2					FACW Species x 2 =	0
3					FAC Species x 3 =	_
4					FACU Species x 4 =	
50%=	Total Cover:	0			UPL Species x 5 =	
Herb Stratum (Plot Size:)		% Cover	Species?	Status	Column Totals (A)	
1					Prevalence Index = B/A =	
2					Prevalence muex = b/A =	
3					Hydrophytic Vegetation Indicato	
4					Rapid Test for Hydrophytic Dominance Test is >50%	Vegetation
5					Prevalence Index is < 3.01	
6					Morphological Adaptations ¹	
7					data in Remarks or on a se Wetland Non-Vascular Plar	
8					Problematic Hydrophytic Ve	
50%=	Total Cover:	0			¹ Indicators of hydric soil and wetla	
Woody/Vine Stratum (Plot Size:)	% Cover	Species?	Status	be present.	
1					Hydrophytic Vegetation Present	? □/⊠
2						
50%=	Total Cover:					
% Bare Ground in Herb Stratum %	Cover of Bio	tic Crust				

Data	Point	1

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. 71. 1		`

Depth	Matrix			Redox Features		_ 1	. 1	_	
nches) ——— –	Color (mo	<u>oist)</u>	<u>% </u>	Color (moist)	<u>%</u> 	<u>Type¹</u>	<u>Loc²</u>	<u>Texture</u>	<u>Remarks</u>
vpes: C	= Concentration	D = Deple	etion RI	M = Reduced Matrix		– ———— ² Location: PL	= Pore Lin	ing M = Matrix	
				RRs, unless otherw				-	Problematic Hydric Soil:
	istosol (A1)	(, ippiioabi	5 to all El		Redox (luck (A10)
	istic Epipedon	(A2)		Strippe		-			arent Materials (TF21)
	lack Histic (A3)					Mineral (exc e	ept		hallow Dark Surface (TF12
	ydrogen Sulfide			-	1) (F1)	(- [_	ted Sand/Gravel Bars
•	epleted Below		ace (A11			Matrix (F2)		•	Explain in Remarks)
	hick Dark Surfa		, ,	Deplet	•				,
	andy Mucky Mi					rface (F6)		³ Indicators of	hydrophytic vegetation and
Sa	andy Gleyed M	latrix (S4)		Deplet	ed Dark S	Surface (F7)		wetland hydro	logy must be present.
				Redox	Depress	sions (F8)			
	ve Layer (if pre	esent): Ty	ne.		Depth (I	Inches)	Hydi	ric Soil Present?	·×
Remarks									
Remarks No soil	pit scoured								
Remarks No soil Hydrolo	pit scoured								
Remarks No soil Hydrolo Wetland	pit scoured ogy Indicators	channel		uired. Check all tha				Secondary Indi	icators (2 or more required
Remarks No soil Hydrolo Wetland Primary I	pit scoured ogy Indicators	channel		uired. Check all tha	nt apply.)		except	-	·
Remarks No soil Hydrolo Wetland Primary I	pit scoured ogy Indicators Indicators (Min	channel		uired. Check all tha	at apply.) Stained I	Leaves (B9) and 4B)	except	Water	icators (2 or more required Stained Leaves (B9) exce 1,2,4A, and 4B)
Remarks No soil Hydrole Wetland Primary I Se	pit scoured ogy Indicators Indicators (Min	channel		uired. Check all tha Water MLRA	at apply.) Stained I	Leaves (B9) and 4B)	except	Water : MLRA	Stained Leaves (B9) exce
Remarks No soil Hydrol Wetland Primary I Hi	pit scoured ogy Indicators Indicators (Min urface Water (Aigh Water Tabl	imum of o		uired. Check all tha Water MLRA Salt Cr	at apply.) Stained I	Leaves (B9) and 4B)	·	Water MLRA Draina	Stained Leaves (B9) exce
Remarks No soil Hydrole Wetland Primary I St Hi St	pit scoured ogy Indicators Indicators (Min urface Water (A igh Water Tabl aturation (A3)	imum of o A1) e (A2)		uired. Check all tha Water MLRA Salt Ci Aquati	at apply.) Stained I 1,2,4A, rust (B11)	Leaves (B9) and 4B)	·	Water : MLRA Draina	Stained Leaves (B9) exce 1,2,4A, and 4B) ge Patterns (B10)
Remarks No soil Hydrole Wetland Primary I Hi So W	pit scoured Ogy Indicators Indicators (Min urface Water (A igh Water Tabl aturation (A3) /ater Marks (B1	imum of o A1) e (A2) I) sits (B2)		uired. Check all that Water MLRA Salt Ci Aquati	at apply.) Stained I A 1,2,4A, rust (B11) C Invertel gen Sulfic	Leaves (B9) and 4B)) brates (B13)		Water : MLRA Draina Dry-Se Satura	Stained Leaves (B9) exce 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2)
Remarks No soil Hydrole Wetland Primary I St W A A A	pit scoured Ogy Indicators Indicators (Min urface Water (A igh Water Tabl aturation (A3) /ater Marks (B1 ediment Deposits (B1 Igal Mat or Cru	imum of o A1) e (A2) isits (B2) st (B4)		uired. Check all that Water MLRA Salt Cr Aquati Hydrog Oxidize Preser	stained I 1,2,4A, rust (B11) c Invertel gen Sulficed Rhizos nce of Re	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3)	Water MLRA Draina Dry-Se Satural Aerial Geomo	Stained Leaves (B9) exce 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2)
Remarks No soil Hydrol Wetland Primary I Si W Al Iro	pit scoured ogy Indicators Indicators (Min urface Water (A igh Water Tabl aturation (A3) /ater Marks (B1 ediment Depos rift Deposits (B Igal Mat or Cru on Deposits (B	imum of o A1) e (A2) sits (B2) s3) st (B4) 5)		uired. Check all that Water MLRA Salt Ci Aquati Hydrog Oxidize Preser Recen	at apply.) Stained I A 1,2,4A, rust (B11) C Invertel gen Sulficed Rhizonace of Re t Iron Rec	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3 educed Iron (duction in)	Water : MLRA Drainae Dry-Se Saturae Aerial Geomo	Stained Leaves (B9) exce 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) v Aquitard (D3)
Remarks No soil Hydrole Wetland Primary I Se W Se I I I I I I I I I I I I I I I I I I	pit scoured Ogy Indicators Indicators (Min urface Water (A igh Water Tabl aturation (A3) /ater Marks (B1 ediment Deposits (B Igal Mat or Cru on Deposits (B urface Soil Cra	imum of o A1) e (A2) isits (B2) is) st (B4) cks (B6)	ne is req	uired. Check all that Water MLRA Salt Cr Aquati Hydrog Oxidize Preser Recen Tilled	at apply.) Stained I 1,2,4A, rust (B11) c Invertel gen Sulfic ed Rhizo: nce of Re t Iron Re Soils (C6	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3 educed Iron (duction in)	Water : MLRA Draina Dry-Se Satural Aerial Geomo Shallow FAC-N	Stained Leaves (B9) exce 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) v Aquitard (D3) eutral Test (D5)
Remarks No soil Hydrol Wetland Primary I Si W Al Iro Si In	pit scoured ogy Indicators Indicators (Min urface Water (A igh Water Tabl aturation (A3) /ater Marks (B1 ediment Deposit fit Deposits (B lgal Mat or Cru on Deposits (B urface Soil Cra undation Visible	imum of o A1) e (A2) isits (B2) is) st (B4) cks (B6)	ne is req	uired. Check all that Water MLRA Salt Ci Aquati Hydrog Oxidiz Preser Recen Tilled Stunte	stained I 1,2,4A, rust (B11) c Invertel gen Sulficed Rhizon nce of Re t Iron Rec Soils (C6	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3 educed Iron (duction in)	Water MLRA Drainag Dry-Se Satural Aerial Geomo Shallov FAC-N Raised	Stained Leaves (B9) exce 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) v Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A
Remarks No soil Hydrold Wetland Primary I St V Al Irc In	pit scoured Ogy Indicators Indicators (Min urface Water (A igh Water Tabl aturation (A3) Ater Marks (B1 ediment Deposits (B1 Igal Mat or Cru on Deposits (B urface Soil Cra undation Visibl magery (B7)	imum of o A1) e (A2) isits (B2) 3) st (B4) 5) cks (B6) le on Aeria	ne is req	uired. Check all that Water MLRA Salt Ci Aquati Hydrog Oxidize Preser Recen Tilled Stunte (D1) (Stained I A 1,2,4A, rust (B11) C Invertel gen Sulficed Rhizon nce of Re t Iron Rec Soils (C6 d or Stres	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3 educed Iron (duction in b) ssed Plants)	Water MLRA Drainag Dry-Se Satural Aerial Geomo Shallov FAC-N Raised	Stained Leaves (B9) exce 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) v Aquitard (D3) eutral Test (D5)
Remarks No soil Hydrol Wetland Primary I St W Se V Dr Al Irc St	pit scoured ogy Indicators Indicators (Min urface Water (A igh Water Tabl aturation (A3) /ater Marks (B1 ediment Deposit fit Deposits (B lgal Mat or Cru on Deposits (B urface Soil Cra undation Visible	imum of o A1) e (A2) isits (B2) 3) st (B4) 5) cks (B6) le on Aeria	ne is req	uired. Check all that Water MLRA Salt Ci Aquati Hydrog Oxidize Preser Recen Tilled Stunte (D1) (Stained I A 1,2,4A, rust (B11) C Invertel gen Sulficed Rhizon nce of Re t Iron Rec Soils (C6 d or Stres	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3 educed Iron (duction in)	Water MLRA Drainag Dry-Se Satural Aerial Geomo Shallov FAC-N Raised	Stained Leaves (B9) exce 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) v Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A
Remarks No soil Hydrole Wetland Primary I Standard All Inc. Inc. Standard Standard	pit scoured Ogy Indicators Indicators (Min urface Water (A igh Water Tabl aturation (A3) /ater Marks (B1 ediment Deposits (B Igal Mat or Cru on Deposits (B urface Soil Cra undation Visibl magery (B7) parsely Vegeta	imum of o A1) e (A2) isits (B2) 3) st (B4) 5) cks (B6) le on Aeria	ne is requ	uired. Check all that Water MLRA Salt Ci Aquati Hydrog Oxidize Preser Recen Tilled Stunte (D1) (Stained I A 1,2,4A, rust (B11) C Invertel gen Sulficed Rhizon nce of Re t Iron Rec Soils (C6 d or Stres	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3 educed Iron (duction in b) ssed Plants	C4)	Water MLRA MLRA Draina Dry-Se Satural Aerial Geomo Shallov FAC-N Raised Frost-F	Stained Leaves (B9) exce 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) ov Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A
Remarks No soil Hydrole Wetland Primary I St Al Inc Inc St Field Ob Surface W	pit scoured Ogy Indicators Indicators (Min urface Water (A igh Water Tabl aturation (A3) /ater Marks (B1 ediment Deposits (B lgal Mat or Cru on Deposits (B urface Soil Cra undation Visibl magery (B7) parsely Vegeta urface (B8) oservations Vater Present?	imum of o A1) e (A2) isits (B2) st (B4) 5) cks (B6) le on Aeria tted Conca	ne is requ	uired. Check all that Water MLRA Salt Ci Aquati Hydrog Oxidiz Preser Recen Tilled Stunte (D1) (Other	stained I 1,2,4A, rust (B11) c Invertel gen Sulficed Rhizon nce of Re t Iron Rec Soils (C6 d or Stree LRR A) (Explain i	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) educed Iron (duction in b) ssed Plants in Remarks)	C4)	Water MLRA Drainag Dry-Se Satural Aerial Geomo Shallov FAC-N Raised	Stained Leaves (B9) exce 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) ov Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A
Remarks No soil Hydrole Wetland Primary I St St In In In St St Stried Ob Surface W Water Tak	pit scoured Ogy Indicators Indicators (Min urface Water (A igh Water Tabl aturation (A3) Aater Marks (B1 ediment Deposits (B Igal Mat or Cru on Deposits (B urface Soil Cra undation Visibl magery (B7) parsely Vegeta urface (B8) oservations	imum of o A1) e (A2) isits (B2) st (B4) 5) cks (B6) le on Aeria	ne is requ	uired. Check all that Water MLRA Salt Ci Aquati Hydrog Oxidiz Preser Recen Tilled Stunte (D1) (Other	Stained I A 1,2,4A, rust (B11) C Invertel gen Sulfice ed Rhizon nce of Re t Iron Rec Soils (C6 d or Stree LRR A) (Explain i	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3 educed Iron (duction in b) ssed Plants in Remarks)	C4)	Water: MLRA Drainag Dry-Se Satural Aerial Geomo Shallov FAC-N Raised Frost-H	Stained Leaves (B9) exce 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) ov Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A

Sediment and drift deposits indicate frequent flooding.



Wetland Determination Data Form-Westerr	n Mounta	ains. Val	levs. & (Coast Region	Data Point Feature Type	Fresh E	2 Emergent Wetlar
Project/Site: Fountain Wind			•	•	31	Date:	10/11/17
Applicant/Owner: Avangrid		· 9. · · · · 9		State: C	;A		
Investigator(s): John Holford			Section	, Township, Range S	ec. 14, T35N, I	R1E	-
		Local relie	– ef (concave	, convex, none) conc	ave	Slope 6	_% 0
Landform (hillslope, terrace, etc.) depression Subregion (LRR): MLRA 22B Lat: 40).890468°	_	Lona:	-121.834325°	 Datun	n: NA	D 83
Soil Map Unit Name: Obie-Mounthat complex, 5 to 15 pe	ercent slop	es	· 3 _ N\	VI Classification: N/A	1		
Are climatic/hydrologic conditions on the site typical for this til							
Are vegetation \(\sigma \overline{\mathbb{X}}\)soil \(\sigma \overline{\mathbb{X}}\)or hydrology \(\sigma \overline{\mathbb{X}}\)significai	-				٦		
Are vegetation \(\sum \subseteq \si	-				-		
	-						
Summary of Findings (Attach site map showing sampli Hydrophytic vegetation? ☑ ☐ Hydric soil? ☑ ☐ Wetland	• .				hthar watered	7/\	
Aydrophytic vegetation? 🔽 🗀 Hydric soil? 🔽 🗀 Wetland	riyurologya	12 :	sampieu are	a a wellanu? Y	Dillei waters?		
Evaluation of features designated "Other Wate							
Indicators: Defined bed and bank Scour _	Ordin	ary High Wa	iter Mark M	apped Stream	Width		
Feature Designation: Perennial Intermittent Ep Natural Drainage Artificial Drain	nage 	Biue-iiii Navigable \	e on osos Vater	Quau Subsii	ale		
Remarks _{DP} documents a fresh emergent wetland	d within ri	parian hab	itat asso	ciated with Little H	atchet Creek.		
				1			
Vegetation (Use Scientific Names)	Absolute	Dominant		Dominance Test \			
Tree Stratum (Plot Size:) _{1.} Salix Iasiolepis	<u>% Cover</u> 20	Species?	FACW	Number of domina		3	(A)
Alnus incana	5		FACW	that are OBL, FACT Total number of do			. (A)
		N	FAC	across all strata:		3	(B)
J				Percent of dominar		100	(A /D)
4	30			are OBL, FACW, o	I FAC:		(A/B)
50%= 15 20%= 6 Total Cover:				Prevalence Index			
Saliv Isaislania	% Cover 5	Species?	<u>Status</u> FACW	Total % Cover of:		_	
1. Salix lasiolepis		Y		'	x 1 =	0	
2				FACW Species	x 2 =		
3				FAC Species	x 3 =	0	_
4				FACU Species	x 4 =	0	
50%= <u>2.5</u> 20%= <u>1</u> Total Cover:	5			UPL Species	x 5 =	0	
Herb Stratum (Plot Size: 5	% Cover	Species?			0 (A)		(B)
1. Ludwigia palustris		<u>Y</u>	OBL	Prevalence Index =			、 ,
2. Unkown grass	5	_N	Unk_			_	
3. Scirpus microcarpus		N	OBL	Hydrophytic Vege			
4. Epilobium ciliatum	1	N	FACW	Rapid Test	for Hydrophytic \ Test is >50%	egetati	on
5				Prevalence			
6				Morphologic			
7				Wetland No	narks or on a sep n-Vascular Plant		ieet)
8					Hydrophytic Ve		¹ (Explain)
50%=43 20%=_17.2 Total Cover:	86			¹ Indicators of hydri			
Woody/Vine Stratum (Plot Size:)	% Cover	Species?	Status	be present.			
1				Hydrophytic Vege	etation Present?	√/_]
2							
50%= Total Cover:				1			

Data Point	2	
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Profile De Depth	e scription : (De Matrix		ne depth	n needed to o Redox Fea		it the ind	licator or co	onfirm the a	absence of i	indicators.
(<u>inches</u>)	Color (m		<u>%</u> _	Color (mo	oist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	<u>Remarks</u>
0-18	7.5YR 2.5/3	100	0						SL	mucky
¹ Types: (C = Concentration	D = Deple	tion R	M = Reduced	Matrix	2	Location: Pl	L = Pore Lir	ing M = Ma	atrix
Hydric So	oil Indicators:	(Applicable	to all L	RRs, unless	otherwis	se noted))		Indicator	rs for Problematic Hydric Soils ³
H	Histosol (A1)				Sandy F	Redox (S	55)		2	cm Muck (A10)
H	Histic Epipedon	(A2)			Stripped	d Matrix ((S6)		R	ed Parent Materials (TF21)
E	Black Histic (A3)			Loamy N	Mucky M	lineral (exc	ept		ery Shallow Dark Surface (TF12)
	Hydrogen Sulfid				MLRA 1	l) (F1)			V	egetated Sand/Gravel Bars
[Depleted Below	Dark Surfa	ice (A11		Loamy (Gleyed N	/latrix (F2)		0	other (Explain in Remarks)
	Thick Dark Surfa				Deplete					
	Sandy Mucky M	, ,					face (F6)			ors of hydrophytic vegetation and
	Sandy Gleyed N	1atrix (S4)					Surface (F7))	wetland	hydrology must be present.
					Redox D	Depressi	ons (F8)			
		ocont): Tur	20:			Donth (le	nches)	Llvd	ric Soil Pres	cont? 🖊
Doctrict	tivo Lavor (if nr.					DEPUII (II	ICHES)	пуи	IC 2011 F162	Sent: V
	tive Layer (if pr	esenij. Typ	Je			- `				
Restrict		esenij. Typ	Je							
Remark	ks					•	lfide). So	oils meet	the defini	tion of indicator F1.
Remark	ks					•	lfide). Sc	oils meet	the defini	tion of indicator F1.
Remark	ks organic matte					•	lfide). Sc	oils meet	the defini	tion of indicator F1.
High of Hydro	organic matte	r, decom	posing	ı smell (no	t hydro	gen su	lfide). So	oils meet		
High of Hydro	ks organic matte	r, decom	posing	ı smell (no	t hydro	gen su	lfide). Sc	oils meet		tion of indicator F1. ry Indicators (2 or more required)
High of Hydro Wetland Primary	organic matte	r, decom	posing	smell (no	t hydrog	gen su			Secondar	
High of Hydro Wetland Primary	organic matter ology d Indicators or Indicators (Mir	r, decom	posing	smell (no	t hydrog k all that Water S	gen su	eaves (B9)		Secondar	ry Indicators (2 or more required) Vater Stained Leaves (B9) except
High of Hydro Wetland Primary	organic matte blogy d Indicators a Indicators (Mir	r, decom	posing	smell (no juired. Chec	t hydrog k all that Water S	gen su apply.) tained L 1,2,4A, a	eaves (B9) and 4B)		Secondar W	ry Indicators (2 or more required)
High of Hydro Wetland Primary	organic matter ology d Indicators or Indicators (Mirr Surface Water (High Water Tab Saturation (A3)	r, decom	posing	y smell (no	k all that Water S MLRA	apply.) stained L 1,2,4A, a	eaves (B9) and 4B)	except	Secondar W D	ry Indicators (2 or more required) Vater Stained Leaves (B9) except VILRA 1,2,4A, and 4B) Irainage Patterns (B10)
High of Hydro Wetland Primary	organic matter ology d Indicators or Indicators (Mirr Surface Water (High Water Tab Saturation (A3) Water Marks (B	r, decom	posing	y smell (no	k all that Water S MLRA Salt Cru Aquatic	apply.) tained L 1,2,4A, ast (B11) Inverteb	eaves (B9) and 4B) rates (B13)	except	Secondar W D D	ry Indicators (2 or more required) Vater Stained Leaves (B9) except VILRA 1,2,4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2)
High of Hydro Wetland Primary	organic matter ology d Indicators or Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Depos	r, decom imum of or A1) le (A2) 1) sits (B2)	posing	y smell (no	k all that Water S MLRA Salt Cru Aquatic Hydroge	apply.) stained L 1,2,4A, a st (B11) Inverteb	eaves (B9) and 4B) rates (B13) e Odor (C1	except	Secondar W	ry Indicators (2 or more required) Vater Stained Leaves (B9) except VLRA 1,2,4A, and 4B) Varianage Patterns (B10) Vry-Season Water Table (C2) Variation Visible on
High of Hydro Wetland Primary	organic matter ology d Indicators or Indicators (Mirr Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Deposits (E	r, decom imum of or A1) le (A2) 1) sits (B2) 3)	posing	y smell (no	k all that Water S MLRA Salt Cru Aquatic Hydroge Oxidized	apply.) stained L 1,2,4A, a st (B11) Inverteben Sulfid d Rhizos	eaves (B9) and 4B) rates (B13) e Odor (C1 pheres (C3	except))	Secondar W M D S S	ry Indicators (2 or more required) Vater Stained Leaves (B9) except VILRA 1,2,4A, and 4B) Irainage Patterns (B10) Iry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9)
High of Hydro Wetland Primary	organic matter ology d Indicators or Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Deposits (E Algal Mat or Cru	r, decom imum of or A1) le (A2) 1) sits (B2) 33) sst (B4)	posing	y smell (no	k all that Water S MLRA Salt Cru Aquatic Hydroge Oxidized Presence	apply.) tained L 1,2,4A, ast (B11) Inverteben Sulfidd Rhizos	eaves (B9) and 4B) rates (B13) e Odor (C1 pheres (C3	except))	Secondar WDDS	ry Indicators (2 or more required) Vater Stained Leaves (B9) except VLRA 1,2,4A, and 4B) Varianage Patterns (B10) Vary-Season Water Table (C2) Vaturation Visible on Vaerial Imagery (C9) Visiomorphic Position (D2)
High of Hydro Wetland Primary	brganic matter blogy d Indicators d Indicators (Min Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Deposits (E Algal Mat or Cruron Deposits (E	r, decom imum of or A1) le (A2) 1) sits (B2) i3) ist (B4) 5)	posing	y smell (no	k all that Water S MLRA Salt Cru Aquatic Hydroge Oxidized Presence	apply.) tained L 1,2,4A, a st (B11) Inverteb en Sulfid d Rhizos te of Rec	eaves (B9) and 4B) rates (B13) e Odor (C1 pheres (C3 duced Iron luction in	except))	Secondar WDSS	Ty Indicators (2 or more required) Vater Stained Leaves (B9) except VILRA 1,2,4A, and 4B) Parainage Patterns (B10) Pary-Season Water Table (C2) Paturation Visible on Aerial Imagery (C9) Recomorphic Position (D2) Hallow Aquitard (D3)
High of Hydro Wetland Primary	organic matter of the property	r, decom imum of or A1) le (A2) 1) sits (B2) i3) ist (B4) 5) acks (B6)	posing	y smell (no	k all that Water S MLRA Salt Cru Aquatic Hydroge Oxidized Presend Recent I	apply.) tained L 1,2,4A, a st (B11) Inverteben Sulfid d Rhizos se of Rec Iron Red oils (C6)	eaves (B9) and 4B) erates (B13) e Odor (C1 pheres (C3 duced Iron luction in	except))) (C4)	Secondar — W M — D — S — 4 — G — S — F	ry Indicators (2 or more required) Vater Stained Leaves (B9) except VILRA 1,2,4A, and 4B) Varinage Patterns (B10) Vary-Season Water Table (C2) Vaturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5)
High of Hydro Wetland Primary	brganic matter blogy d Indicators Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Deposits (B Algal Mat or Cru ron Deposits (B Surface Soil Cra nundation Visib	r, decom imum of or A1) le (A2) 1) sits (B2) i3) ist (B4) 5) acks (B6)	posing	y smell (no	k all that Water S MLRA Salt Cru Aquatic Hydroge Oxidized Presenct Recent I Tilled S Stunted	apply.) stained L 1,2,4A, a st (B11) Inverteben Sulfid d Rhizos e of Rec Iron Red oils (C6) or Stres	eaves (B9) and 4B) rates (B13) e Odor (C1 pheres (C3 duced Iron luction in	except))) (C4)	Secondar —— W M —— D —— S —— S —— G —— S —— F —— R	ry Indicators (2 or more required) Vater Stained Leaves (B9) except VLRA 1,2,4A, and 4B) Prainage Patterns (B10) Pry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) Paised Ant Mounds (D6) (LRR A)
High of Hydro Wetland Primary	brganic matter blogy d Indicators r Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Deposits (E Algal Mat or Cru ron Deposits (E Surface Soil Cra nundation Visib Imagery (B7)	r, decom imum of or A1) le (A2) 1) sits (B2) st (B4) 5) lcks (B6) le on Aeria	posing	y smell (no	k all that Water S MLRA Salt Cru Aquatic Hydroge Oxidized Presence Recent I Tilled S Stunted (D1) (L1	apply.) tained L 1,2,4A, a st (B11) Inverteb en Sulfid d Rhizos e of Rec lron Red oils (C6) or Stres RR A)	eaves (B9) and 4B) rates (B13) e Odor (C1 pheres (C3 duced Iron luction in	except))) (C4)	Secondar —— W M —— D —— S —— S —— G —— S —— F —— R	ry Indicators (2 or more required) Vater Stained Leaves (B9) except VILRA 1,2,4A, and 4B) Varinage Patterns (B10) Vary-Season Water Table (C2) Vaturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5)
High of Hydro Wetland Primary	brganic matter blogy d Indicators Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Deposits (B Algal Mat or Cru ron Deposits (B Surface Soil Cra nundation Visib	r, decom imum of or A1) le (A2) 1) sits (B2) st (B4) 5) lcks (B6) le on Aeria	posing	y smell (no	k all that Water S MLRA Salt Cru Aquatic Hydroge Oxidized Presence Recent I Tilled S Stunted (D1) (L1	apply.) tained L 1,2,4A, a st (B11) Inverteb en Sulfid d Rhizos e of Rec lron Red oils (C6) or Stres RR A)	eaves (B9) and 4B) erates (B13) e Odor (C1 pheres (C3 duced Iron luction in	except))) (C4)	Secondar —— W M —— D —— S —— S —— G —— S —— F —— R	ry Indicators (2 or more required) Vater Stained Leaves (B9) except VLRA 1,2,4A, and 4B) Prainage Patterns (B10) Pry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) Paised Ant Mounds (D6) (LRR A)
High of Hydro Wetland Primary	brganic matter blogy d Indicators Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Deposits (E Algal Mat or Cru ron Deposits (E Surface Soil Cra nundation Visib Imagery (B7) Sparsely Vegeta	r, decom imum of or A1) le (A2) 1) sits (B2) st (B4) 5) lcks (B6) le on Aeria	posing	y smell (no	k all that Water S MLRA Salt Cru Aquatic Hydroge Oxidized Presence Recent I Tilled S Stunted (D1) (L1	apply.) tained L 1,2,4A, a st (B11) Inverteb en Sulfid d Rhizos e of Rec lron Red oils (C6) or Stres RR A)	eaves (B9) and 4B) rates (B13) e Odor (C1 pheres (C3 duced Iron luction in	except))) (C4)	Secondar —— W M —— D —— S —— S —— G —— S —— F —— R	ry Indicators (2 or more required) Vater Stained Leaves (B9) except VLRA 1,2,4A, and 4B) Prainage Patterns (B10) Pry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) Paised Ant Mounds (D6) (LRR A)
High of Hydro Wetland Primary	d Indicators Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B) Sediment Deposits (E) Algal Mat or Cruron Deposits (E) Surface Soil Cranundation Visib Imagery (B7) Sparsely Vegeta Surface (B8)	r, decom imum of or A1) le (A2) 1) sits (B2) st (B4) 5) lcks (B6) le on Aeria	posing	uired. Chec	k all that Water S MLRA Salt Cru Aquatic Hydroge Oxidized Presence Recent I Tilled S Stunted (D1) (LI Other (E	apply.) tained L 1,2,4A, a st (B11) Inverteb en Sulfid d Rhizos te of Rec lron Red oils (C6) or Stres RR A) Explain ir	eaves (B9) and 4B) rates (B13) e Odor (C1 pheres (C3 duced Iron luction in	except)) (C4)	Secondar —— W M —— D —— S —— S —— G —— S —— F —— R	ry Indicators (2 or more required) Vater Stained Leaves (B9) except VILRA 1,2,4A, and 4B) Prainage Patterns (B10) Pry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) taised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
High of Hydro Wetland Primary	brganic matter blogy d Indicators hindicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Deposits (E Algal Mat or Cru ron Deposits (E Surface Soil Cra nundation Visib Imagery (B7) Sparsely Vegeta Surface (B8)	r, decom imum of or A1) le (A2) 1) sits (B2) 33) sst (B4) 5) lecks (B6) le on Aeria	posing ne is req l	y smell (no	k all that Water S MLRA Salt Cru Aquatic Hydroge Oxidized Presence Recent I Tilled S Stunted (D1) (L1	apply.) tained L 1,2,4A, a st (B11) Inverteb en Sulfid d Rhizos te of Rec lron Red oils (C6) or Stres RR A) Explain ir	eaves (B9) and 4B) rates (B13) e Odor (C1 spheres (C3 duced Iron luction in) sed Plants n Remarks)	except)) (C4)	Secondar — W M — D — S — ✓ G — S — ✓ F — R	ry Indicators (2 or more required) Vater Stained Leaves (B9) except VILRA 1,2,4A, and 4B) Prainage Patterns (B10) Pry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) taised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)

Approximately 1 inch of standing water provides wetland hydrology.



Wetland Determination Data Form-Westerr	n Mounta	ains. Vall	evs. & C	Data Point3 Coast Region Feature Type
			•	
Avaparid		City/Courity		- CA
Investigator(s): John Holford				Township, Range Sec. 14, T35N, R1E
Landform (hillslope, terrace, etc.) Toe of hillslope		L ocal relie	ef (concave	convex none) convex Slone % 1
				-121.834364° Datum: NAD83
Soil Map Unit Name: Obie-Mounthat complex, 5 to 15 pe				
Are climatic/hydrologic conditions on the site typical for this tir	ne of year?	√/ (If n	o, explain ir	n Remarks.)
Are vegetation Soil Soil For hydrology Asignifican	-			
Are vegetation \(\sum \subseteq \sin \sin \sin \sin \rightarrow \notation \sin \sin \rightarrow \notation				
Summary of Findings (Attach site map showing sampli	ng point loc	ations, trans	ects, impor	tant features, etc.)
Hydrophytic vegetation? Hydric soil? Wetland	hydrology?	□ ⊠ Is s	sampled are	a a wetland? \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Evaluation of features designated "Other Wate				
Indicators: Defined bed and bank Scour _	Ordina	ary High Wa	ter Mark Ma	apped Stream Width
Feature Designation: Perennial Intermittent Ep Natural Drainage Artificial Drain	nemerai age	Blue-IIN Navigable V	e on USGS Vater	- Substrate
				-
Remarks Upland pair to DP2 fresh emergent wetla	and.			
Vegetation (Use Scientific Names)	Abcoluto	Dominant	Indicator	
Tree Stratum (Plot Size: 30)	Absolute % Cover	Dominant Species?		Dominance Test Worksheet Number of dominant species
1. Acer circinatum	15	Y	FAC	that are OBL, FACW, or FAC:(A)
2. Calocedrus decurrens	10	Y	UPL	Total number of dominant species
3. Pseudotsuga menziesii	10	Υ	FACU	Percent of dominant species that
4				are OBL, FACW, or FAC:17 (A/B)
50%= <u>35</u> 20%= <u>7</u> Total Cover:	35			Prevalence Index Worksheet
Sapling/Shrub Stratum (Plot Size:)	% Cover	Species?		Total % Cover of: Multiply by
1. Ceanothus integerrimus	10	Y	UPL	OBL Species x 1 =0
2. Cornus nuttallii	1	N	FACU	FACW Species x 2 =0
3				FAC Species x 3 =0
4				FACU Species x 4 =0
50%=6 20%=3 Total Cover:		6 . 0	CI. I	UPL Species x 5 =0
Herb Stratum (Plot Size: _5) 1 Pteridium aquilinum	% Cover 10	Species?	Status FACU	Column Totals (A) (B)
Coroy on		N	FACU	Prevalence Index = B/A =
			FACU	Lhydranhytia Vagatatian Indicators
3. Symphoricarpos albus 4				Hydrophytic Vegetation Indicators Rapid Test for Hydrophytic Vegetation
5				Dominance Test is >50%
6				Prevalence Index is $\leq 3.0^1$ Morphological Adaptations ¹ (provide supporting
7				data in Remarks or on a separate sheet)
8				Wetland Non-Vascular Plants ¹ Problematic Hydrophytic Vegetation ¹ (Explain)
50%=7 20%=2 Total Cover:				¹ Indicators of hydric soil and wetland hydrology must
Woody/Vine Stratum (Plot Size: 30)		Species?	Status	be present.
1. Rubus parvifloras	_	Y	FACU	Hydrophytic Vegetation Present? ☐/⊠
2				,
50%= Total Cover:				
% Bare Ground in Herb Stratum 86 % Cover of Bio	tic Crust _	0		

Data Point	3	
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Depth	Description: (Describ Matrix		Redo	x Features					
(<u>inches</u>)	Color (moist)	<u>%</u>	Col	or (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	<u>Remarks</u>
0-4	10YR 2/2	100						SL	charred bio material from fire
4-18	7.5YR 3/4	100						SL	
¹ Types:	C = Concentration D =	Depletion	RM = Re	duced Matrix	2	Location: PL	= Pore Lin	ing M = Ma	trix
Hydric S	oil Indicators: (App	licable to a	ll LRRs, u	nless otherw	ise noted))		Indicator	s for Problematic Hydric Soils ³
	Histosol (A1)		-	Sandy	Redox (S	S5)		2	cm Muck (A10)
	Histic Epipedon (A2)		_	Strippe	ed Matrix	(S6)		R	ed Parent Materials (TF21)
	Black Histic (A3)		_	Loamy	Mucky N	lineral (exce	ept	Ve	ery Shallow Dark Surface (TF12)
	Hydrogen Sulfide (A4	1)		MLRA	1) (F1)			Ve	egetated Sand/Gravel Bars
	Depleted Below Dark	Surface (A	\11)	Loamy	Gleyed N	Natrix (F2)		0	ther (Explain in Remarks)
	Thick Dark Surface (A	412)	_	Deplete	ed Matrix	(F3)			
	Sandy Mucky Minera	I (S1)	_	Redox	Dark Sur	face (F6)		³ Indicato	rs of hydrophytic vegetation and
	Sandy Gleyed Matrix	(S4)	_	Deplete	ed Dark S	Surface (F7)		wetland I	hydrology must be present.
			-	Redox	Depressi	ons (F8)			
	tive Layer (if present	·)· Type·			Depth (li	nches)	Hydr	ric Soil Pres	ent? /X
Remar					1 \	,	,		
Remar No inc	ks dicators of hydric								
Remar No inc Hydro Wetlan	ks dicators of hydric	soil.							y Indicators (2 or more required)
Remar No inco Hydro Wetlan Primary	dicators of hydric blogy ad Indicators	soil.		Check all tha	nt apply.)			Secondar	•
No incomplete Hydro	dicators of hydric plogy Ind Indicators y Indicators (Minimum Surface Water (A1)	soil.		Check all tha	nt apply.) Stained L	eaves (B9)		Secondar	/ater Stained Leaves (B9) except
No inco	ks dicators of hydric blogy d Indicators y Indicators (Minimum	soil.		Check all tha	nt apply.)	eaves (B9) and 4B)		Secondar W M	
No incomplete Hydro	ks dicators of hydric blogy ad Indicators y Indicators (Minimun Surface Water (A1) High Water Table (A2)	soil.		Check all tha Water: MLRA Salt Cr	at apply.) Stained L 1,2,4A, a ust (B11)	eaves (B9) and 4B)	except	Secondar W D	/ater Stained Leaves (B9) except ILRA 1,2,4A, and 4B)
No incomplete Hydro	dicators of hydric blogy Ind Indicators y Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3)	soil.		Check all tha Water: MLRA Salt Cr	at apply.) Stained L 1,2,4A, a ust (B11)	eaves (B9)	except	<u>Secondar</u> W Di Di	ater Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10)
No incomplete Hydro	dicators of hydric blogy Ind Indicators y Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	soil.		Check all that Water to MLRA Salt Cr Aquation	st apply.) Stained L 1,2,4A, a ust (B11) c Inverteb	eaves (B9) and 4B) orates (B13)	except	Secondar W M Di Di Si	Vater Stained Leaves (B9) except Valent 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2)
No incomplete Hydro	dicators of hydric blogy d Indicators y Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B	soil. n of one is 1		Check all tha Water: MLRA Salt Cr Aquatic Hydrog Oxidize	st apply.) Stained L 1,2,4A, a ust (B11) c Inverteb gen Sulfid	eaves (B9) and 4B) orates (B13) le Odor (C1)	except	Secondar W N Di Di	Vater Stained Leaves (B9) except VALRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on
Remar No inco	dicators of hydric plogy Ind Indicators Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3)	soil. n of one is 1		Check all tha Water: MLRA Salt Cr Aquatic Hydrog Oxidize	st apply.) Stained L 1,2,4A, a ust (B11) c Inverteb gen Sulfid	eaves (B9) and 4B) orates (B13) e Odor (C1) spheres (C3) duced Iron (except	Secondar W Di Di Si A	later Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9)
Remar No inco	dicators of hydric blogy d Indicators y Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B	soil. n of one is 1 2) 32)		Check all that Water to MLRA Salt Cr Aquation Hydrog Oxidize Presen	stained L 1,2,4A, a ust (B11) c Inverteb gen Sulfid ed Rhizos	eaves (B9) and 4B) orates (B13) le Odor (C1) spheres (C3) duced Iron (except	Secondar W M M Di Si A M Si M Si M M Si M M Si M M M M M M M M M	Vater Stained Leaves (B9) except VILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5)
Remar No inco	dicators of hydric blogy d Indicators y Indicators (Minimum Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on	soil. n of one is 1 2) 32) 4)		Check all that Water: MLRA Salt Cr Aquation Hydrog Oxidize Presen Recent Tilled: Stunter	stained L. 1,2,4A, aust (B11) con Sulfided Rhizos and Record Reco	eaves (B9) and 4B) orates (B13) le Odor (C1) spheres (C3) duced Iron (except	Secondar	Vater Stained Leaves (B9) except Value 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on derial Imagery (C9) deomorphic Position (D2) challow Aquitard (D3) AC-Neutral Test (D5) daised Ant Mounds (D6) (LRR A)
Remar No inco	dicators of hydric blogy Id Indicators Y Indicators (Minimum Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Imagery (B7)	soil. n of one is 1 2) 32) 4) (B6) Aerial		Check all that Water: MLRA Salt Cr Aquation Hydrog Oxidize Present Recent Tilled: Stunted (D1) (I	st apply.) Stained L 1,2,4A, a ust (B11) c Inverteb gen Sulfid ed Rhizos ace of Rec t Iron Rec Soils (C6) d or Stres LRR A)	eaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in) ssed Plants	except	Secondar	Vater Stained Leaves (B9) except VILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5)
Remar No inco	dicators of hydric blogy d Indicators y Indicators (Minimum Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on	soil. n of one is 1 2) 32) 4) (B6) Aerial		Check all that Water: MLRA Salt Cr Aquation Hydrog Oxidize Present Recent Tilled: Stunted (D1) (I	st apply.) Stained L 1,2,4A, a ust (B11) c Inverteb gen Sulfid ed Rhizos ace of Rec t Iron Rec Soils (C6) d or Stres LRR A)	eaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in	except	Secondar	Vater Stained Leaves (B9) except Value 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on derial Imagery (C9) deomorphic Position (D2) challow Aquitard (D3) AC-Neutral Test (D5) daised Ant Mounds (D6) (LRR A)
Remar No inco	dicators of hydric blogy Ind Indicators y Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B1) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Imagery (B7) Sparsely Vegetated (C)	soil. n of one is 1 2) 32) 4) (B6) Aerial Concave	required.	Check all that Water: MLRA Salt Cr Aquation Hydrog Oxidize Present Recent Tilled: Stunted (D1) (I	st apply.) Stained L 1,2,4A, a ust (B11) c Inverteb gen Sulfid ed Rhizos ace of Rec t Iron Rec Soils (C6) d or Stres LRR A)	eaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in) ssed Plants	except () () (C4)	Secondar —— W M —— Di —— Sa —— G —— SI —— Fr —— Fr	Vater Stained Leaves (B9) except Value 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
Remar No inco	dicators of hydric blogy Ind Indicators Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B1) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Imagery (B7) Sparsely Vegetated (Surface (B8) Observations	soil. n of one is 1 2) 32) 4) (B6) Aerial Concave		Check all that Water: MLRA Salt Cr Aquation Hydrog Oxidize Present Recent Tilled: Stunted (D1) (I	at apply.) Stained L 1,2,4A, a ust (B11) C Inverteb gen Sulfid ed Rhizos ace of Rec t Iron Rec Soils (C6) d or Stres LRR A) (Explain in	eaves (B9) and 4B) orates (B13) e Odor (C1) spheres (C3) duced Iron (duction in) ssed Plants n Remarks)	except () () (C4)	Secondar	Vater Stained Leaves (B9) except Value 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
Remar No inco	dicators of hydric blogy d Indicators y Indicators (Minimum Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Imagery (B7) Sparsely Vegetated (Surface (B8) Observations Water Present? Yes	soil. n of one is in the second of the seco	required.	Check all that Water: MLRA Salt Cr Aquatic Hydrog Oxidize Presen Recent Tilled: Stunted (D1) (I	st apply.) Stained L 1,2,4A, a ust (B11) c Inverteb gen Sulfid ed Rhizos ace of Rec t Iron Rec Soils (C6) d or Stres LRR A) (Explain in	eaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in) ssed Plants orates (B9)	except () () (C4)	Secondar —— W M —— Di —— Sa —— G —— SI —— Fr —— Fr	Vater Stained Leaves (B9) except Value 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)

No indicators of wetland hydrology.



				Data Point	4	
Wetland Determination Data Form-Westerr	n Mounta	ains, Vall	eys, & C	Coast Region Feature Type	Riparian Wetl	and
Project/Site: Fountain Wind		City/County	Shasta C	County	Date: 10/11/	17
Applicant/Owner: Avangrid		,		State: CA		
Investigator(s). John Holford			Section.	Township Pange Sec. 14, T35N, I	 R1E	
Landform (hillslope, terrace, etc.) Toe of hillslope		Local relie	of (concave	convey none) concave	Slone % 1	
Lat: 40	.890069°	_ 2000	Lona:	-121.834209° Datun	n: NAD83	_
Soil Map Unit Name: Obie-Mounthat complex, 5 to 15 pe	rcent slop	es	NV	VI Classification: PSSC		
Are climatic/hydrologic conditions on the site typical for this tir						
Are vegetation Soil Soil Nor hydrology Asignificar	-					
Are vegetation \(\setminus \text{Soil} \(\setminus \text{Vor hydrology} \setminus \text{haturally} \)	,			•		
	-		-			
Summary of Findings (Attach site map showing sampli	• .					
Hydrophytic vegetation? Hydric soil? Wetland	hydrology?	✓ Is s	ampled are	a a wetland? __\Dther waters?_		
Evaluation of features designated "Other Water	rs of the	United St	ates"			
Indicators: Defined bed and bank Scour _	Ordina	ary High Wa	ter Mark Ma			_
Feature Designation: Perennial Intermittent Ep	hemeral	Blue-lin	e on USGS	Quad Substrate		
Natural Drainage Artificial Drain				-		
Remarks _{DP} documents riparian wetland adjacent	to Little I	Hatchet Ci	reek.			
Vegetation (Use Scientific Names)	Absolute	Dominant	Indicator	Dominance Test Worksheet		
Tree Stratum (Plot Size: 30	% Cover	Species?		Number of dominant species	5 (^)	
1. Alnus incana	15	Y	FACW	that are OBL, FACW, or FAC: Total number of dominant species	5 (A)	
2. Salix lasiolepis	15	Y	FACW	across all strata:	5 (B)	
3. Acer circinatum	5	N	FAC	Percent of dominant species that	100	
4				are OBL, FACW, or FAC:	(A/B)	
50%= <u>17.5</u> 20%= <u>7</u> Total Cover:	35			Prevalence Index Worksheet		
Sapling/Shrub Stratum (Plot Size:)	% Cover	Species?	Status	Total % Cover of: Multiply k	<u>ıy</u>	
1. Salix lasiolepis	5	Y	FACW	OBL Species x 1 =	0	
2. Acer circinatum	5	Y	FACW	FACW Species x 2 =	0	
3. Cornus nuttallii	1	N	FACU	FAC Species x 3 =	0	
4				FACU Species x 4 =	0	
50% = 6.5 $20% = 2.2$ Total Cover:	11			UPL Species x 5 =		
Herb Stratum (Plot Size: 5	% Cover	Species?	Status	Column Totals (A)		
1. Carex sp.	65	Υ	FAC	Prevalence Index = B/A =		
2. Platanthera dilatata	1	N	FACW	r revalence index – D/A –	_	
3				Hydrophytic Vegetation Indicator		
4				Rapid Test for Hydrophytic V Dominance Test is >50%	egetation	
5				Prevalence Index is < 3.01		
6				Morphological Adaptations ¹		ing
7				data in Remarks or on a sep Wetland Non-Vascular Plant		
8				Problematic Hydrophytic Veg		n)
50%= <u>66</u> 20%= <u>13.2</u> Total Cover:	66			¹ Indicators of hydric soil and wetlan		
Woody/Vine Stratum (Plot Size:)	% Cover	Species?	Status	be present.		
1				Hydrophytic Vegetation Present?	√ /□	
2				J. Ip Jac a gassion resount		
50%=						
% Bare Ground in Herb Stratum 34 % Cover of Bio	tic Crust _	0				

Data Point	4
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Profile D Depth	escription: (D Matri		to the de		ed to docume x Features	ent the inc	licator or co	nfirm the a	absence of i	ndicators.	
(inches)	Color (m		%		or (moist)	%	Type ¹	Loc ²	Texture		Remarks
0-18	10YR 2/2		100						SL	mucky	
¹ Types: (C = Concentration	n D = De	epletion	RM = Rec	duced Matrix	2	Location: PL	= Pore Lin	ing M = Ma	trix	
	oil Indicators:					ise noted)		Indicator	s for Prob	lematic Hydric Soils ³
•	Histosol (A1)	V III		-,		Redox (S				cm Muck (•
	Histic Epipedon	(A2)			,	ed Matrix	-				Materials (TF21)
	Black Histic (A3						ineral (exc e	ept			w Dark Surface (TF12)
	Hydrogen Sulfic	le (A4)			MLRA	1) (F1)		•		-	Sand/Gravel Bars
	Depleted Below	Dark Si	urface (A	.11) _	Loamy	Gleyed N	Matrix (F2)		0	ther (Expla	ain in Remarks)
	Thick Dark Surf	ace (A12	2)	_	Deplet	ed Matrix	(F3)				
	Sandy Mucky M	lineral (S	S1)	_	Redox	Dark Sur	face (F6)		³ Indicato	rs of hydro	phytic vegetation and
	Sandy Gleyed N	∕latrix (S	(4)	_	Deplet	ted Dark S	Surface (F7)		wetland I	hydrology	must be present.
				_	Redox	Depressi	ons (F8)				
	tive Layer (if pr	esent):	Type:			Depth (li	nches)	Hvdr	ic Soil Pres	ent? ✓ /	
Restrict	, (,				(
	ks										
Remar											
Remar	ks n organic ma	itter. S		ets the re	equiremer	nts of inc	licator F1	Loamy N	Mucky Mir	neral.	
Remark	n organic ma	itter. S		ets the re	equiremer	nts of inc	licator F1	Loamy N	Mucky Mir	neral.	
Remark High in	n organic ma	atter. S		ets the re	equiremer	nts of inc	licator F1	Loamy N	Mucky Mir	neral.	
High in Hydro	n organic ma		Soil mee				licator F1	Loamy N			s (2 or more required)
High in Hydro Wetlan Primary	n organic ma plogy ad Indicators y Indicators (Min	nimum o	Soil mee		Check all tha	at apply.)			Secondar	y Indicator	·
High in Hydro	n organic ma blogy ad Indicators y Indicators (Min Surface Water (nimum o	Soil mee		Check all tha	at apply.) Stained L	eaves (B9)		Secondar	y Indicator 'ater Stain	ed Leaves (B9) except
High in Hydro	n organic ma plogy Id Indicators y Indicators (Min Surface Water (High Water Tab	nimum o	Soil mee		Check all tha	at apply.) Stained L	eaves (B9) and 4B)		Secondar W	y Indicator ater Stain ILRA 1,2,4	ed Leaves (B9) except IA, and 4B)
High in Hydro Wetlan Primary	n organic mandle of the control of t	nimum o (A1) ole (A2)	Soil mee		Check all that Water MLRA Salt C	at apply.) Stained L A 1,2,4A, a	eaves (B9) and 4B)		Secondar W M	y Indicator 'ater Stain ILRA 1,2,4 rainage Pa	ed Leaves (B9) except 1A, and 4B) atterns (B10)
High in Hydro	n organic mandle of the companies of the	(A1) le (A2)	Soil mee		Check all that Water MLRA Salt Call Aquati	at apply.) Stained L A 1,2,4A, a rust (B11) c Inverteb	eaves (B9) and 4B) orates (B13)	except	Secondar W Di	y Indicator /ater Stain ILRA 1,2,4 rainage Pa ry-Season	ed Leaves (B9) except AA, and 4B) atterns (B10) Water Table (C2)
High in Hydro	n organic mandle of the color o	nimum o (A1) ole (A2) 1) sits (B2)	Soil mee		Check all that Water MLRA Salt Column Aquati Hydrog	at apply.) Stained L A 1,2,4A, a rust (B11) c Inverteb gen Sulfid	eaves (B9) and 4B) orates (B13) e Odor (C1)	except	Secondar W W W Di Di Di Si	y Indicator 'ater Stain ILRA 1,2,4 rainage Pa ry-Season aturation V	ed Leaves (B9) except IA, and 4B) atterns (B10) Water Table (C2) (isible on
High in Hydro	n organic mandle of the color o	(A1) sits (B2)	Soil mee		Check all that Water MLRA Salt Co Aquati Hydroo	at apply.) Stained L A 1,2,4A, a rust (B11) c Inverteb gen Sulfid ed Rhizos	eaves (B9) and 4B) orates (B13) e Odor (C1) spheres (C3)	except	Secondar W N Di Si	y Indicator dater Stain ILRA 1,2,4 rainage Pa ry-Season aturation V erial Imag	ed Leaves (B9) except AA, and 4B) atterns (B10) Water Table (C2) (isible on ery (C9)
High in Hydro	n organic mandle blogy Ind Indicators Indicators (Minumer of Mandicators (Minumer of Minumer o	nimum o (A1) ole (A2) 1) sits (B2) 33) ust (B4)	Soil mee		Check all that Water MLRA Salt Cl Aquati Hydrog Oxidiz Preser	at apply.) Stained L A 1,2,4A, a rust (B11) c Inverteb gen Sulfid ed Rhizos nce of Rec	eaves (B9) and 4B) orates (B13) e Odor (C1) spheres (C3) duced Iron (except	Secondar W	y Indicator later Stain ILRA 1,2,4 rainage Pa ry-Season aturation V erial Imag eomorphic	ed Leaves (B9) except AA, and 4B) atterns (B10) Water Table (C2) Visible on ery (C9) Position (D2)
High in Hydro	n organic mandle of the property of the proper	(A1) rile (A2) 1) sits (B2) 33) ust (B4)	Soil mee		Check all that Water MLRA Salt Co Aquati Hydroo Oxidiz Preser Recen	at apply.) Stained L A 1,2,4A, a rust (B11) c Inverteb gen Sulfid ed Rhizos nce of Rea t Iron Rec	eaves (B9) and 4B) orates (B13) e Odor (C1) spheres (C3) duced Iron (duction in	except	Secondar W Di Si G SI	y Indicator l'ater Stain ILRA 1,2,4 rainage Pa ry-Season aturation V erial Imag eomorphic nallow Aqu	ed Leaves (B9) except IA, and 4B) atterns (B10) Water Table (C2) (isible on ery (C9) Position (D2) uitard (D3)
High in Hydro	n organic mandle blogy Ind Indicators Indicators (Minumer of Mandicators (Minumer of Minumer o	nimum o (A1) ale (A2) 1) sits (B2) 33) ust (B4) 35) acks (B6	f one is r		Check all that Water MLRA Salt Cl Aquati Hydrog Oxidiz Preser Recen Tilled	Stained L A 1,2,4A, a rust (B11) c Inverteb gen Sulfid ed Rhizos nce of Rec t Iron Rec Soils (C6)	eaves (B9) and 4B) orates (B13) e Odor (C1) spheres (C3) duced Iron (duction in	except	Secondar — W M — Di — Si A — G — SI — F	y Indicator ILRA 1,2,4 rainage Pary-Season aturation Varial Image eomorphic hallow Aqu	ed Leaves (B9) except AA, and 4B) atterns (B10) Water Table (C2) risible on ery (C9) Position (D2) attack (D3) I Test (D5)
High in Hydro	n organic mandle of the property of the proper	nimum o (A1) ale (A2) 1) sits (B2) 33) ust (B4) 35) acks (B6	f one is r		Check all that Water MLRA Salt Cl Aquati Hydrog Oxidiz Preser Recen Tilled Stunte	at apply.) Stained L A 1,2,4A, a rust (B11) c Inverteb gen Sulfid ed Rhizos nce of Rea at Iron Rea Soils (C6) ad or Stres	eaves (B9) and 4B) prates (B13) e Odor (C1) spheres (C3) duced Iron (duction in	except	Secondar —— W M —— Di —— Si —— A —— G —— SI —— Fi —— R:	y Indicator Yater Stain ILRA 1,2,4 rainage Pa ry-Season aturation V erial Imag eomorphic hallow Aqu AC-Neutra aised Ant I	ed Leaves (B9) except IA, and 4B) atterns (B10) Water Table (C2) risible on ery (C9) Position (D2) aitard (D3) I Test (D5) Mounds (D6) (LRR A)
High in Hydro	n organic mandle of the property of the proper	nimum o (A1) lle (A2) 1) sits (B2) 33) ust (B4) acks (B6 ole on A6	f one is r		Check all that Water MLRA Salt Ca Aquati Hydrog Oxidiz Preser Recen Tilled Stunte (D1) (at apply.) Stained L A 1,2,4A, a rust (B11) c Inverteb gen Sulfid ed Rhizos nce of Rea t Iron Rea Soils (C6) ed or Stres LRR A)	eaves (B9) and 4B) prates (B13) e Odor (C1) spheres (C3) duced Iron (duction in	except	Secondar —— W M —— Di —— Si —— A —— G —— SI —— Fi —— R:	y Indicator Yater Stain ILRA 1,2,4 rainage Pa ry-Season aturation V erial Imag eomorphic hallow Aqu AC-Neutra aised Ant I	ed Leaves (B9) except AA, and 4B) atterns (B10) Water Table (C2) risible on ery (C9) Position (D2) attack (D3) I Test (D5)
High in Hydro	n organic mandle of the property of the proper	nimum o (A1) lle (A2) 1) sits (B2) 33) ust (B4) acks (B6 ole on A6	f one is r		Check all that Water MLRA Salt Ca Aquati Hydrog Oxidiz Preser Recen Tilled Stunte (D1) (at apply.) Stained L A 1,2,4A, a rust (B11) c Inverteb gen Sulfid ed Rhizos nce of Rea t Iron Rea Soils (C6) ed or Stres LRR A)	eaves (B9) and 4B) orates (B13) e Odor (C1) spheres (C3) duced Iron (duction in	except	Secondar —— W M —— Di —— Si —— A —— G —— SI —— Fi —— R:	y Indicator Yater Stain ILRA 1,2,4 rainage Pa ry-Season aturation V erial Imag eomorphic hallow Aqu AC-Neutra aised Ant I	ed Leaves (B9) except IA, and 4B) atterns (B10) Water Table (C2) risible on ery (C9) Position (D2) aitard (D3) I Test (D5) Mounds (D6) (LRR A)
High in Hydro	n organic mandology Indicators (Minumer Tables Water Marks (Bediment Depoembrit Depoembrit Depoembrit Depoembrit Depoembrit (Element Depoembrit Depoembrit Depoembrit (Element Depoembrit Depoembrit (Element Depoembrit Depoembrit (Element Depoembrit (Element Depoembrit Depoembrit (Element Depoembrit (Elemen	nimum o (A1) lle (A2) 1) sits (B2) 33) ust (B4) acks (B6 ole on A6	f one is r		Check all that Water MLRA Salt Ca Aquati Hydrog Oxidiz Preser Recen Tilled Stunte (D1) (at apply.) Stained L A 1,2,4A, a rust (B11) c Inverteb gen Sulfid ed Rhizos nce of Rea t Iron Rea Soils (C6) ed or Stres LRR A)	eaves (B9) and 4B) orates (B13) e Odor (C1) spheres (C3) duced Iron (duction in	except	Secondar —— W M —— Di —— Si —— A —— G —— SI —— Fi —— R:	y Indicator Yater Stain ILRA 1,2,4 rainage Pa ry-Season aturation V erial Imag eomorphic hallow Aqu AC-Neutra aised Ant I	ed Leaves (B9) except IA, and 4B) atterns (B10) Water Table (C2) risible on ery (C9) Position (D2) aitard (D3) I Test (D5) Mounds (D6) (LRR A)
High in Hydro	n organic mandle of the property of the proper	nimum o (A1) lle (A2) 1) sits (B2) 33) ust (B4) acks (B6 ole on A6	f one is r		Check all that Water MLRA Salt Ca Aquati Hydrog Oxidiz Preser Recen Tilled Stunte (D1) (Stained L A 1,2,4A, a rust (B11) c Inverteb gen Sulfid ed Rhizos nce of Rec t Iron Rec Soils (C6) ed or Stres LRR A) (Explain in	eaves (B9) and 4B) prates (B13) e Odor (C1) spheres (C3) duced Iron (in duction in seed Plants in Remarks)	except C4)	Secondar —— W M —— Di —— Si —— A —— G —— SI —— Fi —— R:	y Indicator ater Stain ILRA 1,2,4 rainage Pa ry-Season aturation V erial Imag eomorphic hallow Aqu AC-Neutra aised Ant I rost-Heave	ed Leaves (B9) except IA, and 4B) atterns (B10) Water Table (C2) risible on ery (C9) Position (D2) aitard (D3) I Test (D5) Mounds (D6) (LRR A)
High in Hydro Wetlan Primary	n organic mandology Id Indicators Indicators (Minumater Tables Saturation (A3) Water Marks (B) Sediment Depo Drift Deposits (B) Algal Mat or Cru Iron Deposits (B) Surface Soil Cra Inundation Visital Imagery (B7) Sparsely Vegeta Surface (B8) Disservations	nimum o (A1) ole (A2) 1) sits (B2) 33) ust (B4) 85) acks (B6 ole on A6	f one is r	equired.	Check all that Water MLRA Salt Cl Aquati Hydrog Oxidiz Preser Recen Tilled Stunte (D1) (stained L A 1,2,4A, a rust (B11) c Inverteb gen Sulfid ed Rhizos nce of Rec tt Iron Rec Soils (C6) d or Stres LRR A) (Explain in	eaves (B9) and 4B) orates (B13) e Odor (C1) spheres (C3) duced Iron (duction in located Plants orates (B9)	except C4)	Secondar — W M — Di — Si A ✓ G — SI — Fr	y Indicator ater Stain ILRA 1,2,4 rainage Pa ry-Season aturation V erial Imag eomorphic hallow Aqu AC-Neutra aised Ant I rost-Heave	ed Leaves (B9) except IA, and 4B) atterns (B10) Water Table (C2) risible on ery (C9) Position (D2) aitard (D3) I Test (D5) Mounds (D6) (LRR A)

Saturation present throughout entire depth of soil sample. The water table was not observed.



Wetland Determination Data Form-Westerr	n Mounta	ains. Vall	levs. & C	Coast Region	Data Point Feature Type	Uplar	 nd
Project/Site: Fountain Wind			•	o .			10/11/17
Applicant/Owner: Avangrid		Oityroodinty	•	State: C		Date.	
Investigator(s): John Holford			Section	, Township, Range Se		₹1E	-
		Local relie	ef (concave	, convex, none) Conv	ex	Slope '	_% 2
Subregion (LRR): MLRA 22B Lat:40).890079°			-121.834289°			
Soil Map Unit Name: Obie-Mounthat complex, 5 to 15 pe							
Are climatic/hydrologic conditions on the site typical for this tir							
Are vegetation ☑/☑soil ☑/☑or hydrology ☑/☑significar]		
Are vegetation \(\sum \subseteq \signal \signal \signal \subseteq \signal \signal \signal \signal \signal \signal \signal \text{Abaturally} \)	-				•		
	•		· · · · · ·	·			
Summary of Findings (Attach site map showing sampli						1.57	
Hydrophytic vegetation? 🔲 🔀 Hydric soil? 🔲 🔀 Wetland	hydrology?		sampled are	ea a wetland? _\X	Other waters?		
Evaluation of features designated "Other Wate Indicators: Defined bed and bank Scour _ Feature Designation: Perennial Intermittent Ep	Ordina	ary High Wa Blue-lin	iter Mark Mark Mark e on USGS	Quad Substra	ate		
Natural Drainage Artificial Drain	age	Navigable V	Vater				
Remarks Upland pair to DP4 riparian wetland.							
Opiano pair to DP4 ripanan wetiano.							
Vegetation (Use Scientific Names)	Absoluto	Dominant	Indicator	<u> </u>			
Tree Stratum (Plot Size: 30)	Absolute % Cover	Dominant Species?		Dominance Test V Number of dominar			
1. Pseudotsuga menziesii	25	Y	FACU	that are OBL, FACV		1	_ (A)
2. Calocedrus decurrens	25	Y	UPL	Total number of dor	ninant species	4	(D)
3. Alnus incana	5	N	FACW	across all strata: Percent of dominan	t species that		_ (B)
4.				are OBL, FACW, or		25	(A/B)
50%= 27.5 20%= 11 Total Cover:	55			Dravalanaa Inday	Maulcala a at		
Sapling/Shrub Stratum (Plot Size: 15)	% Cover	Species?	Status	Prevalence Index Total % Cover of:		V	
1. Acer circinatum	10	Y	FAC	OBL Species _		-	
2. Cornus nuttallii	3	N	FACU	FACW Species			-
3					x 3 =	•	
4				FACU Species _			
50%= <u>6.5</u> 20%= <u>2.6</u> Total Cover:	13			UPL Species _			
Herb Stratum (Plot Size: 5	% Cover	Species?	Status				(D)
1. Pteridium aquilinum	5	Υ	FACU	Column Totals _			(B)
2. Trillium albidum	1	N	FACU	Prevalence Index =	B/A =	_	
3. Elymus glacus	1	N	FACU	Hydrophytic Vege	tation Indicators	S	
4				Rapid Test for	or Hydrophytic V		on
5				Dominance Description Prevalence I			
6				Morphologic		provide	e supporting
7				data in Rema	arks or on a sepa	arate sl	
8.					n-Vascular Plants Hydrophytic Veg		1 (Evnlain)
50%=3.5 20%=1.4 Total Cover:				¹ Indicators of hydrid			
		Species?	Status	be present.		-	
1				Hydrophytic Vege	tation Drocont?		7
2.				Trydrophlytic vege	auon Fiesent?	كا/ك	.i
50%=							
% Rare Ground in Herb Stratum 93 % Cover of Rio		0					

Data	Point	5
Dala	PUIII	0

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\setminus \cap	۱I	c

Profile D Depth	escription: (Des Matrix	SCHIDE TO THE		edox Features					
(inches)	Color (moi	st) <u>%</u>		Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-12	10YR 3/4	100	. <u>-</u>	<u> </u>		<u>1360</u>	<u> </u>	SL	<u>rtemants</u>
12-18	7.5YR 5/6	100						SL —	
	7.0111.070							<u> </u>	
¹ Types:	C = Concentration	D = Depletion	n RM =	Reduced Matrix	2	Location: PL	= Pore Lin	ing M = Matrix	
Hydric S	oil Indicators: (Applicable t	o all LRRs	s, unless otherwi	se noted))		Indicators for	Problematic Hydric Soils ³
	Histosol (A1)			Sandy	Redox (S	S5)		2 cm N	Nuck (A10)
	Histic Epipedon (A2)		Strippe	d Matrix	(S6)		Red Pa	arent Materials (TF21)
	Black Histic (A3)			Loamy	Mucky N	lineral (<mark>exc</mark> e	ept	Very S	hallow Dark Surface (TF12)
	Hydrogen Sulfide	(A4)		MLRA	1) (F1)			Vegeta	ated Sand/Gravel Bars
	Depleted Below [Dark Surfac	e (A11)	Loamy	Gleyed N	Natrix (F2)		Other ((Explain in Remarks)
	Thick Dark Surfac	ce (A12)		Deplete	ed Matrix	(F3)			
	Sandy Mucky Mir	neral (S1)		Redox	Dark Sur	face (F6)		³ Indicators of	hydrophytic vegetation and
	Sandy Gleyed Ma	atrix (S4)		Deplete	ed Dark S	Surface (F7)		wetland hydro	ology must be present.
				Redox	Depressi	ons (F8)			
Restric	tive Layer (if pre	sent): Type	:		Depth (II	nches)	Hydi	ric Soil Present?	·×
Remar	ks dicators of hyd	ric soils.							
Remar	dicators of hyd	ric soils.							
No inc	dicators of hyd		is require	d. Check all tha	t apply.)			Secondary Ind	icators (2 or more required)
No incomplete Hydro	dicators of hyd blogy ad Indicators y Indicators (Minin	num of one	is require			eaves (B9)	except	-	
No incomplete Hydro	dicators of hyd blogy ad Indicators y Indicators (Minin Surface Water (A	mum of one	is require	Water S	Stained L	eaves (B9)	except	Water	Stained Leaves (B9) except
No inco	blogy Id Indicators Indicators (Minimum Surface Water (A	mum of one	is require	Water S	Stained L 1,2,4A, a	and 4B)	except	Water MLRA	Stained Leaves (B9) except 1,2,4A, and 4B)
Remar No inco	dicators of hyd blogy ad Indicators y Indicators (Minin Surface Water (A	mum of one 1) (A2)	is require	Water S MLRA Salt Cri	Stained L 1,2,4A, a ust (B11)	and 4B)	except	Water MLRA Draina	Stained Leaves (B9) except
Remar No inco	blogy Indicators Indicators Indicators (Minin Surface Water (A High Water Table Saturation (A3)	mum of one 1) (A2)	is require	Water S MLRA Salt Cri Aquatic	Stained L 1,2,4A, a ust (B11) Inverteb	and 4B)		Water MLRA Draina Dry-Se	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10)
No incomplete Mydro	dicators of hydelogy Indicators Indicators (Mining Surface Water (A High Water Table Saturation (A3) Water Marks (B1)	mum of one 1) (A2) ts (B2)	is require	Water S MLRA Salt Cri Aquatic	Stained L 1,2,4A, a ust (B11) Inverteb	and 4B) orates (B13)	·	Water MLRA Draina Dry-Se	Stained Leaves (B9) except A 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2)
Remar No inco	blogy Id Indicators Indicators (Mining Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposi	mum of one 1) e (A2)) ts (B2)	is require	Water S MLRA Salt Cr Aquatic Hydrog Oxidize	Stained L 1,2,4A, a ust (B11) Inverteb en Sulfid	and 4B) orates (B13) e Odor (C1)		Water MLRA Draina Dry-Se Satura	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on
Remar No inco	blogy ad Indicators y Indicators (Mining Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift Deposits (B3)	mum of one 1) 2 (A2) 3) ts (B2) 3)	is require	Water S MLRA Salt Cri Aquatic Hydrog Oxidize	Stained L 1,2,4A, a ust (B11) Inverteb en Sulfid ed Rhizos ce of Rec	and 4B) orates (B13) e Odor (C1) spheres (C3)		Water MLRA Draina Dry-Se Satura Aerial	Stained Leaves (B9) except A 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9)
Remar No inco	blogy Id Indicators Indicators (Mining Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposi Drift Deposits (B3 Algal Mat or Crus	mum of one 1) 2 (A2) 3) ts (B2) 3) t (B4)	is require	Water S MLRA Salt Cri Aquatio Hydrog Oxidize Presen Recent	Stained L 1,2,4A, a ust (B11) Inverteb en Sulfid ed Rhizos ce of Rec	and 4B) prates (B13) prates (C1) prates (C3) duced Iron (duction in		Water MLRA Draina Dry-Se Satura Aerial Geomo	Stained Leaves (B9) except A 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2)
Remar No ind Hydro Wetlar Primar	blogy Id Indicators Indicators (Mining Mater Tables Saturation (A3) Water Marks (B1) Sediment Deposi Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5	mum of one 1) e (A2) ts (B2) s) et (B4)	is require	Water S MLRA Salt Cri Aquatic Hydrog Oxidize Presen Recent	Stained L 1,2,4A, a ust (B11) c Inverteb len Sulfid ed Rhizos ce of Rec I Iron Rec Soils (C6)	and 4B) prates (B13) prates (C1) prates (C3) duced Iron (duction in		Water MLRA Draina Dry-Se Satura Aerial Geome Shallou FAC-N	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3)
Remar No inco	blogy Indicators of hyd Indicators Indicators (Minin Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposi Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Surface Soil Crac	mum of one 1) e (A2) ts (B2) s) et (B4)	is require	Water S MLRA Salt Cri Aquatic Hydrog Oxidize Presen Recent	Stained L 1,2,4A, a ust (B11) c Inverteb gen Sulfid ed Rhizos ce of Rec Iron Rec Soils (C6) d or Stres	end 4B) orates (B13) e Odor (C1) spheres (C3) duced Iron (induction in		Water MLRA Draina Dry-Se Satura Aerial Geomo Shallov FAC-N Raised	Stained Leaves (B9) except A 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5)
Remar No inco	blogy Id Indicators Indicators (Mining Indicators (mum of one 1) ts (A2) ts (B2) ts (B4)) ts (B6) e on Aerial		Water S MLRA Salt Cri Aquatio Hydrog Oxidize Presen Recent Tilled S Stunted (D1) (L	Stained L 1,2,4A, a ust (B11) c Inverteb gen Sulfid ed Rhizos ce of Rec l Iron Rec Soils (C6) d or Stres LRR A)	end 4B) orates (B13) e Odor (C1) spheres (C3) duced Iron (induction in		Water MLRA Draina Dry-Se Satura Aerial Geomo Shallov FAC-N Raised	Stained Leaves (B9) except A 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) If Ant Mounds (D6) (LRR A)
Remar No ind Hydro Wetlar Primar	Dlogy Id Indicators Indicators (Mining Mater Marks (B1) Sediment Deposits (B3) Algal Mat or Cruster (B4) Surface Soil Cracter (B7)	mum of one 1) ts (A2) ts (B2) ts (B4)) ts (B6) e on Aerial		Water S MLRA Salt Cri Aquatio Hydrog Oxidize Presen Recent Tilled S Stunted (D1) (L	Stained L 1,2,4A, a ust (B11) c Inverteb gen Sulfid ed Rhizos ce of Rec l Iron Rec Soils (C6) d or Stres LRR A)	and 4B) prates (B13) prates (C1) propheres (C3) duced Iron (cluction in propheres (C3)		Water MLRA Draina Dry-Se Satura Aerial Geomo Shallov FAC-N Raised	Stained Leaves (B9) except A 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) If Ant Mounds (D6) (LRR A)
Remar No inco	blogy Id Indicators Indicators (Mining) Surface Water (A) High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift Deposits (B3) Algal Mat or Crus Iron Deposits (B5) Surface Soil Crac Inundation Visible Imagery (B7) Sparsely Vegetat	mum of one 1) ts (A2) ts (B2) ts (B4)) ts (B6) e on Aerial		Water S MLRA Salt Cri Aquatio Hydrog Oxidize Presen Recent Tilled S Stunted (D1) (L	Stained L 1,2,4A, a ust (B11) c Inverteb gen Sulfid ed Rhizos ce of Rec l Iron Rec Soils (C6) d or Stres LRR A)	and 4B) prates (B13) prates (C1) propheres (C3) duced Iron (cluction in propheres (C3)	C4)	Water MLRA Draina Dry-Se Satura Aerial Geome Shallov FAC-N Raised Frost-H	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) If Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
Remar No inco	blogy Indicators of hyde Indicators Indicators (Mining Indicators (Min	mum of one 1) ts (A2) ts (B2) ts (B4)) ts (B6) e on Aerial		Water S MLRA Salt Cri Aquatio Hydrog Oxidize Presen Recent Tilled S Stunted (D1) (L	Stained L. 1,2,4A, a ust (B11) c Inverteb ed Rhizos ce of Rec lron Rec Soils (C6) d or Stres LRR A) Explain in	and 4B) prates (B13) prates (C1) pheres (C3) duced Iron (I duction in) presed Plants on Remarks)	C4)	Water MLRA Draina Dry-Se Satura Aerial Geomo Shallov FAC-N Raised	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) If Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
Remar No inco	blogy d Indicators y Indicators (Mining) Surface Water (A High Water Table) Saturation (A3) Water Marks (B1) Sediment Deposit Drift Deposits (B3 Algal Mat or Crustler Iron Deposits (B5 Surface Soil Cractle Inundation Visible Imagery (B7) Sparsely Vegetat Surface (B8) Observations	mum of one 1) 2 (A2) 3) 3t (B2) 3t (B4) 3) 3cks (B6) 4c on Aerial 4cd Concave		Water S MLRA Salt Cri Aquatic Hydrog Oxidize Presen Recent Tilled S Stunted (D1) (L	Stained L 1,2,4A, a ust (B11) c Inverteb gen Sulfid ed Rhizos ce of Rec Iron Rec Soils (C6) d or Stres LRR A) Explain ir	and 4B) prates (B13) prates (C1) pheres (C3) duced Iron (duction in) presed Plants presed Remarks)	C4)	Water MLRA Draina Dry-Se Satura Aerial Geome Shallov FAC-N Raised Frost-H	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) If Ant Mounds (D6) (LRR A) Heave Hummocks (D7)

No indicators of wetland hydrology.



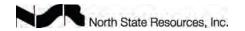
Wetland Determination Data Form-We	estern N	Mounta	nins Vall	evs & C	coast Region	Data Point	Perennial Stream
				3	· ·		Date: 10/11/17
Project/Site: Fountain Wind Applicant/Owner: Avangrid			City/County:		State: CA	Α	Date: 167177
				Coction	Township, Range Se		 R1E
Landform (hillslope, terrace, etc.)Drainage				_ Section,	convoy nono) Conc	ave	Slope % 10
Subregion (LRR): MLRA 22B La	at:40.8	 88505°	_ LUCALTELLE	l opa:	-121.831906°	Datun	
Soil Map Unit Name: Obie-Mounthat complex, 5 to						Daluii	II
·							
Are climatic/hydrologic conditions on the site typical fo		,		,	,	1	
Are vegetation \(\sum \begin{align*} \sum \sum \sum \sum \sum \sum \sum \sum						J	
Are vegetation/⊠soil/⊠or hydrology/⊠h				-			
Summary of Findings (Attach site map showing	g sampling	point loca	ations, trans	ects, impor	ant features, etc.)		
Hydrophytic vegetation? ☐ ☑ Hydric soil? ☐ ☑ V	Wetland hy	drology?	√	ampled are	a a wetland? 🔲🔀	Other waters? ✓	1 /
Evaluation of features designated "Other Indicators: Defined bed and bank S Feature Designation: Perennial Intermittent Natural Drainage Artificial Remarks DP documents OHWM of Little Ha	Scour _ √ Ephe lal Drainag	Ordina meral e	ary High Wa Blue-line	ter Mark Ma	Ouad ✓ Substra	ate Cobble	
Vegetation (Use Scientific Names) Tree Stratum (Plot Size:)		bsolute 6 Cover	Dominant Species?		Dominance Test W		
1					that are OBL, FACV		(A)
2					Total number of dor across all strata:	ninant species	(B)
3					Percent of dominan	t species that	(D)
4					are OBL, FACW, or	FAC:	(A/B)
50%= Total Sapling/Shrub Stratum (Plot Size:)			Species?	Status	Prevalence Index V		nv
1					OBL Species _		
2					FACW Species _		_
3					· ·	x 3 =	•
4					FACU Species _		
50%= Total	Cover: _	0			· ·	x 5 =	
Herb Stratum (Plot Size:)	%	6 Cover	Species?	Status			
1					Column Totals _		
2					Prevalence Index =	B/A =	
3					Hydrophytic Veget	tation Indicator	·s
4					Rapid Test for	or Hydrophytic V	
5					Dominance Tevalence I		
6					Morphologic		(provide supporting
7					data in Rema	arks or on a sep	arate sheet)
8.					Wetland Nor		
50%=					Problematic 1 Indicators of hydrid		
Woody/Vine Stratum (Plot Size:)			Species?	Status	be present.		3 03
1					Hydrophytic Vege	tation Drocont?	
2.					Trydropriytic vege	adon FIGSCII(?	
	Cover: _						
% Bare Ground in Herb Stratum % Cover			0				

Data Point	6
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Profile Des	scription: (Describe Matrix	e to the depth	needed to docume Redox Features	ent the ind	licator or co	nfirm the a	absence of indica	tors.
(<u>inches</u>)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	<u>Remarks</u>
	= Concentration D = I					= Pore Lir	ning M = Matrix	
•	I Indicators: (Applie	cable to all LI						Problematic Hydric Soils
	stosol (A1)		Sandy				2 cm N	
	stic Epipedon (A2)		Strippe					arent Materials (TF21)
	ack Histic (A3)		_	-	lineral (exce	ept	-	hallow Dark Surface (TF12)
-	ydrogen Sulfide (A4)			1) (F1)				ited Sand/Gravel Bars
	epleted Below Dark :	,	,,	,			Other	(Explain in Remarks)
	nick Dark Surface (A	•	Deplet		. ,			
	andy Mucky Mineral			Dark Sur	, ,			hydrophytic vegetation and
Sa	andy Gleyed Matrix (S4)	Deplet		, ,		wetland hydro	ology must be present.
			Redox	Depressi	ons (F8)			
Restrictiv	ve Layer (if present):	: Type:		Depth (li	nches)	Hyd	ric Soil Present?	'×
Remarks	8							
	Indicators							
<u>Primary I</u>	ndicators (Minimum	of one is req	uired. Check all tha	at apply.)			Secondary Ind	icators (2 or more required)
_ √ _ Sι	urface Water (A1)		Water	Stained L	eaves (B9)	except	Water	Stained Leaves (B9) excep
_ ✓ _ Hi	gh Water Table (A2)			1,2,4A, a		•		1,2,4A, and 4B)
_ √ _ Sa	aturation (A3)		Salt C	rust (B11)			Draina	ge Patterns (B10)
W	ater Marks (B1)		Aquati	c Inverteb	rates (B13)			eason Water Table (C2)
Se	ediment Deposits (B2	2)	Hydro	gen Sulfid	e Odor (C1))	Satura	tion Visible on
_ ✓ _ Dr	rift Deposits (B3)		Oxidiz	ed Rhizos	spheres (C3))	Aerial	Imagery (C9)
Al	gal Mat or Crust (B4))	Preser	nce of Red	duced Iron (C4)	_ √ _ Geom	orphic Position (D2)
Iro	on Deposits (B5)		Recen	t Iron Red	luction in		Shallov	w Aquitard (D3)
Sı	urface Soil Cracks (E	86)	Tilled	Soils (C6))		FAC-N	eutral Test (D5)
In	undation Visible on A	Aerial	Stunte	d or Stres	sed Plants		Raised	Ant Mounds (D6) (LRR A)
In	nagery (B7)		(D1) (LRR A)			Frost-l	Heave Hummocks (D7)
-	parsely Vegetated Co	oncave	Other	(Explain ir	n Remarks)			
Sı	ırface (B8)							
Field Ob	servations			4			_	
Surface W	/ater Present? Yes	/	Depth (inch			Wetland	d Hydrology? 🆸 /	N
Water Tab	ole Present? Yes	✓ No_						
Saturation	Present? Yes	No_	Depth (inch	nes) Surfa	ce (incli	udes capilla	ary fringe)	
	e Recorded Data (st		- ' '					

Surface water provides hydrology.



						Data Point		DP7
Wetland Determination Data Forn	n–Westerr	n Mount	ains, Val	leys, & C	Coast Region	Feature Type	Wetlar 	nd Seep/Sprin
Project/Site: Fountain Wind			City/County	: Shasta (County		Date:	10/11/17
Applicant/Owner: Avangrid					State: CA	١		
Investigator(s). John Holford				Cootion	Taumahin Danga Se	c. 24. T35N. I	R1E	
Landform (hillslope, terrace, etc.) Hillslope Subregion (LRR): MLRA 22B			_ Local relie	– ef (concave	, convex, none) None		Slope S	_% 5
Subregion (LRR): MLRA 22B	Lat:40	.880789°		Long:_	-121.821713°	Datun	n: NA	ND83
Soil Map Unit Name: _Windy and McCarthy ver	y stony sandy	loams, 30	to 50 percen	t slopes N	NI Classification: N/A			
Are climatic/hydrologic conditions on the site type	oical for this tir	ne of year?	$\sqrt{ \mathcal{J} }$ (If r	o, explain i	n Remarks.)			
Are vegetation Soil Or hydrology		-						
Are vegetation \(\sum{\text{X}}\soil \(\sum{\text{X}}\) or hydrology	-	-						
		-						
Summary of Findings (Attach site map si		• .					7.	
Hydrophytic vegetation? Hydric soil?	/ Wetland	hydrology		sampled are	ea a wetland? YVILLU	other waters?		
Evaluation of features designated "C								
Indicators: Defined bed and bank	Scour _	Ordin	ary High Wa	iter Mark M	apped Stream W	Vidth		
Feature Designation: Perennial Intermit Natural Drainage	tent Ep Artificial Drain	nemerai age	Blue-III Navigable \	e on usgs Vater	Quad Substra	te		
Remarks Normal circumstances not pr	esent- seep	located	on gravel l	logging ro	oad. Significant grad	ling and com	pactio	n.
Vegetation (Use Scientific Names) Tree Stratum (Plot Size:)		Absolute	Dominant		Dominance Test W			
		% Cover	Species?		Number of dominant that are OBL, FACW		4	(A)
1 2					Total number of dom			
3					across all strata:		4	_ (B)
4					Percent of dominant are OBL, FACW, or		100	(A/B)
50%= 20%=	Total Cover	0						- (
Sapling/Shrub Stratum (Plot Size:			Species?	Status	Prevalence Index V Total % Cover of:		N/	
1					OBL Species		-	
2					FACW Species _			
3						x 3 =		
4.								
50%=	Total Cover:	0			FACU Species _			
Herb Stratum (Plot Size: 5		% Cover	Species?	Status	· ·	x 5 =		— (D)
1. Mimulus guttatus		20	Y	OBL	Column Totals			(B)
2. Juncus xiphioides		10	Υ	OBL	Prevalence Index =	B/A =	_	
3. Trifolium repens		10	Y	FAC	Hydrophytic Vegeta	ation Indicator	S	
4. Juncus bufonius		10	Υ	FACW	Rapid Test fo	r Hydrophytic V		on
5. Hypericum perforatum		3	N	FACU	Dominance T Prevalence Ir			
6. Elymus glaucus		1	N	FACU	Morphologica	al Adaptations ¹		
7. Castilleja campestris			N	FACW	data in Rema	irks or on a sep	arate sh	neet)
8					Wetland Non-			¹ (Explain)
50%=28 20%=11	Total Cover:	55			¹ Indicators of hydric			
Woody/Vine Stratum (Plot Size:)	% Cover	Species?	Status	be present.			
1					Hydrophytic Vegeta	ation Present?	V /]
2								
50%=	Total Cover:	0						
% Bare Ground in Herb Stratum 45 %	Cover of Bio	tic Crust _	0					
Remarks Dominant hydrophytic veget								
Dominant nydrophytic veget	auon is pres	ociii.						

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Depth inches)	Matrix <u>Color (moist)</u>	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	<u>Remarks</u>
)-3	10YR 3/2	100	7.570.570				SL _	
5-6	10GY 5/1	95	7.5YR 5/8	5	_ <u>C</u>	<u>M</u>	SL	
vpes:	C = Concentration D =	Depletion	RM = Reduced Matrix		– – – – – – – – – – – – – – – – – – – 	 L = Pore Lir	ing M = Matrix	
			all LRRs, unless other					r Problematic Hydric Soil
•	Histosol (A1)	ilicable to t	Sand					Muck (A10)
	Histic Epipedon (A2)			ed Matrix	•			Parent Materials (TF21)
	Black Histic (A3)				Mineral (exc	ent		Shallow Dark Surface (TF1)
	Hydrogen Sulfide (A4	1)		4 1) (F1)	viii ici ai (cxc	op:	-	tated Sand/Gravel Bars
	Depleted Below Dark	-	,		Matrix (F2)		•	(Explain in Remarks)
	Thick Dark Surface (eted Matrix			01101	(Explain in Remarks)
	Sandy Mucky Minera	•	·		rface (F6)		³ Indicators o	f hydrophytic vegetation an
	Sandy Gleyed Matrix				Surface (F7)		ology must be present.
	canaj ciojoa maan	(0.)		x Depress	•	,		gj p
							ric Soil Present?	
Remar Soils i	ks meet the requirer		gravel (road bed) indicator F2 loamy	/ gleyed	matrix.			
Remar Soils i Hydro Wetlan	ks meet the requirer blogy Indicators	nents of	indicator F2 loam					
Remar Soils i Hydro Wetlan Primary	ks meet the requirer plogy ad Indicators y Indicators (Minimur	nents of	indicator F2 loamy	nat apply.)			-	dicators (2 or more required
Remar Soils i Hydro Wetlan Primary	ks meet the requirer plogy ad Indicators y Indicators (Minimur Surface Water (A1)	nents of	indicator F2 loamy required. Check all the Wate	nat apply.)	Leaves (B9)	except	Wate	Stained Leaves (B9) exce
Remar Soils I Hydro Wetlan Primary	ks meet the requirer blogy Ind Indicators Y Indicators (Minimur Surface Water (A1) High Water Table (A)	nents of	indicator F2 loamy required. Check all the MLR	nat apply.) r Stained I	Leaves (B9) and 4B)	except	Wate	Stained Leaves (B9) exce A 1,2,4A, and 4B)
Remar Soils I Hydro Wetlan Primary	ks meet the requirer blogy Ind Indicators y Indicators (Minimur Surface Water (A1) High Water Table (A: Saturation (A3)	nents of	required. Check all the MLR	nat apply.) r Stained I A 1,2,4A, Crust (B11	Leaves (B9) and 4B)	•	Wate MLR Drain	r Stained Leaves (B9) exce A 1,2,4A, and 4B) age Patterns (B10)
Remar Soils I Hydro Wetlan Primary	ks meet the requirer plogy ad Indicators y Indicators (Minimur Surface Water (A1) High Water Table (A: Saturation (A3) Water Marks (B1)	nents of	required. Check all the MLR	nat apply.) r Stained I A 1,2,4A, Crust (B11 tic Inverte	Leaves (B9) and 4B)) brates (B13)	Wate MLR Drain Dry-S	r Stained Leaves (B9) exce A 1,2,4A, and 4B) age Patterns (B10) leason Water Table (C2)
Remar Soils I Hydro Wetlan Primary	meet the requirer blogy Ind Indicators Y Indicators (Minimum Surface Water (A1) High Water Table (A: Saturation (A3) Water Marks (B1) Sediment Deposits (I	nents of	required. Check all the MLR Salt (Aqua	nat apply.) r Stained I A 1,2,4A, Crust (B11 tic Inverte	Leaves (B9) and 4B)) brates (B13 de Odor (C1))	Wate MLRDrainDry-S	r Stained Leaves (B9) exce A 1,2,4A, and 4B) age Patterns (B10) leason Water Table (C2) ation Visible on
Remar Soils I Hydro Wetlan Primary	ks meet the requirer plogy ad Indicators y Indicators (Minimur Surface Water (A1) High Water Table (A: Saturation (A3) Water Marks (B1) Sediment Deposits (B Drift Deposits (B3)	nents of	required. Check all the control of t	nat apply.) r Stained I A 1,2,4A, Crust (B11 tic Inverte ogen Sulfic	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3)) 3)	Wate MLR Drain Dry-S Satur	r Stained Leaves (B9) exce A 1,2,4A, and 4B) age Patterns (B10) eason Water Table (C2) ation Visible on I Imagery (C9)
Remar Soils I Hydro Wetlan Primary	meet the requirer blogy Id Indicators Y Indicators (Minimun Surface Water (A1) High Water Table (A: Saturation (A3) Water Marks (B1) Sediment Deposits (I Drift Deposits (B3) Algal Mat or Crust (B	nents of	required. Check all the water MLR Aquar Aquar Oxidi Prese	nat apply.) r Stained I A 1,2,4A, Crust (B11 tic Inverte ogen Sulfic zed Rhizo ence of Re	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3)) 3)	Wate MLR Drain Dry-S Satur Aeria	r Stained Leaves (B9) exce A 1,2,4A, and 4B) age Patterns (B10) eason Water Table (C2) ation Visible on I Imagery (C9) norphic Position (D2)
Remar Soils I Hydro Wetlan Primary	meet the requirer blogy Ind Indicators Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B1)	nents of n of one is 2) 32)	required. Check all the control of t	nat apply.) r Stained I A 1,2,4A, Crust (B11 tic Inverte ogen Sulfic zed Rhizo ence of Re nt Iron Re	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3 educed Iron duction in)) 3)	Wate MLR Drain Dry-S Satur Aeria Geon	r Stained Leaves (B9) exce A 1,2,4A, and 4B) age Patterns (B10) eason Water Table (C2) ation Visible on I Imagery (C9) norphic Position (D2) ow Aquitard (D3)
Remar Soils I Hydro Wetlan Primary	meet the requirer plogy Ind Indicators Indicators (Minimur) Surface Water (A1) High Water Table (A: Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B1) Iron Deposits (B5) Surface Soil Cracks	nents of n of one is 2) 32) 4)	required. Check all the control of t	nat apply.) r Stained I A 1,2,4A, Crust (B11 tic Inverte ogen Sulfic zed Rhizo ence of Re nt Iron Re I Soils (C6	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3 educed Iron duction in)) 3) (C4)	Wate MLR Drain Dry-S Satur Aeria Geon Shall	r Stained Leaves (B9) exce A 1,2,4A, and 4B) age Patterns (B10) leason Water Table (C2) ation Visible on Il Imagery (C9) horphic Position (D2) bw Aquitard (D3) Neutral Test (D5)
Remar Soils I Hydro Wetlan Primary	meet the requirer blogy Id Indicators y Indicators (Minimun Surface Water (A1) High Water Table (A: Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on	nents of n of one is 2) 32) 4)	required. Check all the many many many many many many many many	nat apply.) r Stained I A 1,2,4A, Crust (B11 tic Inverte ogen Sulfic zed Rhizo ence of Re nt Iron Re d Soils (Cé ed or Stre	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3 educed Iron duction in)) 3) (C4)	Wate MLR Drain Dry-S Satur Aeria Geon Shalle ▼ FAC-	r Stained Leaves (B9) exce A 1,2,4A, and 4B) age Patterns (B10) leason Water Table (C2) ation Visible on Il Imagery (C9) horphic Position (D2) low Aquitard (D3) Neutral Test (D5) d Ant Mounds (D6) (LRR A
Remar Soils I Hydro Wetlan Primary	meet the requirer plogy Ind Indicators Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B1) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Imagery (B7)	nents of n of one is 2) 32) 4) (B6) Aerial	required. Check all the control of t	nat apply.) r Stained I A 1,2,4A, Crust (B11 tic Inverte ogen Sulfic zed Rhizo ence of Re nt Iron Re d Soils (Co ed or Stre (LRR A)	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3 educed Iron duction in 6) ssed Plants)) (C4)	Wate MLR Drain Dry-S Satur Aeria Geon Shalle ▼ FAC-	r Stained Leaves (B9) exce A 1,2,4A, and 4B) age Patterns (B10) leason Water Table (C2) ation Visible on Il Imagery (C9) horphic Position (D2) bw Aquitard (D3) Neutral Test (D5)
Remar Soils I Hydro Wetlan Primary	meet the requirer blogy Id Indicators y Indicators (Minimun Surface Water (A1) High Water Table (A: Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (I Inundation Visible on	nents of n of one is 2) 32) 4) (B6) Aerial	required. Check all the control of t	nat apply.) r Stained I A 1,2,4A, Crust (B11 tic Inverte ogen Sulfic zed Rhizo ence of Re nt Iron Re d Soils (Co ed or Stre (LRR A)	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3 educed Iron duction in)) (C4)	Wate MLR Drain Dry-S Satur Aeria Geon Shalle ▼ FAC-	r Stained Leaves (B9) exce A 1,2,4A, and 4B) age Patterns (B10) leason Water Table (C2) ation Visible on Il Imagery (C9) horphic Position (D2) low Aquitard (D3) Neutral Test (D5) d Ant Mounds (D6) (LRR A
Remar Soils I Hydro Wetlan Primary	meet the requirer plogy ad Indicators y Indicators (Minimur Surface Water (A1) High Water Table (A: Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Imagery (B7) Sparsely Vegetated (Inundation V	nents of n of one is 2) 32) 4) (B6) Aerial	required. Check all the control of t	nat apply.) r Stained I A 1,2,4A, Crust (B11 tic Inverte ogen Sulfic zed Rhizo ence of Re nt Iron Re d Soils (Co ed or Stre (LRR A)	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3 educed Iron duction in 6) ssed Plants)) (C4)	Wate MLR Drain Dry-S Satur Aeria Geon Shalle ▼ FAC-	r Stained Leaves (B9) exce A 1,2,4A, and 4B) age Patterns (B10) leason Water Table (C2) ation Visible on Il Imagery (C9) horphic Position (D2) low Aquitard (D3) Neutral Test (D5) d Ant Mounds (D6) (LRR A
Remar Soils I Hydro Wetlan Primary	meet the requirer plogy Ind Indicators Indicators (Minimur) Surface Water (A1) High Water Table (A: Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Imagery (B7) Sparsely Vegetated (Surface (B8) Disservations	nents of n of one is 2) 32) 4) (B6) Aerial Concave	required. Check all the state of the state o	nat apply.) r Stained I A 1,2,4A, Crust (B11 tic Inverte ogen Sulfic zed Rhizo ence of Re nt Iron Re d Soils (Co ed or Stre (LRR A)	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3 educed Iron duction in 6) ssed Plants in Remarks))) (C4)	Wate MLR Drain Dry-S Satur Aeria Geon Shalle ▼ FAC-	r Stained Leaves (B9) exce A 1,2,4A, and 4B) age Patterns (B10) leason Water Table (C2) ation Visible on Il Imagery (C9) horphic Position (D2) low Aquitard (D3) Neutral Test (D5) d Ant Mounds (D6) (LRR A
Remar Soils I Hydro Wetlan Primary	meet the requirer plogy Ind Indicators Indicators (Minimum Surface Water (A1) High Water Table (A: Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Imagery (B7) Sparsely Vegetated (B8) Disservations Water Present? Yes	nents of n of one is 2) 32) 4) (B6) Aerial Concave	required. Check all the water of the control of the	nat apply.) r Stained I A 1,2,4A, Crust (B11 tic Inverte ogen Sulfic zed Rhizo ence of Re nt Iron Re d Soils (Co ed or Stre (LRR A) r (Explain	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3 educed Iron duction in b) ssed Plants in Remarks))) (C4)	Wate MLR Drain Dry-S Satur Aeria Geon Shalle ✓ FAC- Raise Frost	r Stained Leaves (B9) exce A 1,2,4A, and 4B) age Patterns (B10) leason Water Table (C2) ation Visible on Il Imagery (C9) horphic Position (D2) low Aquitard (D3) Neutral Test (D5) d Ant Mounds (D6) (LRR A

Saturation at the soil surface provides wetland hydrology.



Motley of Determination Data Forms Mantage		sina Vall	lava 0 C		Point	8 und
Wetland Determination Data Form-Western			•	•	e Type _Upla	
Project/Site: Fountain Wind		City/County	Shasta C	County	Date:	10/11/17
Applicant/Owner: Avangrid				State: CA		_
Investigator(s):			_ Section,	, Township, Range Sec. 24, 1	735N, R1E	
Landform (hillslope, terrace, etc.) Hillslope		_ Local relie	ef (concave,	, convex, none) None	Slope	%50
				-121.821738°	Datum: N	AD83
Soil Map Unit Name: _Windy and McCarthy very stony sandy	loams, 30 to	o 50 percen	t slopes NV	VI Classification: N/A		
Are climatic/hydrologic conditions on the site typical for this tir	me of year?	√ / (If n	o, explain ir	n Remarks.)		
Are vegetation \(\sum \subseteq soil \subseteq \subseteq or hydrology \subseteq \subseteq significant	ntly disturbe	d? Are norn	nal circumst	tances present?√/		
Are vegetation \(\sum{\subset \subset \sigma \sigma \text{bor hydrology} \subset \subset \text{haturally}	problematic	:? (If neede	ed, explain i	in Remarks.)		
Summary of Findings (Attach site map showing sampli	ing point loc	ations trans	cocts impor	tant features etc.)		
Hydrophytic vegetation?					toro2 🗆 🗸	
	nyurology :		заттріей аге		fer2. TIV	
Evaluation of features designated "Other Wate						
Indicators: Defined bed and bank Scour _ Feature Designation: Perennial Intermittent Ep	Ordina	ary High Wa	iter Mark Ma	apped Stream Width		
Natural Drainage Artificial Drain	iage	Navigable V	Vater	Quau Substrate		
Remarks	<u> </u>					
Remarks Upland pair to DP7 wetland seep/spring.						
				1		
Vegetation (Use Scientific Names)	Absolute	Dominant		Dominance Test Workshee		
Tree Stratum (Plot Size: 30) 1 Pseudotsuga menziesii	<u>% Cover</u> 30	Species?	FACU	Number of dominant species that are OBL, FACW, or FAC		_ (A)
I				Total number of dominant sp	necies	_ (A)
2				across all strata:	3	_ (B)
3				Percent of dominant species are OBL, FACW, or FAC:	s that 0	_ (A/B)
46 Total Cover:	30			alc ODE, I ACW, OI I AC.		_ (A/D)
		Charles	Ctatus	Prevalence Index Worksho		
Sapling/Shrub Stratum (Plot Size: 15 Paxistima myrsinites	% Cover 20	Species?	FACU	Total % Cover of: M		
N. 41 194	5	N	UPL	OBL Species		
2. Notholithocarpus densifiorus 3. Calocedrus decurrens	5	N	UPL	FACW Species		
				FAC Species	_	
4	30			FACU Species		
		0	Ctatura	UPL Species	x 5 =0	
Herb Stratum (Plot Size: 5 1 Epilobium sp.	% Cover	Species?	FACU	Column Totals0	(A) <u>0</u>	(B)
			FACU	Prevalence Index = B/A =		
2. Trillium sp.						
3				Hydrophytic Vegetation In Rapid Test for Hydro		tion
4				Dominance Test is >!	50%	
5				Prevalence Index is <		
6				Morphological Adapta data in Remarks or o		
7				Wetland Non-Vascula	ar Plants ¹	
8				Problematic Hydroph		
50%=3 20%=1.2 Total Cover:		0 1 0	CL I	¹ Indicators of hydric soil and be present.	weнани пуаг	uiugy ITIUSI
		Species?				7
1				Hydrophytic Vegetation Pr	esent? L/2	<u>S</u>
2						
50%=		0				
% Bare Ground in Herb Stratum 45 % Cover of Bio	itic Crust _	<u>U</u>				

Data Point	8
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Depth	escription: (Description)	K	•	Redox Features		4	2		
(<u>inches</u>)	Color (m		<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	<u>Remarks</u>
0-18	5YR 5/3		00						
	-								
				M = Reduced Matrix			= Pore Lin	ing M = Matrix	
-		(Applicabl	e to all Li	RRs, unless otherw					Problematic Hydric Soils ³
	Histosol (A1)	(4.0)		Sandy	•	•		2 cm N	, ,
	Histic Epipedon				ed Matrix				arent Materials (TF21)
	Black Histic (A3			-	3	Mineral (exce	ept	-	hallow Dark Surface (TF12)
	Hydrogen Sulfic		. /0.44		1) (F1)	(50)		•	ted Sand/Gravel Bars
	Depleted Below		ace (A11	,	,	Matrix (F2)		Other (Explain in Remarks)
	Thick Dark Surf	, ,		•	ed Matrix			21 11	
	Sandy Mucky M			Redox		. ,			hydrophytic vegetation and
	Sandy Gleyed N	/latrix (S4)				Surface (F7)		wetland hydro	logy must be present.
				Redox	Depress	ions (F8)			
	tive Laver (if pr	esent)· Tv	ne.		Denth (I	nches)	hvH	ric Soil Present?	/X
Restric		000111,1	P 0		D 0 p (.		···j ···		, ,
Remar No inc	ks dicators of hy	dric soils	S.						
Remar No inc	ks dicators of hy blogy d Indicators			uired. Check all tha	ut annly)			Secondary Indi	icators (2 or more required)
No inco	ks dicators of hy blogy d Indicators y Indicators (Mir	nimum of o		uired. Check all tha		(0.0)		-	icators (2 or more required)
No inco	dicators of hy plogy Ind Indicators y Indicators (Mir	nimum of o		Water	Stained L	Leaves (B9)	except	Water	Stained Leaves (B9) except
Remar No inco Hydro Wetlan Primary	ks dicators of hy blogy d Indicators y Indicators (Mir Surface Water (High Water Tab	nimum of o		Water MLRA	Stained L	and 4B)	except	Water : MLRA	Stained Leaves (B9) except 1,2,4A, and 4B)
Remar No inco Hydro Wetlan Primary	dicators of hy blogy d Indicators y Indicators (Mir Surface Water (High Water Tab Saturation (A3)	nimum of o		Water MLRASalt Cr	Stained L 1,2,4A, a rust (B11)	and 4B)	except	Water MLRA Draina	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10)
Remar No inco Hydro Wetlan Primary	blogy ad Indicators y Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B	nimum of o A1) Ie (A2)		Water MLRA Salt Cr Aquatio	Stained L 1,2,4A, a rust (B11) c Inverteb	and 4B) orates (B13)	·	Water : MLRA Draina	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2)
Remar No inco	blogy Id Indicators Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Depo	nimum of o A1) le (A2) 1) sits (B2)		Water MLRA Salt Cr Aquatio	Stained L 1,2,4A, aust (B11) Inverteb Jen Sulfid	and 4B) orates (B13) le Odor (C1)		Water Water MLRA Drainag Dry-Se Satura	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on
Remar No inco	blogy Ind Indicators Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Depo	nimum of o A1) le (A2) 1) sits (B2)		Water MLRA Salt Cr Aquatic Hydrog	Stained L 1,2,4A, ust (B11) Inverteb Jen Sulfid ed Rhizos	and 4B) prates (B13) le Odor (C1) spheres (C3)	·)	Water : MLRA Draina Dry-Se Satura	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9)
Remar No inco	dicators of hy blogy d Indicators y Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (E Algal Mat or Cru	nimum of o A1) le (A2) 1) sits (B2) 33) ust (B4)		Water MLRA Salt Cr Aquatic Hydrog Oxidize	Stained L 1,2,4A, a ust (B11) c Inverteb gen Sulfided Rhizos ace of Re	and 4B) orates (B13) le Odor (C1) spheres (C3) duced Iron (·)	Water MLRA Draina Dry-Se Satural Aerial Geome	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2)
Remar No inco	dicators of hy blogy d Indicators y Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (E Algal Mat or Cru	nimum of o A1) le (A2) 1) sits (B2) 33) ust (B4)		Water MLRA Salt Cr Aquatio Hydrog Oxidize Preser Recent	Stained L 1,2,4A, ust (B11) c Inverted gen Sulfid ed Rhizos ace of Rea t Iron Rea	and 4B) prates (B13) de Odor (C1) spheres (C3) duced Iron (duction in	·)	Water : MLRA Drainae Dry-Se Saturae Aerial Geomo	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) v Aquitard (D3)
Remar No inco	blogy Indicators of hy Indicators Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (E Algal Mat or Cru Iron Deposits (E Surface Soil Cra	nimum of o A1) le (A2) 1) sits (B2) 33) ust (B4) 85) acks (B6)	ne is req	Water MLRA Salt Cr Aquatic Hydrog Oxidize Preser Recent	Stained L. 1,2,4A, aust (B11) converted gen Sulfided Rhizosace of Real tron Real Soils (C6)	and 4B) prates (B13) le Odor (C1) spheres (C3) duced Iron (duction in)	·)	Water of MLRA Draina Dry-Se Satural Aerial Geomo Shallov FAC-N	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) v Aquitard (D3) eutral Test (D5)
Remar No inco	dicators of hy Dlogy Id Indicators Indicators (Mir Surface Water (Mir Surface Water (Mir Surface Water (Mir Saturation (Mir Saturation (Mir Sediment Depo Drift Deposits (Mir Surface Soil Cra Inundation Visib	nimum of o A1) le (A2) 1) sits (B2) 33) ust (B4) 85) acks (B6)	ne is req	Water MLRA Salt Cr Aquatio Hydrog Oxidize Preser Recent Tilled	Stained L 1,2,4A, ust (B11) c Inverted gen Sulfid ed Rhizos ace of Red t Iron Red Soils (C6 d or Stres	and 4B) prates (B13) de Odor (C1) spheres (C3) duced Iron (duction in	·)	Water MLRA Drainag Dry-Se Satural Aerial Geomo Shallov FAC-N Raised	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) v Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A)
Remar No inco	dicators of hy blogy d Indicators y Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (E Algal Mat or Cru Iron Deposits (E Surface Soil Cra Inundation Visit Imagery (B7)	nimum of o A1) le (A2) 1) sits (B2) 33) ust (B4) 35) acks (B6) ole on Aeria	ne is req	Water MLRA Salt Cr Aquation Hydrog Oxidized Preser Recenti Tilled Stunter (D1) (I	Stained L 1,2,4A, ust (B11) c Inverted gen Sulfid ed Rhizos ace of Rea t Iron Rea Soils (C6 d or Stres LRR A)	and 4B) prates (B13) le Odor (C1) spheres (C3) duced Iron (duction in) ssed Plants	·)	Water MLRA Drainag Dry-Se Satural Aerial Geomo Shallov FAC-N Raised	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) v Aquitard (D3) eutral Test (D5)
Remar No inco	dicators of hy plogy ad Indicators y Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (E Algal Mat or Cru Iron Deposits (E Surface Soil Cra Inundation Visib Imagery (B7) Sparsely Vegeta	nimum of o A1) le (A2) 1) sits (B2) 33) ust (B4) 35) acks (B6) ole on Aeria	ne is req	Water MLRA Salt Cr Aquation Hydrog Oxidized Preser Recenti Tilled Stunter (D1) (I	Stained L 1,2,4A, ust (B11) c Inverted gen Sulfid ed Rhizos ace of Rea t Iron Rea Soils (C6 d or Stres LRR A)	and 4B) prates (B13) le Odor (C1) spheres (C3) duced Iron (duction in)	·)	Water MLRA Drainag Dry-Se Satural Aerial Geomo Shallov FAC-N Raised	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) v Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A)
Remar No inco	dicators of hy blogy d Indicators y Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (E Algal Mat or Cru Iron Deposits (E Surface Soil Cra Inundation Visib Imagery (B7) Sparsely Vegeta Surface (B8)	nimum of o A1) le (A2) 1) sits (B2) 33) ust (B4) 35) acks (B6) ole on Aeria	ne is req	Water MLRA Salt Cr Aquation Hydrog Oxidized Preser Recenti Tilled Stunter (D1) (I	Stained L 1,2,4A, ust (B11) c Inverted gen Sulfid ed Rhizos ace of Rea t Iron Rea Soils (C6 d or Stres LRR A)	and 4B) prates (B13) le Odor (C1) spheres (C3) duced Iron (duction in) ssed Plants	·)	Water MLRA Drainag Dry-Se Satural Aerial Geomo Shallov FAC-N Raised	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) v Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A)
Remar No inco Hydro Wetlan Primary	dicators of hy blogy d Indicators y Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (E Algal Mat or Cru Iron Deposits (E Surface Soil Cra Inundation Visib Imagery (B7) Sparsely Vegeta Surface (B8) Disservations	nimum of on A1) le (A2) 1) sits (B2) 33) ust (B4) 85) acks (B6) ale on Aeria	ne is requal	Water MLRA Salt Cr Aquatic Hydrog Oxidize Preser Receni Tilled Stunter (D1) (I	Stained L. 1,2,4A, aust (B11) converted gen Sulfided Rhizos ace of Rect Iron Recesoils (C6d or Strest LRR A) (Explain in	and 4B) prates (B13) le Odor (C1) spheres (C3) duced Iron (duction in) ssed Plants n Remarks)	C4)	Water: MLRA Drainae Dry-Se Saturae Aerial Geomo Shallov FAC-N Raised Frost-H	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) v Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
Remar No inco Hydro Wetlan Primary	dicators of hy blogy d Indicators y Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (E Algal Mat or Cru Iron Deposits (E Surface Soil Cra Inundation Visib Imagery (B7) Sparsely Vegeta Surface (B8)	nimum of o A1) le (A2) 1) sits (B2) 33) ust (B4) 35) acks (B6) ole on Aeria	al ave	Water MLRA Salt Cr Aquation Oxidize Preser Recent Tilled Stunter (D1) (I	Stained L 1,2,4A, ust (B11) c Inverted gen Sulfid ed Rhizos ace of Rec t Iron Rec Soils (C6 d or Stres LRR A) (Explain in	and 4B) prates (B13) le Odor (C1) spheres (C3) duced Iron (duction in) ssed Plants n Remarks)	C4)	Water MLRA Drainag Dry-Se Satural Aerial Geomo Shallov FAC-N Raised	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) v Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) Heave Hummocks (D7)

No indicators of wetland hydrology.



Wetland Determination Data For	m–Westerr	n Mounta	ains, Vall	eys, & C	Coast Region	Feature Typ		hemeral Stream
Project/Site: Fountain Wind			City/County	Shasta C	County		Date	e: <u>10/10/17</u>
Applicant/Owner: Avangrid						A		
Investigator(s): Gabe Youngblood, John F	Holford			Section	. Township, Range S	Sec. 22, T35N	, R1E	
Landform (hillslope, terrace, etc.) Drainage Subregion (LRR): MLRA 22B			Local relie	- ef (concave,	convex, none) Con	vex	Slop	e % 5
Subregion (LRR): MLRA 22B	Lat: 40).873445°	_	Long:_	-121.846261°	Dat	um: ˈ	NAD 83
Soil Map Unit Name: _Goulder gravelly san	dy loam, 15 to	30 percer	nt slopes		VI Classification: N/A	١		
Are climatic/hydrologic conditions on the site t								
Are vegetation \(\sigma\) \(\sigma\) soil \(\sigma\) \(\sigma\) or hydrology						٦		
Are vegetation \(\sum \subseteq \si						_		
			-	,	<u> </u>			
Summary of Findings (Attach site map						a		1
Hydrophytic vegetation? 🔲 🔀 Hydric soil?	_ / Wetland	hydrology?		sampled are	a a wetland? _\\X	Other waters?	✓/∟	
Evaluation of features designated	"Oţher Wate	rs, of the	United St	ates"				
Indicators: Defined bed and bank _	✓ Scour _	✓ Ordina	ary High Wa	ter Mark Ma	apped Stream	Width 2'		
Feature Designation: Perennial Interm	nittent Ep	hemeral'	✓ Blue-lin	e on USGS	Quad Substi	rate Rock		
Natural Drainage	_ ALUIICIAI DIAIII	aye	ivavigable v	valei	-			
Remarks _{DP} documents the headwa	ters of an epl	nemeral s	tream.					
Vegetation (Use Scientific Names)		Absolute	Dominant	Indicator	Dominance Test	Worksheet		
Tree Stratum (Plot Size:)		% Cover	Species?	Status	Number of domina			
1					that are OBL, FAC			(A)
2					Total number of do across all strata:	линані ѕресіе:		(B)
3					Percent of domina			
4					are OBL, FACW, o	or FAC:		(A/B)
50%=	Total Cover:	0			Prevalence Index	Worksheet		
Sapling/Shrub Stratum (Plot Size:			Species?	Status	Total % Cover of:		y by	
1	·				OBL Species	x 1	=	0
2	·				FACW Species	x 2	=	0
3						x 3		0
4					FACU Species			0
50%=	Total Cover:	0				x 5		
Herb Stratum (Plot Size:)		% Cover	Species?	Status	Column Totals			
1								(D)
2					Prevalence Index	= B/A =		
3					Hydrophytic Vege	etation Indicat	ors	
4					Rapid Test	for Hydrophytic	: Veget	ation
5					Dominance Prevalence			
6					Morphologi			ide supporting
7					data in Ren	narks or on a s	eparate	
8					Wetland No			ion1 (Evnlain)
50%=					¹ Indicators of hydr	ic soil and weth	and hyd	drology must
Woody/Vine Stratum (Plot Size:			Species?	Status	be present.			03
1			•		Hydrophytic Vege	station Draces	₊₂ []	⊠
2					nyuropitytic vege	tialion riesen	ıı:/	
50%=								
% Bare Ground in Herb Stratum %								
		JIUJI			i			

Data Point	9	
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\sim		
5	'n	c

Profile De Depth (inches)	scription: (Describe Matrix <u>Color (moist)</u>	· R	eeded to docume edox Features Color (moist)	ent the ind <u>%</u>	licator or co Type ¹	nfirm the a	absence of indica	ntors. <u>Remarks</u>
Hydric So	= Concentration D = il Indicators: (Appli istosol (A1) istic Epipedon (A2) lack Histic (A3) ydrogen Sulfide (A4) epleted Below Dark hick Dark Surface (A andy Mucky Mineral andy Gleyed Matrix (cable to all LRR Surface (A11) 12) (S1)	s, unless otherw Sandy Strippe Loamy MLRA Loamy Deplete Redox Deplete	ise noted; Redox (Sed Matrix Mucky M 1) (F1) Gleyed Med Matrix Dark Sur) (S6) (Ineral (exco Matrix (F2) (F3) face (F6) Surface (F7)	ept	2 cm M Red Pa Very S Other of Other of	Problematic Hydric Soils ³ Muck (A10) arent Materials (TF21) shallow Dark Surface (TF12) ated Sand/Gravel Bars (Explain in Remarks) hydrophytic vegetation and blogy must be present.
Remarks	ve Layer (if present) s d channel no soi			Depth (li	nches)	Hydi	ric Soil Present?	·×
Primary SiWSiV DAiIriSiIn	Indicators Indicators (Minimum urface Water (A1) igh Water Table (A2) aturation (A3) /ater Marks (B1) ediment Deposits (B3) Igal Mat or Crust (B4) on Deposits (B5) urface Soil Cracks (E undation Visible on a magery (B7) parsely Vegetated C urface (B8))) 36) Aerial	Water MLRA Salt Cr Aquatio Hydrog Oxidize Preser Recent Tilled Stunter	Stained L 1,2,4A, a rust (B11) c Inverteb gen Sulfid ed Rhizos nce of Rec t Iron Rec Soils (C6) d or Stres LRR A)	orates (B13) e Odor (C1) spheres (C3 duced Iron (luction in)) (C4)	Water MLRA Draina Dry-Se Satura Aerial Geome Shallor FAC-N Raisec	Stained Leaves (B9) except A 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
Surface V Water Tal Saturation	ble Present? Yes	No N	Depth (inch Depth (inch Depth (inch itoring well, aerial	ies)	(incl	udes capilla		/ N

Drift deposits indicate frequent flooding.



Wetland Determination Data Form-Wester	rn Mounta	ains, Val	leys, & (Coast Region	Data Point Feature Type	Fresh E	10 Emergent Wetlan
Project/Site: Fountain Wind			-	_	,.	Date:	10/24/17
Applicant/Owner: Avangrid		City/County	•	State: <u>C</u>	CA	Date.	
			Section	, Township, Range _S	Sec. 32, T35N, I	R3E	-
Landform (hillslope, terrace, etc.) Drainage	10.853245°	_ Local relie	ef (concave	, convex, none) Con	icave Datun	Slope	%1 AD83
Soil Map Unit Name: Gardens-Jacksback complex, 0 to	o 2 percent		-				
Are climatic/hydrologic conditions on the site typical for this Are vegetation \(\sum_1 \sum_2 \soil \sum_1 \sum_0 \rangle \r	antly disturbe	ed? Are norr	nal circums	tances present? 🗸 🗸			
Summary of Findings (Attach site map showing samp Hydrophytic vegetation? Hydric soil? Wetlan						7 /	
Evaluation of features designated "Other Wat Indicators: Defined bed and bank Scour Feature Designation: Perennial Intermittent E Natural Drainage Artificial Dra	Ordin Ephemeral inage	ary High Wa Blue-lin Navigable V	iter Mark M e on USGS Vater	Quad <u>V</u> Subst	Width 6' rate Soil & Vegetated		
Remarks DP documents OHWM of a perennial s	tream with	emergent	vegetation	on.			
Vegetation (Use Scientific Names) Tree Stratum (Plot Size:) 1 2 3				Dominance Test Number of domina that are OBL, FAC Total number of de across all strata: Percent of domina	ant species CW, or FAC: ominant species unt species that	1	_ (A) _ (B)
4				are OBL, FACW, o	or FAC:	100	_ (A/B)
50%= Total Cover Sapling/Shrub Stratum (Plot Size:)	r: 0 % Cover	Species?	Status	Prevalence Index Total % Cover of:	x Worksheet Multiply b	<u>) y</u>	
1				OBL Species	x 1 =	0	
2				FACW Species	x 2 =	0	
3				FAC Species	x 3 =	0	
4				FACU Species	x 4 =	0	
50%= Total Cover	r:0			UPL Species			-
Herb Stratum (Plot Size: <u>5'</u>) 1. Glyceria striata	% Cover 80	Species?	Status OBL	Column Totals Prevalence Index	(A)	0	(B)
2. Unknown herb	5	N	UNK	r revalence index	– D/A –	_	
3. Ludwigia palustris 4 5 6				Hydrophytic Veg Rapid Test Dominance Prevalence Morphologi	for Hydrophytic Vertest is >50% Index is < 3.01	'egetati	
7				data in Rer	narks or on a sep	arate s	
8					on-Vascular Plant c Hydrophytic Veg		ol (Evolain)
50%=43 20%=_17.2 Total Cover				¹ Indicators of hydi			
Woody/Vine Stratum (Plot Size:) 1		Species?		be present. Hydrophytic Veg	etation Present?		7
2				,			_
50%= 20%= Total Cover % Bare Ground in Herb Stratum 14 % Cover of B	r:0						

_		
5	'n	c
- 71	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, n

Profile D Depth	escription : (Describ Matrix	oe to the de	epth needed to docum Redox Features	ent the ind	dicator or co	onfirm the	absence of i	ndicators.			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks			
0-12	10YR3/1	90	10YR 4/6	10	C	PL	Loam	Gravelly Sandy			
							·				
1 _{Types} . (C = Concentration D =	Denletion	RM = Reduced Matrix	2	2 ocation: P	I = Pore Lir	ning M = Ma	trix			
			II LRRs, unless otherv			L - I OIC LII		s for Problematic Hydric Soils ³			
-	Histosol (A1)	ilcable to a	in Errics, diffess others Sandy					cm Muck (A10)			
	Histic Epipedon (A2)		Stripped Matrix (S6)				ed Parent Materials (TF21)				
	Black Histic (A3)		Loamy Mucky Mineral (except				ery Shallow Dark Surface (TF12)				
	Hydrogen Sulfide (A4	1)		MLRA 1) (F1)				Vegetated Sand/Gravel Bars			
	Depleted Below Dark	-		Loamy Gleyed Matrix (F2)				Other (Explain in Remarks)			
-	Гhick Dark Surface (<i>I</i>	A12)	•	ted Matrix				,			
	Sandy Mucky Minera	I (S1)	_ ✓ _ Redox	k Dark Sui	rface (F6)		³ Indicators of hydrophytic vegetation and				
	Sandy Gleyed Matrix	(S4)	Deple	ted Dark S	Surface (F7)	wetland hydrology must be present.				
	Redox Depressions (F8)										
Doctric	tivo Lavor (if procont	t). Typo:		Donth (I	Inches)	Hvd	ric Soil Pres	ont? 🗸 l			
Remar		.). турс		Deptil (i		Tiyu	110 3011 1 103	GHE V			
Reman	KS										
Soils r	neet the requiren	nents for	indicator F6 Redo	x Dark S	Surface.						
Hydro											
	d Indicators Undicators (Minimun	n of one is	required. Check all th	at annly)			Secondar	y Indicators (2 or more required)			
		11 01 0110 13	•								
	Surface Water (A1)		Water Stained Leaves (B9) except				Water Stained Leaves (B9) except				
_	High Water Table (A2		MLRA 1,2,4A, and 4B)				MLRA 1,2,4A, and 4B)				
	Saturation (A3)		Salt Crust (B11)				Drainage Patterns (B10)				
	Water Marks (B1)	· ·	Aquatic Invertebrates (B13)				Dry-Season Water Table (C2)				
	Sediment Deposits (E	32)		Hydrogen Sulfide Odor (C1)				aturation Visible on			
	Orift Deposits (B3)	4)		Oxidized Rhizospheres (C3)				Aerial Imagery (C9) _✓ Geomorphic Position (D2)			
	Algal Mat or Crust (B	4)		Presence of Reduced Iron (C4) Recent Iron Reduction in				hallow Aquitard (D3)			
	ron Deposits (B5) Surface Soil Cracks ('B6)		Tilled Soils (C6)				AC-Neutral Test (D5)			
	nundation Visible on	. ,		•	•			aised Ant Mounds (D6) (LRR A)			
	Imagery (B7)		Stunted or Stressed Plants (D1) (LRR A)				rost-Heave Hummocks (D7)				
	Sparsely Vegetated (Other (Explain in Remarks)								
	Surface (B8)	30110410	Other	(Explain)	iii Romans,	,					
	bservations										
		√	No Depth (inc	hes)6		Wetland	d Hydrology?	∜ / N			
		1	No Depth (inc	Depth (inches) Metland Hydrology? ✓ / N Depth (inches) Surface							
	on Present? Yes			(inches) Surface (includes capillary fringe)							
			e, monitoring well, aeria								
		5 5	J , ·		•	,					

Surface water provides wetland hydrology.



2. Total number of dominant species across all strata: 3. Percent of dominant species that	
Applicant/Owner: Avangnd Investigator(s): John Holson Landform (hillslope, terrace, etc.) Stream terrace Local relief (concave, convex, none) None Slope 9 Subregion (LRR): MLRA 22B Lat: 40.853179° Long: -121.780916° Datum: NA Soil Map Unit Name: Gardens-Jacksback complex, 0 to 2 percent slopes NWI Classification: PEMC1 Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in Remarks.) Are vegetation Soil Soil For hydrology Asignificantly disturbed? Are normal circumstances present? Are vegetation Soil For hydrology Asignificantly disturbed? Are normal circumstances present? Summary of Findings (Attach site map showing sampling point locations, transects, important features, etc.) Hydrophytic vegetation? Hydric soil? Wetland hydrology Is sampled area a wetland? Intermittent States" Indicators: Defined bed and bank Scour Ordinary High Water Mark Mapped Stream Width Feature Designation: Perennial Intermittent Ephemeral Blue-line on USGS Quad Substrate Natural Drainage Artificial Drainage Navigable Water Remarks DP documents riparian wetland associated with Carberry Creek where it flows through a meadow. Vegetation (Use Scientific Names) Absolute Dominant Indicator Species? Status Number of dominant species that are OBL, FACW, or FAC: 4 Total number of dominant species that arcoss all strata: 4 Percent of dominant species that arcoss all strata: 4 Percent of dominant species that 400	10/27/11
Section, Township, Range Sec. 32, T35N, R3E	
Landform (hillslope, terrace, etc.) Stream terrace Subregion (LRR): MLRA 22B Lat: 40.853179° Long: -121.780916° Datum: NA Soil Map Unit Name: Gardens-Jacksback complex, 0 to 2 percent slopes NWI Classification: PEMC1 Are climatic/hydrologic conditions on the site typical for this time of year? (If no, explain in Remarks.) Are vegetation Soil Findings (Attach site map showing sampling point locations, transects, important features, etc.) Hydrophytic vegetation? Hydric soil? Weltand hydrology? Is sampled area a wetland? There waters? Is sampled area a wetland? Evaluation of features designated "Other Waters of the United States" Indicators: Defined bed and bank Scour Ordinary High Water Mark Mapped Stream Width Petature Designation: Perennial Intermittent Ephemeral Blue-line on USGS Quad Substrate Natural Drainage Artificial Drainage Navigable Water Remarks DP documents riparian wetland associated with Carberry Creek where it flows through a meadow. Vegetation (Use Scientific Names) Tree Stratum (Plot Size:) Absolute Dominant Indicator Species? Status 1 Dominance Test Worksheet Number of dominant species 1 Total number of dominant species 1 Total number of dominant species 1 Hercent of dominant species 1 Percent of dominant species that 4	
Subregion (LRR): MLRA 22B	0
Soil Map Unit Name: Gardens-Jacksback complex, 0 to 2 percent slopes Are climatic/hydrologic conditions on the site typical for this time of year? Are vegetation Soil	
Are climatic/hydrologic conditions on the site typical for this time of year?	
Are vegetation Soil Soil Soil Soil Soil Soil Soil Soil	
Are vegetation	
Summary of Findings (Attach site map showing sampling point locations, transects, important features, etc.) Hydrophytic vegetation? Hydric soil? Wetland hydrology? Is sampled area a wetland? There waters? Is sampled area a wetland? Is sampled area a wetland? Is sampled area a wetland? There waters? Is sampled area a wetland? Is sampled area a we	
Hydrophytic vegetation? Hydric soil? Wetland hydrology? Is sampled area a wetland? Uniter waters? Wetland hydrology? Is sampled area a wetland? Uniter waters? Wetland hydrology? Is sampled area a wetland? Uniter waters? Wetland hydrology? Is sampled area a wetland? Uniter waters? Wetland hydrology? Is sampled area a wetland? Uniter waters?	
Evaluation of features designated "Other Waters of the United States" Indicators: Defined bed and bank Scour Ordinary High Water Mark Mapped Stream Width Feature Designation: Perennial Intermittent Ephemeral Blue-line on USGS Quad Substrate Natural Drainage Artificial Drainage Navigable Water Remarks DP documents riparian wetland associated with Carberry Creek where it flows through a meadow. Vegetation (Use Scientific Names) Tree Stratum (Plot Size: Dominant Indicator Species? Status 1. Species? Status 1. Total number of dominant species that are OBL, FACW, or FAC: Total number of dominant species across all strata: Percent of dominant species that 100	
Indicators: Defined bed and bank Scour Ordinary High Water Mark Mapped Stream Width Feature Designation: Perennial Intermittent Ephemeral Blue-line on USGS Quad Substrate Natural Drainage Artificial Drainage Navigable Water	
Vegetation (Use Scientific Names) Tree Stratum (Plot Size:) 1 2 3 Absolute	
that are OBL, FACW, or FAC: 4 Total number of dominant species across all strata: 4 Percent of dominant species that	
2 Total number of dominant species across all strata: 4 Percent of dominant species that 100	(A)
3 Percent of dominant species that	(八)
	(B)
	(A/B)
4	(1110)
Prevalence Index Worksheet	
Sapling/Shrub Stratum (Plot Size:)	
The state of the s	_
17/6W Species X2 =	_
	_
4	
UPL Species X5 =	_
Herb Stratum (Plot Size: 5' % Cover Species? Status 1. Juncus effusus 35 Y FACW Column Totals 0 (A) 0	(B)
Carey sp. Prevalence Index = B/A =	
3. Epilobium ciliatum	n
Dominanco Tost is > 50%	11
5. Adoptical spraterisis $\frac{2}{1000} = \frac{1000}{1000} = \frac{10000}{1000} = \frac{1000}{1000} = \frac{1000}{1000} = \frac{1000}{1000} = 100$	
data in Domerko en a congrata ch	
Vetland Non-Vascular Plants ¹	coij
8 Problematic Hydrophytic Vegetation	
50%= 32.5 20%= 13 Total Cover: 65 Woody/Vino Stratum (Diet Size: A Cover Species 2 Status be present.	ogy must
woody/vine stratum (Flot size	
1 Hydrophytic Vegetation Present? 🗸 🗀	
2	
50%= 20%= Total Cover:0 % Baro Ground in Horb Stratum 35	

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Depth	e scription : (De Matrix			ox Features					
(inches)	Color (mo			lor (moist)	%	Type ¹	Loc ²	Texture	Remarks
0-3	2.5YR 2.5/1	100		ior (moist)		<u> 1 </u>	200	Loam	Clay + roots/organic matter
3-10	2.5YR 2.5/1	90	5YR 4	/4	10		M	Loam	Clay, some cobble
10-16	7.5YR 2.5/1	100						Loam	Sandy
1 _{Tupos}	C = Concentration	D Doplotio		oducod Matriy		Location: P		ing M = Ma	atrix
							L = Pole LII		
-	oil Indicators:	(Applicable to							rs for Problematic Hydric Soils ³
	Histosol (A1)	(Sandy	•	•			cm Muck (A10)
	Histic Epipedon Black Histic (A3)				ed Matrix		ont		ed Parent Materials (TF21)
	Hydrogen Sulfid			-	y wiucky iv v 1) (F1)	/lineral (exc	.epi		ery Shallow Dark Surface (TF12) egetated Sand/Gravel Bars
	Depleted Below		(A11)			Matrix (E2)			other (Explain in Remarks)
	Depleted Below Thick Dark Surfa		(ATT)	-	ted Matrix	Matrix (F2)		0	miei (Expiaiii iii Remarks)
	Sandy Mucky M	, ,			CDark Su			3Indicate	ors of hydrophytic vegetation and
	Sandy Macky M Sandy Gleyed M	, ,				Surface (F7)		hydrology must be present.
	Januy Gicyca iv	atrix (34)			Depress	-	,	Welland	nyarology must be present.
				110007	СВоргозз	10113 (1 0)			
Restric	tive Layer (if pre	esent): Type:			Depth (I	nches)	Hyd	ric Soil Pres	ent? ✓
Remar	ks								
		iromonto f	or indicate	or EC Dodo	v Dork (Surface			
	ks meet the requ	irements fo	or indicate	or F6 Redo	x Dark S	Surface.			
	meet the requ	irements fo	or indicate	or F6 Redo	x Dark S	Surface.			
Soils in Hydro	meet the required blogy and Indicators					Surface.		Cocondor	a Indicators (2 or more required)
Soils in Hydro	meet the requ					Surface.		Secondar	ry Indicators (2 or more required)
Hydro Wetlan	meet the required blogy and Indicators	imum of one		Check all th	at apply.)	Surface.) except		ry Indicators (2 or more required) Vater Stained Leaves (B9) except
Hydro Wetlan Primary	neet the required longy and Indicators (Min	imum of one		Check all th ✓ Water	at apply.)	Leaves (B9)) except	W	
Hydro Wetlan Primary	Dlogy Id Indicators Indicators (Min	imum of one		Check all th ✓ Water MLRA	at apply.) Stained L	Leaves (B9)) except	\\ N	/ater Stained Leaves (B9) except
Hydro Wetlan Primary	Dlogy Indicators Indicators (Min Surface Water (A	imum of one A1) e (A2)		Check all th ✓ Water MLRA Salt C	at apply.) Stained L A 1,2,4A, Trust (B11)	Leaves (B9)		W N D	/ater Stained Leaves (B9) except //LRA 1,2,4A, and 4B)
Hydro Wetlan Primary	plogy ad Indicators y Indicators (Min Surface Water (A High Water Tabl Saturation (A3)	imum of one A1) e (A2)		Check all th ✓ Water MLRA Salt C Aquat	at apply.) Stained L A 1,2,4A, Trust (B11)	_eaves (B9) and 4B))	W D D	/ater Stained Leaves (B9) except //LRA 1,2,4A, and 4B) rainage Patterns (B10)
Hydro Wetlan Priman	plogy Id Indicators Indicators (Min Surface Water (A High Water Tabl Saturation (A3) Water Marks (B	imum of one A1) e (A2)) its (B2)		Check all th ✓ Water MLR/ Salt C Aquat Hydro	at apply.) Stained L A 1,2,4A, Trust (B11) ic Invertel gen Sulfic	Leaves (B9) and 4B)) orates (B13)	W D D S	/ater Stained Leaves (B9) except //LRA 1,2,4A, and 4B) rainage Patterns (B10) rry-Season Water Table (C2)
Hydro Wetlan Primary	neet the requestion of the req	imum of one A1) e (A2)) its (B2) 3)		Check all th ✓ Water MLR Salt C Aquat Hydro Oxidiz	at apply.) Stained L A 1,2,4A, Trust (B11) ic Invertel gen Sulfic	Leaves (B9) and 4B)) orates (B13 de Odor (C1)) 3)	W D D S	/ater Stained Leaves (B9) except //LRA 1,2,4A, and 4B) rrainage Patterns (B10) rry-Season Water Table (C2) aturation Visible on
Hydro Wetlan Primary	blogy ad Indicators y Indicators (Min Surface Water (A High Water Tabl Saturation (A3) Water Marks (B' Sediment Deposits (B	imum of one A1) e (A2)) its (B2) 3) st (B4)		Check all th ✓ Water MLR/ Salt C Aquat Hydro Oxidiz Prese	at apply.) Stained L A 1,2,4A, Trust (B11) ic Invertel gen Sulfic	Leaves (B9) and 4B) orates (B13 de Odor (C1 spheres (C3 duced Iron)) 3)	W D D S ✓G	Vater Stained Leaves (B9) except VILRA 1,2,4A, and 4B) Arrainage Patterns (B10) Arry-Season Water Table (C2) Aturation Visible on Aerial Imagery (C9)
Hydro Wetlan Primary	neet the requestion of the req	imum of one A1) e (A2)) its (B2) 3) st (B4) 5)		Check all th ✓ Water MLR/ Salt C Aquat Hydro Oxidiz Prese Recer	at apply.) Stained I A 1,2,4A, Trust (B11) ic Invertel gen Sulfic zed Rhizos	Leaves (B9) and 4B) orates (B13 de Odor (C1 spheres (C3 duced Iron duction in)) 3)	W D S G S	Vater Stained Leaves (B9) except VILRA 1,2,4A, and 4B) Varianage Patterns (B10) Vary-Season Water Table (C2) Vaturation Visible on Vaerial Imagery (C9) Value of the complete
Hydro Wetlan Primary	plogy Id Indicators Indicators (Min Surface Water (A High Water Tabl Saturation (A3) Water Marks (B' Sediment Depos Drift Deposits (B Algal Mat or Cru	imum of one A1) e (A2)) its (B2) 3) st (B4) 5) cks (B6)		Check all th ✓ Water MLRA Salt C Aquat Hydro Oxidiz Prese Recer Tilled	at apply.) Stained L A 1,2,4A, Trust (B11) ic Invertel gen Sulfice and Rhizos nce of Re nt Iron Rec Soils (C6	Leaves (B9) and 4B) orates (B13 de Odor (C1 spheres (C3 duced Iron duction in) 3) (C4)	WD	Vater Stained Leaves (B9) except VILRA 1,2,4A, and 4B) Varianage Patterns (B10) Vary-Season Water Table (C2) Vaturation Visible on Vaerial Imagery (C9) Value Complete Position (D2) Variation Value Complete Position (D2) Variation Value Complete Position (D3)
Hydro Wetlan Priman	Dlogy Id Indicators Indicators (Minicators	imum of one A1) e (A2)) its (B2) 3) st (B4) 5) cks (B6)		Check all th ✓ Water MLR/ Salt C Aquat Hydro Oxidiz Prese Recer Tilled Stunte	at apply.) Stained L A 1,2,4A, Trust (B11) ic Invertel gen Sulfice and Rhizos nce of Re nt Iron Rec Soils (C6	Leaves (B9) and 4B) orates (B13 de Odor (C1 spheres (C3 duced Iron duction in) 3) (C4)	W D S 	Vater Stained Leaves (B9) except VILRA 1,2,4A, and 4B) Varianage Patterns (B10) Vary-Season Water Table (C2) Vaturation Visible on Vaerial Imagery (C9) Value Complete Position (D2) Value Complete Position (D3) Value Complete Position (D3) Value Complete Position (D3) Value Complete Position (D5)
Hydro Wetlan Primary	meet the required blogy and Indicators (Min Surface Water (A High Water Tabl Saturation (A3) Water Marks (Bradiment Deposits (B Algal Mat or Crullron Deposits (B Surface Soil Crallrundation Visib	imum of one A1) e (A2)) its (B2) 3) st (B4) 5) cks (B6) e on Aerial		Check all th ✓ Water MLRA Salt C Aquat Hydro Oxidiz Prese Recer Tilled Stunte (D1)	at apply.) Stained L A 1,2,4A, Frust (B11) ic Invertel gen Sulfice zed Rhizos nce of Re nt Iron Rec Soils (C6 ed or Stres (LRR A)	Leaves (B9) and 4B) orates (B13 de Odor (C1 spheres (C3 duced Iron duction in)) 3) (C4)	W D S 	Vater Stained Leaves (B9) except VILRA 1,2,4A, and 4B) Varianage Patterns (B10) Vary-Season Water Table (C2) Vaturation Visible on Vaerial Imagery (C9) Value Comprehic Position (D2) Value Aquitard (D3) Vac-Neutral Test (D5) Value Calcal Cal
Hydro Wetlan Primary	Dlogy Id Indicators Indicators (Min Surface Water (A High Water Tabl Saturation (A3) Water Marks (B' Sediment Deposit Proposits (B Algal Mat or Cru Iron Deposits (B Surface Soil Cra Inundation Visib Imagery (B7)	imum of one A1) e (A2)) its (B2) 3) st (B4) 5) cks (B6) e on Aerial		Check all th ✓ Water MLRA Salt C Aquat Hydro Oxidiz Prese Recer Tilled Stunte (D1)	at apply.) Stained L A 1,2,4A, Frust (B11) ic Invertel gen Sulfice zed Rhizos nce of Re nt Iron Rec Soils (C6 ed or Stres (LRR A)	Leaves (B9) and 4B) orates (B13 de Odor (C1 spheres (C3 duced Iron duction in) ssed Plants)) 3) (C4)	W D S 	Vater Stained Leaves (B9) except VILRA 1,2,4A, and 4B) Varianage Patterns (B10) Vary-Season Water Table (C2) Vaturation Visible on Vaerial Imagery (C9) Value Comprehic Position (D2) Value Aquitard (D3) Vac-Neutral Test (D5) Value Calcal Cal
Hydro Wetlan Primary	Dlogy Id Indicators Indicators (Min Surface Water (A High Water Tabl Saturation (A3) Water Marks (B Sediment Deposits (B Algal Mat or Cru Iron Deposits (B Surface Soil Cra Inundation Visib Imagery (B7) Sparsely Vegeta	imum of one A1) e (A2)) its (B2) 3) st (B4) 5) cks (B6) e on Aerial		Check all th ✓ Water MLRA Salt C Aquat Hydro Oxidiz Prese Recer Tilled Stunte (D1)	at apply.) Stained L A 1,2,4A, Frust (B11) ic Invertel gen Sulfice zed Rhizos nce of Re nt Iron Rec Soils (C6 ed or Stres (LRR A)	Leaves (B9) and 4B) orates (B13 de Odor (C1 spheres (C3 duced Iron duction in) ssed Plants)) 3) (C4)	W D S 	Vater Stained Leaves (B9) except VILRA 1,2,4A, and 4B) Varianage Patterns (B10) Vary-Season Water Table (C2) Vaturation Visible on Vaerial Imagery (C9) Value Comprehic Position (D2) Value Aquitard (D3) Vac-Neutral Test (D5) Value Calcal Cal
Hydro Wetlan Primary	Dlogy Id Indicators Indicators (Min Surface Water (A High Water Tabl Saturation (A3) Water Marks (B' Sediment Deposits (B Algal Mat or Cru Iron Deposits (B Surface Soil Cra Inundation Visib Imagery (B7) Sparsely Vegeta Surface (B8)	imum of one A1) e (A2)) its (B2) 3) st (B4) 5) cks (B6) e on Aerial		Check all th ✓ Water MLRA Salt C Aquat Hydro Oxidiz Prese Recer Tilled Stunte (D1)	at apply.) Stained L A 1,2,4A, Trust (B11) ic Invertel gen Sulfice ged Rhizos nce of Re nt Iron Rec Soils (C6 ed or Stres (LRR A) (Explain i	Leaves (B9) and 4B) orates (B13 de Odor (C1 spheres (C3 duced Iron duction in) ssed Plants n Remarks)))) 3) (C4)	W D S 	Vater Stained Leaves (B9) except VILRA 1,2,4A, and 4B) Varianage Patterns (B10) Vary-Season Water Table (C2) Vaturation Visible on Vaerial Imagery (C9) Vaeomorphic Position (D2) Vallow Aquitard (D3) Vac-Neutral Test (D5) Valised Ant Mounds (D6) (LRR A) Variance Provided Pr
Hydro Wetlan Primary Field C Surface	Dlogy Id Indicators Indicators (Min Surface Water (A High Water Tabl Saturation (A3) Water Marks (B Sediment Deposits (B Algal Mat or Cru Iron Deposits (B Surface Soil Cra Inundation Visib Imagery (B7) Sparsely Vegeta Surface (B8) Dbservations	imum of one A1) e (A2)) its (B2) 3) st (B4) 5) cks (B6) e on Aerial ted Concave	is required.	Check all th Water MLRA Salt C Aquat Hydro Oxidiz Prese Recer Tilled Stunte (D1) (at apply.) Stained L A 1,2,4A, Trust (B11) ic Invertel gen Sulfic zed Rhizos nce of Re nt Iron Rec Soils (C6 ed or Stres (LRR A) (Explain i	Leaves (B9) and 4B) orates (B13 de Odor (C1 spheres (C3 duced Iron duction in) sseed Plants n Remarks)))) 3) (C4)	W	Vater Stained Leaves (B9) except VILRA 1,2,4A, and 4B) Varianage Patterns (B10) Vary-Season Water Table (C2) Vaturation Visible on Vaerial Imagery (C9) Vaeomorphic Position (D2) Vallow Aquitard (D3) Vac-Neutral Test (D5) Valised Ant Mounds (D6) (LRR A) Variance Provided Pr

Saturation at 10 inches provides wetland hydrology.



Project/Site: Fountain Wind City/County: Shasta County Date: 10/24/17 Applicant/Owner: Avangrid State: CA Investigator(s): John Holson Section, Township, Range Sec. 32, T35N, R3E Landform (hillslope, terrace, etc.) Stream terrace Local relief (concave, convex, none) None Slope % 0 Subregion (LRR): MLRA 22B Lat: 40.853133° Long: -121.780904° Datum: NAD83 Soil Map Unit Name: Gardens-Jacksback complex, 0 to 2 percent slopes NWI Classification: N/A Are climatic/hydrologic conditions on the site typical for this time of year? [If no, explain in Remarks.] Are vegetation [Iso or hydrology] [Iso hydrology] [Iso phydrology] [Iso	Wetland Determination Data Form-Western	n Mount:	ains Vall	levs & C	Data Point Coast Region Feature Type	
Applicant/Owner: Avangend Salete: CA				•		
Section Township Range Sec 32, T35N, R3E	Project/Site: Fountain Wind				CA	Date: 10/24/17
Landtom (fillstope, lerrace, etc.) Stream terrace Local relief (concave, canvex, none), None Slope % 0						
Subregion (LRR): MLRA 22B	Investigator(s): John Holson			_ Section,	, Township, Range Sec. 32, 135N, I	13E
Soll Map Unit Name: Gardones-Jacksback complex, 0 to 2 percent slopes Arc climatichydrologic conditions on the site bycical for this time of year?	Landform (hillslope, terrace, etc.) Stream terrace	2.0504000	_ Local relie	ef (concave,	, convex, none) None	Slope %0
Are cegetation Size Size						n: NAD83
Are vegetation	Soil Map Unit Name: Gardens-Jacksback complex, 0 to	2 percent	slopes	NV	VI Classification: N/A	
Ave vegetation Soli Sor hydrology Asturally problematic? (If needed, explain in Remarks.)	· ·	-				
Summary of Findings (Attach site map showing sampling point locations, transects, important features, etc.) Hydrophytic vegetation?	Are vegetation / Soil / For hydrology / Significan	ntly disturbe	d? Are norr	nal circumst	tances present? 🗸 / 🗆	
Evaluation of features designated "Other Waters of the United States" Indicators: Defined bed and bank Scour Ordinary High Water Mark Mapped Stream Width Feature Designation: Perenhial Intermitted Ephemeral Bitue-line on USGS Quad Substrate Substrate Stream Width Substrate Subst	Are vegetation \(\scale \times \soil \square \square \text{hydrology} \square \times \text{haturally}	problemation	c? (If neede	ed, explain i	in Remarks.)	
Hydrophytic vegetation? Hydric soil? Wetland hydrology S is sampled area a wetland? Modern waters? S	Summary of Findings (Attach site man showing sampli	ing point loc	ations trans	ects impor	tant features etc.)	
Evaluation of features designated "Other Waters of the United States" Indicators:						7/\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Indicators Defined bed and bank				-		
Feature Designation: Perennial Intermittent Ephemeral Situ-line on USGS Quad Substrate						
Natural Drainage	Indicators: Defined bed and bank Scour _	Ordin	ary High Wa	iter Mark Ma	apped Stream Width	
Vegetation (Use Scientific Names)	Natural Drainage Artificial Drain	nage	Biue-iiii Navigable V	Vater	Quau Substrate	
Vegetation (Use Scientific Names) Absolute Dominant Indicator Species? Dominance Test Worksheet Tree Stratum (Plot Size:)	Pemarks	3	3		-	
Number of dominant species 1	Upland pair to DP 10 fresh emergent we	tland/pere	ennial stre	am and D	P 11 riparian wetland.	
Number of dominant species 1.						
Number of dominant species 1						
1	Vegetation (Use Scientific Names)				Dominance Test Worksheet	
2	Tree Stratum (Plot Size:)	% Cover	Species?	Status		2 (1)
2						(A)
4						(B)
Sobject Species Status S	3					100
Prevalence Index Worksheet Total % Cover of Multiply by		_			are OBL, FACW, or FAC:	(A/B)
1	50%= Total Cover:				Prevalence Index Worksheet	
2	Sapling/Shrub Stratum (Plot Size:)	% Cover	Species?	Status	Total % Cover of: Multiply b	<u>)y</u>
3	1				OBL Species x 1 =	
4	2				FACW Species x 2 =	0
4	3				FAC Species x 3 =	0
Total Cover	4					•
Herb Stratum (Plot Size: 5'	50%= Total Cover:	0			·	•
1. Junicus batilities 2. Carex sp. 3. Poa pratensis 4. Alopecurus pratensis 5. N FAC 5. Holcus lanatus 6. Phalaris sp. 7	Herb Stratum (Plot Size: 5')	% Cover	Species?	Status		
2. Calex sp. 40	1. Juncus balticus	40	Y	FACW		
4. Alopecurus pratensis 5 N FAC 5. Holcus lanatus 6. Phalaris sp. 7. Substitute	2. Carex sp.	40	Y	FAC	Prevalence Index = B/A =	_
5. Holcus lanatus 6. Phalaris sp. 7.	3. Poa pratensis	10	N	FAC	Hydrophytic Vegetation Indicator	S
5. Holous latitudes 6. Phalaris sp. 7	4. Alopecurus pratensis	5	N	FAC		egetation /
6. Phalaris sp. 7	5. Holcus lanatus	5	N	FAC_		
7	6. Phalaris sp.	5	N	UNK		(provide supporting
8 Problematic Hydrophytic Vegetation¹ (Explain) **Total Cover: 105					data in Remarks or on a sep	arate sheet)
50%=52.5						
Woody/Vine Stratum (Plot Size:) % Cover Species? Status be present. 1 Hydrophytic Vegetation Present? ✓/ 2						
1 Hydrophytic Vegetation Present? ✓ ✓ ☐ 2			Species?	Status	-) : : : - g) :
2			'		Hudronhutia Vanatatian Dasa 10	
					nyurophytic vegetation Present?	V /
3070 ZU70 I Utal CUVCI						
% Bare Ground in Herb Stratum 0 % Cover of Biotic Crust 0			0			

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JU.	,,,	

Depth	Matrix	0/		lox Features	0/	T 1	1.5.7	Толь	Demanda
inches))-2	Color (moist) 10YR 3/1	<u>%</u> 100	<u>Ca</u>	olor (moist)	<u>%</u>	<u>Type¹</u>	Loc ²	Texture Loam	Remarks Roots/organic matter
2-6	7.5YR 2.5/1	100						Loam	
6-16	7.5YR 2.5/1	100						Loam	Clay
		_							
ypes:	C = Concentration D	= Depletion	RM = R	educed Matrix	2	Location: PL	= Pore Lin	ing M = Ma	trix
ydric S	Soil Indicators: (App	olicable to a	all LRRs,	unless otherwi	ise noted)		Indicator	s for Problematic Hydric Soils
	Histosol (A1)			Sandy	Redox (S	S5)		2	cm Muck (A10)
	Histic Epipedon (A2)			Strippe	d Matrix	(S6)		R	ed Parent Materials (TF21)
	Black Histic (A3)			Loamy	Mucky M	Mineral (exce	ept	Ve	ery Shallow Dark Surface (TF12
	Hydrogen Sulfide (A	4)		MLRA	1) (F1)			Ve	egetated Sand/Gravel Bars
	Depleted Below Dar	k Surface ((A11)	Loamy	Gleyed I	Matrix (F2)		0	ther (Explain in Remarks)
	Thick Dark Surface	A12)		Deplete	ed Matrix	(F3)			
	Sandy Mucky Minera	al (S1)		Redox	Dark Sur	rface (F6)		³ Indicato	rs of hydrophytic vegetation and
	Sandy Gleyed Matrix	(S4)		Deplete	ed Dark S	Surface (F7)		wetland I	hydrology must be present.
				Redox	Depress	ions (F8)			
Restric	// // //								
1103010	tive Layer (if preser	t): Type:_			Depth (I	nches)	Hydı	ric Soil Pres	ent? /X
Remar No ind	dicators of hydric				Depth (I	nches)	Hydi	ric Soil Pres	ent? /X
Remar No ind Hydro Wetlar	dicators of hydric blogy d Indicators	soil were	e observ	ved.		nches)	Hydi		
Remar No ind Hydro Wetlar Primar	cks dicators of hydric ology nd Indicators y Indicators (Minimul	soil were	e observ	ved Check all tha	it apply.)			Secondar	y Indicators (2 or more required
Remar No inc Hydro Wetlar Primar	closed by the color of the colo	soil were	e observ	ved. Check all tha	ut apply.) Stained L	Leaves (B9)		Secondar	y Indicators (2 or more required ater Stained Leaves (B9) exce
Remar No ind Hydro Wetlar Primar	cks dicators of hydric cology nd Indicators y Indicators (Minimum Surface Water (A1) High Water Table (A	soil were	e observ	ved. Check all that Water : MLRA	it apply.) Stained L 1,2,4A,	_eaves (B9) and 4B)		Secondar W M	y Indicators (2 or more required ater Stained Leaves (B9) excel
Remar No ind Hydro Wetlar Primar	ciks dicators of hydric cology nd Indicators y Indicators (Minimum Surface Water (A1) High Water Table (A) Saturation (A3)	soil were	e observ	ved. Check all tha Water : MLRA Salt Cr	st apply.) Stained L 1,2,4A, ust (B11)	_eaves (B9) and 4B)	except	Secondar W D	y Indicators (2 or more required later Stained Leaves (B9) excel ILRA 1,2,4A, and 4B) rainage Patterns (B10)
Remar No ind Hydro Wetlar Primar	closed by the color of the colo	soil were	e observ	ved. Check all tha Water: MLRA Salt Cr	stained L 1,2,4A, ust (B11)	Leaves (B9) and 4B) orates (B13)	except	<u>Secondar</u> W Di Di	y Indicators (2 or more required ater Stained Leaves (B9) excel ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2)
Remar No ind Hydro Wetlar Primar	classical discators of hydrical discators of hydrical discators of hydrical discators of linear discators (Minimum discators (M	soil were	e observ	ved. Check all that Water to MLRA Salt Cr Aquation Hydrog	st apply.) Stained L 1,2,4A, ust (B11) C Inverted Jen Sulfid	Leaves (B9) and 4B) orates (B13) de Odor (C1)	except	Secondar W M Di Di Si	y Indicators (2 or more required later Stained Leaves (B9) excel ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on
Remar No ind Hydro Wetlar Primar	closure of hydric cology and Indicators (Minimum Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3)	soil were m of one is 2)	e observ	ved. Check all that Water: MLRA Salt Cr Aquatic Hydrog Oxidize	stained L 1,2,4A, ust (B11) c Inverteb gen Sulfid	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3	except	Secondar W N Di Control Signature	y Indicators (2 or more required fater Stained Leaves (B9) excell ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9)
Remar No ind Hydro Wetlar Primar	closed by the color of the colo	soil were m of one is 2)	e observ	ved. Check all that Water: MLRA Salt Cr Aquation Hydrog Oxidize	stained L 1,2,4A, ust (B11) c Inverted gen Sulfid ed Rhizos ace of Re	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (except	Secondar W Di Di Si A	y Indicators (2 or more required fater Stained Leaves (B9) excell ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2)
Remar No ind Hydro Wetlar Primar	ciks dicators of hydric cology d Indicators y Indicators (Minimum Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (E Iron Deposits (B5)	m of one is 2) B2)	e observ	ved. Check all that Water: MLRA Salt Cr Aquation Hydrog Oxidize Presen	st apply.) Stained L 1,2,4A, ust (B11) Inverted Jen Sulfided Rhizos uce of Receit Iron Recei	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (except	Secondar W M Di Si A G SI	y Indicators (2 or more required later Stained Leaves (B9) excel ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) nallow Aquitard (D3)
Remar No ind Hydro Wetlar Primar	closed by the color of the colo	soil were m of one is 2) B2) (B6)	e observ	ved. Check all that Water: MLRA Salt Cr Aquation Hydrog Oxidize Present Recent	stained L 1,2,4A, ust (B11) c Inverted gen Sulfided Rhizos ace of Rec t Iron Rec Soils (C6	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in	except	Secondar 	y Indicators (2 or more required fater Stained Leaves (B9) excell flace 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) faturation Visible on ferial Imagery (C9) fleomorphic Position (D2) finallow Aquitard (D3) flace (D5)
Remar No ind Hydro Wetlar Primar	cicks dicators of hydric cology d Indicators y Indicators (Minimum Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks Inundation Visible or	soil were m of one is 2) B2) (B6)	e observ	. Check all that . Water S . MLRA . Salt Cr . Aquation . Hydrog . Oxidize . Presen . Recent . Tilled S . Stunted	stained L 1,2,4A, ust (B11) c Inverted gen Sulfid ed Rhizos ace of Rec i Iron Rec Soils (C6	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (except	Secondar	y Indicators (2 or more required atter Stained Leaves (B9) excellar 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A)
Remar No ind Hydro Wetlar Primar	ciks dicators of hydric cology d Indicators y Indicators (Minimum Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (E Iron Deposits (B5) Surface Soil Cracks Inundation Visible or Imagery (B7)	m of one is 2) B2) B4) (B6) A Aerial	e observ	ved. Check all that Water: MLRA Salt Cr Aquation Hydrog Oxidize Present Recent Tilled: Stunted (D1) (L	st apply.) Stained L 1,2,4A, ust (B11) c Inverted gen Sulfid ed Rhizos ace of Rea t Iron Rea Soils (C6 d or Stres LRR A)	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in) ssed Plants	except	Secondar	y Indicators (2 or more required fater Stained Leaves (B9) excell flace 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) faturation Visible on ferial Imagery (C9) fleomorphic Position (D2) finallow Aquitard (D3) flace (D5)
Remar No ind Hydro Wetlar Primar	cicks dicators of hydric cology d Indicators y Indicators (Minimum Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks Inundation Visible or	m of one is 2) B2) B4) (B6) A Aerial	e observ	ved. Check all that Water: MLRA Salt Cr Aquation Hydrog Oxidize Present Recent Tilled: Stunted (D1) (L	st apply.) Stained L 1,2,4A, ust (B11) c Inverted gen Sulfid ed Rhizos ace of Rea t Iron Rea Soils (C6 d or Stres LRR A)	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in	except	Secondar	y Indicators (2 or more required atter Stained Leaves (B9) excellar 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A)
Remar No ind Hydro Wetlar Primar	closure of hydric cology and Indicators (Minimum Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks Inundation Visible or Imagery (B7) Sparsely Vegetated	m of one is 2) B2) (B6) Aerial Concave	e observ	ved. Check all that Water: MLRA Salt Cr Aquation Hydrog Oxidize Present Recent Tilled: Stunted (D1) (L	st apply.) Stained L 1,2,4A, ust (B11) c Inverted gen Sulfid ed Rhizos ace of Rea t Iron Rea Soils (C6 d or Stres LRR A)	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in) ssed Plants	except () () (C4)	Secondar —— W M —— Di —— Sa —— G —— SI —— F/ —— Fr	y Indicators (2 or more required fater Stained Leaves (B9) excellar 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
Remar No ind Hydro Wetlar Primar	closure of hydric cology and Indicators of hydric cology and Indicators (Minimus Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks Inundation Visible or Imagery (B7) Sparsely Vegetated Surface (B8)	m of one is 2) B2) (B6) Aerial Concave	e observ	ved. Check all that Water to MLRA Salt Cr Aquation Hydrog Oxidized Present Recent Tilled to Stunted (D1) (I	st apply.) Stained L 1,2,4A, ust (B11) c Inverted gen Sulfid ed Rhizos ace of Rec i Iron Rec Soils (C6 d or Stres _RR A) [Explain in	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in) ssed Plants n Remarks)	except () () (C4)	Secondar	y Indicators (2 or more required fater Stained Leaves (B9) excellar 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
Remar No inco	chicators of hydricators of hydricators of hydricators of Indicators of Indicators of Indicators of Indicators (Minimum Surface Water (A1) High Water Table (A1) High Water Table (A2) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B2) Iron Deposits (B5) Surface Soil Cracks Inundation Visible or Imagery (B7) Sparsely Vegetated Surface (B8) Deservations	m of one is 2) B2) (B6) A Aerial Concave	e observ	ved. Check all that Water : MLRA Salt Cr Aquatic Hydrog Oxidize Presen Recent Tilled : Stunted (D1) (I	st apply.) Stained L 1,2,4A, ust (B11) c Inverted gen Sulfid ed Rhizos ace of Rec i Iron Rec Soils (C6 d or Stres _RR A) [Explain in	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in) ssed Plants n Remarks)	except () () (C4)	Secondar W M Di Si A G SI Fr Ri	y Indicators (2 or more required fater Stained Leaves (B9) excellar 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)

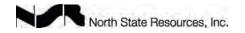


			_		Data Point		13	
Wetland Determination Data Form-Wes	tern Mount	•						
Project/Site: Fountain Wind		City/County	Shasta (County		Date:	10/24/17	
Applicant/Owner: Avangrid				State: CA_				
			_ Section	, Township, Range <u>Sec.</u>	29, T35N, F	R3E		
Landform (hillslope, terrace, etc.) Stream terrace		_ Local reli	ef (concave	, convex, none) None		Slope %		
Subregion (LRR): MLRA 22B Lat:					Datum	ı: NAI	D83	
Soil Map Unit Name: Gardens-Jacksback complex,	0 to 2 percent	slopes	N\	WI Classification: PEMC	1			
Are climatic/hydrologic conditions on the site typical for the	his time of year?	$\sqrt{ \mathcal{J} }$ (If r	no, explain i	n Remarks.)				
Are vegetation □/⊠soil □/⊠or hydrology□/⊠sigr	ificantly disturbe	ed? Are norr	mal circums	stances present?				
Are vegetation \(\sum \subseteq \subseteq \subseteq \subseteq \subseteq \subseteq \lambda \text{Nature} \)								
Summary of Findings (Attach site map showing sa	ampling point loc	eations trans	eacts impai	tant foatures etc.)				
Hydrophytic vegetation? Hydric soil? Hydric soil?					or waters?	M		
					er waters?			
Evaluation of features designated "Other W								
Indicators: Defined bed and bank Sco Feature Designation: Perennial Intermittent	our Ordin	ary High Wa	ater Mark M	apped Stream Wid	th			
Natural Drainage Artificial	Ephemeral Drainage	Bide-iiii Navigable \	Nater	- Substrate				
Remarks								
Remarks _{DP} documents wetland meadow adj	acent to Carb	erry Cree	K.					
				1				
Vegetation (Use Scientific Names)	Absolute	Dominant		Dominance Test Wor				
Tree Stratum (Plot Size:)	<u>% Cover</u>	Species?	Status	Number of dominant sp that are OBL, FACW, or		3	(A)	
1				Total number of domin			(A)	
2				across all strata:	· _	3	(B)	
3				Percent of dominant spare OBL, FACW, or FA		100	(A/B)	
4.	0			are OBL, I ACW, OF I A			(A/D)	
50%=	JVCI	0 1 0	CL I	Prevalence Index Wo				
Sapling/Shrub Stratum (Plot Size:15') 1 Salix lasiolepis	<u>% Cover</u> 10	Species? Y	FACW	Total % Cover of:		_		
				OBL Species		_	_	
2				FACW Species	x 2 =		_	
3					x 3 =		_	
4				FACU Species	x 4 =	0		
50%= <u>5</u> 20%= <u>2</u> Total Co				UPL Species	x 5 =	0	_	
Herb Stratum (Plot Size: 5'	% Cover	Species?		Column Totals			(B)	
1. Juncus effusus	75	<u>Y</u>	FACW	Prevalence Index = B/A				
2. Mentha spicata		<u>Y</u>	FACW					
3. Carex sp.		_N	FAC	Hydrophytic Vegetation				
4. Holcus lanatus	3	N	FAC	Rapid Test for F		egetatio	ın	
5. Drymocallis glandulosa	2	N	FAC	Prevalence Inde	$ex is \le 3.01$			
6. Veronica americana	1	N	OBL	Morphological A				
7				data in Remarks			eet)	
8				Problematic Hyd	drophytic Veg	jetation ¹		
50%=53 20%=_13.2 Total Co	over:			¹ Indicators of hydric so				
Woody/Vine Stratum (Plot Size:)	% Cover	Species?	Status	be present.				
1				Hydrophytic Vegetati	on Present?	√ /		
2								
	over:0			i				

\sim		1
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Depth inches)	Matrix <u>Color (moist)</u>	%	Redox Featur Color (mois		Type ¹	Loc ²	<u>Texture</u>	<u>Remarks</u>
)-6	7.5YR 3/2	100	_				Loam	Clay, some cobble
5-10	7.5YR 2.5/1	100	5YR 4/4	10	<u>C</u>	<u>M</u>	Clay	some cobble
Vnes:	C = Concentration D =	- Denletion	RM = Reduced Ma	trix		 I = Pore Lir	ning M = Ma	atrix
	oil Indicators: (App					L 1 010 EII		s for Problematic Hydric Soils
	Histosol (A1)	iicabie to i		ndy Redox (cm Muck (A10)
	Histic Epipedon (A2)			ipped Matrix				ed Parent Materials (TF21)
	Black Histic (A3)			amy Mucky I		ept		ery Shallow Dark Surface (TF12)
_	Hydrogen Sulfide (A4	1)		. RA 1) (F1)	(1			egetated Sand/Gravel Bars
	Depleted Below Dark	-		amy Gleyed	Matrix (F2)			ther (Explain in Remarks)
	Thick Dark Surface (A	412)	De	pleted Matri	x (F3)			
	Sandy Mucky Minera	I (S1)	Re	dox Dark Su	ırface (F6)		³ Indicato	ors of hydrophytic vegetation and
	Sandy Gleyed Matrix	(S4)	De	pleted Dark	Surface (F7)	wetland	hydrology must be present.
			Re	dox Depress	sions (F8)			
D. dalah		·). Tupo.		Donth /	(Inches)	Llud	ric Soil Pres	ont? //
Remar Soils I	had a hydrogen s				, ,			
Remar Soils I Hydro Wetlan	ks had a hydrogen s	ulfide od	lor and meet the	requirem	ents for in		A4 Hydrog	
Remar Soils I Hydro Wetlan Primary	had a hydrogen s Dlogy Ind Indicators y Indicators (Minimum	ulfide od	lor and meet the	requirem	ents for in	dicator A	A4 Hydrogo Secondar	en Sulfide. y Indicators (2 or more required)
Remar Soils I Hydro Wetlan Primary	had a hydrogen s plogy Ind Indicators y Indicators (Minimum Surface Water (A1)	ulfide od	lor and meet the required. Check a	e requirem	ents for in	dicator A	A4 Hydrogo Secondar	en Sulfide. y Indicators (2 or more required) /ater Stained Leaves (B9) excep
Remar Soils I Hydro Wetlan Primary	ks had a hydrogen s plogy d Indicators y Indicators (Minimun Surface Water (A1) High Water Table (A2)	ulfide od	lor and meet the required. Check a	e requirement that apply.) If that apply.) Iter Stained LRA 1,2,4A,	ents for in	dicator A	Secondar	en Sulfide. y Indicators (2 or more required) /ater Stained Leaves (B9) excep //LRA 1,2,4A, and 4B)
Remar Soils I Hydro Wetlan Primary	had a hydrogen s plogy Ind Indicators y Indicators (Minimum Surface Water (A1)	ulfide od	required. Check a	e requirem If that apply.) Iter Stained LRA 1,2,4A, It Crust (B11	ents for in Leaves (B9) and 4B)	dicator A	Secondar M L	en Sulfide. y Indicators (2 or more required) /ater Stained Leaves (B9) excep
Remar Soils I Hydro Wetlan Primary	had a hydrogen s plogy Ind Indicators y Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3)	ulfide od	required. Check a	e requirement that apply.) If that apply.) Iter Stained LRA 1,2,4A,	ents for in Leaves (B9) and 4B) brates (B13)	dicator A	Secondar —— W M —— D	en Sulfide. y Indicators (2 or more required) /ater Stained Leaves (B9) excep //LRA 1,2,4A, and 4B) rainage Patterns (B10)
Remar Soils I Hydro Wetlan Primary	had a hydrogen s plogy Ind Indicators Y Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	ulfide od	required. Check a	e requirement that apply.) Heater Stained LRA 1,2,4A, It Crust (B11 uatic Inverte	ents for in Leaves (B9) and 4B)) brates (B13) de Odor (C1	dicator A	Secondar W M D Compared to the second secon	en Sulfide. y Indicators (2 or more required) /ater Stained Leaves (B9) excep /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2)
Remar Soils I Hydro Wetlan Primar	had a hydrogen s blogy Id Indicators Y Indicators (Minimum Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B	ulfide od	required. Check a	e requirement that apply.) If that apply.) Iter Stained LRA 1,2,4A, It Crust (B11 uatic Inverted	ents for in Leaves (B9) and 4B) brates (B13 de Odor (C1) spheres (C3)	dicator A	Secondar —— W M —— D —— S	en Sulfide. y Indicators (2 or more required) /ater Stained Leaves (B9) excep /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on
Remar Soils I Hydro Wetlan Primary	had a hydrogen s plogy Id Indicators Y Indicators (Minimum Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5)	ulfide od	required. Check a W N Sa Ac V Hy Dr	e requirement that apply.) If that apply.) Iter Stained LRA 1,2,4A, It Crust (B11) uatic Inverted drogen Sulfiidized Rhizo	ents for in Leaves (B9) and 4B) brates (B13) de Odor (C1) espheres (C3)	dicator A	Secondar W D C S G G S S	en Sulfide. y Indicators (2 or more required) /ater Stained Leaves (B9) excep /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) teomorphic Position (D2) hallow Aquitard (D3)
Remar Soils I Hydro Wetlan Primary	had a hydrogen s plogy Id Indicators Iy Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B1) Iron Deposits (B5) Surface Soil Cracks (ulfide od n of one is 2) 32) 4)	required. Check a —— W M —— Sa —— Ac —— Hy —— Pr —— Ro	e requirement that apply.) That	ents for in Leaves (B9) and 4B) brates (B13 de Odor (C1 espheres (C3 educed Iron eduction in 6)	dicator A	Secondar Secondar M M Compared to the secondar of the seco	en Sulfide. y Indicators (2 or more required) /ater Stained Leaves (B9) excep /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5)
Remar Soils I Hydro Wetlan Primary	had a hydrogen s plogy Ind Indicators Y Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on	ulfide od n of one is 2) 32) 4)	required. Check a W N Ac Y Hy Check a T St St	e requirement that apply.) ater Stained LRA 1,2,4A, It Crust (B11 uatic Inverted drogen Sulficitized Rhizo esence of Recent Iron Recent Iron Recent Iron Recented or Streen	ents for in Leaves (B9) and 4B) brates (B13 de Odor (C1 espheres (C3 educed Iron eduction in 6)	dicator A	Secondar Secondar M D S G F R	en Sulfide. y Indicators (2 or more required) /ater Stained Leaves (B9) except /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) reomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A)
Remar Soils I Hydro Wetlan Primary	had a hydrogen s blogy Id Indicators Y Indicators (Minimum Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Imagery (B7)	ulfide od n of one is 2) 32) 4) (B6) Aerial	required. Check a —— W M —— Sa —— Ac —— Pr —— Ro —— St —— ([e requirement that apply. It that ap	ents for in Leaves (B9) and 4B)) brates (B13 de Odor (C1 espheres (C1 educed Iron eduction in 6)	dicator A	Secondar Secondar M D S G F R	en Sulfide. y Indicators (2 or more required) /ater Stained Leaves (B9) excep /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5)
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Water table at 4 inches provides wetland hydrology.



Wetland Determination Data Form-Weste					Data Point		
	rn Mount	ains, Val	leys, & (Feature Type	Uplar	nd	
Project/Site: Fountain Wind		City/County	: Shasta (County		Date:	10/24/17
Applicant/Owner: Avangrid				State: C	CA		_
Investigator(s): Gabe Youngblood			_ Section	n, Township, Range _S	Sec. 29, T35N, I	R3E	
Landform (hillslope, terrace, etc.) Hillslope		_ Local relie	ef (concave	e, convex, none) Con	vex	Slope	%2
Subregion (LRR): MLRA 22B Lat:	40.853612°		Long:_	-121.782094°	Datun	n: <u>N</u> A	AD83
Soil Map Unit Name: Gardens-Jacksback complex, 0 t	o 2 percent	slopes	N\	WI Classification: N/A	\		
Are climatic/hydrologic conditions on the site typical for this	time of year?	$\sqrt{ \mathcal{J} }$ (If r	o, explain i	in Remarks.)			
Are vegetation□/⊠soil□/⊠or hydrology□/⊠signific	antly disturbe	ed? Are norr	nal circums	stances present?			
Are vegetation []/[X]soil []/[X]or hydrology[]/[X]hatural	-						
Summary of Findings (Attach site map showing sam	nling point lo	eations trans	cocte impo	rtant foatures, etc.)			
Hydrophytic vegetation? Hydrophytic soil? Wetlan					hthor waters?		
			<u> </u>	ea a wellanu! LNZ	Dillel Waters?		
Evaluation of features designated "Other Wat					140 III		
Indicators: Defined bed and bank Scour Feature Designation: Perennial Intermittent I							
Natural Drainage Artificial Dra	inage	Navigable \	Vater				
Remarks DD days and a days are in a second	l <i>t</i> :			-ll' + +			
Remarks DP documents uplands in previously p	iaced fill as	ssociated v	vith a roa	d adjacent to a we	et meadow.		
Variable in (U.S. Calantific Names)				I			
Vegetation (Use Scientific Names) Free Stratum (Plot Size:)	Absolute <u>% Cover</u>	Dominant Species?		Dominance Test			
		•	Status	Number of domina that are OBL, FAC		1	_ (A)
l •					W. ULFAC.		
				Total number of do			
2.				Total number of do across all strata:	ominant species	3	_ (B)
2 3				Total number of do across all strata: Percent of domina	ominant species nt species that		_ (B)
2				Total number of do across all strata: Percent of domina are OBL, FACW, o	ominant species nt species that or FAC:	3	
2	r:			Total number of do across all strata: Percent of domina are OBL, FACW, of Prevalence Index	ominant species nt species that or FAC: Worksheet	3 33	_ (B)
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2	r: 0 <u>% Cover</u>	Species?	Status	Total number of do across all strata: Percent of domina are OBL, FACW, of Prevalence Index Total % Cover of: OBL Species	ominant species — Int species that or FAC: Worksheet Multiply t x 1 =	3 33 0 <u>y</u> 0	_ (B)
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rofile D Depth	escription: (D Matri		to the		eeded to docume Redox Features	ent the ind	dicator or co	nfirm the a	absence of i	ndicators.
inches) 0-14	Color (m 7.5YR 3/4		<u>%</u> 100		Color (moist)	<u>%</u>	<u>Type¹</u>	Loc ²	Texture Loam	Remarks Gravelly
Гуреs: (C = Concentratio	n D = [Depletion	n RM=	Reduced Matrix	2	Location: PL	. = Pore Lin	ning M = Ma	trix
ydric S	oil Indicators:	(Applic	cable to	all LRR	s, unless otherw	ise noted	i)		Indicator	s for Problematic Hydric Soils
I	Histosol (A1)				Sandy	Redox (S	S5)		2	cm Muck (A10)
	Histic Epipedor	n (A2)			Strippe	ed Matrix	(S6)		R	ed Parent Materials (TF21)
	Black Histic (A3	3)			Loamy	Mucky N	Mineral (exc e	ept	Ve	ery Shallow Dark Surface (TF12
l	Hydrogen Sulfic	de (A4)			MLRA	1) (F1)			Ve	egetated Sand/Gravel Bars
[Depleted Below	v Dark S	Surface	(A11)	Loamy	Gleyed I	Matrix (F2)		0	ther (Explain in Remarks)
	Thick Dark Surf	face (A´	12)		Deplet	ed Matrix	(F3)			
	Sandy Mucky N	/lineral ((S1)		Redox	Dark Su	rface (F6)		³ Indicato	rs of hydrophytic vegetation and
	Sandy Gleyed I	Matrix (S4)		Deplet	ed Dark S	Surface (F7)		wetland I	hydrology must be present.
					Redox	Depress	ions (F8)			
Doctrio	tive Layer (if p	resent):	Type:			Depth (I	Inches)	Hydı	ric Soil Pres	ent? /X
Resulci						• •	-			
Remarl	ks dicators of hy	/dric s	oils we	ere obs	served.					
Remark No inco	dicators of hy blogy d Indicators									
Remark No inco	dicators of hy blogy d Indicators				served. ed. Check all tha	at apply.)			Secondar	y Indicators (2 or more required
No incomplete Hydrowellan Primary	dicators of hy blogy d Indicators	nimum			ed. Check all tha		_eaves (B9)	except		y Indicators (2 or more required ater Stained Leaves (B9) excep
No incomplete Hydro Wetlan Primary	dicators of hy blogy d Indicators / Indicators (Mi	nimum (A1)	of one i		ed. Check all tha			except	W	•
Remark No inco	blogy d Indicators (Mi	nimum (A1) ble (A2)	of one i		ed. Check all tha Water MLRA	Stained L	and 4B)	except	W	/ater Stained Leaves (B9) excep
Remark No inco Hydro Wetlan Primary	blogy d Indicators n Indicators (Mi Surface Water High Water Tab Saturation (A3) Water Marks (E	nimum (A1) ble (A2)	of one i		ed. Check all that Water MLRA Salt Cr	Stained L 1,2,4A, rust (B11) c Inverteb	and 4B)) brates (B13)	·	W Di	/ater Stained Leaves (B9) excep ILRA 1,2,4A, and 4B)
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Remark No inco Hydro Wetlan Primary	blogy d Indicators / Indicators (Mi) Surface Water High Water Tak Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (I Algal Mat or Cre Iron Deposits (I Surface Soil Cr	nimum (A1) ble (A2) 31) sits (B2) B3) ust (B4) B5) acks (B	of one i 2))		ed. Check all that Water MLRA Salt Cr Aquati Hydroq Oxidize Preser Recen Tilled	Stained L 1,2,4A, rust (B11) c Invertel gen Sulfice ed Rhizos nce of Re t Iron Rec Soils (C6	and 4B) brates (B13) de Odor (C1) spheres (C3 duced Iron (duction in))	W Di Si Si Si	Vater Stained Leaves (B9) exception of the American American (B10) rainage Patterns (B10) ry-Season Water Table (C2) atturation Visible on the American Imagery (C9) eomorphic Position (D2) shallow Aquitard (D3) AC-Neutral Test (D5)
Remark No inco Hydro Wetlan Primary	dicators of hyblogy d Indicators / Indicators (Minus) Surface Water High Water Tab Saturation (A3) Water Marks (E) Sediment Depo Drift Deposits (I) Algal Mat or Cri Iron Deposits (I) Surface Soil Cri Inundation Visit	nimum (A1) ble (A2) 31) sits (B2) B3) ust (B4) B5) acks (B	of one i 2))		ed. Check all that Water MLRA Salt Cr Aquati Hydrog Oxidize Preser Recen Tilled Stunte	Stained L A 1,2,4A, rust (B11) c Inverted gen Sulficed Rhizos nce of Re t Iron Rec Soils (C6 d or Stres	and 4B)) brates (B13) de Odor (C1) spheres (C3 duced Iron (duction in))	W Di Si G SI F/	Vater Stained Leaves (B9) exception of the company
Remark No ince Hydro Wetlan Primary	blogy d Indicators / Indicators (Mi Surface Water High Water Tak Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (I Algal Mat or Cr Iron Deposits (I Surface Soil Cr Inundation Visil Imagery (B7)	nimum (A1) ble (A2) B1) sits (B2) B3) ust (B4) B5) acks (B ble on A	of one i 2) 36) Aerial	is require	ed. Check all that Water MLRA Salt Cr Aquatir Hydrog Oxidize Preser Recen Tilled Stunte (D1) (Stained L A 1,2,4A, rust (B11) c Inverted gen Sulfice ed Rhizos nce of Re t Iron Rec Soils (C6 d or Stres LRR A)	and 4B)) brates (B13) de Odor (C1) spheres (C3 duced Iron (duction in b) ssed Plants))	W Di Si G SI F/	Vater Stained Leaves (B9) exception of the American American (B10) rainage Patterns (B10) ry-Season Water Table (C2) atturation Visible on the American Imagery (C9) eomorphic Position (D2) shallow Aquitard (D3) AC-Neutral Test (D5)
Remark No inco Hydro Wetlan Primary	dicators of hyblogy d Indicators / Indicators (Minus) Surface Water High Water Tab Saturation (A3) Water Marks (E) Sediment Depo Drift Deposits (I) Algal Mat or Cri Iron Deposits (I) Surface Soil Cri Inundation Visit	nimum (A1) ble (A2) B1) sits (B2) B3) ust (B4) B5) acks (B ble on A	of one i 2) 36) Aerial	is require	ed. Check all that Water MLRA Salt Cr Aquatir Hydrog Oxidize Preser Recen Tilled Stunte (D1) (Stained L A 1,2,4A, rust (B11) c Inverted gen Sulfice ed Rhizos nce of Re t Iron Rec Soils (C6 d or Stres LRR A)	and 4B) brates (B13) de Odor (C1) spheres (C3 duced Iron (duction in))	W Di Si G SI F/	Vater Stained Leaves (B9) exception of the complete staining of the com
Remark No inco Hydro Wetlan Primary	blogy d Indicators / Indicators (Mi) Surface Water High Water Tak Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (I Algal Mat or Cri Iron Deposits (I Surface Soil Cr Inundation Visil Imagery (B7) Sparsely Veget Surface (B8)	nimum (A1) ble (A2) B1) sits (B2) B3) ust (B4) B5) acks (B ble on A	of one i 2) 36) Aerial	is require	ed. Check all that Water MLRA Salt Cr Aquatir Hydrog Oxidize Preser Recen Tilled Stunte (D1) (i	Stained L 1,2,4A, rust (B11) c Inverted gen Sulfice ed Rhizos nce of Re t Iron Rec Soils (C6 d or Stres LRR A) (Explain i	and 4B)) brates (B13) de Odor (C1) spheres (C3) duced Iron (duction in b) ssed Plants in Remarks)) (C4)	W Di Si G SI Fr Fr	Vater Stained Leaves (B9) exception of the control
Remark No inco Hydro Wetlan Primary	blogy d Indicators / Indicators (Mi Surface Water High Water Tak Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (I Algal Mat or Cr Iron Deposits (I Surface Soil Cr Inundation Visil Imagery (B7) Sparsely Veget Surface (B8)	nimum (A1) (A1) (B1) (B2) (B3) (B4) (B5) (B4) (B6) (B6) (B6) (B6) (B7) (B7) (B7) (B7) (B7) (B7) (B7) (B7	of one i	is require	ed. Check all that Water MLRA Salt Cr Aquati Hydrog Oxidize Preser Recen Tilled Stunte (D1) (i	Stained I 1,2,4A, rust (B11) c Invertel gen Sulfic ed Rhizos nce of Re t Iron Rec Soils (C6 d or Stres LRR A) (Explain i	and 4B)) brates (B13) de Odor (C1) spheres (C3) duced Iron (duction in b) ssed Plants in Remarks)) (C4)	W Di Si G SI F/	Vater Stained Leaves (B9) exception of the control
Remark No inco Hydro Wetlan Primary	blogy d Indicators / Indicators (Mi) Surface Water High Water Tak Saturation (A3) Water Marks (E Sediment Depo Drift Deposits (I Algal Mat or Cri Iron Deposits (I Surface Soil Cr Inundation Visil Imagery (B7) Sparsely Veget Surface (B8)	nimum (A1) ble (A2) B1) bits (B2) B3) ust (B4) B5) acks (B bite on A	of one i	is require	ed. Check all that Water MLRA Salt Cr Aquati Hydrog Oxidize Preser Recen Tilled Stunte (D1) (i	Stained L A 1,2,4A, rust (B11) c Invertel gen Sulfic ed Rhizos nce of Re t Iron Rec Soils (C6 d or Stres LRR A) (Explain i	and 4B)) brates (B13) de Odor (C1) spheres (C3) duced Iron (duction in b) ssed Plants in Remarks)) (C4)	W M Di Si G SI Fr Fr	Vater Stained Leaves (B9) exception of the control

Saturation at 6 inches provides wetland hydrology.

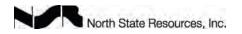


Wetland Determination Data Form-We	estern N	/lounta	ins, Vall	eys, & C	Data Point Coast Region Feature Type		egetated Ditch
Project/Site: Fountain Wind			City/County	Shasta C	county	Date:	10/24/17
Δvangrid					ου L CΔ		
Investigator(s): Gabe Youngblood					Township, Range Sec. 32, T35N,	R3E	
Landform (hillslope, terrace, etc.) Drainage			Local relie	ef (concave,	convex, none) Concave	Slope 9	₆ 2
Subregion (LRR): MLRA 22B Lat	t: 40.85	53041°			-121.781886° Datu		
Soil Map Unit Name: _Gardens-Jacksback complex		ercent		0			
Are climatic/hydrologic conditions on the site typical for	r this time	of vear?	✓/ (If n	o. explain ir	n Remarks.)		
Are vegetation Nasoil Nasoil National Are vegetation							
Are vegetation \(\setminus \) \(\setminus \) or hydrology \(\setminus \) Are vegetation \(\setminus \) \(\setminus \) or hydrology \(\setminus \) Are vegetation \(\setminus \) \(\setminus \) or hydrology \(\setminus \) Are vegetation \(\setminus \) \(\setminus \) or hydrology \(\setminus \) \(\setminus \) \(\setminus \) are vegetation \(\setminus \) \(\setminus \) \(\setminus \) or hydrology \(\setminus \) \(0				•		
Summary of Findings (Attach site map showing							
Hydrophytic vegetation? ✓ ☐ Hydric soil? ✓/ ☐ W	Vetland hy	drology?	√	ampled are	a a wetland? V Dther waters?		
Evaluation of features designated "Other Indicators: Defined bed and bank Seature Designation: Perennial Intermittent Natural Drainage Artificia	Scour Epher al Drainage	_ Ordina meral _ \ e _ _	ary High Wa Blue-line Navigable V	ter Mark Ma e on USGS Vater	Quad Substrate Rock		
Remarks DP documents OHWM of a non-ve	egetated	ditch or	n the uphi	ll side of a	a dirt road.		
Vegetation (Use Scientific Names)		bsolute	Dominant		Dominance Test Worksheet		
Tree Stratum (Plot Size:)	<u>%</u>	<u>Cover</u>	Species?	Status	Number of dominant species that are OBL, FACW, or FAC: _		(Δ)
1					Total number of dominant species		(八)
2					across all strata:		(B)
3					Percent of dominant species that are OBL, FACW, or FAC:		(A/R)
4		0			die OBE, i Now, oi i No.		(110)
50%=		Cover	Species?	Status	Prevalence Index Worksheet Total % Cover of: Multiply	<u>by</u>	
1					OBL Species x 1 =	0	_
2					FACW Species x 2 =	0	_
3					FAC Species x 3 =	_	
4					FACU Species x 4 =		
50%= Total (Cover: _	0			UPL Species x 5 =		
Herb Stratum (Plot Size:)	%	Cover	Species?	Status	Column Totals (A)		— (B)
1					Prevalence Index = B/A =		(D)
2					r revalence index – D/A –		
3					Hydrophytic Vegetation Indicato		
4					Rapid Test for Hydrophytic Dominance Test is >50%	Vegetatio	on
5					Prevalence Index is < 3.01		
6					Morphological Adaptations ¹		
7					data in Remarks or on a se		ieet)
8					Wetland Non-Vascular Plan Problematic Hydrophytic Ve		1 (Explain)
50%= Total 0					¹ Indicators of hydric soil and wetland		
Woody/Vine Stratum (Plot Size:)	%	Cover	Species?	Status	be present.		
1					Hydrophytic Vegetation Present	? []/X	
2.					J F J. 10 10 30 10 11 10 30 11		•
	Cover: _						
% Bare Ground in Herb Stratum 14 % Cover	of Biotic	Crust	0				

_		
50	۱ı	c
- 71	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, n

Profile De Depth (inches)	scription: (Describe Matrix Color (moist)	R	eeded to docume edox Features Color (moist)	ent the inc	dicator or co Type ¹	nfirm the a	absence of indica Texture	ators. Remarks
(11101103)	<u>00101 (1110131)</u>	<u></u>	00101 (1110131)	_/0_	<u> 1 </u>	LOC	Texture	<u>rtemarks</u>
					-			
1 _{Typos:} C	= Concentration D =	Donlotion DM -	Poducod Matrix	2	Location: DI	– Poro Lin	ning M = Matrix	
	il Indicators: (Appli	•				. = FUIE LIII		Droblomatic Hudric Soils
•	istosol (A1)	Cable to all LKK	s, unless otherw Sandy		•		2 cm N	Problematic Hydric Soils ³
	istic Epipedon (A2)		•	ed Matrix	-			arent Materials (TF21)
	lack Histic (A3)				(30) Iineral (exc e	ont		Shallow Dark Surface (TF12)
	ydrogen Sulfide (A4)		,	1) (F1)	iiileiai (exc	ερι	-	ated Sand/Gravel Bars
	epleted Below Dark				Matrix (F2)		_	(Explain in Remarks)
	epieted Below Bark hick Dark Surface (A		Deplet	-			Other	(Ехріані ін Кеніатку)
	andy Mucky Mineral	,	•		face (F6)		3Indicators of	hydrophytic vegetation and
	andy Gleyed Matrix (Surface (F7)			ology must be present.
3	andy Gleyed Matrix	(34)	Redox				welland frydri	blogy must be present.
				Бергеззі	10113 (1 0)			
Restricti	ve Layer (if present)	: Type:		Depth (I	nches)	Hydi	ric Soil Present?	\times
	ot evaluated othe	er waters lead	ure.					
Hydrol	ogy							
	I Indicators Indicators (Minimum	of one is require	ed. Check all tha	at apply.)			Secondary Inc	licators (2 or more required)
S	urface Water (A1)		Water	Stained L	eaves (B9)	except	Water	Stained Leaves (B9) except
	igh Water Table (A2))		1,2,4A,		•		A 1,2,4A, and 4B)
	aturation (A3)			rust (B11)			_ √ _ Draina	nge Patterns (B10)
W	/ater Marks (B1)		Aquati	c Inverteb	orates (B13)			eason Water Table (C2)
S	ediment Deposits (B	2)	Hydrog	gen Sulfid	le Odor (C1))	Satura	ation Visible on
_ √ _ D	rift Deposits (B3)		Oxidize	ed Rhizos	spheres (C3))	Aerial	Imagery (C9)
A	lgal Mat or Crust (B4)	Preser	nce of Re	duced Iron (C4)	Geom	orphic Position (D2)
Ir	on Deposits (B5)		Recen	t Iron Red	duction in		Shallo	w Aquitard (D3)
S	urface Soil Cracks (E	36)	Tilled	Soils (C6)		FAC-N	leutral Test (D5)
Ir	nundation Visible on A	Aerial	Stunte	d or Stres	ssed Plants		Raised	d Ant Mounds (D6) (LRR A)
li	magery (B7)		(D1) (LRR A)			Frost-I	Heave Hummocks (D7)
S	parsely Vegetated C	oncave	Other	(Explain i	n Remarks)			
S	urface (B8)							
Field Ok	servations		,					
Surface V	Vater Present? Yes	No <u>></u>	Depth (inch	nes)		Wetland	d Hydrology? 🎻	/ N
Water Ta	ble Present? Yes	No _>	Depth (inch	nes)				
Saturation	n Present? Yes	No <u>></u>	C Depth (inch	nes)	(inclu	udes capilla	ary fringe)	
Describ	e Recorded Data (st	ream gauge, mon						

Drift deposits indicate frequent flooding

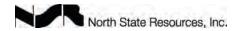


Wetland Determination Data Form Wester	n Marint	oino Vall	ovo 0 C	Secot Degion	Data Point		16
Wetland Determination Data Form–Wester			•	· ·	Feature Type		
Project/Site: Fountain Wind						Date:	10/16/17
Applicant/Owner: Avangrid							-
Investigator(s): Gabe Youngblood			_ Section	, Township, Range S	ec. 33, 135N,	K1E	
Landform (hillslope, terrace, etc.) Drainage Subregion (LRR): MLRA 22B Lat: 4	0 841020°	_ Local relie	ef (concave,	convex, none) Cond	cave	Slope '	%
Subregion (LRR):	0.041929	20 paraont	Long:_	-121.002047	Datur	n: <u>IN/</u>	
Soil Map Unit Name: Windy and McCarthy stony sandy							
Are climatic/hydrologic conditions on the site typical for this ti	-				7		
Are vegetation Soil Soil Northydrology Asignifica					_		
Are vegetation \[\script \infty \script \script \] soil \[\script \infty \script \] or hydrology \[\script \infty \] haturally			-				
Summary of Findings (Attach site map showing sample							
Hydrophytic vegetation?	d hydrology?	ls s	ampled are	ea a wetland? _\X	Other waters? ✓		
Evaluation of features designated "Other Water	ers of the	United St	ates"	,			
Indicators: Defined bed and bank Scour _	✓ Ordin	ary High Wa	ter Mark Ma	apped _ ✓ Stream	Width 5'		
Indicators: Defined bed and bank Scour Feature Designation: Perennial Intermittent Formula Artificial Drain	phemeral nane	▼ Blue-lin Navigable V	e on USGS Vater	Quad Substr	ate Soll & Rock		
		gaz.e .		-			
Remarks DP documents OHWM of an ephemeral	l stream.						
Variables (Har Calantific Names)				I			
Vegetation (Use Scientific Names) Tree Stratum (Plot Size:)	Absolute % Cover	Dominant Species?		Dominance Test \ Number of domina			
1		•		that are OBL, FAC			_ (A)
2				Total number of do	minant species		
3				across all strata: Percent of dominar			_ (B)
4				are OBL, FACW, o	r FAC:		_ (A/B)
50%=	_			Prevalence Index	Workshoot		
Sapling/Shrub Stratum (Plot Size:)	% Cover	Species?	Status	Total % Cover of:		<u>оу</u>	
1				OBL Species	x 1 =	0	
2				FACW Species	x 2 =	0	
3				FAC Species	x 3 =	0	
4				FACU Species	x 4 =	0	
50%= Total Cover:				UPL Species	x 5 =	0	
Herb Stratum (Plot Size:)		Species?	Status	Column Totalo	0 (A)	0	(B)
1				Column Totals	(A)		
2				Prevalence Index =	= B/A =	_	
2. 3.				Prevalence Index =	= B/A =etation Indicator	 rs	on
2.				Prevalence Index = Hydrophytic Vege Rapid Test Dominance	etation Indicator for Hydrophytic \ Test is >50%	 rs	on
2				Prevalence Index = Hydrophytic Vege Rapid Test Dominance Prevalence	etation Indicator for Hydrophytic \ Test is >50% Index is $\leq 3.0^1$	— rs /egetati	
2.				Prevalence Index = Hydrophytic Vege Rapid Test i Dominance Prevalence Morphologic	etation Indicator for Hydrophytic \ Test is >50% Index is $\leq 3.0^1$ cal Adaptations ¹	 rs /egetati (provide	e supporting
2. 3. 4. 5. 6. 7.				Prevalence Index = Hydrophytic Vege Rapid Test i Dominance Prevalence Morphologic data in Rem Wetland No	etation Indicator for Hydrophytic V Test is >50% Index is $\leq 3.0^1$ cal Adaptations ¹ narks or on a sep n-Vascular Plan	rs /egetati (provide parate sl	e supporting heet)
2. 3. 4. 5. 6. 7. 8.				Prevalence Index = Hydrophytic Vege Rapid Test i Dominance Prevalence Morphologic data in Rem Wetland No Problematic	etation Indicator for Hydrophytic V Test is >50% Index is $\leq 3.0^1$ cal Adaptations ¹ narks or on a sep n-Vascular Plant Hydrophytic Ve	rs /egetati (provide parate sl ts ¹ getation	e supporting heet) 1 (Explain)
2				Hydrophytic Vege Rapid Test i Dominance Prevalence Morphologic data in Rem Wetland No Problematic	etation Indicator for Hydrophytic V Test is >50% Index is $\leq 3.0^1$ cal Adaptations ¹ narks or on a sep n-Vascular Plant Hydrophytic Ve	rs /egetati (provide parate sl ts ¹ getation	e supporting heet) 1 (Explain)
2		Species?	Status	Prevalence Index = Hydrophytic Vege Rapid Test i Dominance Prevalence Morphologic data in Rem Wetland No Problematic Indicators of hydrobe present.	etation Indicator for Hydrophytic V Test is >50% Index is \leq 3.0¹ cal Adaptations¹ narks or on a sep n-Vascular Plan Hydrophytic Ve ic soil and wetlan	rs /egetati (provide parate sl ts ¹ getation and hydro	e supporting heet) 1 (Explain) alogy must
2		Species?	Status	Hydrophytic Vege Rapid Test i Dominance Prevalence Morphologic data in Rem Wetland No Problematic	etation Indicator for Hydrophytic V Test is >50% Index is \leq 3.0¹ cal Adaptations¹ narks or on a sep n-Vascular Plan Hydrophytic Ve ic soil and wetlan	rs /egetati (provide parate sl ts ¹ getation and hydro	e supporting heet) 1 (Explain) alogy must
2		Species?	Status	Prevalence Index = Hydrophytic Vege Rapid Test i Dominance Prevalence Morphologic data in Rem Wetland No Problematic Indicators of hydrobe present.	etation Indicator for Hydrophytic V Test is >50% Index is \leq 3.0¹ cal Adaptations¹ narks or on a sep n-Vascular Plan Hydrophytic Ve ic soil and wetlan	rs /egetati (provide parate sl ts ¹ getation and hydro	e supporting heet) 1 (Explain) 1 (old must
2	0 % Cover	Species?	Status	Prevalence Index = Hydrophytic Vege Rapid Test i Dominance Prevalence Morphologic data in Rem Wetland No Problematic Indicators of hydrobe present.	etation Indicator for Hydrophytic V Test is >50% Index is \leq 3.0¹ cal Adaptations¹ narks or on a sep n-Vascular Plan Hydrophytic Ve ic soil and wetlan	rs /egetati (provide parate sl ts ¹ getation and hydro	e supporting heet) 1 (Explain) 1 (old must

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Depth	Matrix		oth needed to docume Redox Features			_		
nches)	Color (moist)	<u>%</u> 	Color (moist)	<u>%</u> 	<u>Type¹</u>	<u>Loc²</u>	<u>Texture</u>	<u>Remarks</u>
vnes: C:	= Concentration D	= Depletion	RM = Reduced Matrix		 ² Location: PL	= Pore Lir	ing M = Matrix	
			LRRs, unless otherw					Problematic Hydric Soils
•	stosol (A1)	oncable to al		Redox (•			fuck (A10)
	stic Epipedon (A2))	Strippe		-			arent Materials (TF21)
	ack Histic (A3)	,			Mineral (exc	ent		hallow Dark Surface (TF12
	/drogen Sulfide (A	4)	,	1) (F1)		٠,٠	-	ited Sand/Gravel Bars
•	epleted Below Dar	•			Matrix (F2)		•	Explain in Remarks)
	i nick Dark Surface (-	Deplet	•				
	andy Mucky Minera		· ·		rface (F6)		³ Indicators of	hydrophytic vegetation and
Sa	andy Gleyed Matrix	x (S4)	Deplet	ed Dark	Surface (F7)		wetland hydro	logy must be present.
			Redox	Depress	sions (F8)			
	e Layer (if preser	nt): Type:		Depth (Inches)	Hyd	ric Soil Present?	·×
No soils	s pit scoured ch	nannel.						
No soils	s pit scoured ch	nannel.						
		nannel.						
Hydrolo Wetland	Dgy Indicators		equired. Check all that	at apply.)			Secondary Indi	icators (2 or more required
Hydrolo Wetland Primary I	ogy Indicators ndicators (Minimul		•			oveont	-	•
Hydrold Wetland Primary I	ogy Indicators Indicators (Minimum	m of one is r	Water	Stained I	Leaves (B9)	except	Water	Stained Leaves (B9) excep
Hydrolo Wetland Primary II Su	Ogy Indicators Indicators (Minimulariace Water (A1) Ingh Water Table (A	m of one is r	Water	Stained I	Leaves (B9) and 4B)	except	Water : MLRA	Stained Leaves (B9) except 1,2,4A, and 4B)
Hydrold Wetland Primary li Su Hig Sa	Indicators Indicators (Minimulariace Water (A1) gh Water Table (Aaturation (A3)	m of one is r	Water MLRASalt C	Stained I 1,2,4A, rust (B11	Leaves (B9) and 4B)		Water MLRA Draina	Stained Leaves (B9) exce 1,2,4A, and 4B) ge Patterns (B10)
Hydrold Wetland Primary li Su Hiq Sa	Indicators Indicators (Minimum Inface Water (A1) gh Water Table (A Inturation (A3) ater Marks (B1)	m of one is r	Water MLRA Salt Co	Stained I 1,2,4A, rust (B11 c Invertel	Leaves (B9) and 4B)) brates (B13)		Water : MLRA Draina	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) hason Water Table (C2)
Hydrold Wetland Primary li Su High	Indicators Indicators (Minimulariace Water (A1) gh Water Table (Alaturation (A3) ater Marks (B1) ediment Deposits (m of one is r	Water MLRA Salt Cl Aquati Hydro	Stained I A 1,2,4A, rust (B11 c Invertel gen Sulfic	Leaves (B9) and 4B)) brates (B13) de Odor (C1))	Water : MLRA Draina Dry-Se Satura	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on
Hydrold Wetland Primary li Su High Sa Wi Se	Indicators Indicators (Minimum Inface Water (A1) Indicators (Minimum Inface Water (A2) Indicators (A3) Indicat	m of one is r .2) (B2)	Water MLRA Salt Co Aquati Hydroo	Stained I A 1,2,4A, rust (B11) c Invertel gen Sulficed Rhizo	Leaves (B9) and 4B)) brates (B13)))	Water : MLRA Draina Dry-Se Satura	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9)
Hydrold Wetland Primary li Su High Sa Wi Se ✓ Dr	Indicators Indicators (Minimulariace Water (A1) gh Water Table (Alaturation (A3) ater Marks (B1) ediment Deposits (m of one is r .2) (B2)	Water MLRA Salt Ci Aquati Hydrog Oxidiz	Stained I A 1,2,4A, rust (B11 c Invertel gen Sulficed Rhizo nce of Re	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3))	Water to MLRA Drainag Dry-Se Saturat Aerial Geomo	Stained Leaves (B9) exce 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on
Hydrold Wetland Primary li Su High Sa Wi Se ✓ Dr Alg	Indicators Indicators (Minimum Inface Water (A1) Inface Water Table (And Inface) Inface Water Table (And Inface) Inface Water Table (And Inface) Inface Water Marks (B1) Inface Water Marks (B1) Inface Water Marks (B3) Inface Water Marks (B3) Inface Water Marks (B3) Inface Water Water Marks (B3) Inface Water Wate	m of one is r .2) (B2) 34)	Water MLRA Salt Cl Aquati Hydrog Oxidiz Preser Recen	Stained I A 1,2,4A, rust (B11 c Invertel gen Sulficed Rhizo nce of Re	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3 educed Iron (duction in))	Water : MLRA Drainae Dry-Se Saturae Aerial Geomo	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2)
Hydrold Wetland Primary In Su High Sa Wi Se ✓ Dr Alg	Indicators Indicators (Minimul Inface Water (A1) Inface Water Table (A Inface Water Table (B Inface Water (BA) Inface Water Table (B Infac	m of one is r .2) (B2) 34) (B6)	Water MLRA Salt Ci Aquati Hydrog Oxidiz Preser Recen Tilled	Stained I 1,2,4A, rust (B11) c Invertel gen Sulfice ed Rhizo nce of Re t Iron Re Soils (C6	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3 educed Iron (duction in))	Water : MLRA Draina Dry-Se Satural Aerial Geomo Shallov FAC-N	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) ov Aquitard (D3) eutral Test (D5)
Hydrold Wetland Primary li Su Hig Sa Wi Se ✓ Dr Alg Iro Su	Indicators Indicators (Minimum Inface Water (A1) Indicators (Minimum Inface Water Table (Anturation (A3) Indicators (B1) Indicators (B1) Indicators (B3) Inface Soil Cracks Indicators (B5) Inface Soil Cracks	m of one is r .2) (B2) 34) (B6)	Water MLRA Salt Ci Aquati Hydrog Oxidiz Preser Recen Tilled Stunte	Stained I 1,2,4A, rust (B11) c Invertel gen Sulfice ed Rhizo nce of Re t Iron Re Soils (C6	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3 educed Iron (duction in))	Water MLRA Drainag Dry-Se Satural Aerial Geomo Shallov FAC-N Raised	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) ov Aquitard (D3) eutral Test (D5)
Hydrold Wetland Primary In Su Sa Wi Se ✓ Dr Alg Ino In Sp	Indicators Indicators (Minimum Inface Water (A1) Indicators (Minimum Inface Water (A1) Indicators (Minimum Inface Water (A1) Inface Water	m of one is r (2) (B2) (B4) (B6) n Aerial	Water MLRA Salt Cl Aquati Hydrog Oxidiz Preser Recen Tilled Stunte (D1) (Stained I A 1,2,4A, rust (B11) c Inverted gen Sulfice ed Rhizon nce of Re t Iron Re Soils (C6 d or Streat LRR A)	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3 educed Iron (duction in))	Water MLRA Drainag Dry-Se Satural Aerial Geomo Shallov FAC-N Raised	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) or Aquitard (D3) eutral Test (D5) I Ant Mounds (D6) (LRR A)
Hydrold Wetland Primary II Su High Sa Wa Se ✓ Dr Alg Ino Ino Su Su	Indicators Indicators (Minimum Inface Water (A1) Indicators (Minimum Inface Water (A1) Indicators (Minimum Inface Water (A1) Inface Water	m of one is r (2) (B2) (B4) (B6) n Aerial	Water MLRA Salt Cl Aquati Hydrog Oxidiz Preser Recen Tilled Stunte (D1) (Stained I A 1,2,4A, rust (B11) c Inverted gen Sulfice ed Rhizon nce of Re t Iron Re Soils (C6 d or Streat LRR A)	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) educed Iron (duction in b) ssed Plants))	Water MLRA Drainag Dry-Se Satural Aerial Geomo Shallov FAC-N Raised	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) or Aquitard (D3) eutral Test (D5) I Ant Mounds (D6) (LRR A)
Hydrold Wetland Primary In Su Hit Sa Wi Se ✓ Dr Alt In In Sp Su Field Obs	Indicators Indicators (Minimum Inface Water (A1) Indicators (Minimum Inface Water (A1) Indicators (Minimum Inface Water (A1) Inface Water (A1) Inface Marks (B1) Inface Marks (B1) Inface Soil Cracks Infac	m of one is r (B2) (B2) (B6) n Aerial Concave	Water MLRA Salt Ci Aquati Hydrog Oxidiz Preser Recen Tilled Stunte (D1) (Stained I 1,2,4A, rust (B11) c Invertel gen Sulfice ed Rhizo nce of Re t Iron Re Soils (Ce d or Stree LRR A) (Explain i	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) educed Iron (duction in b) ssed Plants in Remarks)) (C4)	Water MLRA Drainag Dry-Se Satural Aerial Geomo Shallov FAC-N Raised	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) leason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) ov Aquitard (D3) eutral Test (D5) I Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
Hydrold Wetland Primary II Su High Sa Wi Se ✓ Dr Alg Ino Ino Su Su Surface W	Indicators Indicators (Minimum Inface Water (A1) Indicators (Minimum Inface Water Table (And Inface Marks (B1) Inface Marks (B1) Inface Marks (B3) Inface Marks (B3) Inface Soil Cracks Inface Soil Cracks Inface Soil Cracks Inface Marks (B7) Inface Soil Cracks Inface Marks (B7) Inface Marks (B8) Inface (B8) Inface (B8) Inface (B8) Inface Marks (B8) Inface (B8) Inface (B8) Inface (B8) Inface Marks (B8) Inface (B8)	m of one is r (B2) (B3) (B6) n Aerial Concave	Water MLRA Salt Ci Aquati Hydrog Oxidiz Preser Recen Tilled Stunte (D1) (Stained I A 1,2,4A, rust (B11) c Invertel gen Sulfic ed Rhizo nce of Re t Iron Re Soils (C6 d or Stre LRR A) (Explain i	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) educed Iron (duction in b) ssed Plants in Remarks)) (C4)	Water MLRA MLRA Draina Dry-Se Satural Aerial Geomo Shallov FAC-N Raised Frost-F	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) leason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) ov Aquitard (D3) eutral Test (D5) I Ant Mounds (D6) (LRR A) Heave Hummocks (D7)

Drift deposits indicate frequent flooding.



Wetland Determination Data Form-Wes	stern Mou	unta	ins, Vall	eys, & C	Data Po Coast Region Feature Ty		on-ve	getated ditch
Project/Site: Fountain Wind		(City/County	Shasta C	County	Da	ate:	10/16/17
Δvanarid					ο CΔ			
Investigator(s): Gabe Youngblood					Township, Range Sec. 34, T35	N, R1	<u> </u>	
Landform (hillslope, terrace, etc.) Drainage			Local relie	ef (concave,	convex, none) Concave	Slo	 ope %	2
Subregion (LRR): MLRA 22B Lat:	40.8419	29°			-121.862114° Da			
Soil Map Unit Name: Windy and McCarthy stony sa	indy loams,	0 to 3	30 percent					
Are climatic/hydrologic conditions on the site typical for								
Are vegetation	-							
Are vegetation								
Summary of Findings (Attach site map showing s						عال ا	7	
Hydrophytic vegetation? Hydric soil? W				•	a a wetland? Liner waters			
Evaluation of features designated "Other \	Waters of	the l	Jnited St	ates"	/			
Indicators: Defined bed and bank Sc	cour <u>√</u> C	Ordina	ry High Wa	ter Mark Ma	Apped _ V Stream Width 3'			
Feature Designation: Perennial Intermittent Natural Drainage Artificial	Epnemera Drainage	aı <u>_▼</u> ^	Biue-iine Vavigable V	ater	Quad Substrate 1668			
			<u> </u>		-			
Remarks DP documents OHWM of a NVD.								
					<u> </u>			
Vegetation (Use Scientific Names) Tree Stratum (Plot Size:)	Absol <u>% Co</u>		Dominant Species?		Dominance Test Worksheet			
1			Species:	Status	Number of dominant species that are OBL, FACW, or FAC:			(A)
2.					Total number of dominant speci-	es		
3					across all strata:			(B)
4					Percent of dominant species that are OBL, FACW, or FAC:	al		(A/B)
50%=	Cover: 0							` '
Sapling/Shrub Stratum (Plot Size:)			Species?	Status	Prevalence Index Worksheet Total % Cover of: Multip	alv hv		
1	<u>70 00</u>	<u>, v 01</u>	орошоз.	Otatas	OBL Species x 1		0	
2.					FACW Species x 2			_
3							0	_
4							0	_
50%=	cover: 0				FACU Species x 4			_
Herb Stratum (Plot Size:)			Species?	Status	UPL Species x 5			_
1			•		Column Totals (A)			_ (B)
2.					Prevalence Index = B/A =			
3.					Hydrophytic Vegetation Indica	ators		
4.					Rapid Test for Hydrophyt	tic Vege	etatio	n
5					Dominance Test is >50%			
6					Prevalence Index is < 3.0 Morphological Adaptation		wide	sunnortina
7					data in Remarks or on a	separa		
8					Wetland Non-Vascular P		1	/F
50%=					Problematic Hydrophytic *Indicators of hydric soil and we			
Woody/Vine Stratum (Plot Size:)			Species?	Status	be present.		, 4, 010	-3)
1			•		Undrankutia Vasatatian Du-	,,,,,, <u> </u>		
2.					Hydrophytic Vegetation Prese	nt? L		
	Cover:0							
% Bare Ground in Herb Stratum % Cover			0					

$\mathbf{}$	ZII	c

Depth	scription: (Describe Matrix	R	edox Features					
(<u>inches</u>)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks
	= Concentration D =	•				. = Pore Lin	ning M = Matrix	
Hydric So	il Indicators: (Appli	cable to all LRR	s, unless otherw	ise noted)		Indicators for	Problematic Hydric Soils ³
	istosol (A1)		Sandy		-		2 cm N	` '
	istic Epipedon (A2)			ed Matrix				arent Materials (TF21)
	lack Histic (A3)		•	,	lineral (exc e	ept	_	Shallow Dark Surface (TF12)
	ydrogen Sulfide (A4)			1) (F1)			-	ated Sand/Gravel Bars
	epleted Below Dark		Loamy	Gleyed N	Matrix (F2)		Other	(Explain in Remarks)
	hick Dark Surface (A	,	Deplet					
S	andy Mucky Mineral	(S1)	Redox	Dark Sur	face (F6)		³ Indicators of	hydrophytic vegetation and
S	andy Gleyed Matrix ((S4)	Deplet	ed Dark S	Surface (F7)		wetland hydro	ology must be present.
			Redox	Depressi	ions (F8)			
D. delate		T		Davida (I		111	-!- C-!I DIO	/ X
Restricti	ve Layer (if present)	: Type:		Depth (I	nches)	Hyui	ric Soil Present?	
Hydrol	ogy I Indicators							
	Indicators (Minimum	of one is require	ed. Check all tha	at apply.)			Secondary Inc	licators (2 or more required)
S	urface Water (A1)		Water	Stained L	eaves (B9)	except	Water	Stained Leaves (B9) except
	igh Water Table (A2))		1,2,4A,	. ,			A 1,2,4A, and 4B)
	aturation (A3)			rust (B11)	-			nge Patterns (B10)
	/ater Marks (B1)				orates (B13)			eason Water Table (C2)
,	ediment Deposits (B	2)			le Odor (C1)		,	ition Visible on
	rift Deposits (B3)		Oxidize	ed Rhizos	spheres (C3))	Aerial	Imagery (C9)
A	Igal Mat or Crust (B4)	Preser	nce of Re	duced Iron (C4)		orphic Position (D2)
Ir	on Deposits (B5)		Recen	t Iron Red	duction in		Shallo	w Aquitard (D3)
S	urface Soil Cracks (E	36)	Tilled	Soils (C6))		FAC-N	leutral Test (D5)
Ir	nundation Visible on A	Aerial	Stunte	d or Stres	ssed Plants		Raised	d Ant Mounds (D6) (LRR A)
lı	magery (B7)		(D1) (LRR A)			Frost-	Heave Hummocks (D7)
S	parsely Vegetated C	oncave	Other	(Explain i	n Remarks)			
S	urface (B8)							
Field Ob	servations		,					
Surface V	Vater Present? Yes	No>	Depth (inch	nes)		Wetland	d Hydrology? 🎻	/ N
Water Ta	ble Present? Yes	No_>	C Depth (inch					
Saturation	n Present? Yes	No_ <u>></u>	C Depth (inch	nes)	(inclu	udes capilla	ary fringe)	
Describ	e Recorded Data (st	ream gauge, mon	itoring well, aerial	photos, an	nd previous in	spections),	if available:	

Sediment deposits indicate frequent flooding.

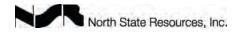


				Data Point	t18
Wetland Determination Data Form-Wester	n Mounta	ains, Val	leys, & C	Coast Region Feature Type	Wetland meadow
Project/Site: Fountain Wind		City/County	Shasta C	County	Date: 10/16/17
Applicant/Owner: Avangrid				State: CA	
Investigator(s): Gabe Youngblood			_ Section	, Township, Range Sec. 34, T35N,	R1E
Landform (hillslope, terrace, etc.) Hillslope		_ Local relie		, convex, none) Convex	
Subregion (LRR): MLRA 22B Lat:40	0.841924°		Long:_	-121.861772° Datu	ım: NAD83
Soil Map Unit Name: _Windy and McCarthy stony sandy I	oams, 0 to	30 percent	slopes N	WI Classification: PEM1Ch	
Are climatic/hydrologic conditions on the site typical for this ti	me of year?	$\sqrt{ \mathcal{J} }$ (If r	o, explain i	'n Remarks.)	
Are vegetation / Soil / Soil hydrology / Significa					
Are vegetation \(\sum \subseteq \subseteq \subseteq \subseteq \subseteq \subseteq \lambda \text{Arturally} \)					
	•	-	· · ·	•	
Summary of Findings (Attach site map showing sample	• .				
Hydrophytic vegetation? 🗹 🗌 Hydric soil? 🗹 🦳 Wetland	d hydrology':		sampled are	ea a wetland? __Dther waters?\	
Evaluation of features designated "Other Wate					
Indicators: Defined bed and bank Scour_	Ordin	ary High Wa	iter Mark M	apped Stream Width	
Feature Designation: Perennial Intermittent Ep Natural Drainage Artificial Drain	ohemeral nage	Blue-lin Navigable \	e on USGS Nater	Guad Substrate	
Domarks		- Navigable V		_	
Remarks _{DP} documents wetland meadow.					
Vegetation (Use Scientific Names)	Absolute	Dominant		Dominance Test Worksheet	
Tree Stratum (Plot Size:)	% Cover	Species?	Status	Number of dominant species	2 (^)
1				that are OBL, FACW, or FAC: _ Total number of dominant species	(A)
2				across all strata:	2 (B)
3				Percent of dominant species that	100 (A/D)
4				are OBL, FACW, or FAC:	100 (A/B)
50%= Total Cover:	0			Prevalence Index Worksheet	
Sapling/Shrub Stratum (Plot Size:)	% Cover	Species?	Status	Total % Cover of: Multiply	•
1				OBL Species x 1 =	
2				FACW Species x 2 =	. 0
3				FAC Species x 3 =	0
4				FACU Species x 4 =	
50%= Total Cover:	0			UPL Species x 5 =	0
Herb Stratum (Plot Size: <u>5'</u>)	% Cover	Species?		Column Totals (A)	
1. Juncus balticus	45	Y	FACW	Prevalence Index = B/A =	
2. Carex sp. (NIF)	40	Y	FAC-	Prevalence index = B/A =	
3. Deschampsia danthonioides	3	N	FACW	Hydrophytic Vegetation Indicate	ors
4. Unkown grass	2	N	UNK	Rapid Test for Hydrophytic	Vegetation
5				Dominance Test is >50% Prevalence Index is < 3.01	
6				Morphological Adaptations	(provide supporting
7				data in Remarks or on a se	
8				Wetland Non-Vascular Plan Problematic Hydrophytic Ve	
50%=45 20%=18 Total Cover:				¹ Indicators of hydric soil and wetla	
Woody/Vine Stratum (Plot Size:)		Species?	Status	be present.	
1		•		Hydrophytic Vegetation Present	2 -
2.				Tryurophytic vegetation Fresent	· • • • • • • • • • • • • • • • • • • •
50%=					
% Rare Ground in Herb Stratum % Cover of Ric		10			

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<u>marks</u>
ic Hydric Soils ³
als (TF21)
Surface (TF12)
iravel Bars
Remarks)
vegetation and
e present.
more required)
-
aves (B9) except
d 4B)
d 4B) (B10)
d 4B) (B10) Table (C2)
d 4B) (B10) Table (C2) on
d 4B) (B10) Table (C2) on 9)
d 4B) (B10) Table (C2) on 9) ion (D2)
d 4B) (B10) Table (C2) on 9) ion (D2) (D3)
d 4B) (B10) Table (C2) on 9) ion (D2) (D3) (D5)
d 4B) (B10) Table (C2) on 9) ion (D2) (D3) (D5) Is (D6) (LRR A)
d 4B) (B10) Table (C2) on 9) ion (D2) (D3) (D5)
d 4B) (B10) Table (C2) on 9) ion (D2) (D3) (D5) Is (D6) (LRR A)
d 4B) (B10) Table (C2) on 9) ion (D2) (D3) (D5) Is (D6) (LRR A)
d 4B) (B10) Table (C2) on 9) ion (D2) (D3) (D5) Is (D6) (LRR A)
d 4B) (B10) Table (C2) on 9) ion (D2) (D3) (D5) Is (D6) (LRR A)

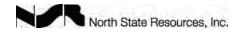
Algal crust indicates long duration saturation. Saturation is visible on Google Earth imagery from 7/8/12.



William I Data and a silver Data France Western				No col Decile	Data Point	Linian	19
Wetland Determination Data Form–Wester			•	Ü	Feature Type		
Project/Site: Fountain Wind		City/County	Shasta 0	County		Date:	10/16/17
Applicant/Owner: Avangrid				State: C	Α		-
Investigator(s): Gabe Youngblood			_ Section	, Township, Range Se	ec. 34, T35N, F	R1E	
Landform (hillslope, terrace, etc.) _Hillslope (Nearly Level))	_ Local relie	ef (concave	, convex, none) <u>Conv</u>			
Subregion (LRR): MLRA 22B Lat: 40					Datum	n: <u>NA</u>	.D83
Soil Map Unit Name: Windy and McCarthy stony sandy I	loams, 0 to	30 percent	slopes N/	VI Classification: N/A			
Are climatic/hydrologic conditions on the site typical for this ti	ime of year?	√√ (If n	o, explain il	n Remarks.)			
Are vegetation □/⊠soil □/⊠or hydrology □/⊠significa	ntly disturbe	ed? Are norr	nal circums	tances present?			
Are vegetation / Soil / Sor hydrology / Anaturally							
Summary of Findings (Attach site map showing sampl	ling point loc	ations trans	acts imnor	tant foatures etc.)			
Hydrophytic vegetation?					Other waters?	1/ X	
			-	a a welland:	pilici waicis:	الكا ا	
Evaluation of features designated "Other Water				onned Ctroom	A / : ol + lo		
Indicators: Defined bed and bank Scour _ Feature Designation: Perennial Intermittent E	nhemeral	Blue-lin	e on USGS	Quad Substra	ate		
Natural Drainage Artificial Drain	nage	Navigable V	Vater				
Remarks Upland pair to Data Point 18 wetland me	aadaw						
Opiano pan to Data Point 16 wetiano mi	Badow.						
Vegetation (Use Scientific Names)	Absoluts	Dominont	Indicator	<u> </u>			
Tree Stratum (Plot Size: 30')	Absolute % Cover	Dominant Species?		Dominance Test V Number of dominar			
1 Quercus kelloggii	40	Y	UPL	that are OBL, FAC		1	(A)
2.				Total number of do		3	
3.				across all strata: Percent of dominan	 nt snacios that		(B)
4.				are OBL, FACW, or		33	(A/B)
50%= 20 20%= 8 Total Cover:	. 40						
Sapling/Shrub Stratum (Plot Size: 15')	% Cover	Species?	Status	Prevalence Index Total % Cover of:		١V	
1 Rubus armeniacus	80	Y	FAC	OBL Species		_	
2. Salix scouleriana	5	N	FAC	FACW Species		_	
3.				1	x 2 =	_	_
4.				1			
50%=42.5 20%=17 Total Cover:	85			FACU Species			_
Herb Stratum (Plot Size: 5')		Species?	Status	UPL Species			—
1. Hypericum perforatum	1	Υ	FACU	Column Totals _			(B)
2.				Prevalence Index =	B/A =	_	
3.				Hydrophytic Vege	tation Indicator	s	
4				Rapid Test f	or Hydrophytic V		on
5				Dominance			
6.				Prevalence I	Index is $\leq 3.0^{1}$	nrovide	sunnorting
7				data in Rem	arks or on a sep	arate sh	
8.					n-Vascular Plant		1 /⊏
50%=5				Problematic 1 Indicators of hydrid	Hydrophytic Veo		
Woody/Vine Stratum (Plot Size:)		Species?	Status	be present.	, son and WolldH	a riyuro	iogy musi
				,	5		1
1				Hydrophytic Vege	tation Present?		J
2 50%= Total Cover:							
50%=		n					

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50	۱ı	c
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Profile Depth	escription: (Descri Matrix	be to the de	pth needed to c Redox Fea		iuicatoi oi co		absence of i	luicators.
(<u>inches</u>) 0-12	Color (moist) 7.5YR 2.5/3	<u>%</u> 100	Color (mo		Type ¹	Loc ²	<u>Texture</u> Loam	Remarks Sandy
	C = Concentration D				² Location: PL	. = Pore Lir		
•	oil Indicators: (App	olicable to al			•			s for Problematic Hydric Soils ³
	Histosol (A1)			Sandy Redox				cm Muck (A10)
	Histic Epipedon (A2))		Stripped Matrix				ed Parent Materials (TF21)
	Black Histic (A3)			Loamy Mucky		ept		ery Shallow Dark Surface (TF12)
	Hydrogen Sulfide (A	-		MLRA 1) (F1)				egetated Sand/Gravel Bars
	Depleted Below Dar	•		Loamy Gleyed			0	ther (Explain in Remarks)
	Thick Dark Surface	• •		Depleted Matri			2	
	Sandy Mucky Miner	. ,		Redox Dark Si				rs of hydrophytic vegetation and
	Sandy Gleyed Matri	x (S4)		Depleted Dark			wetland	hydrology must be present.
				Redox Depres	sions (F8)			
Restrict	tive Layer (if preser	nt): Type: N	/A	Depth	(Inches) N/A	\ Hyd	ric Soil Pres	ent? /X
	licators of hydric	soils were	e observed.					
No inc	dicators of hydric			< all that apply.)		Secondar	v Indicators (2 or more required)
Hydro Wetlan Primary	dicators of hydric blogy d Indicators y Indicators (Minimu		equired. Checl			evcent		y Indicators (2 or more required)
Hydro Wetlan Primary	dicators of hydrical blogy d Indicators v Indicators (Minimu) Surface Water (A1)	m of one is r	equired. Checl	Water Stained	Leaves (B9)	except	W	ater Stained Leaves (B9) except
Hydro Wetlan Primary	dicators of hydrical blogy d Indicators (Minimu Surface Water (A1) High Water Table (A	m of one is r	equired. Checl	Water Stained MLRA 1,2,4A	Leaves (B9) , and 4B)	except	W	ater Stained Leaves (B9) except ILRA 1,2,4A, and 4B)
Hydro Wetlan Primary	blogy d Indicators n Indicators (Minimu Surface Water (A1) High Water Table (A	m of one is r	equired. Checl	Water Stained MLRA 1,2,4A Salt Crust (B1	Leaves (B9) , and 4B) 1)		W D	ater Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10)
Hydro Wetlan Primary	dicators of hydrical blogy d Indicators / Indicators (Minimu Surface Water (A1) High Water Table (A) Saturation (A3) Water Marks (B1)	m of one is r	equired. Checl	Water Stained MLRA 1,2,4A Salt Crust (B1 Aquatic Inverte	Leaves (B9) , and 4B) 1) ebrates (B13)		W D D	later Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2)
Hydro Wetlan Primary	dicators of hydrical blogy d Indicators / Indicators (Minimu Surface Water (A1) High Water Table (A) Saturation (A3) Water Marks (B1) Sediment Deposits	m of one is r	equired. Checl	Water Stained MLRA 1,2,4A Salt Crust (B1: Aquatic Inverte Hydrogen Sulf	Leaves (B9), and 4B) 1) ebrates (B13) ide Odor (C1))	W D D S	Vater Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on
Hydro Wetlan Primary	dicators of hydrical blogy d Indicators y Indicators (Minimu Surface Water (A1) High Water Table (A1) Saturation (A3) Water Marks (B1) Sediment Deposits (B3)	m of one is r .2) (B2)	required. Checl	Water Stained MLRA 1,2,4A Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Oxidized Rhize	Leaves (B9) , and 4B) 1) ebrates (B13) ide Odor (C1) ospheres (C3))	W D D Sa	later Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9)
Hydro Wetlan Primary	dicators of hydrical blogy d Indicators / Indicators (Minimu Surface Water (A1) High Water Table (A) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B3)	m of one is r .2) (B2)	equired. Checl	Water Stained MLRA 1,2,4A Salt Crust (B1: Aquatic Inverte Hydrogen Sulf Oxidized Rhize Presence of R	Leaves (B9) , and 4B) 1) ebrates (B13) ide Odor (C1) espheres (C3) educed Iron ())	W D D S A G	Vater Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2)
Hydro Wetlan Primary	dicators of hydrical blogy d Indicators / Indicators (Minimu Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (I Iron Deposits (B5)	m of one is r .2) (B2) 34)	equired. Checl	Water Stained MLRA 1,2,4A Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Oxidized Rhize Presence of R Recent Iron Re	Leaves (B9) , and 4B) 1) ebrates (B13) ide Odor (C1) ospheres (C3) educed Iron (eduction in))	W D D S: G S	Vater Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) nallow Aquitard (D3)
Hydro Wetlan Primary	dicators of hydrical blogy d Indicators / Indicators (Minimu) Surface Water (A1) High Water Table (A) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B3)	m of one is r .2) (B2) 34) (B6)	required. Check	Water Stained MLRA 1,2,4A Salt Crust (B1: Aquatic Inverte Hydrogen Sulf Oxidized Rhize Presence of R	Leaves (B9) , and 4B) 1) ebrates (B13) ide Odor (C1) espheres (C3) educed Iron (eduction in 6)))	W D D S S G SI F	Vater Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5)
Hydro Wetlan Primary	dicators of hydrical blogy d Indicators y Indicators (Minimu Surface Water (A1) High Water Table (A1) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (Indicators (B5) Surface Soil Cracks	m of one is r .2) (B2) 34) (B6)	required. Check	Water Stained MLRA 1,2,4A Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Oxidized Rhize Presence of R Recent Iron Re Tilled Soils (C	Leaves (B9) , and 4B) 1) ebrates (B13) ide Odor (C1) espheres (C3) educed Iron (eduction in 6)))	W D S: G G SI F	Vater Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) nallow Aquitard (D3)
Hydro Wetlan Primary	dicators of hydrical blogy d Indicators n Indicators (Minimu Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (I Iron Deposits (B5) Surface Soil Cracks Inundation Visible of	m of one is r .2) (B2) 34) (B6) n Aerial	required. Checl	Water Stained MLRA 1,2,4A Salt Crust (B1: Aquatic Inverte Hydrogen Sulf Oxidized Rhize Presence of R Recent Iron Re Tilled Soils (C Stunted or Stre	Leaves (B9) , and 4B) 1) ebrates (B13) ide Odor (C1) ospheres (C3) educed Iron (eduction in 6) essed Plants)) (C4)	W D S: G G SI F	Vater Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on terial Imagery (C9) eomorphic Position (D2) nallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A)
Hydro Wetlan Primary	dicators of hydrical blogy d Indicators y Indicators (Minimu Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B3) Algal Mat or Crust (B3) Surface Soil Cracks Inundation Visible of Imagery (B7)	m of one is r .2) (B2) 34) (B6) n Aerial	required. Checl	Water Stained MLRA 1,2,4A Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Oxidized Rhize Presence of R Recent Iron Re Tilled Soils (C Stunted or Stre (D1) (LRR A)	Leaves (B9) , and 4B) 1) ebrates (B13) ide Odor (C1) ospheres (C3) educed Iron (eduction in 6) essed Plants)) (C4)	W D S: G G SI F	Vater Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on terial Imagery (C9) eomorphic Position (D2) nallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A)
Hydro Wetlan Primary	dicators of hydrical blogy d Indicators y Indicators (Minimu Surface Water (A1) High Water Table (A) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (In the properties of the properties (B5) Surface Soil Cracks (Inundation Visible of Imagery (B7) Sparsely Vegetated	m of one is r .2) (B2) 34) (B6) n Aerial	required. Checl	Water Stained MLRA 1,2,4A Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Oxidized Rhize Presence of R Recent Iron Re Tilled Soils (C Stunted or Stre (D1) (LRR A)	Leaves (B9) , and 4B) 1) ebrates (B13) ide Odor (C1) ospheres (C3) educed Iron (eduction in 6) essed Plants)) (C4)	W D S: G G SI F	Vater Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on terial Imagery (C9) eomorphic Position (D2) nallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A)
Hydro Wetlan Primary	dicators of hydrical blogy d Indicators y Indicators (Minimu) Surface Water (A1) High Water Table (A) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (In the properties of the properties (B5) Surface Soil Cracks (Inundation Visible of Imagery (B7) Sparsely Vegetated (B8) Surface (B8)	m of one is r (B2) (B2) (B6) n Aerial Concave	required. Check	Water Stained MLRA 1,2,4A Salt Crust (B1 Aquatic Inverte Hydrogen Sulf Oxidized Rhize Presence of R Recent Iron Re Tilled Soils (C Stunted or Stre (D1) (LRR A)	Leaves (B9) , and 4B) 1) ebrates (B13) ide Odor (C1) espheres (C3) educed Iron (eduction in 6) essed Plants in Remarks)) (C4)	W D S: G G SI F	Vater Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
No inco Hydro Wetlan Primary	dicators of hydrical blogy d Indicators / Indicators (Minimu Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (I Iron Deposits (B5) Surface Soil Cracks Inundation Visible of Imagery (B7) Sparsely Vegetated Surface (B8) Observations Water Present? Ye	m of one is r (B2) (B3) (B6) n Aerial Concave	required. Check	Water Stained MLRA 1,2,4A Salt Crust (B1: Aquatic Inverte Hydrogen Sulf Oxidized Rhize Presence of R Recent Iron Re Tilled Soils (C Stunted or Stre (D1) (LRR A) Other (Explain	Leaves (B9) , and 4B) 1) ebrates (B13) ide Odor (C1) ospheres (C3) educed Iron (eduction in 6) essed Plants in Remarks)) (C4)	W D Si G SI Fi Fi	Vater Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)

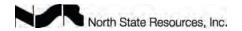


Wetland Determination Data Form-Weste	rn Mount	ains, Val	levs. & C	Coast Region	Data Point Feature Type	Fresh E	20 Emergent Wetlan
Project/Site: Fountain Wind			•	· ·		Dato:	10/16/17
Applicant/Owner: Avangrid		City/Courty		State: _C		Date.	
			Section	, Township, Range S		R1E	-
Landform (hillslope, terrace, etc.) Depression		L ocal roli	_ Section	convey none) Con	cave	Slope	% <u>1</u>
	40.841448°		Long	-121.861591°	Datun	n. NA	AD83
Soil Map Unit Name: _Windy and McCarthy stony sandy	/ loams, 0 to	30 percent			BFh		
Are climatic/hydrologic conditions on the site typical for this	time of year?	$\sqrt{ f }$	o. explain ii	n Remarks.)			
Are vegetation Soil Soil Mor hydrology Signific					7		
Are vegetation \(\sigma \setminus \soil \sqrt{\sqrt{\soin}} \sqrt{\sq}}\sqrt{\sq}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}	,				_		
			-				
Summary of Findings (Attach site map showing sam Hydrophytic vegetation? ✓ ☐ Hydric soil? ✓ ☐ Wetla					hthor waters 2	√ √	
					Dillei waters:	J/(2)	
Evaluation of features designated "Other Wa				Ch	\ \ \ (! - 4 -		
Indicators: Defined bed and bank Scour Feature Designation: Perennial Intermittent	Ordin Ephemeral	ary Hign wa Blue-lin	iter Mark Mi e on USGS	apped Stream Ouad Substi	vvidin rate		
Natural Drainage Artificial Dra	ainage	Navigable V	Vater	-			
Remarks DP documents fresh emergent wetland	d in a spass	anal pand					
Dr documents fresh emergent wettan	ı III a seası	oriai poriu.					
Vogotation (Uso Scientific Names)	A book its	Dominont	Indicator	<u> </u>			
Vegetation (Use Scientific Names) Tree Stratum (Plot Size:)	Absolute % Cover	Dominant Species?		Dominance Test Number of domina			
1	70 00101	<u> </u>	Otatao	that are OBL, FAC		2	_ (A)
2				Total number of do	minant species	2	(D)
3.				across all strata: Percent of domina	nt species that		_ (B)
4				are OBL, FACW, o		100	_ (A/B)
50%=	er: 0						
Sapling/Shrub Stratum (Plot Size:)	% Cover	Species?	Status	Prevalence Index Total % Cover of:	Worksheet Multiply b)V	
1.					x 1 =	0	
2.				FACW Species		0	
3.				FAO.0 '		0	
4.				'	x 3 =		
50%=	or. 0			FACU Species			
Herb Stratum (Plot Size: _5')	% Cover	Species?	Status	UPL Species			
1. Glyceria striata	40	Y	OBL	Column Totals	(A)		(B)
2. Nuphar polysepala	40	Υ	OBL	Prevalence Index :	= B/A =	_	
3 Schoenoplectus acutus	5		OBL	Hydrophytic Vege	atation Indicator	·c	
4. Muhlenbergia filiformis	5		FACW	Rapid Test			on
5.				Dominance			
6				Prevalence		(nrovida	sunnortina
7					narks or on a sep		
					n-Vascular Plant		1./=
8	er. 90			Problemation 1 Indicators of hydro	: Hydrophytic Veo		
Woody/Vine Stratum (Plot Size:)		Species?	Status	be present.	e son and wettan	a riyare	nogy masi
1				Usalna nistatis M	dellan December 10		1
2.				Hydrophytic Vege	etation Present?	' ' ' ' ' ' ' ' ' '	1
50%=							
% Bare Ground in Herb Stratum % Cover of E		10					

\sim		1
\sim	ш	C
JU.	ш	

<u>nches</u>) <u>Color (moist)</u> -16 10YR 2/1	0/.	Redox Features	0/.	Typo1	Loc2	Toyturo	Domarks
10 1011 2/1	<u>%</u> 100	Color (moist)	<u>%</u>	<u>Type¹</u>	<u>Loc²</u>	Texture Muck	<u>Remarks</u>
				· 			
ypes: C = Concentration D =	= Depletion RM	= Reduced Matrix	2	Location: PL	= Pore Lin	ing M = Matrix	
ydric Soil Indicators: (App	olicable to all LR	Rs, unless otherwi	ise noted)		Indicators for	Problematic Hydric Soils
✓ Histosol (A1)		Sandy	Redox (S	S5)		2 cm M	luck (A10)
Histic Epipedon (A2))	Strippe	d Matrix	(S6)		Red Pa	rent Materials (TF21)
Black Histic (A3)		Loamy	Mucky M	lineral (<mark>exce</mark>	pt	Very SI	hallow Dark Surface (TF12
Hydrogen Sulfide (A	4)	MLRA	1) (F1)			Vegeta	ted Sand/Gravel Bars
Depleted Below Dark	k Surface (A11)	Loamy	Gleyed I	Matrix (F2)		Other (Explain in Remarks)
Thick Dark Surface ((A12)	Deplete	ed Matrix	(F3)			
Sandy Mucky Minera	al (S1)	Redox	Dark Sur	face (F6)		³ Indicators of	hydrophytic vegetation and
Sandy Gleyed Matrix	(S4)	Deplete	ed Dark S	Surface (F7)		wetland hydro	logy must be present.
		Redox	Depress	ons (F8)			
Restrictive Layer (if presen	it): Type: N/A		Depth (I	nches) N/A	Hydr	ric Soil Present?	√ (
Remarks							
Hydrology Wetland Indicators Primary Indicators (Minimum	m of one is requi	red Check all tha	ut annly)			Secondary Indi	cators (2 or more required
Wetland Indicators Primary Indicators (Minimur	m of one is requi					_	cators (2 or more required
Wetland Indicators Primary Indicators (Minimur Surface Water (A1)	,	Water	Stained L	eaves (B9)	except	Water S	Stained Leaves (B9) exce
Wetland Indicators Primary Indicators (Minimur Surface Water (A1) High Water Table (A	,	Water : MLRA	Stained L	and 4B)	except	Water S	Stained Leaves (B9) exce 1,2,4A, and 4B)
Wetland Indicators Primary Indicators (Minimur Surface Water (A1) ✓ High Water Table (A ✓ Saturation (A3)	,	Water : MLRA Salt Cr	Stained L . 1,2,4A , a ust (B11)	and 4B)	except	Water S MLRA Draina	Stained Leaves (B9) exce 1,2,4A, and 4B) ge Patterns (B10)
Wetland Indicators Primary Indicators (Minimur Surface Water (A1) ✓ High Water Table (A ✓ Saturation (A3) Water Marks (B1)	2)	Water : MLRA Salt Cr Aquatio	Stained L 1,2,4A, ust (B11) Inverteb	and 4B) orates (B13)	except	Water S MLRA Draina Dry-Se	Stained Leaves (B9) exception 1,2,4A, and 4B) Ge Patterns (B10) Sason Water Table (C2)
Wetland Indicators Primary Indicators (Minimur Surface Water (A1) ✓ High Water Table (A ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (2)	Water : MLRA Salt Cr Aquatio	Stained L 1,2,4A, ust (B11) Inverteb Jen Sulfid	orates (B13) le Odor (C1)	·	Water S MLRA Drainag Dry-Se Saturat	Stained Leaves (B9) exception 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) ion Visible on
Wetland Indicators Primary Indicators (Minimur Surface Water (A1) ✓ High Water Table (A ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B3)	2) B2)	Water : MLRA Salt Cr Aquatio Hydrog Oxidize	Stained L 1,2,4A, ust (B11) Inverteb Jen Sulfid	orates (B13) le Odor (C1) spheres (C3)	·	Water S MLRA Draina Dry-Se Saturat Aerial	Stained Leaves (B9) excella, 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) ion Visible on Imagery (C9)
Wetland Indicators Primary Indicators (Minimur Surface Water (A1) ✓ High Water Table (A ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B	2) B2)	Water : MLRA Salt Cr Aquatio Hydrog Oxidize	Stained L. 1,2,4A, aust (B11) converted pen Sulfided Rhizosace of Reconstants.	orates (B13) de Odor (C1) spheres (C3) duced Iron (·	Water S MLRA Draina Dry-Se Saturat Aerial ✓ Geomo	Stained Leaves (B9) exce 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) ion Visible on Imagery (C9) orphic Position (D2)
Wetland Indicators Primary Indicators (Minimur Surface Water (A1) ✓ High Water Table (A ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5)	2) B2) 34)	Water MLRA Salt Cr Aquation Hydrog Oxidize Presen Recent	Stained L 1,2,4A, ust (B11) Inverted Jen Sulfided Rhizos Ice of Red I Iron Red	orates (B13) le Odor (C1) spheres (C3) duced Iron (duction in	·	Water S MLRA Drainag Dry-Se Saturat Aerial ✓ Geomo	Stained Leaves (B9) exce 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) ion Visible on Imagery (C9) rphic Position (D2) v Aquitard (D3)
Wetland Indicators Primary Indicators (Minimur Surface Water (A1) ✓ High Water Table (A ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Drift Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks	2) B2) 34) (B6)	Water : MLRA Salt Cr Aquatio Hydrog Oxidize Presen Recent	Stained L. 1,2,4A, ust (B11) c Inverted Jen Sulfided Rhizostice of Rectal Iron Rectal Soils (C6	orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in	·	Water S MLRA Draina Dry-Se Saturat Aerial ✓ Geomo	Stained Leaves (B9) excella, 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) ion Visible on Imagery (C9) orphic Position (D2) or Aquitard (D3) eutral Test (D5)
Wetland Indicators Primary Indicators (Minimur Surface Water (A1) ✓ High Water Table (A ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B1) Iron Deposits (B5) Surface Soil Cracks ✓ Inundation Visible or	2) B2) 34) (B6)	Water MLRA Salt Cr Aquatio Hydrog Oxidize Presen Recent Tilled S	Stained L. 1,2,4A, ust (B11) c Inverted gen Sulfid ed Rhizos ace of Rec Iron Rec Soils (C6 d or Stres	orates (B13) le Odor (C1) spheres (C3) duced Iron (duction in	·	Water S MLRA Drainag Dry-Se Saturat Aerial ✓ Geomo Shallov FAC-N Raised	Stained Leaves (B9) except. 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) ion Visible on Imagery (C9) orphic Position (D2) or Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A)
Wetland Indicators Primary Indicators (Minimur Surface Water (A1) ✓ High Water Table (A ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B1) Iron Deposits (B5) Surface Soil Cracks ✓ Inundation Visible or Imagery (B7)	2) B2) 34) (B6) n Aerial	Water MLRA Salt Cr Aquation Hydrog Oxidize Present Recent Tilled Stunted (D1) (I	Stained L 1,2,4A, ust (B11) c Inverted gen Sulfid ed Rhizos ace of Red t Iron Red Soils (C6 d or Stres LRR A)	and 4B) prates (B13) le Odor (C1) spheres (C3) duced Iron (duction in) ssed Plants	·	Water S MLRA Drainag Dry-Se Saturat Aerial ✓ Geomo Shallov FAC-N Raised	Stained Leaves (B9) excella, 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) ion Visible on Imagery (C9) orphic Position (D2) or Aquitard (D3) eutral Test (D5)
Wetland Indicators Primary Indicators (Minimur Surface Water (A1) ✓ High Water Table (A ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B1) Iron Deposits (B5) Surface Soil Cracks ✓ Inundation Visible or	2) B2) 34) (B6) n Aerial	Water MLRA Salt Cr Aquation Hydrog Oxidize Present Recent Tilled Stunted (D1) (I	Stained L 1,2,4A, ust (B11) c Inverted gen Sulfid ed Rhizos ace of Red t Iron Red Soils (C6 d or Stres LRR A)	orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in	·	Water S MLRA Drainag Dry-Se Saturat Aerial ✓ Geomo Shallov FAC-N Raised	Stained Leaves (B9) exception 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) ion Visible on Imagery (C9) orphic Position (D2) or Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A)
Wetland Indicators Primary Indicators (Minimur Surface Water (A1) ✓ High Water Table (A ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks ✓ Inundation Visible or Imagery (B7) Sparsely Vegetated	2) B2) 34) (B6) n Aerial Concave	Water MLRA Salt Cr Aquation Hydrog Oxidize Present Recent Tilled: Stunted (D1) (I	Stained L 1,2,4A, ust (B11) c Inverted gen Sulfid ed Rhizos ace of Red t Iron Red Soils (C6 d or Stres LRR A)	and 4B) prates (B13) le Odor (C1) spheres (C3) duced Iron (duction in) ssed Plants	·	Water S MLRA Drainag Dry-Se Saturat Aerial ✓ Geomo Shallov FAC-N Raised	Stained Leaves (B9) exception 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) ion Visible on Imagery (C9) orphic Position (D2) or Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A)
Wetland Indicators Primary Indicators (Minimur Surface Water (A1) ✓ High Water Table (A ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks ✓ Inundation Visible or Imagery (B7) Sparsely Vegetated (Surface (B8)) Field Observations	2) B2) 34) (B6) n Aerial	Water Water MLRA Salt Cr Aquation Hydrog Oxidize Presen Recent Tilled Stunter (D1) (I	Stained L. 1,2,4A, ust (B11) c Inverted gen Sulfid ed Rhizos ace of Rec Iron Rec Soils (C6 d or Stres LRR A) Explain in	orates (B13) le Odor (C1) spheres (C3) duced Iron (duction in) ssed Plants In Remarks)	C4)	Water S MLRA Drainag Dry-Se Saturat Aerial ✓ Geomo Shallov FAC-N Raised	Stained Leaves (B9) exception 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) ion Visible on Imagery (C9) orphic Position (D2) or Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) Ileave Hummocks (D7)
Wetland Indicators Primary Indicators (Minimur Surface Water (A1) ✓ High Water Table (A ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B1) Iron Deposits (B5) Surface Soil Cracks ✓ Inundation Visible or Imagery (B7) Sparsely Vegetated (B8) Field Observations Surface Water Present? Yes	2) B2) 34) (B6) n Aerial Concave	Water water and	Stained L 1,2,4A, ust (B11) c Inverted gen Sulfid ed Rhizos ace of Red t Iron Red Soils (C6 d or Stres LRR A) (Explain in	and 4B) prates (B13) le Odor (C1) spheres (C3) duced Iron (C3) duction in) ssed Plants in Remarks)	C4)	Water S MLRA Drainag Dry-Se Saturat Aerial ✓ Geomo Shallov ✓ FAC-N Raised Frost-H	Stained Leaves (B9) exception 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) ion Visible on Imagery (C9) orphic Position (D2) or Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) Ileave Hummocks (D7)

Saturation and high water table provide wetland hydrology.

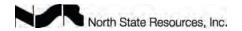


				Data Point		21
Wetland Determination Data Form-Western	n Mounta	ains, Vall	eys, & C	Coast Region Feature Type	Pond	
Project/Site: Fountain Wind		City/County	Shasta C	County	Date:	10/16/17
Applicant/Owner: Avangrid				State: CA		
Investigator(s): Gabe Youngblood			_ Section,	Township, Range Sec. 34, T35N,	R1E	
Landform (hillslope, terrace, etc.) Depression Subregion (LRR): MLRA 22B Lat: 40		_ Local relie	ef (concave,	convex, none) Concave	Slope 9	_% 1
					n: NA	D83
Soil Map Unit Name: Windy and McCarthy stony sandy lo	oams, 0 to	30 percent	slopes NV	VI Classification: PABFh		
Are climatic/hydrologic conditions on the site typical for this tir	-					
Are vegetation \(\sum \big \subseteq soil \(\sum \big \subseteq \text{lor hydrology} \subsete \subseteq significan	ntly disturbe	d? Are norn	nal circumst	tances present? 🗸 /		
Are vegetation \(\sum \subseteq \subseteq \subseteq \subseteq \subseteq \subseteq \lambda \text{soil} \(\supseteq \subseteq \subseteq \subseteq \text{vgrology} \subseteq \subseteq \text{Naturally} \)	problemation	c? (If neede	ed, explain i	'n Remarks.)		
Summary of Findings (Attach site map showing sampli	ng point loc	ations, trans	ects, impor	tant features, etc.)		
Hydrophytic vegetation? Hydric soil? Wetland	• .					
Evaluation of features designated "Other Wate	rs of tha	Unitad St	atos"			
Indicators: Defined bed and bank Scour _				apped Stream Width		
Feature Designation: Perennial Intermittent En	hemeral	Rlue-line	on HSGS	Quad Substrate		
Natural Drainage Artificial Drain			Vater	-		
Remarks _{DP} documents unvegetated portion of a	seasonal	pond.				
Vegetation (Use Scientific Names)	Absolute	Dominant		Dominance Test Worksheet		
Tree Stratum (Plot Size:)	% Cover	Species?		Number of dominant species		(4)
1				that are OBL, FACW, or FAC: Total number of dominant species		. (A)
2				across all strata:		(B)
3				Percent of dominant species that are OBL, FACW, or FAC:		(A/R)
4	0					. (1115)
Sapling/Shrub Stratum (Plot Size:)		Snecies?	Status	Prevalence Index Worksheet Total % Cover of: Multiply b	21/	
1	· ·		·	OBL Species x 1 =	~	
2				FACW Species x 2 =		_
3				· ·	0	
4				FACUS pecies x 3 =		
50%=	0			FACU Species x 4 =		
Herb Stratum (Plot Size:)		Species?	Status	UPL Species x 5 =		
1		•		Column Totals (A)		(B)
2				Prevalence Index = B/A =	_	
3				Hydrophytic Vegetation Indicator	`S	
4				Rapid Test for Hydrophytic \		on
5				Dominance Test is >50% Prevalence Index is < 3.01		
6				Morphological Adaptations ¹	(provide	supporting
7				data in Remarks or on a sep		neet)
8				Wetland Non-Vascular Plant Problematic Hydrophytic Ve		1 (Explain)
50%= Total Cover:				¹ Indicators of hydric soil and wetlan		
Woody/Vine Stratum (Plot Size:)		Species?	Status	be present.		
1				Hydrophytic Vegetation Present?	· 🗆 🖂]
2						
50%= Total Cover:						
% Bare Ground in Herb Stratum % Cover of Bio	tic Crust _					

_		
\mathbf{r}	١ı	c

rofile Depth	Description : (Description) Matrix		Redox Features					
jinches (inches) ()-6		<u>%</u> 100	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u> Loam	Remarks Sandy, very rocky
6-12	10YR 2/1	80	7.5YR 3/4	10		PL	Loam	Clay
			10YR 6/1	10	D	M	Loam	Clay
			-					•
Tynes:	C - Concentration D	– Denletion	RM = Reduced Matr	v :	21 ocation: P	I – Pore Lir	ning M = Ma	ıtriy
J.			all LRRs, unless othe			L - I OIC LII		s for Problematic Hydric Soils ³
•	Histosol (A1)	plicable to a	ali Livivs, uriless otile San					cm Muck (A10)
	Histic Epipedon (A2))		ped Matrix	-			ed Parent Materials (TF21)
	Black Histic (A3)	-/		•	Vineral (exc	ent		ery Shallow Dark Surface (TF12)
	Hydrogen Sulfide (A	44)		(F1) (F1)	viiriciai (CXC	срі		egetated Sand/Gravel Bars
	Depleted Below Da	-		, , ,	Matrix (F2)			ther (Explain in Remarks)
	Thick Dark Surface			eted Matrix				ther (Explain in Nemarks)
	Sandy Mucky Mine			ox Dark Su	, ,		³ Indicato	ors of hydrophytic vegetation and
	Sandy Gleyed Matr				Surface (F7)		hydrology must be present.
		(= .)	·	ox Depress	-	,		γ gy
				·				
D	ctive Layer (if prese	nt): Type: <u>I</u>	N/A	_ Depth (Inches) N/	<u>А</u> Hyd	ric Soil Pres	ent? ✓ /
Restric	(p	, ,, ,,						
Remai	rks				urface an	d indicat		leted Dark Surface.
Remail Soils Hydro	rks meet the require ology nd Indicators	ement for i	indicator F6 Redo	ox Dark S		d indicat	or F7 Dep	
Remail Soils Hydro	rks meet the require ology nd Indicators	ement for i		ox Dark S		d indicat	or F7 Dep	leted Dark Surface. y Indicators (2 or more required)
Remai Soils Hydro Wetlan Primar	rks meet the require ology nd Indicators	ement for i	indicator F6 Redo	x Dark S			or F7 Dep	
Remai Soils Hydro Wetlar Primar	rks meet the require ology nd Indicators y Indicators (Minimu Surface Water (A1) High Water Table (ement for i	indicator F6 Redorman F6 Redo	x Dark S	Leaves (B9)		or F7 Dep Secondar	y Indicators (2 or more required)
Remai Soils Hydro Wetlar Primar	rks meet the require ology nd Indicators y Indicators (Minimus Surface Water (A1)	ement for i	required. Check all	x Dark S that apply.)	Leaves (B9) and 4B)		or F7 Dep Secondar M M	y Indicators (2 or more required) /ater Stained Leaves (B9) except /ILRA 1,2,4A, and 4B) rainage Patterns (B10)
Remail Soils Hydro Wetlan Primar	neet the require ology nd Indicators y Indicators (Minimus Surface Water (A1) High Water Table (A1) Saturation (A3) Water Marks (B1)	ement for i	required. Check all Wat ML Salt ——— Aqu	chat apply.) er Stained RA 1,2,4A, Crust (B11	Leaves (B9) and 4B)) brates (B13	except	or F7 Dep Secondar W M D D	y Indicators (2 or more required) /ater Stained Leaves (B9) except /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2)
Remail Soils Hydro Wetlan Primar	neet the required ology Ind Indicators Indicators (Minimum of Minimum of Mini	ement for i	required. Check all Wat ML Salt Aqu Hyd	chat apply.) er Stained I RA 1,2,4A, Crust (B11 atic Inverte	Leaves (B9) and 4B)) brates (B13 de Odor (C1	except	or F7 Dep Secondar W M D D	y Indicators (2 or more required) /ater Stained Leaves (B9) except /ILRA 1,2,4A, and 4B) rainage Patterns (B10)
Remail Soils Hydro Wetlar Primar	rks meet the require ology nd Indicators y Indicators (Minimulation) Surface Water (A1) High Water Table (A1) High Water Table (A2) Water Marks (B1) Sediment Deposits Drift Deposits (B3)	ement for i	required. Check all Wat ML Salt —— Hyd —— Oxice	hat apply.) er Stained l RA 1,2,4A, Crust (B11 atic Inverter ogen Sulficetized Rhizo	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3) except	Secondar W D D S	y Indicators (2 or more required) /ater Stained Leaves (B9) except /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9)
Remail Soils Hydro Wetlan Primar	neet the required ology Ind Indicators Indicators (Minimum of Minimum of Mini	ement for i	required. Check all Wat ML Salt Aqu Hyd Oxio	chat apply.) er Stained I RA 1,2,4A, Crust (B11 atic Inverter rogen Sulfice ized Rhizo ence of Re	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3) except	Secondar Secondar M M D Secondar	y Indicators (2 or more required) /ater Stained Leaves (B9) except /LRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2)
Remail Soils Hydro Wetlan Primar	neet the required ology Ind Indicators Indicators (Minimum of Minimum of Mini	um of one is (B2)	required. Check all Wat ML Salt Aqu Hyd Oxio	hat apply.) er Stained l RA 1,2,4A, Crust (B11 atic Inverter ogen Sulficetized Rhizo	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3) except	Secondar Secondar M D C S G S S	y Indicators (2 or more required) /ater Stained Leaves (B9) except /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3)
Remail Soils Hydro Wetlan Primar	neet the require ology nd Indicators y Indicators (Minimum) Surface Water (A1) High Water Table (A1) Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust (Iron Deposits (B5)) Surface Soil Cracks	um of one is (B2) (B4) (B6)	required. Check all —— Wat ML —— Salt —— Aqu —— Hyd —— Oxid —— Pres —— Rec Tille	chat apply.) er Stained latic Inverter ogen Sulficited Rhizo ence of Realth Iron Realth Soils (Cé	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3 educed Iron duction in)))))) (C4)	Secondar Secondar M M Comparison Secondar M G G G G G F F	y Indicators (2 or more required) /ater Stained Leaves (B9) except /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on aerial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5)
Remail Soils Hydro Wetlan Primar	neet the required ology Ind Indicators Indicators (Minimulators (Minimul	um of one is (B2) (B4) (B6)	required. Check all wat ML Salt Aqu Hyd Voxic Pres Rec Tille	chat apply.) er Stained I RA 1,2,4A, Crust (B11 atic Inverter ogen Sulfice ized Rhizo ence of Recent Iron Re d Soils (Cotted or Stre	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3 educed Iron duction in)))))) (C4)	Secondar —— W —— D —— D —— S —— G —— S —— F —— R	y Indicators (2 or more required) /ater Stained Leaves (B9) except /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A)
Remail Soils Hydro Wetlan Primar	neet the required ology Ind Indicators Indicators (Minimulators (Minimul	ement for incomment for incomm	required. Check all wat ML Salt Aqu Hyd Voxic Pres Rec Tille Stur (D1	chat apply.) er Stained I RA 1,2,4A, Crust (B11 atic Inverte rogen Sulfic ized Rhizo ence of Re ent Iron Re d Soils (C6 ted or Stre) (LRR A)	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3 educed Iron duction in b) ssed Plants) except)))) (C4)	Secondar —— W —— D —— D —— S —— G —— S —— F —— R	y Indicators (2 or more required) /ater Stained Leaves (B9) except /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on aerial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5)
Remail Soils Hydre Wetlan Primar	meet the required cology and Indicators (Minimus Surface Water (A1) High Water Table (Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (Iron Deposits (B5) Surface Soil Cracks (Inundation Visible of Imagery (B7) Sparsely Vegetated	ement for incomment for incomm	required. Check all wat ML Salt Aqu Hyd Voxic Pres Rec Tille Stur (D1	chat apply.) er Stained I RA 1,2,4A, Crust (B11 atic Inverte rogen Sulfic ized Rhizo ence of Re ent Iron Re d Soils (C6 ted or Stre) (LRR A)	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3 educed Iron duction in) except)))) (C4)	Secondar —— W —— D —— D —— S —— G —— S —— F —— R	y Indicators (2 or more required) /ater Stained Leaves (B9) except /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A)
Remail Soils Hydre Wetlan Primar	neet the required ology Ind Indicators Indicators (Minimulators (Minimul	ement for incomment for incomm	required. Check all wat ML Salt Aqu Hyd Voxic Pres Rec Tille Stur (D1	chat apply.) er Stained I RA 1,2,4A, Crust (B11 atic Inverte rogen Sulfic ized Rhizo ence of Re ent Iron Re d Soils (C6 ted or Stre) (LRR A)	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3 educed Iron duction in b) ssed Plants) except)))) (C4)	Secondar —— W —— D —— D —— S —— G —— S —— F —— R	y Indicators (2 or more required) /ater Stained Leaves (B9) except /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A)
Remail Soils Hydro Wetlan Primar	meet the required cology and Indicators (Minimus Surface Water (A1) High Water Table (Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (Iron Deposits (B5) Surface Soil Cracks (Inundation Visible of Imagery (B7) Sparsely Vegetated Surface (B8)	ement for incum of one is A2) (B2) (B4) (B6) On Aerial I Concave	required. Check all ——————————————————————————————————	chat apply.) er Stained I RA 1,2,4A, Crust (B11 atic Inverte rogen Sulfic ized Rhizo ence of Re ent Iron Re d Soils (C6 ted or Stre) (LRR A) er (Explain	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3 educed Iron duction in b) ssed Plants in Remarks)) except)))))) (C4)	Secondar Secondar M D S S F F	y Indicators (2 or more required) /ater Stained Leaves (B9) except /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
Remail Soils Hydro Wetlan Primar	meet the required ology Ind Indicators Indicators (Minimulation (A3) Indicators (B1) Indicators (Minimulation (A3) Indicators (B3) Indicators (Minimulation (A3) Indicators (B3) Indicators (Minimulation (A3) Indicators (B3) Indicators (B	ement for income is um of one is A2) (B2) (B4) (B6) S (B6) On Aerial I Concave	required. Check all Wat ML Salt Aqu Hyd Oxic Pres Rec Tille Stur (D1 Othe	chat apply.) er Stained I RA 1,2,4A, Crust (B11 atic Inverter ogen Sulfice ized Rhizo ence of Recent Iron Re d Soils (Ce ted or Stre) (LRR A) er (Explain	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3 educed Iron duction in b) ssed Plants in Remarks)) except)))))) (C4)	Secondar —— W —— D —— D —— S —— G —— S —— F —— R	y Indicators (2 or more required) /ater Stained Leaves (B9) except /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
Remail Soils Hydro Wetlan Primar	meet the required ology Ind Indicators Indicators (Minimum of Indica	ement for incum of one is A2) (B2) (B4) (B6) On Aerial I Concave	required. Check all wat ML Salt Aqu Hyd Voxic Pres Rec Tille Stur (D1 Othe	chat apply.) er Stained I RA 1,2,4A, Crust (B11 atic Inverte rogen Sulfic ized Rhizo ence of Re ent Iron Re d Soils (C6 ted or Stre) (LRR A) er (Explain	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3 educed Iron duction in b) ssed Plants in Remarks)) except)))))) (C4)	Secondar Secondar M D S A F H Hydrology?	y Indicators (2 or more required) /ater Stained Leaves (B9) except /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)

Saturation provides wetland hydrology. Inundation visible on Google Earth imagery from 7/8/12



Wetland Determination Data Form-Western	n Mount:	ains Vall	evs & C	Data Point 22 Coast Region Feature Type Upland	_
			•		 7
Project/Site: Fountain Wind		City/County	Snasia C	County Date: 10/16/17	
Applicant/Owner: Avangrid				State: CA	
Investigator(s): Gabe Youngblood			_ Section	, Township, Range Sec. 34, T35N, R1E	-
Landform (hillslope, terrace, etc.) roadbank		_ Local relie	et (concave,	convex, none) Convex Slope % 20	-
Subregion (LRR): MLRA 22B Lat: 40					
Soil Map Unit Name: Windy and McCarthy stony sandy lo					_
Are climatic/hydrologic conditions on the site typical for this tir					
Are vegetation \(\sum \sqrt{Soil} \sqrt{Soil} \) Are vegetation \(\sqrt{Soil} \sqrt{Soil} \)					
Are vegetation \(\sqrt{\infty} soil \(\sqrt{\infty} \) or hydrology \(\sqrt{\infty} \) haturally	problemation	c? (If neede	ed, explain i	n Remarks.)	
Summary of Findings (Attach site map showing sampli	ng point loc	ations, trans	ects, impor	tant features, etc.)	
Hydrophytic vegetation? ✓ ☐ Hydric soil? ☐ ☒ Wetland	hydrology?	□ ⊠ Is s	ampled are	a a wetland? \Souther waters? \Souther \Souther \rightarrow \right	
Evaluation of features designated "Other Wate	rs of the	United St	ates"		_
Indicators: Defined bed and bank Scour _	Ordin	ary High Wa	ter Mark Ma	apped Stream Width	
Feature Designation: Perennial Intermittent En	hemeral	Blue-line	on USGS	Ouad Substrate	
Natural Drainage Artificial Drain					
Remarks Upland pair to Data Point 20 and 21. Da	ata point is	s located o	n the roa	d shoulder. The road acts as a dam causing	
water to pond seasonally.					
Vegetation (Use Scientific Names)	Absolute	Dominant		Dominance Test Worksheet	
Tree Stratum (Plot Size:)	% Cover	Species?	Status	Number of dominant species that are OPL FACW or FAC: 1 (A)	
1				that are OBL, FACW, or FAC:(A) Total number of dominant species	
2				across all strata:1 (B)	
3				Percent of dominant species that are OBL, FACW, or FAC: 100 (A/B)	
4	0			are OBL, FACW, or FAC: (A/B)	
		Cnasical	Ctatus	Prevalence Index Worksheet	
Sapling/Shrub Stratum (Plot Size: 15' Rubus armeniacus	<u>% Cover</u> 80	Species?	FAC	Total % Cover of: Multiply by	
2. Quercus Kelloggii	10	 N	UPL	OBL Species x 1 =	
3. Calocedrus decurrens	10	N	UPL	FACW Species x 2 =0	
4.				FAC Species x 3 =0	
50%=42.5 20%=17 Total Cover:	100			FACU Species x 4 =0	
Herb Stratum (Plot Size:)		Species?	Status	UPL Species x 5 =	
1				Column Totals (A) (B)	
2				Prevalence Index = B/A =	
3				Hydrophytic Vegetation Indicators	
4				Rapid Test for Hydrophytic Vegetation	
5				✓ Dominance Test is >50%	
6				Prevalence Index is $\leq 3.0^1$ Morphological Adaptations ¹ (provide supporting	າຕ
7				data in Remarks or on a separate sheet)	9
8				Wetland Non-Vascular Plants ¹	\
50%= Z0%= Total Cover:				Problematic Hydrophytic Vegetation ¹ (Explain) *Indicators of hydric soil and wetland hydrology must	
Woody/Vine Stratum (Plot Size:)		Species?	Status	be present.	
1		•		Hydrophytic Vegetation Present? ✓/	
2				Trydrophlytic vegetation Freschi: [+]/[_]	
50%=					
% Bare Ground in Herb Stratum 100 % Cover of Bio		0			

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Depth	escription: (De Matrix			Redox I						
inches))-12	Color (mo		<u>%</u> 00	Color	(moist)	<u>%</u>	Type ¹	<u>Loc²</u>	Texture Loam	Remarks Sandy
	Concentration		lotion .	DM Dodu	and Matrix)	Dara Lin		
	C = Concentration						Location: PL	= Pore Lin		
•	oil Indicators: ((Applicab	ie to ali							s for Problematic Hydric So
	Histosol (A1)	(40)			Sandy		-			cm Muck (A10)
	Histic Epipedon (Strippe					ed Parent Materials (TF21)
	Black Histic (A3)				,	•	Aineral (exce	ept		ery Shallow Dark Surface (TF
	Hydrogen Sulfide		Faga (A1	11\	MLRA		Motric (FO)			egetated Sand/Gravel Bars
	Depleted Below		ace (A)	-	,	•	Matrix (F2)		0	ther (Explain in Remarks)
	Thick Dark Surfa Sandy Mucky Mi		١		Deplete				3Indianta	ors of hydrophytic vegetation a
	Sandy Mucky Mi						rface (F6)			hydrology must be present.
	Sandy Gleyed M	aliix (54)					Surface (F7) ions (F8)		wellanu	nyurology must be present.
					Kedox	Dehress	10115 (F0)			
Restrict	tive Layer (if pre	esent): T	me· N/	۸		D 11 /1	nalaas N/Δ	Hydr	in Call Dans	ent? /X
11031110			yρc			Depth (I	nches) N/A	riyur	ic Soil Pres	ent?
Remarl No inc	ks dicators of hyd					Depth (I	inches) <u>1972</u>	Tiyui	ic Soil Pres	ent?
No incomplete Hydro	ks dicators of hyd logy d Indicators	dric soil:	s were	observe	d.		ncnes) <u>Two</u>	Tiyur		
No incomplete Hydro	ks dicators of hydelegy d Indicators / Indicators (Mini	dric soils	s were	observe	d. neck all tha	t apply.)			Secondar	y Indicators (2 or more requir
No incomplete Hydro Wetlan Primary	dicators of hydology d Indicators y Indicators (Mini	dric soils	s were	observe	d. neck all tha Water \$	t apply.) Stained L	Leaves (B9)		Secondar W	y Indicators (2 or more requir Vater Stained Leaves (B9) exc
Remarl No inco Hydro Wetlan Primary	dicators of hyd blogy d Indicators Indicators (Mini Surface Water (A	dric soils	s were	observe	d. neck all tha Water S MLRA	t apply.) Stained L 1,2,4 A ,	_eaves (B9) and 4B)		Secondar W	y Indicators (2 or more requir /ater Stained Leaves (B9) ex /ILRA 1,2,4A, and 4B)
Remark No inconstruction Hydro Wetlan Primary	dicators of hydelogy d Indicators Indicators (Mini Surface Water (A High Water Table Saturation (A3)	dric soils imum of c	s were	observe	d. neck all tha Water S MLRA Salt Cri	t apply.) Stained I 1,2,4A, ust (B11)	_eaves (B9) and 4B)		Secondar W M	y Indicators (2 or more requir /ater Stained Leaves (B9) ex /ILRA 1,2,4A, and 4B) rainage Patterns (B10)
Remark No inco Hydro Wetlan Primary	dicators of hydelicators of Indicators (Minicators (Minicators (Minicators (Minicators (Minicators (Minicators (Mater Tables)) Water Marks (B1)	imum of o	s were	observe	d. neck all tha Water S MLRA Salt Cri Aquatic	t apply.) Stained L 1,2,4A, ust (B11)	_eaves (B9) and 4B)) orates (B13)	except	Secondar W N D	y Indicators (2 or more requir /ater Stained Leaves (B9) ex /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2)
Remark No ince Hydro Wetlan Primary	dicators of hydelicators of hydelicators of hydelicators (Minimal Marks) Surface Water (All High Water Table Saturation (A3) Water Marks (B1) Sediment Depos	imum of a A1) e (A2) its (B2)	s were	observe	d. meck all tha Water S MLRA Salt Cro Aquatic Hydrog	t apply.) Stained I 1,2,4A, ust (B11) Inverted	Leaves (B9) and 4B)) prates (B13) de Odor (C1)	except	Secondar W	y Indicators (2 or more requir /ater Stained Leaves (B9) ex /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on
Remark No inco Hydro Wetlan Primary	dicators of hydelicators of hydelicators of hydelicators of hydelicators of hydelicators of high lighter water (A) Water Marks (B1) Sediment Deposits (B2)	imum of o	s were	observe	d. meck all tha Water S MLRA Salt Cri Aquatic Hydrog Oxidize	t apply.) Stained L 1,2,4A, ust (B11) Inverted en Sulfice	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3)	except	Secondar W M M D D C Sc A	y Indicators (2 or more requir /ater Stained Leaves (B9) exc /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9)
Remark No inco Hydro Wetlan Primary	dicators of hydelicators of hydelicators of hydelicators of Indicators (Minicators (Minica	imum of a A1) e (A2)) its (B2) 3) st (B4)	s were	observe	d. meck all tha Water S MLRA Salt Cri Aquatic Hydrog Oxidize Presen	t apply.) Stained L 1,2,4A, ust (B11) t Invertel en Sulfice d Rhizos	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (except	Secondar W D D D S A G	y Indicators (2 or more require/ later Stained Leaves (B9) exe ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on serial Imagery (C9) eomorphic Position (D2)
Remark No ince Hydro Wetlan Primary	dicators of hydelogy d Indicators Indicators (Mini Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Depos Drift Deposits (B: Algal Mat or Crus	imum of a A1) e (A2) its (B2) 3) st (B4)	s were	observe	d. Meck all tha Water S MLRA Salt Cri Aquatic Hydrog Oxidize Presen Recent	t apply.) Stained L 1,2,4A, ust (B11) Inverted en Sulficed Rhizos ce of Re Iron Rec	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in	except	Secondar W N D D S A G S S	y Indicators (2 or more requir /ater Stained Leaves (B9) exe /LRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3)
Remark No inco Hydro Wetlan Primary	dicators of hydelicators of hydelicators of hydelicators of Indicators (Minicators (Minica	imum of a A1) e (A2) its (B2) 3) st (B4) 5) cks (B6)	s were	observe	d. meck all tha Water S MLRA Salt Cro Aquatio Hydrog Oxidize Presen Recent Tilled S	t apply.) Stained L 1,2,4A, ust (B11) Inverted en Sulfice d Rhizos ce of Re Iron Rec Soils (C6	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in	except	Secondar	y Indicators (2 or more require/later Stained Leaves (B9) exceller 12,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) laturation Visible on leaveral Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5)
Remarl No ince Hydro Wetlan Primary	dicators of hydelicators of hydelicators of hydelicators of Indicators (Minicators (Minica	imum of a A1) e (A2) its (B2) 3) st (B4) 5) cks (B6)	s were	observe	d. meck all tha Water S MLRA Salt Cri Aquatic Hydrog Oxidize Presen Recent Tilled S Stunted	t apply.) Stained L 1,2,4A, ust (B11) Envertel en Sulfice d Rhizos ce of Re Iron Rec Soils (C6	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in	except	Secondar W M D D S A G S S R R	y Indicators (2 or more require/later Stained Leaves (B9) exemular 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on the leave (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR)
Remark No ince Hydro Wetlan Primary	dicators of hydelogy d Indicators Indicators (Mini Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Depos Drift Deposits (B1 Algal Mat or Crus Iron Deposits (B8 Surface Soil Crac Inundation Visibl	imum of call (A1) e (A2) its (B2) 3) st (B4) 5) cks (B6) e on Aeri	one is re	observe	d. meck all tha Water S MLRA Salt Cri Aquatic Hydrog Oxidize Presen Recent Tilled S Stunted (D1) (L	t apply.) Stained L 1,2,4A, ust (B11) Inverted en Sulficed Rhizos ce of Re Iron Rec Soils (C6 d or Stres	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in o) ssed Plants	except	Secondar W M D D S A G S S R R	y Indicators (2 or more require/later Stained Leaves (B9) exceller 12,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) laturation Visible on leaveral Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5)
Remark No inco Hydro Wetlan Primary	dicators of hydelicators of hydelicators of hydelicators of Indicators (Minicators (Minica	imum of call (A1) e (A2) its (B2) 3) st (B4) 5) cks (B6) e on Aeri	one is re	observe	d. meck all tha Water S MLRA Salt Cri Aquatic Hydrog Oxidize Presen Recent Tilled S Stunted (D1) (L	t apply.) Stained L 1,2,4A, ust (B11) Inverted en Sulficed Rhizos ce of Re Iron Rec Soils (C6 d or Stres	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in	except	Secondar W M D D S A G S S R R	y Indicators (2 or more require/later Stained Leaves (B9) exemular 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on the leave (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR)
Remark No inco Hydro Wetlan Primary	dicators of hydelicators of hydelicators of hydelicators of Indicators (Minicators (Minica	imum of call (A1) (A2) (A2) (B2) (B3) (B4) (B4) (B4) (B6) (B6) (B6) (B6)	one is re	observe	d. meck all tha Water S MLRA Salt Cri Aquatic Hydrog Oxidize Presen Recent Tilled S Stunted (D1) (L	t apply.) Stained L 1,2,4A, ust (B11) Inverted en Sulficed Rhizos ce of Re Iron Rec Soils (C6 d or Stres	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in o) ssed Plants	except	Secondar W M D D S A G S S R R	y Indicators (2 or more require/later Stained Leaves (B9) exemular 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on the leave (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR)
Remark No inco Hydro Wetlan Primary	dicators of hydelicators of hydelicators of hydelicators of hydelicators of indicators (Minited Marks (Minited Minited Marks (Minited Minited Marks (Minited Minited Marks (Minited Minited Marks (Minited Minited Marks (Minited Minited Marks (Minited Minited Marks (Minited Minited Marks (Minited Marks (Minited Marks (Minited Minited Marks (Minited Minited Minited Marks (Minited Minited Minited Minited Minited Minited Minited Minited Marks (Minited Minited	imum of call (A1) (A2) (A2) (B2) (B3) (B4) (B4) (B4) (B6) (B6) (B6) (B6)	one is re	equired. Ch	d. meck all tha Water S MLRA Salt Cri Aquatic Hydrog Oxidize Presen Recent Tilled S Stunted (D1) (L	t apply.) Stained L 1,2,4A, ust (B11) Invertel en Sulfice d Rhizos ce of Re Iron Rec Soils (C6 d or Stres RR A) Explain i	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in o) ssed Plants n Remarks)	except	Secondar W M D D S A G S S R R	y Indicators (2 or more require/later Stained Leaves (B9) exceller Stained Leaves (B9) exceller Stainage Patterns (B10) ray-Season Water Table (C2) laturation Visible on leaverial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) laised Ant Mounds (D6) (LRR rost-Heave Hummocks (D7)
Remark No inco Hydro Wetlan Primary	dicators of hydelicators of hydelicators of hydelicators of Indicators (Minicators (Minica	imum of on the control of the contro	al ave	observe	d. meck all tha Water S MLRA Salt Cri Aquatic Hydrog Oxidize Presen Recent Tilled S Stunted (D1) (L	t apply.) Stained L 1,2,4A, ust (B11) Inverted en Sulfice d Rhizos ce of Re Iron Rec Soils (C6 d or Stres .RR A) Explain i	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in o) ssed Plants n Remarks)	except	Secondar W M D D Si A G Si Fi R F	y Indicators (2 or more require/later Stained Leaves (B9) exceller Stained Leaves (B9) exceller Stainage Patterns (B10) ray-Season Water Table (C2) laturation Visible on leaverial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) laised Ant Mounds (D6) (LRR rost-Heave Hummocks (D7)

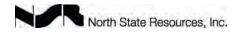


Wetland Determination Data Form-Western	n Mount:	ains Vall	lave & (Cast Pagion	Data Point Feature Type	 Ripar	23 ian Wetland
			•	· ·	reature Type		10/16/17
Project/Site: Fountain Wind Applicant/Owner: Avangrid		City/County	·	State: C		Date:	
<u> </u>			Soction	, Township, Range _S	ec. 34, T35N, F	 R1E	-
Landform (hillslope, terrace, etc.) Depression		L ocal rolid	_ Section	convoy popol Con	cave	Slong	% <u>1</u>
Subregion (LRR): MLRA 22B Lat: 40).841404°		Long:_	-121.861956°	Datum	n: NA	⁷⁰
Soil Map Unit Name: Windy and McCarthy stony sandy le	oams, 0 to	30 percent	slopes N	NI Classification: PE	M1C		
Are climatic/hydrologic conditions on the site typical for this tin Are vegetation ☐/☒soil ☐/☒or hydrology☐/☒significan Are vegetation ☐/☒soil ☐/☒or hydrology☐/☒haturally	ntly disturbe	d? Are norn	nal circums	tances present?			
Summary of Findings (Attach site map showing sampli Hydrophytic vegetation? Hydric soil? Wetland					Other waters?]/X	
Evaluation of features designated "Other Wate Indicators: Defined bed and bank Scour _ Feature Designation: Perennial Intermittent Ep Natural Drainage Artificial Drain Remarks DP documents a riparian wetland.	Ordin hemeral	ary High Wa Blue-lin	iter Mark M e on USGS	Quad Substi	Width rate		
Vegetation (Use Scientific Names) Tree Stratum (Plot Size: 30') 1. Pinus ponderosa 2 3	Absolute % Cover 3	Dominant Species?		Dominance Test Number of domina that are OBL, FAC Total number of do across all strata: Percent of domina	nt species W, or FAC: ominant species nt species that	2 3 66	_ (A) _ (B) _ (A/B)
4	3 % Cover	Species?	<u>Status</u>	are OBL, FACW, of Prevalence Index Total % Cover of:		<u>)y</u>	_ (A/B)
1. Rubus armeniacus	70	Y	FAC	OBL Species	x 1 =	0	
2. Salix scouleriana	20	Y	FAC_	FACW Species	x 2 =	0	
3. Rosa californica	4	N	_FAC_	FAC Species	x 3 =	0	
4				FACU Species	x 4 =	0	_
50%= 47 20%= 18.8 Total Cover:				UPL Species	x 5 =	0	
Herb Stratum (Plot Size:)		Species?		Column Totals			(B)
1 2				Prevalence Index :	= B/A =	_	
3.				Hydrophytic Vege Rapid Test Dominance Prevalence Morphologic data in Ren Wetland No	for Hydrophytic V Test is >50% Index is $\leq 3.0^{1}$ cal Adaptations ¹ (narks or on a sep	egetati (provide arate st	e supporting
8				Problemation	: Hydrophytic Veg	getation	
50%=		C ' C	Ct-t	¹ Indicators of hydra be present.	ic soli and wetlan	a nyara	nogy must
Woody/Vine Stratum (Plot Size:)		Species?					1
1. 2.				Hydrophytic Vege	etation Present?	' ∠ /∟	1
50%= Total Cover:							
% Bare Ground in Herb Stratum 100 % Cover of Bio							

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rofile De Depth	e scription : (D Matri		to the de	oth needed to do Redox Feat		ndicator or co	onfirm the a	absence of i	ndicators.
inches)	Color (m		%	Color (moi		Type ¹	Loc ²	Texture	Remarks
)-21	7.5YR 3/1	01017	95	7.5YR3/4	5	<u>- урс</u> С	PL	Loam	Sandy
ypes: (C = Concentration	n D = D	epletion	RM = Reduced N	—— ——— Natrix	² Location: P	L = Pore Lir	ning M = Ma	ıtrix
-			•	I LRRs, unless o					s for Problematic Hydric Soils
•	Histosol (A1)	(, ibbiio	a b 10 to a1		Sandy Redox (cm Muck (A10)
	Histic Epipedon	(A2)			Stripped Matrix				ed Parent Materials (TF21)
	Black Histic (A3				oamy Mucky	. ,	ept		ery Shallow Dark Surface (TF12)
	Hydrogen Sulfic				/ILRA 1) (F1)				egetated Sand/Gravel Bars
	Depleted Below		urface (A		oamy Gleyed				ther (Explain in Remarks)
	Thick Dark Surf		•	•	Depleted Matri				and (Explain in Normanie)
	Sandy Mucky M	•	,		Redox Dark Su			³ Indicato	ors of hydrophytic vegetation and
	Sandy Gleyed N				Depleted Dark	. ,	')		hydrology must be present.
		(-	• • •		Redox Depres	-	,		J. 1 135
			N.I.				Λ		
Pactrict	tive Layer (if pr	esent):	Type: N	/A	Depth	(Inches) N/	A Hyd	ric Soil Pres	ent? ✓
Remark	ks								
Remark		uireme	nts for i	indicator F6 F	Redox Dark	Surface.			
Remark		uireme	nts for i	indicator F6 F	Redox Dark	Surface.			
Remark Soils r	meet the req	uireme	ents for i	indicator F6 F	Redox Dark	Surface.			
Remark Soils r Hydro Wetlan	neet the required blogy dindicators			indicator F6 F				Secondar	y Indicators (2 or more required)
Remark Soils r Hydro Wetlan Primary	neet the required blogy d Indicators (Min	nimum c		equired. Check	all that apply.)	lovcont		-
Remark Soils r Hydro Wetlan Primary	neet the required blogy d Indicators Indicators (Min	nimum c		equired. Check	all that apply.) Leaves (B9)	except	W	/ater Stained Leaves (B9) excep
Remark Soils r Hydro Wetlan Primary	blogy d Indicators Indicators (Min	nimum c		equired. Check \	all that apply. Vater Stained WLRA 1,2,4A) Leaves (B9) , and 4B)) except	W	/ater Stained Leaves (B9) excep /ILRA 1,2,4A, and 4B)
Remark Soils r Hydro Wetlan Primary	blogy d Indicators Indicators (Mir Surface Water (High Water Tab	nimum o (A1) Ile (A2)		equired. Check\	all that apply. Vater Stained VLRA 1,2,4A, Salt Crust (B1) Leaves (B9) , and 4B) I)		W D	/ater Stained Leaves (B9) excep /ILRA 1,2,4A, and 4B) rainage Patterns (B10)
Remark Soils r Hydro Wetlan Primary	blogy d Indicators Indicators (Min Surface Water (High Water Tab Saturation (A3) Water Marks (B	nimum c (A1) Ile (A2)	of one is r	equired. Check\\\	all that apply. Vater Stained MLRA 1,2,4A, Salt Crust (B1) Leaves (B9) , and 4B) I) ebrates (B13)	W D D	/ater Stained Leaves (B9) excep /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2)
Remark Soils r Hydro Wetlan Primary	blogy d Indicators Indicators (Min Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Depo	nimum c (A1) le (A2) 1) sits (B2)	of one is r	equired. Check\	all that apply. Vater Stained MLRA 1,2,4A Salt Crust (B1	Leaves (B9) , and 4B) l) ebrates (B13 de Odor (C1)	W D D S	/ater Stained Leaves (B9) excep /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on
Remark Soils r Hydro Wetlan Primary	blogy d Indicators Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Depo	(A1) le (A2) 1) sits (B2)	of one is r	equired. Check\\\\\\\	all that apply. Vater Stained MLRA 1,2,4A, Salt Crust (B1 ² Aquatic Inverted Hydrogen Sulfi Oxidized Rhizo	Leaves (B9), and 4B) I) Borates (B13) Ide Odor (C1) Ospheres (C3))) 3)	W D D S	Vater Stained Leaves (B9) excepulation (B9) excepulation (B9) excepulation (B10) excepula
Remark Soils r Hydro Wetlan Primary	d Indicators Indicators (Min Surface Water (High Water Tab Saturation (A3) Water Marks (B) Sediment Depo Drift Deposits (E) Algal Mat or Cru	nimum c (A1) lle (A2) 1) sits (B2) 33) ust (B4)	of one is r	equired. Check\\\F	all that apply. Vater Stained MLRA 1,2,4A, Salt Crust (B1 ² Aquatic Inverted Hydrogen Sulfict Oxidized Rhize Presence of Re	Leaves (B9), and 4B) bbrates (B13) de Odor (C1) espheres (C3))) 3)	W D D S S	Vater Stained Leaves (B9) exception of the American American (B10) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on the American Imagery (C9) eomorphic Position (D2)
Remark Soils r Hydro Wetlan Primary	blogy d Indicators Indicators (Min Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (E Algal Mat or Cru ron Deposits (E	1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1	of one is r	equired. Check\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	all that apply. Vater Stained MLRA 1,2,4A, Salt Crust (B1 Aquatic Inverte Hydrogen Sulfi Oxidized Rhizo Presence of Re Recent Iron Re	Leaves (B9) , and 4B) l) ebrates (B13 de Odor (C1 ospheres (C3 educed Iron eduction in)))	W D D S: G S	Vater Stained Leaves (B9) excepulLRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3)
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Remark Soils r Hydro Wetlan Primary	blogy d Indicators Indicators (Min Surface Water (High Water Tab Saturation (A3) Water Marks (B) Sediment Depo Drift Deposits (E) Algal Mat or Cru ron Deposits (E) Surface Soil Cra nundation Visik	1) sits (B2) 33) ust (B4) acks (B6	of one is r	equired. Check\\\\\\F	all that apply. Vater Stained MLRA 1,2,4A Salt Crust (B1 Aquatic Inverte Hydrogen Sulfi Oxidized Rhize Presence of Re Recent Iron Re Tilled Soils (C	Leaves (B9), and 4B) Ebrates (B13) de Odor (C1) espheres (C3) educed Iron eduction in 6)) 1) 3) (C4)	W D S: G G SI F	/ater Stained Leaves (B9) excep /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on derial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A)
Remark Soils r Hydro Wetlan Primary	blogy d Indicators Indicators (Mir Surface Water (High Water Tabs) Saturation (A3) Water Marks (B) Sediment Depo Drift Deposits (E) Algal Mat or Cru ron Deposits (E) Surface Soil Cra nundation Visib	nimum of (A1) le (A2) 1) sits (B2) 33) ust (B4) acks (B6 ole on A6	of one is r	equired. Check\\\\FF	all that apply. Vater Stained MLRA 1,2,4A, Salt Crust (B1' Aquatic Inverted Hydrogen Sulfict Oxidized Rhize Presence of Reference of Reference of Reference of Reference of Reference of Reference of State (D1) (LRR A)	Leaves (B9), and 4B) Ebrates (B13) de Odor (C1) ospheres (C3) educed Iron eduction in 6) essed Plants) 1) 33) (C4)	W D S: G G SI F	Vater Stained Leaves (B9) exception of the American Patterns (B10) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Lerial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5)
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Remark Soils r Hydro Wetlan Primary	blogy d Indicators Indicators (Min Surface Water (High Water Tab Saturation (A3) Water Marks (B) Sediment Depo Drift Deposits (B) Algal Mat or Cru ron Deposits (B) Surface Soil Cra nundation Visib Imagery (B7) Sparsely Veget	nimum of (A1) le (A2) 1) sits (B2) 33) ust (B4) acks (B6 ole on A6	of one is r	equired. Check	all that apply. Vater Stained MLRA 1,2,4A, Salt Crust (B1' Aquatic Inverted Hydrogen Sulfict Oxidized Rhize Presence of Reference of Reference of Reference of Reference of Reference of Reference of State (D1) (LRR A)	Leaves (B9), and 4B) Ebrates (B13) de Odor (C1) ospheres (C3) educed Iron eduction in 6) essed Plants) 1) 33) (C4)	W D S G SI F F F	/ater Stained Leaves (B9) excep //LRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
Remark Soils r Hydro Wetlan Primary	blogy d Indicators Indicators (Mir Surface Water (High Water Tabs) Saturation (A3) Water Marks (B) Sediment Depo Drift Deposits (E) Algal Mat or Cru ron Deposits (E) Surface Soil Cra nundation Visib Imagery (B7) Sparsely Vegeta Surface (B8)	nimum of (A1) le (A2) 1) sits (B2) 33) ust (B4) B5) acks (B6 ale on Acated Co	of one is r	equired. Check V	all that apply. Vater Stained MLRA 1,2,4A, Salt Crust (B1' Aquatic Inverted Hydrogen Sulfict Oxidized Rhize Presence of Reference of Reference of Reference of Reference of Reference of Reference of State (D1) (LRR A)	Leaves (B9) and 4B) brates (B13 de Odor (C1) espheres (C3) educed Iron eduction in 6) essed Plants in Remarks) 1) 33) (C4)	W D S: G G SI F	/ater Stained Leaves (B9) excep /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
Remark Soils r Hydro Wetlan Primary	blogy d Indicators Indicators (Min Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (B Algal Mat or Cru ron Deposits (B Surface Soil Cra nundation Visib Imagery (B7) Sparsely Veget Surface (B8)	nimum of (A1) le (A2) 1) sits (B2) 33) ust (B4) B5) acks (B6 ale on Acated Co	of one is r	equired. Check V	all that apply. Vater Stained MLRA 1,2,4A, Salt Crust (B1* Aquatic Inverted Dyxidized Rhizo Presence of Reference of Reference of Reference of Reference of Reference of Stanted or Street (D1) (LRR A) Other (Explain	Leaves (B9), and 4B) Ebrates (B13) de Odor (C1 Despheres (C3 Deducted Iron Eduction in Edu) 1) 33) (C4)	W D S G SI F F F	/ater Stained Leaves (B9) excep /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)

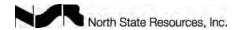
Oxidized rhizospheres indicate long duration saturation.



					Data Point			
Wetland Determination Data Form-Wes	stern Mount	ains, Vall	leys, & C	Coast Region	Feature Type	Uplai	nd 	
Project/Site: Fountain Wind		City/County	Shasta 0	County		Date:	10/16/17	
Applicant/Owner: Avangrid		State: <u>CA</u>						
Investigator(s): Gabe Youngblood			Section	, Township, Range S		R1E	_	
Landform (hillslope, terrace, etc.) Hillslope		Local relie	ef (concave	convex, none) Con	vex	Slope	_% 10	
Subregion (LRR): MLRA 22B Lat:	40.841477°	_	Lona:	-121.861999°	Datur	n: NA	AD83	
Soil Map Unit Name: Windy and McCarthy stony sa		30 percent	slopes N	VI Classification: N/A	\			
Are climatic/hydrologic conditions on the site typical for								
Are vegetation \(\sum \subseteq \si	-				٦			
Are vegetation Xsoil Xor hydrology Arabasis	-				_			
			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				
Summary of Findings (Attach site map showing s					. –			
Hydrophytic vegetation? 🔽 🗌 Hydric soil? 🔲 🔀 We	etland hydrology?	∐ ⊠ Is s	sampled are	a a wetland? LNX	Other waters?			
Evaluation of features designated "Other Valuations: Defined bed and bank Sc Feature Designation: Perennial Intermittent Natural Drainage Artificial Remarks Upland pair to Data Point 23 Riparia	cour Ordin Ephemeral Drainage	ary High Wa Blue-lin	iter Mark M e on USGS	Ouad Substr	ate			
Vegetation (Use Scientific Names) Tree Stratum (Plot Size: 30') 1. Pinus ponderosa	Absolute <u>% Cover</u> 10	Dominant Species? Y		Dominance Test Number of domina that are OBL, FAC	nt species	2	_ (A)	
Salix scouleriana	10	Υ	FAC	Total number of do		3		
3. Cornus nuttallii	5	N	FACU	across all strata: Percent of dominar	nt species that		_ (B)	
Quercus Kelloggii	2	N	UPL	are OBL, FACW, o		66	_ (A/B)	
50%=_13.5 20%=_5.4 Total C	27							
Sapling/Shrub Stratum (Plot Size:)	% Cover	Species?	Status	Prevalence Index Total % Cover of:)V		
1 Rubus armeniacus	70	Y	FAC	OBL Species		-		
2. Ceanothus integerrimus	5	N	UPL	FACW Species				
3.					x 3 =	_		
4.				· ·				
50%= 37.5 20%= 15 Total C	cover:			FACU Species				
Herb Stratum (Plot Size:)		Species?	Status	UPL Species				
1		•		Column Totals			(B)	
2.				Prevalence Index =	= B/A =			
3.				Hydrophytic Vege	atation Indicator	·c		
4.				Rapid Test			ion	
5				✓ Dominance	Test is >50%	Ü		
6.				Prevalence Morphologic	Index is $\leq 3.0^{\circ}$	(nrovid	o sunnortin	
					arks or on a sep			
7				Wetland No	n-Vascular Plant	s ¹	•	
8					Hydrophytic Veg			
50%=		C ' C	Chil	¹ Indicators of hydri be present.	ı Sun anu Wenar	и пуиго	nogy must	
Woody/Vine Stratum (Plot Size:)		•					7	
1				Hydrophytic Vege	etation Present?			
2								
50%=	OVAr. U			1				

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Depth	escription: (Descr Matrix		Redo	x Features					
inches))-12	Color (moist) 7.5YR 3/1	<u>%</u> 100	<u>Col</u>	or (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u> Loam	Remarks Sandy
						·			
						- 			
ypes: (C = Concentration D	= Depletion	RM = Red	duced Matrix	2	Location: PL	= Pore Lini	ing M = Ma	trix
ydric S	oil Indicators: (Ap	plicable to a	all LRRs, u	nless otherw	ise noted)		Indicator	s for Problematic Hydric Soi
l	Histosol (A1)		_	Sandy	Redox (S	S5)		2	cm Muck (A10)
	Histic Epipedon (A2))	_	Strippe					ed Parent Materials (TF21)
	Black Histic (A3)		_	,	•	/lineral (exce	ept		ery Shallow Dark Surface (TF1
	Hydrogen Sulfide (A	-			1) (F1)				egetated Sand/Gravel Bars
	Depleted Below Dar	-	A11) _	,	•	Matrix (F2)		0	ther (Explain in Remarks)
	Thick Dark Surface	. ,	-	•	ed Matrix				
	Sandy Mucky Miner		-			rface (F6)			rs of hydrophytic vegetation ar
	Sandy Gleyed Matri	x (S4)	-	•		Surface (F7)		wetland l	hydrology must be present.
			_	Redox	Depress	ions (F8)			
Restrict	tive Layer (if preser	nt): Type: N	V/A		Dandh /	nches) N/A	Hvdr	io Coil Droc	ent? /X
			•,,,,		Depin (i	1101103)		ic Soil Pres	CHL: //
Remarl No inc	ks dicators of hydric			/ed.	Depin (i	nuics) ———		ic Soli Pres	ent: '/\
Remark No inco Hydro Wetlan	ks dicators of hydric blogy d Indicators	soils wer	re observ			nuics) ———			
Remarl No inconstruction Hydro Wetlan Primary	ks dicators of hydric blogy d Indicators y Indicators (Minimu	soils wer	re observ	Check all tha	it apply.)			Secondar	y Indicators (2 or more require
Remarl No inc Hydro Wetlan Primary	ks dicators of hydric plogy d Indicators y Indicators (Minimu Surface Water (A1)	soils wer	re observ	Check all tha	ut apply.) Stained L	Leaves (B9)		Secondar W	y Indicators (2 or more require Vater Stained Leaves (B9) exce
Remarl No inc Hydro Wetlan Primary	ks dicators of hydric blogy d Indicators y Indicators (Minimu Surface Water (A1) High Water Table (A	soils wer	re observ	Check all tha Water : MLRA	it apply.) Stained L	Leaves (B9)		Secondar W N	y Indicators (2 or more require /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B)
Remarl No inc Hydro Wetlan Primary	d Indicators (Minimu) Surface Water (A1) High Water Table (A	soils wer	re observ	Check all tha Water: MLRA Salt Cr	st apply.) Stained L 1,2,4A, ust (B11)	Leaves (B9) and 4B)		Secondar W D	y Indicators (2 or more require later Stained Leaves (B9) exce ILRA 1,2,4A, and 4B) rainage Patterns (B10)
Remarl No inc Hydro Wetlan Primary	dicators of hydrical plogy Indicators (Minimu) Surface Water (A1) High Water Table (A1) Saturation (A3) Water Marks (B1)	m of one is	re observ	Check all tha Water : MLRA Salt Cr Aquatic	stained L 1,2,4A, ust (B11)	_eaves (B9) and 4B)) orates (B13)		Secondar W N Di	y Indicators (2 or more require /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2)
Remarl No ince Hydro Wetlan Primary	dicators of hydrical blogy Indicators (Minimu) Surface Water (A1) High Water Table (A) Saturation (A3) Water Marks (B1) Sediment Deposits	m of one is	re observ	Check all tha Water : MLRA Salt Cr Aquation	st apply.) Stained L 1,2,4A, ust (B11) C Inverted Jen Sulfic	Leaves (B9) and 4B) orates (B13) de Odor (C1)	except	Secondar W N Di Di	y Indicators (2 or more require /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on
Remarl No inco	dicators of hydrical plogy Indicators (Minimular Minimular Minimu	m of one is	re observ	Check all tha Water : MLRA Salt Cr Aquatic Hydrog Oxidize	stained L 1,2,4A, ust (B11) c Inverted gen Sulficed Rhizos	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3)	except	Secondar W N Di Control Si A	y Indicators (2 or more require /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9)
Remarl No inco Hydro Wetlan Primary	dicators of hydrical plogy Indicators (Minimu) Surface Water (A1) High Water Table (A1) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (I	m of one is	re observ	Check all tha Water MLRA Salt Cr Aquatio Hydrog Oxidize	stained L 1,2,4A, ust (B11) c Inverted gen Sulficed Rhizos ace of Re	Leaves (B9) and 4B) orates (B13) de Odor (C1)	except	Secondar W N D D D S A A	y Indicators (2 or more require /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on serial Imagery (C9) eomorphic Position (D2)
Remarl No inc Hydro Wetlan Primary	dicators of hydrical plogy Indicators (Minimular Minimular Minimu	m of one is (B2)	re observ	Check all tha Water: MLRA Salt Cr Aquatic Hydrog Oxidize Presen	st apply.) Stained L 1,2,4A, ust (B11) c Inverted gen Sulfice d Rhizos ace of Re t Iron Rec	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in	except	Secondar W N Di Control Si A Control Si	y Indicators (2 or more require /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3)
Remarl No inco Hydro Wetlan Primary	dicators of hydrical blogy Indicators (Minimus Surface Water (A1) High Water Table (A1) High Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (Illron Deposits (B5)	m of one is (B2) (B2) (B6)	re observ	Check all tha Water: MLRA Salt Cr Aquatio Hydrog Oxidize Presen Recent	stained L 1,2,4A, ust (B11) c Inverted gen Sulfice ded Rhizos ace of Re t Iron Rec Soils (C6	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in	except	Secondar W N Di Si A G Si Fr	y Indicators (2 or more require /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5)
Remarl No ince Hydro Wetlan Primary	dicators of hydrical blogy Indicators (Minimular Label (A) Surface Water (A1) High Water Table (A) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (I) Iron Deposits (B5) Surface Soil Cracks Inundation Visible o	m of one is (B2) (B2) (B6)	re observ	Check all that Water : MLRA Salt Cr Aquation Hydroo Oxidize Present Recent Tilled : Stunter	stained L 1,2,4A, ust (B11) c Inverted gen Sulfice ded Rhizos ace of Re t Iron Rec Soils (C6	Leaves (B9) of and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in	except	Secondar W N Di Control Si A Control Fr R R	y Indicators (2 or more require /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3)
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Remarl No inco Hydro Wetlan Primary	dicators of hydrical blogy Indicators (Minimular Label (A) Surface Water (A1) High Water Table (A) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (I) Iron Deposits (B5) Surface Soil Cracks Inundation Visible o	m of one is (B2) (B2) (B6) n Aerial	re observ	Check all tha Water : MLRA Salt Cr Aquatic Hydrog Oxidize Presen Recent Tilled : Stunted (D1) (I	st apply.) Stained L 1,2,4A, ust (B11) c Inverted pen Sulfice d Rhizos ace of Re t Iron Rec Soils (C6 d or Stres LRR A)	Leaves (B9) of and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in	except	Secondar W N Di Control Si A Control Fr R R	y Indicators (2 or more require /ater Stained Leaves (B9) excending for the stained Leaves (B9) excending for the stainage Patterns (B10) ry-Season Water Table (C2) for the stain of the s
Remarl No inco Hydro Wetlan Primary	dicators of hydrical plogy ad Indicators y Indicators (Minimu) Surface Water (A1) High Water Table (A) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (II Iron Deposits (B5) Surface Soil Cracks Inundation Visible of Imagery (B7) Sparsely Vegetated	m of one is (B2) (B2) (B6) n Aerial	re observ	Check all tha Water : MLRA Salt Cr Aquatic Hydrog Oxidize Presen Recent Tilled : Stunted (D1) (I	st apply.) Stained L 1,2,4A, ust (B11) c Inverted pen Sulfice d Rhizos ace of Re t Iron Rec Soils (C6 d or Stres LRR A)	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in) sseed Plants	except	Secondar W N Di Control Si A Control Fr R R	y Indicators (2 or more require /ater Stained Leaves (B9) excending for the stained Leaves (B9) excending for the stainage Patterns (B10) ry-Season Water Table (C2) for the stain of the s
Remark No inco Hydro Wetlan Primary	dicators of hydrical plogy Indicators Indicator I	m of one is (B2) (B34) (B6) n Aerial Concave	re observ	Check all tha Water : MLRA Salt Cr Aquatic Hydrog Oxidize Presen Recent Tilled : Stunted (D1) (I	stained L 1,2,4A, ust (B11) c Inverted gen Sulfice ed Rhizos ace of Re t Iron Rec Soils (C6 d or Stres LRR A) (Explain i	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in) sseed Plants n Remarks)	except	Secondar W N Di Control Si A Control Fr R R	y Indicators (2 or more require /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR /
Remark No inco Hydro Wetlan Primary	dicators of hydrical plogy Indicators (Minimus	m of one is (B2) (B6) n Aerial Concave	required.	Check all that Water : MLRA Salt Cr Aquatio Hydrog Oxidize Present Recent Tilled : Stunted (D1) (I	st apply.) Stained L 1,2,4A, ust (B11) c Inverted gen Sulfice d Rhizos ace of Re i Iron Rec Soils (C6 d or Stres _RR A) [Explain i	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in) ssed Plants n Remarks)	except	Secondar W N Di Si A G SI F R F	y Indicators (2 or more require /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR /



Wellerd Determine the Dete Forms West	M	alaa Mall	l 0 (Danis Danis	Data Point	Intorn	25 nittent Stream
Wetland Determination Data Form-West			•	•	Feature Type		
Project/Site: Fountain Wind		City/County	Shasta (Date:	10/23/17
Applicant/Owner: Avangrid				State: <u>C</u>			-
Investigator(s): Gabe Youngblood			_ Section	, Township, Range S	ec. 36, 135N, F	R1E	
Landform (hillslope, terrace, etc.) Drainage	40.040000	_ Local relie	ef (concave	, convex, none) Conc	cave	Slope	%2
Subregion (LRR): MLRA 22B Lat: Lat: Soil Map Unit Name: Gasper-Scarface complex, mois				-121.807661°		: <u>NA</u>	ND83
•							
Are climatic/hydrologic conditions on the site typical for thi					٦		
Are vegetation Wsoil Wor hydrology Asignif							
Are vegetation /⊠soil /⊠or hydrology /⊠hatur	ally problemati	c? (II neeae	ea, expiain i	IN Remarks.)			
Summary of Findings (Attach site map showing sar							
Hydrophytic vegetation? 🔲 🔀 Hydric soil? 🔲 🔀 Wetla	and hydrology?	√ Is s	sampled are	ea a wetland? 🔲 🗵	Other waters? ✓	/	
Evaluation of features designated "Other Wa	aters of the	United St	ates"	_			
indicators: Defined bed and bank 🔟 Scou	ır 🖊 Ordin	ary High Wa	iter Mark M	apped Stream	Width 2'		
Indicators: Defined bed and bank Scou Feature Designation: Perennial Intermittent Natural Drainage Artificial Dr	Ephemeral	Blue-lin	e on USGS Nator	Quad _ Substr	ate Soil & Gravel		
		ivavigable v					
Remarks _{DP documents} OHWM of an intermitte	ent stream.						
Vegetation (Use Scientific Names)	Absolute	Dominant		Dominance Test \			
Tree Stratum (Plot Size:)	% Cover	Species?	<u>Status</u>	Number of dominate that are OBL, FAC			_ (A)
1				Total number of do			_ (A)
2				across all strata:			_ (B)
3				Percent of dominar are OBL, FACW, o			_ (A/B)
4	0			die OBE, i riow, o			_ (/ (/ D)
Sapling/Shrub Stratum (Plot Size:)		Species?	Status	Prevalence Index			
	70 COVEL	<u>Species:</u>	Status	Total % Cover of:		_ ^	
1 2.				'	x 1 =		
2.				FACW Species		0	
<u> </u>					x 3 =		_
4 50%= Total Cov				FACU Species			
Herb Stratum (Plot Size:)		Species?	Status		x 5 =		
1				Column Totals	(A)		(B)
2				Prevalence Index =	= B/A =	_	
3				Hydrophytic Vege	tation Indicators	-	
4				Rapid Test f			on
5				Dominance	Test is >50%	Ü	
5				Prevalence Morphologic		nrovida	sunnortina
7				data in Rem	arks or on a sepa	arate sh	
3.				Wetland No			1/=
50%=				Problematic			
Woody/Vine Stratum (Plot Size:)		Species?	Status	be present.	- son and wouldn	ui u	.sgj mast
1				Hydrophytic Ver-	tation Drasser		7
2				Hydrophytic Vege	tation Present?		7
50%=							
% Bare Ground in Herb Stratum % Cover of		0					

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r ofile De s Depth	Matri	Х		Redox Features					
nches)	Color (m	<u>oist)</u>	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	<u>Remarks</u>
ypes: C	= Concentratio	n D = Deple	etion R	M = Reduced Matrix	2	Location: PL	. = Pore Lin	ing M = Matrix	
ydric Soi	il Indicators:	(Applicable	e to all L	RRs, unless otherw	ise noted)		Indicators for	Problematic Hydric Soil
Hi	istosol (A1)			Sandy	Redox (S	S5)		2 cm N	luck (A10)
Hi	istic Epipedor	(A2)		Strippe	ed Matrix	(S6)		Red Pa	arent Materials (TF21)
Black Histic (A3)				Loamy	Mucky N	Mineral (exce	ept	Very S	hallow Dark Surface (TF1:
Hy	ydrogen Sulfic	de (A4)		MLRA	1) (F1)			Vegeta	ited Sand/Gravel Bars
De	epleted Below	Dark Surfa	ace (A11) Loamy	Gleyed	Matrix (F2)		Other ((Explain in Remarks)
Tr	hick Dark Surf	ace (A12)		Deplet	ed Matrix	(F3)			
Sa	andy Mucky M	lineral (S1)		Redox	Dark Su	rface (F6)		³ Indicators of	hydrophytic vegetation an
Sa	andy Gleyed I	Matrix (S4)		Deplet	ed Dark S	Surface (F7)		wetland hydro	logy must be present.
				Redox	Depress	ions (F8)			
		.\			Danilla /I	nches)	Hydi	ric Soil Present?	/X
Restrictiv	ve Layer (if pı	esent): Ty	pe:		Depth (I	1101103)	ווויי	IC SUIL FLESCIIL:	
Remarks No soils	s pit scoure		•		Depin (i		11yu	ic John Fresent:	
Remarks No soils Hydrole Wetland	s pit scoure ogy Indicators	d channe	ıl.						
Remarks No soils Hydrole Wetland Primary I	s pit scoure ogy Indicators Indicators (Min	d channe	ıl.	uired. Check all tha	nt apply.)			Secondary Ind	icators (2 or more required
Remarks No soils Hydrol Wetland Primary I	s pit scoure ogy Indicators Indicators (Minute Water)	d channe	ıl.	uired. Check all tha	nt apply.) Stained I	Leaves (B9)		Secondary Ind	icators (2 or more required Stained Leaves (B9) exce
Remarks No soils Hydrole Wetland Primary I	s pit scoure ogy Indicators Indicators (Minumerace Water in igh Water Take	d channe	ıl.	uired. Check all tha Water MLRA	nt apply.) Stained I	_eaves (B9) and 4B)		Secondary Ind Water MLRA	icators (2 or more required Stained Leaves (B9) exce 1,2,4A, and 4B)
Remarks No soils Hydrole Wetland Primary I St Hi Sa	s pit scoure ogy Indicators Indicators (Minurace Water in igh Water Takanaturation (A3)	nimum of o	ıl.	uired. Check all tha Water MLRA Salt Cr	at apply.) Stained I 1,2,4A, ust (B11)	_eaves (B9) and 4B)	except	Secondary Ind Water MLRA Draina	icators (2 or more required Stained Leaves (B9) exce 1,2,4A, and 4B) ge Patterns (B10)
Remarks No soils Hydrole Wetland Primary I Su Hi Sa	ogy Indicators Indicators (Minurface Water Faturation (A3) Vater Marks (B	d channe	ıl.	uired. Check all that —— Water MLRA —— Salt Cr —— Aquati	at apply.) Stained I 1,2,4A, ust (B11)	Leaves (B9) and 4B) orates (B13)	except	Secondary Ind Water MLRA Draina Dry-Se	icators (2 or more required Stained Leaves (B9) exce 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2)
Remarks No soils Hydrole Wetland Primary I St W Se	ogy Indicators Indicators (Minurace Water High Water Tabaturation (A3) /ater Marks (Edediment Depo	d channe	ıl.	uired. Check all that Water MLRA Salt Cr Aquati	st apply.) Stained I 1,2,4A, ust (B11) C Invertel	Leaves (B9) and 4B) orates (B13) de Odor (C1)	except	Secondary Ind Water MLRA Draina Dry-Se Satura	icators (2 or more required Stained Leaves (B9) exce 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on
Remarks No soils Hydrole Wetland Primary I State Stat	ogy Indicators Indicators (Minuration (A3) Vater Marks (Eediment Deport	d channe nimum of o (A1) ble (A2) sits (B2)	ıl.	uired. Check all that —— Water MLRA —— Salt Cr —— Aquati —— Hydroç —— Oxidize	at apply.) Stained I 1,2,4A, ust (B11) C Invertel gen Sulficed Rhizo	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3	except	Secondary Ind Water MLRA Draina Dry-Se Satura Aerial	icators (2 or more required Stained Leaves (B9) exce 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9)
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Remarks No soils Hydrole Wetland Primary I Si W Se V Al	ogy Indicators Indicators (Minurface Water Harks (Election of Deposits (Ilgal Mat or Criton Depo	d channe nimum of o (A1) ble (A2) 11) sits (B2) 33) ust (B4)	ıl.	uired. Check all that Water MLRA Salt Cr Aquati Hydrog Oxidize Preser Recen	st apply.) Stained I 1,2,4A, ust (B11) c Invertel gen Sulficed Rhizo ace of Re	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (except	Secondary Ind Water MLRA Draina Dry-Se Satura Aerial Geomo	icators (2 or more required Stained Leaves (B9) exce 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3)
Remarks No soils Hydrole Wetland Primary I So Hi Al Iro	ogy Indicators Indicators (Minurface Water Pater Marks (Bediment Deportiff Deposits (Ilgal Mat or Criton Deposits (Eurface Soil Critates)	d channed himum of o (A1) sits (B2) sits (B4) sits (B4) acks (B6)	ne is req	uired. Check all that Water MLRA Salt Cr Aquati Hydrog Oxidize Preser Recen Tilled	at apply.) Stained I 1,2,4A, ust (B11) c Invertel gen Sulfice d Rhizo ice of Re t Iron Re Soils (C6	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in	except	Secondary Ind Water MLRA Draina Dry-Se Satura Aerial Geomo Shallov FAC-N	icators (2 or more required Stained Leaves (B9) exce 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) eutral Test (D5)
Remarks No soils Hydrole Wetland Primary I St Hi St Al Iro St In	ogy Indicators Indicators (Minurface Water Harks (Bediment Deposits (Idgal Mat or Criton Deposits (Burface Soil Critinal	d channed himum of o (A1) sits (B2) sits (B4) sits (B4) acks (B6)	ne is req	uired. Check all that Water MLRA Salt Cr Aquatir Hydrog Oxidize Preser Recen Tilled Stunte	st apply.) Stained I 1,2,4A, rust (B11) C Invertel gen Sulfice d Rhizon nce of Re t Iron Re Soils (C6 d or Stre	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (except	Secondary Ind Water MLRA Draina Dry-Se Satura Aerial Geomo Shallov FAC-N Raised	icators (2 or more required Stained Leaves (B9) exce 1,2,4A, and 4B) ge Patterns (B10) leason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) ov Aquitard (D3) eutral Test (D5) I Ant Mounds (D6) (LRR A
Remarks No soils Hydrole Wetland Primary I Standard Al Iro In	ogy Indicators Indicators (Minurface Water Tabaturation (A3) /ater Marks (Bediment Deposits (Indicators (Minurface Marks (Ball Mat or Critical Mater Soil Critical Mater Soil Critical Mater Marks (Brundation Visitemagery (B7)	d channe nimum of o (A1) ble (A2) sits (B2) 33) ust (B4) 35) acks (B6) ble on Aeria	ne is req	uired. Check all that Water MLRA Salt Cr Aquati Hydrog Oxidize Preser Recen Tilled Stunte	at apply.) Stained I 1,2,4A, ust (B11) C Invertel gen Sulfice d Rhizo ace of Re t Iron Re Soils (C6 d or Stree LRR A)	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in) ssed Plants	except	Secondary Ind Water MLRA Draina Dry-Se Satura Aerial Geomo Shallov FAC-N Raised	icators (2 or more required Stained Leaves (B9) exce 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) eutral Test (D5)
Remarks No soils Hydrole Wetland Primary I St Hi St Iro St In Iro St	ogy Indicators Indicators (Minurface Water Harks (Bediment Deposits (Idgal Mat or Criton Deposits (Burface Soil Critinal	d channe nimum of o (A1) ble (A2) sits (B2) 33) ust (B4) 35) acks (B6) ble on Aeria	ne is req	uired. Check all that Water MLRA Salt Cr Aquati Hydrog Oxidize Preser Recen Tilled Stunte	at apply.) Stained I 1,2,4A, ust (B11) C Invertel gen Sulfice d Rhizo ace of Re t Iron Re Soils (C6 d or Stree LRR A)	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in	except	Secondary Ind Water MLRA Draina Dry-Se Satura Aerial Geomo Shallov FAC-N Raised	icators (2 or more required Stained Leaves (B9) exce 1,2,4A, and 4B) ge Patterns (B10) leason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) ov Aquitard (D3) eutral Test (D5) I Ant Mounds (D6) (LRR A
Remarks No soils Hydrole Wetland Primary I St Al Iro In St St	ogy Indicators Indicators (Minurface Water Face Water Table aturation (A3) Indicators (Minurface Water Face Water Marks (Bediment Deposits (Indicators (Minurface Soil Crustace Soil Crustace Soil Crustace (B7) Indicator Visit (B7) Indicators (Minurface Soil Crustace Soil	d channe nimum of o (A1) ble (A2) sits (B2) 33) ust (B4) 35) acks (B6) ble on Aeria	ne is req	uired. Check all that Water MLRA Salt Cr Aquatir Hydrog Oxidize Preser Recen Tilled Stunte (D1) (r	at apply.) Stained I 1,2,4A, ust (B11) C Invertel gen Sulfice d Rhizo ace of Re t Iron Re Soils (C6 d or Stree LRR A)	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in) ssed Plants	except	Secondary Ind Water MLRA Draina Dry-Se Satura Aerial Geomo Shallov FAC-N Raised Frost-F	icators (2 or more required Stained Leaves (B9) exce 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A
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Drift deposits indicate frequent flooding.



1	Wotland Determination Data Form Western	Mount	oine Vall	ove 9 C	Data Point	
Applicant/Owner. Avangrid Investigator(s): Sabe Youngblood Investigator(s): Gabe Youngblood Invest				•		
Applicant/Owner, Avangrid			City/County:	Shasta C	County	Date: 10/23/17
Landform (hillslope, terrace, etc.) Hillslope Local relief (concave, convex, none) Subregion (LRR): MLRA 22B Lat: Long: Datum: Solth Ago Unit Name: Gasper-Scarface complex, moist, 15 to 30 percent slopes NWI Classification: NVA Are climatichydrologic conditions on the site typical for this time of year? NVIII Classification: NVA Are climatichydrologic conditions on the site typical for this time of year? NVIII Classification: NVA Are vegetation Solid Solid Solid Not hydrology Salgnificantly disturbed? Are normal circumstances present? NVIII Classification: NVA Are vegetation Solid Solid Solid Not hydrology Salgnificantly disturbed? Are normal circumstances present? NVIII Classification: NVA Are vegetation Solid					State: CA	
Subregion (LRR): MLRA 22B				_ Section,	Township, Range Sec. 1, T34N, R	:1E
Soil Map Unit Name: Gasper-Scarface complex, moist, 15 to 30 percent slopes NWI Classification: N/A						
Are cellaratichydrologic conditions on the site typical for this time of year?						
Are vegetation \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Soil Map Unit Name: Gasper-Scarface complex, moist, 1	5 to 30 pe	ercent slope	s NV	VI Classification: N/A	
Summary of Findings (Attach site map showing sampling point locations, transects, important features, etc.)						
Summary of Findings (Attach site map showing sampling point locations, transects, important features, etc.) Hydrophytic vegetation? Hydrocosti? Wetland hydrology? Is sampled area a wetland? Scour Ordinary High Water Mark Mapped Stream Width Substrate Natural Drainage Navigable Water Natural Drainage Navigable Water Species? Status Number of dominant species that are OBL, FACW, or FAC: (A) 1.						
Evaluation of features designated "Other Waters of the United States" Indicators:	Are vegetation \(\scale{\text{X}} \) soil \(\scale{\text{X}} \) or hydrology \(\scale{\text{X}} \) haturally	problemation	c? (If neede	d, explain i	n Remarks.)	
Evaluation of features designated "Other Waters of the United States" Indicators:	Summary of Findings (Attach site map showing sampling	ng point loc	ations, trans	ects, impor	tant features, etc.)	
Evaluation of features designated "Other Waters of the United States" Indicators: Defined bed and bank Scour Ordinary High Water Mark Mapped Stream Width Intermittent Intermittent Ephemeral Blue-line on USGS Quad Substrate Natural Drainage Artificial Drainage Navigable Water Remarks DP documents an upland area dominated by Carex sp. Vegetation (Use Scientific Names) Tree Stratum (Plot Size:)		• .				
Indicators:						
Feature Designation: Perennial Intermittent Ephemeral Blue-line on USGS Quad Substrate Remarks DP documents an upland area dominated by Carex sp. Vegetation (Use Scientific Names)					apped Stream Width	
Vegetation (Use Scientific Names) Absolute % Cover Species? Dominant Indicator Species? Dominance Test Worksheet Number of dominant species that are OBL, FACW, or FAC:	Feature Designation: Perennial Intermittent Enl	hemeral	Blue-line	on USGS	Quad Substrate	
Vegetation (Use Scientific Names) Absolute % Cover Species? Dominant Indicator Species? Dominance Test Worksheet Number of dominant species that are OBL, FACW, or FAC:	Natural Drainage Artificial Draina	age	Navigable V	/ater		
Vegetation (Use Scientific Names) Absolute Score Species? Dominant Indicator Species? Dominance Test Worksheet Number of dominant species Humber of dominant species across all strate? Dominance Test Worksheet Number of dominant species that are OBL, FACW, or FAC:	Remarks DP documents an upland area dominate	d by Care	ex sp.			
Tree Stratum (Plot Size:) % Cover Species? Status Lhat are OBL, FACW, or FAC: (A) Number of dominant species that are OBL, FACW, or FAC: (B) 2 (A) Total number of dominant species that are OBL, FACW, or FAC: (B) 2 (B) Percent of dominant species that are OBL, FACW, or FAC: (B) 2 (B) Percent of dominant species that are OBL, FACW, or FAC:		, ,	1			
Tree Stratum (Plot Size:) % Cover Species? Status Lhat are OBL, FACW, or FAC: (A) Number of dominant species that are OBL, FACW, or FAC: (B) 2 (A) Total number of dominant species that are OBL, FACW, or FAC: (B) 2 (B) Percent of dominant species that are OBL, FACW, or FAC: (B) 2 (B) Percent of dominant species that are OBL, FACW, or FAC:						
Tree Stratum (Plot Size:) % Cover Species? Status Lhat are OBL, FACW, or FAC: (A) Number of dominant species that are OBL, FACW, or FAC: (B) 2 (A) Total number of dominant species that are OBL, FACW, or FAC: (B) 2 (B) Percent of dominant species that are OBL, FACW, or FAC: (B) 2 (B) Percent of dominant species that are OBL, FACW, or FAC:	Vegetation (Use Scientific Names)	Absolute	Dominant	Indicator	Dominance Test Worksheet	
Total number of dominant species across all strata: 2 (B)		% Cover				
across all strata: 2 (B) Percent of dominant species that are OBL, FACW, or FAC: 100 (A/B) Prevalence Index Worksheet Total % Cover of: Multiply by	1					(A)
3	2					2 _(B)
4	3				Percent of dominant species that	400
Sapling/Shrub Stratum (Plot Size:) % Cover Species? Status Species Total % Cover of: Multiply by Multiply by 1					are OBL, FACW, or FAC:	100 (A/B)
1	50%= Total Cover:				Prevalence Index Worksheet	
2	Sapling/Shrub Stratum (Plot Size:)	% Cover	Species?	Status		•
3	1				OBL Species x 1 =	0
4	2				FACW Species x 2 =	
Total Cover Total Cover Total Cover Total Cover Species? Status Total Cover Species? Status Total Cover Species? Status Total Cover Species? Status Species? Status Species Status Sp	3				FAC Species x 3 =	
Herb Stratum (Plot Size:) 1. Carex sp. (NIF) 2. Carex sp. (NIF) 3 4 5 6 7 Wetland Non-Vascular Plants¹ Wetland Non-Vascular Plants¹ Wetland Non-Vascular Plants¹	· · · · · · · · · · · · · · · · · · ·				FACU Species x 4 =	0
Carex sp. (NIF) Size: Species? Status Column Totals (A) (B)					UPL Species x 5 =	0
1. Carex sp. (NIF) 2. Carex sp. (NIF) 3. Hydrophytic Vegetation Indicators 4. Rapid Test for Hydrophytic Vegetation 5. Dominance Test is >50%						
3	**				Prevalence Index = B/A =	
4						
5						
6 Morphological Adaptations¹ (provide supporting data in Remarks or on a separate sheet) Wetland Non-Vascular Plants¹					Dominance Test is >50%	regetation
7 data in Remarks or on a separate sheet) Wetland Non-Vascular Plants ¹						/
Wetland Non-Vascular Plants ¹						
Duelle meetle 11 minutes 12 minu					Wetland Non-Vascular Plan	ts ¹
					Problematic Hydrophytic Ve	
ho procent			Cnoolee	Ctatus	-	ia riyarology Illust
vivougi vine stratum (Fiot size) // Cover species? Status			•		,	
1 Hydrophytic Vegetation Present?					Hydrophytic Vegetation Present?	′ ☑/□
2						
			0			

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Profile D Depth	escription: (D Matri		to the d		ded to docume dox Features	ent the inc	dicator or co	nfirm the a	absence of in	ndicators.
(<u>inches</u>)	Color (m 7.5YR 2.5/2	oist)	<u>%</u> 100		olor (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	<u>Remarks</u>
0-18	7.51K 2.5/Z		100	-					<u>Loam</u>	Gravely
	-									
	-									
	C = Concentratio							. = Pore Lin	ning M = Ma	
•	oil Indicators:	(Applic	able to a	all LRRs,			•			s for Problematic Hydric Soils ³
	Histosol (A1)	(40)			Sandy	•	•			cm Muck (A10)
	Histic Epipedor					ed Matrix				ed Parent Materials (TF21)
	Black Histic (A3				,	•	lineral (exce	ept		ery Shallow Dark Surface (TF12)
	Hydrogen Sulfic		·	A 1 1 \		1) (F1)	4 (50)			egetated Sand/Gravel Bars
	Depleted Below			AII)	-	-	Matrix (F2)		0	ther (Explain in Remarks)
	Thick Dark Surf	,	,		Deplet				31	and Charles to Paragraphs Page and
	Sandy Mucky N						face (F6)			rs of hydrophytic vegetation and
;	Sandy Gleyed N	vlatrix (S	54)				Surface (F7)		wetland i	hydrology must be present.
					Redox	Depressi	IONS (F8)			
	tive Layer (if pr	esent):	Type:			Depth (I	nches)	Hydr	ric Soil Pres	ent? /X
Restrict			<i>7</i> 1 –			' '	,			
Remark	ks dicators of hy	dric so	oil were	e obser	ved.					
No inc	dicators of hy	dric so	oil were	e obser	ved.					
No inc	dicators of hy					at apply.)			Secondar	y Indicators (2 or more required)
No incomplete Hydrowellan Primary	dicators of hy blogy d Indicators / Indicators (Min	nimum (. Check all tha		eaves (B9)	except		·
No inco	blogy Indicators (Min	nimum (. Check all tha	Stained L	eaves (B9)	except	W	ater Stained Leaves (B9) except
No incomplete Hydro	blogy d Indicators Indicators (Min	nimum (. Check all tha	Stained L	and 4B)	except	W	ater Stained Leaves (B9) except ILRA 1,2,4A, and 4B)
No incomplete Hydro	blogy Id Indicators Indicators (Minustrace Water High Water Tab	nimum ((A1) ole (A2)			. Check all that Water MLRA Salt Cr	Stained L 1,2,4A, a rust (B11)	and 4B)	·	W N	ater Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10)
Remark No inco Hydro Wetlan Primary	dicators of hydlogy d Indicators Indicators (Min Surface Water High Water Tab Saturation (A3) Water Marks (E	nimum ((A1) ole (A2)	of one is		. Check all tha Water MLRA Salt Cr Aquatio	Stained L 1,2,4A, a rust (B11) c Inverteb	and 4B) orates (B13)	·	W Di Di	ater Stained Leaves (B9) except ILRA 1,2,4A, and 4B)
Remark No inco	blogy Id Indicators Indicators (Minus Surface Water High Water Tab Saturation (A3) Water Marks (E) Sediment Depo	(A1) ble (A2) (A1) sits (B2)	of one is		. Check all that	Stained L 1,2,4A, a rust (B11) c Inverteb gen Sulfid	and 4B) orates (B13) le Odor (C1))	W Di Di Sa	Vater Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on
Hydro Wetlan Primary	blogy Id Indicators Indicators (Min Surface Water (Min High Water Tak Saturation (A3) Water Marks (B Sediment Depo	(A1) ble (A2) c1) sits (B2)	of one is		. Check all that	Stained L 1,2,4A, a rust (B11) c Inverteb gen Sulfid ed Rhizos	orates (B13) le Odor (C1) spheres (C3))	W Di Di Sa	Vater Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9)
Hydro Wetlan Primary	dicators of hy logy d Indicators Indicators (Min Surface Water High Water Tab Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (I Algal Mat or Cri	nimum ((A1) ble (A2) (1) sits (B2) 33) ust (B4)	of one is		. Check all that	Stained L 1,2,4A, a rust (B11) c Inverteb gen Sulfid ed Rhizos ace of Rec	and 4B) orates (B13) le Odor (C1)))	W Di Di Sa G	Vater Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2)
Remark No inco	blogy Id Indicators Indicators (Min Surface Water (Min High Water Tak Saturation (A3) Water Marks (B Sediment Depo	(A1) sits (B2) sts (B4)	of one is		. Check all that	Stained L 1,2,4A, a rust (B11) c Inverteb gen Sulfid ed Rhizos ace of Rea t Iron Rea	orates (B13) le Odor (C1) spheres (C3) duced Iron (duction in))	W Di Si G	Vater Stained Leaves (B9) except Value ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3)
Hydro Wetlan Primary	blogy Id Indicators Indicators (Minus) Surface Water (Minus) High Water Tab Saturation (A3) Water Marks (B) Sediment Depo Drift Deposits (I) Algal Mat or Crit	nimum ((A1) ole (A2) sits (B2) 33) ust (B4) 35) acks (Be	of one is)		. Check all that	Stained L. 1,2,4A, a rust (B11) c Invertebgen Sulfided Rhizosace of Rect Iron Rect Soils (C6)	orates (B13) le Odor (C1) spheres (C3) duced Iron (duction in))	W Di Sa Si Si	Vater Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2)
Remark No inco Hydro Wetlan Primary	blogy Id Indicators Indicators (Minus Surface Water (Minus High Water Tab Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (I Algal Mat or Cro Iron Deposits (I Surface Soil Cr	nimum ((A1) ole (A2) sits (B2) 33) ust (B4) 35) acks (Be	of one is)		. Check all that	Stained L. 1,2,4A, a rust (B11) c Invertebgen Sulfided Rhizosace of Rect Iron Rect Soils (C6)	orates (B13) le Odor (C1) spheres (C3) duced Iron (duction in))	W Di Si G Sf F/ R:	Vater Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5)
Remark No inco Hydro Wetlan Primary	blogy Id Indicators Indicators (Minicators (Minicators (Minicators (Minicators (Minicators (Minicators (Minicators (Mater Marks (Bisediment Deposits (Minicators (nimum (A1) ole (A2) oli) sits (B2) sits (B4) sits (B4) acks (B6) ole on A	of one is) 6) erial		. Check all that . Water MLRA . Salt Cr Aquatir Hydrog Oxidize Preser Recen Tilled Stunte (D1) (l	Stained L 1,2,4A, a rust (B11) c Inverteb gen Sulfid ed Rhizos nce of Rea t Iron Rea Soils (C6 d or Stres LRR A)	orates (B13) le Odor (C1) spheres (C3) duced Iron (duction in)) (C4)	W Di Si G Sf F/ R:	Vater Stained Leaves (B9) except Vater Stained Leaves (B9) except Value of the Indian Stain (B10) Vary-Season Water Table (C2) Value of the Indian Stain (
Remark No inco Hydro Wetlan Primary	Dlogy Id Indicators Indicators (Minor Mater Mater Marks (Bediment Deposits (Indicator Mater Deposits (Indicator Mater Mater Mater Marks (Bediment Deposits (Indicator Mater Material Mater Mater Material Mater Material Mater Material	nimum (A1) ole (A2) oli) sits (B2) sits (B4) sits (B4) acks (B6) ole on A	of one is) 6) erial		. Check all that . Water MLRA . Salt Cr Aquatir Hydrog Oxidize Preser Recen Tilled Stunte (D1) (l	Stained L 1,2,4A, a rust (B11) c Inverteb gen Sulfid ed Rhizos nce of Rea t Iron Rea Soils (C6 d or Stres LRR A)	orates (B13) le Odor (C1) spheres (C3) duced Iron (duction in) ssed Plants)) (C4)	W Di Si G Sf F/ R:	Vater Stained Leaves (B9) except Vater Stained Leaves (B9) except Value of the Indian Stain (B10) Vary-Season Water Table (C2) Value of the Indian Stain (
Remark No inco Hydro Wetlan Primary	Dlogy Id Indicators Indicators (Min Surface Water (Min Surface Water (Min Saturation (A3) Water Marks (E) Sediment Depo Drift Deposits (I) Algal Mat or Cre Iron Deposits (I) Surface Soil Cre Inundation Visit Imagery (B7) Sparsely Veget	nimum (A1) ole (A2) oli) sits (B2) sits (B4) sits (B4) acks (B6) ole on A	of one is) 6) erial		. Check all that . Water MLRA . Salt Cr Aquatir Hydrog Oxidize Preser Recen Tilled Stunte (D1) (l	Stained L 1,2,4A, a rust (B11) c Inverteb gen Sulfid ed Rhizos nce of Rea t Iron Rea Soils (C6 d or Stres LRR A)	orates (B13) le Odor (C1) spheres (C3) duced Iron (duction in) ssed Plants)) (C4)	W Di Si G Sf F/ R:	Vater Stained Leaves (B9) except Vater Stained Leaves (B9) except Value of the Indian Stain (B10) Vary-Season Water Table (C2) Value of the Indian Stain (
Remark No inco Hydro Wetlan Primary	Dlogy Id Indicators Indicators (Minorators (Minorators (Minorators (Minorators (Minorators (Minorator)) Indicators (Minorator) Indicators	nimum (A1) ole (A2) oli (B2) oli (B4)	of one is) 6) erial oncave		. Check all that . Water MLRA . Salt Cr Aquatir Hydrog Oxidize Preser Recen Tilled Stunte (D1) (l	Stained Land, 1,2,4A, and the control of the contro	and 4B) prates (B13) le Odor (C1) spheres (C3) duced Iron (duction in) ssed Plants n Remarks)) (C4)	W Di Si G Sf F/ R:	Vater Stained Leaves (B9) except ALRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
Remark No inco Hydro Wetlan Primary	Dlogy Id Indicators Indicators (Min Surface Water (Min Surface Water (Min High Water Tab Saturation (A3) Water Marks (E) Sediment Depo Drift Deposits (I) Algal Mat or Cre Iron Deposits (I) Surface Soil Cre Inundation Visib Imagery (B7) Sparsely Veget Surface (B8) Disservations	nimum (A1) sits (B2) sits (B4) sole on A ated Co	of one is 6) erial encave	required	. Check all that	Stained L 1,2,4A, a rust (B11) c Inverteb gen Sulfid ed Rhizos nce of Rea t Iron Rea Soils (C6) d or Stres LRR A) (Explain in	orates (B13) le Odor (C1) spheres (C3) duced Iron (duction in) ssed Plants n Remarks)) (C4)	W Di Sa G SI F/ Fr	Vater Stained Leaves (B9) except ALRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)



					Data Point		27
Wetland Determination Data Form-Wester	ern Mount	ains, Val	leys, & C	Coast Region	Feature Type	Seso	nal Wetland
Project/Site: Fountain Wind		City/County	, Shasta (County		Date:	10/17/17
Applicant/Owner: Avangrid		,		State: C	CA		
Investigator(s): Gabe Youngblood			Section	, Township, Range	Sec. 3, T34N, R	1E	-
Landform (hillslope, terrace, etc.) Depression		Local reli	ef (concave	, convex, none) Con	cave	Slope ^o	_% 1
Landform (hillslope, terrace, etc.) Depression Subregion (LRR): MLRA 22B Lat:	40.831029°		Long:	-121.847797°	Datur	n: NA	AD83
Soil Map Unit Name: _Toomes very rocky loam, 0 to 50) percent slo	pes	N\	WI Classification: N/A	4		
Are climatic/hydrologic conditions on the site typical for this	time of year?	$\sqrt{ f }$	no, explain i	'n Remarks.)			
Are vegetation \(\sum{\subset} \subset soil \subset \subset or hydrology \subset \subset signific							
Are vegetation \(\sum{\text{X}}\soil \(\sum{\text{X}}\soil \text{N}\soil \(\sum{\text{Are vegetation}}\)	-			•	_		
Summary of Findings (Attach site map showing sam					ъ		
Hydrophytic vegetation? Hydric soil? Wetla	nd hydrology':		sampled are	ea a wetland? YVN_	Dther waters?		
Evaluation of features designated "Other Wa							
Indicators: Defined bed and bank Scour							
Feature Designation: Perennial Intermittent Natural Drainage Artificial Dra	Epnemerar ainage	Navigable \	e on uses Nater	O Quau Substi	Tale		
		3					
Remarks _{DP} documents a seasonal wetland.							
Vegetation (Use Scientific Names)	Absolute	Dominant		Dominance Test			
Tree Stratum (Plot Size:)		Species?		Number of domina that are OBL, FAC		2	_ (A)
1				Total number of do			_ (A)
2				across all strata:		2	_ (B)
3				Percent of domina are OBL, FACW, of		100	_ (A/B)
4.	or: 0			are OBL, racw, c			_ (A/D)
50%=			CL I	Prevalence Index			
Sapling/Shrub Stratum (Plot Size:)				Total % Cover of:		_	
1				OBL Species		_	_
2				FACW Species			
3					x 3 =		
4	0			FACU Species			
50%=	JI		CL I	UPL Species	x 5 =	0	_
Herb Stratum (Plot Size: 5') 1. Eleocharis acicularis	% Cover 50	Species?	Status OBL	Column Totals	(A)	0	(B)
2. Deschampsia danthonioides		Y	FACW	Prevalence Index	= B/A =		
Juncus balticus	- - 20 - 7	N	FAC				
Б 1 1		N	FACU	Hydrophytic Vege Rapid Test	e tation Indicato i for Hydrophytic \		on
Nevernetic on			FAC	✓ Dominance		regetati	011
			170:	Prevalence		,	
6				Morphologi	cai Adaptations [,] narks or on a sep	(provide arate st	e supporting heet)
7				Wetland No	n-Vascular Plant	ts ¹	
8				Problemation			
50%=40		0 : -	CI. I	¹ Indicators of hydr be present.	ıc sun and Wetlar	и пуаго	iiugy must
Woody/Vine Stratum (Plot Size:)		·					,
1				Hydrophytic Vege	etation Present?]
2							
	er: 0						
% Bare Ground in Herb Stratum % Cover of E	3iotic Crust _	20					

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<mark>rofile D</mark> Depth	Description: (Descri Matrix		Redox Features					
inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	<u>Remarks</u>
)-8	10YR 5/1	80	5YR 3/4	20	C	PL	Loam	Clay
-12	10YR 3/1	100	•				Loam	Clay
				·				
ypes:	C = Concentration D =	= Depletion	RM = Reduced Matrix		² Location: P	L = Pore Lin	ning M = Ma	trix
ydric S	oil Indicators: (App	olicable to a	all LRRs, unless other	wise noted	d)		Indicator	s for Problematic Hydric Soil:
	Histosol (A1)		Sand	y Redox (S5)		2	cm Muck (A10)
	Histic Epipedon (A2)		Stripp	ed Matrix	(S6)		R	ed Parent Materials (TF21)
	Black Histic (A3)		Loam	y Mucky N	Mineral (exc	ept	V	ery Shallow Dark Surface (TF12
	Hydrogen Sulfide (A	4)	MLRA	1 (F1)			V	egetated Sand/Gravel Bars
	Depleted Below Darl	c Surface (, ,	Matrix (F2)		0	ther (Explain in Remarks)
	Thick Dark Surface (•	_ √ _ Deple	ted Matrix	(F3)			
	Sandy Mucky Minera				rface (F6)			rs of hydrophytic vegetation and
	Sandy Gleyed Matrix	(S4)	•		Surface (F7)	wetland	hydrology must be present.
			Redo	x Depress	sions (F8)			
Restric	tive Layer (if presen	t): Type: <u></u>	N/A	Depth (Inches) N/	A Hydi	ric Soil Pres	ent? ✓ /
Soils ı	meet the requirer	ments for	indicator F3 Depl	eted Ma	trix.			
Soils i	meet the requirer		·				Secondar	v Indicators (2 or more required
Soils in the second sec	meet the requirer Dlogy Ind Indicators Y Indicators (Minimus		required. Check all th	nat apply.)		lovcont		•
Soils i Hydro Wetlan Primary	Dlogy Ind Indicators Indicators (Minimur Surface Water (A1)	m of one is	required. Check all th	nat apply.)	Leaves (B9)) except	W	ater Stained Leaves (B9) exce
Hydro Wetlan Primary	Dlogy Ind Indicators Indicators (Minimum Surface Water (A1) High Water Table (A	m of one is	required. Check all th Wate	nat apply.) Stained I	Leaves (B9) and 4B)	except	\\ N	y Indicators (2 or more required /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B)
Hydro Wetlan Primary	Dlogy Id Indicators Iy Indicators (Minimur Surface Water (A1) High Water Table (A Saturation (A3)	m of one is	required. Check all th Water MLR Salt (nat apply.) Stained I A 1,2,4A, Crust (B11	Leaves (B9) and 4B)	•	W D	ater Stained Leaves (B9) exce ILRA 1,2,4A, and 4B) rainage Patterns (B10)
Hydro Wetlan Primary	Dlogy Ind Indicators Indicators (Minimum Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1)	m of one is	required. Check all th Wate MLR Salt (nat apply.) Stained I A 1,2,4A, Crust (B11	Leaves (B9) and 4B)) brates (B13)	W D D	later Stained Leaves (B9) exce ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2)
Hydro Wetlan Primary	plogy Ind Indicators Indicators (Minimus Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (m of one is	required. Check all the contract of the contra	at apply.) Stained I A 1,2,4A, Crust (B11 ic Inverte	Leaves (B9) and 4B)) brates (B13 de Odor (C1)	W D D S	Vater Stained Leaves (B9) exce VALRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on
Soils I	meet the requirer plogy Ind Indicators y Indicators (Minimur Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (Drift Deposits (B3)	m of one is 2) B2)	required. Check all the water MLR Salt C Aqua Hydro	nat apply.) Stained I A 1,2,4A, Crust (B11 ic Inverte ogen Sulfic zed Rhizo	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3)) 3)	W D D S	later Stained Leaves (B9) exce ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9)
Hydro Wetlan Primary	meet the requirer plogy Ind Indicators Indicators (Minimum Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (Drift Deposits (B3) Algal Mat or Crust (E	m of one is 2) B2)	required. Check all th Wate MLR Salt 0 Aqua Hydro Oxidi: Prese	nat apply.) Stained A 1,2,4A, Crust (B11 ic Inverte ogen Sulfic zed Rhizo	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3)) 3)	W D D S ✓G	Vater Stained Leaves (B9) exceut ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on serial Imagery (C9) eomorphic Position (D2)
Hydrowers Wetlan Primary	meet the requirer plogy Ind Indicators Indicators (Minimus Indica	m of one is 2) B2)	required. Check all the water MLR ———————————————————————————————————	nat apply.) Stained I A 1,2,4A, Crust (B11 tic Inverte agen Sulfic zed Rhizo ence of Re at Iron Re	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3 duced Iron duction in)) 3)	W D S G S	Vater Stained Leaves (B9) exce VILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3)
Soils I	Dlogy Ind Indicators Indicators (Minimur Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (Drift Deposits (B3) Algal Mat or Crust (E Iron Deposits (B5) Surface Soil Cracks	m of one is 2) B2) 34) (B6)	required. Check all the Water MLR Salt Company Aquarement Mydrom	stained A 1,2,4A, Crust (B11 ic Inverte ogen Sulfic zed Rhizo ence of Re nt Iron Re I Soils (C6	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3 duced Iron duction in) () (C4)	WD	Vater Stained Leaves (B9) exce Value Stained Leaves (B9) exce Value Stainage Patterns (B10) Value Stainage Patterns (B10) Value Stainage Patterns (C2) Value Stainage Patterns (C2)
Hydro Wetlan Primary	meet the requirer plogy ad Indicators y Indicators (Minimus Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (E Iron Deposits (B5) Surface Soil Cracks Inundation Visible or	m of one is 2) B2) 34) (B6)	required. Check all the salt of the salt o	r Stained I A 1,2,4A, Crust (B11 dic Inverted agen Sulfice and Red and Iron Red I Soils (Céded or Stre	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3 duced Iron duction in) () (C4)	W D S 	Vater Stained Leaves (B9) exce Value ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on derial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A
Soils I	meet the requirer plogy Ind Indicators Indicators (Minimur Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (E Iron Deposits (B5) Surface Soil Cracks Inundation Visible or Imagery (B7)	m of one is 2) B2) 34) (B6) 1 Aerial	required. Check all the water MLR ———————————————————————————————————	nat apply.) Stained I A 1,2,4A, Crust (B11 ic Inverte ogen Sulfic zed Rhizo ence of Re nt Iron Re I Soils (Co ed or Stre (LRR A)	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3 educed Iron duction in b) ssed Plants)) 3) (C4)	W D S 	Vater Stained Leaves (B9) exce Value Stained Leaves (B9) exce Value Stainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5)
Soils I	meet the requirer plogy ad Indicators y Indicators (Minimus Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (E Iron Deposits (B5) Surface Soil Cracks Inundation Visible or	m of one is 2) B2) 34) (B6) 1 Aerial	required. Check all the water MLR ———————————————————————————————————	nat apply.) Stained I A 1,2,4A, Crust (B11 ic Inverte ogen Sulfic zed Rhizo ence of Re nt Iron Re I Soils (Co ed or Stre (LRR A)	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3 duced Iron duction in)) 3) (C4)	W D S 	Vater Stained Leaves (B9) excellars 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on derial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A
Soils I	meet the requirer plogy Ind Indicators Indicators (Minimur Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks Inundation Visible or Imagery (B7) Sparsely Vegetated	m of one is 2) B2) 34) (B6) 1 Aerial	required. Check all the water MLR ———————————————————————————————————	nat apply.) Stained I A 1,2,4A, Crust (B11 ic Inverte ogen Sulfic zed Rhizo ence of Re nt Iron Re I Soils (Co ed or Stre (LRR A)	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3 educed Iron duction in b) ssed Plants)) 3) (C4)	W D S 	Vater Stained Leaves (B9) exce Value ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on derial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A
Hydro Wetlan Primary	meet the requirer blogy Ind Indicators y Indicators (Minimus Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks Inundation Visible or Imagery (B7) Sparsely Vegetated Surface (B8) Disservations	m of one is 2) B2) (B6) 1 Aerial Concave	required. Check all the Water MLR ———————————————————————————————————	nat apply.) Stained I A 1,2,4A, Crust (B11 ic Inverte ogen Sulfic zed Rhizo ence of Re nt Iron Re I Soils (Co ed or Stre (LRR A)	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3 duced Iron duction in b) sseed Plants in Remarks))) 3) (C4)	W D S 	Vater Stained Leaves (B9) exce Value Stained Leaves (B9) exce Value Stained Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR Actor)
Hydro Wetlan Primary	meet the requirer plogy Id Indicators Indicators (Minimus Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (E Iron Deposits (B5) Surface Soil Cracks Inundation Visible or Imagery (B7) Sparsely Vegetated Surface (B8) Deservations Water Present? Ye	m of one is 2) B2) (B6) Aerial Concave	required. Check all the MLR ———————————————————————————————————	r Stained I A 1,2,4A, Crust (B11 cic Inverted ogen Sulfice or Steent Iron Re I Soils (Come ed or Streent Iron Streent Iron Re (LRR A)	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3 duced Iron duction in b) ssed Plants in Remarks))) 3) (C4)	W	Vater Stained Leaves (B9) exce Value Stained Leaves (B9) exce Value Stained Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR Actor)

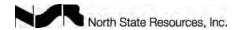
Algal crust indicates long duration inundation and oxidized rhizospheres indicate long duration saturation.



Walland Dalamaination Data Farms Wast		-! \/-I	laa 0 (Danis Danis	Data Point	Linia	 	
		n Mountains, Valleys, & Coast Region Feature Typ						
Project/Site: Fountain Wind		City/County: Shasta County						
Applicant/Owner: Avangrid		State: CA						
		Section, Township, Range Sec. 3, T34N, F						
Landform (hillslope, terrace, etc.) Road cut		Local relief (concave, convex, none) Convex						
Subregion (LRR): MLRA 22B Lat: Lat:				-121.847810°		n: _NA	AD83	
Soil Map Unit Name: _Toomes very rocky loam, 0 to 5	50 percent slop	pes	N\	NI Classification: N/A				
Are climatic/hydrologic conditions on the site typical for th	is time of year?	√/ (If m	o, explain i	n Remarks.)				
Are vegetation□/⊠soil□/⊠or hydrology□/⊠signi	ficantly disturbe	ed? Are norr	nal circums	tances present? 🗸 🗀				
Are vegetation / ⊠soil / ⊠or hydrology / ⊠hatu	rally problemation	c? (If neede	ed, explain i	in Remarks.)				
Summary of Findings (Attach site map showing sa	mnling point loc	rations trans	acts imnor	tant features etc.)				
Hydrophytic vegetation?					other waters?	1/ X		
				ta a welland:	MICI WAICIS:	لكالا		
Evaluation of features designated "Other W				Charana M	/: -I+I-			
Indicators: Defined bed and bank Sco Feature Designation: Perennial Intermittent	ur Ordin Enhemeral	ary High wa Blue-lin	iter Mark M e on USGS	apped Stream v Ouad Substra	/Iatn te			
Natural Drainage Artificial D	rainage	Navigable V	Vater					
Remarks Upland pair to DP27 seasonal wetlar								
Opiano pair to DP27 seasonal wellar	ia.							
Manatatian (Han Caiantifia Naman)								
Vegetation (Use Scientific Names) Tree Stratum (Plot Size: _30')	Absolute % Cover	Dominant Species?		Dominance Test W				
1 Pinus ponderosa	<u>% Cover</u> 5	Species? Y	UPL	Number of dominant that are OBL, FACW		0	_ (A)	
2.				Total number of dom				
				across all strata:		4	_ (B)	
3				Percent of dominant are OBL, FACW, or		0	_ (A/B)	
50%= <u>2.5</u> 20%= <u>1</u> Total Co				aro obe, i morr, or			_ (//////	
Sapling/Shrub Stratum (Plot Size: 15')		Specios 2	Ctatus	Prevalence Index V				
Sapiinig/Snitub Straturn (Plot Size:) 1 Arctostaphylos patula	<u>% Cover</u> 25	Species?	UPL	Total % Cover of:		_		
2. Quercus garryana	10	Y	FACU	OBL Species _				
		<u></u>	17100	FACW Species _		_		
3				· ·	x 3 =			
4				FACU Species _				
	VCI	6 . 0	CL I	UPL Species _	x 5 =	0		
Herb Stratum (Plot Size: <u>5'</u> ₁ Elymus caput-medusae	% Cover 35	Species?	Status UPL	Column Totals _	0 (A)	0	(B)	
2. Bromus tectorum	5	N	UPL	Prevalence Index =	B/A =			
) Diomus lectorum	5							
Epilobium sp.	5	N	UNK	Hydrophytic Veget			ion	
Epilobium sp. Unk sp.	5 5	N N		Rapid Test fo	r Hydrophytic V		ion	
Epilobium sp. Unk sp. 5.	5 5	N N	UNK	Rapid Test fo Dominance T Prevalence Ir	r Hydrophytic V est is >50% ndex is <u><</u> 3.0 ¹	egetat		
Epilobium sp. Unk sp. 5.	5	N N	UNK	Rapid Test fo Dominance T Prevalence Ir Morphologica	r Hydrophytic V fest is $>50\%$ ndex is $\leq 3.0^1$ I Adaptations ()	egetat	e supporting	
Epilobium sp. Unk sp. 6.	5 5	N N	UNK	Rapid Test fo Dominance T Prevalence Ir Morphologica data in Rema	r Hydrophytic V est is >50% ndex is <u><</u> 3.0 ¹	egetati provide arate s	e supportinç	
3. Epilobium sp. 4. Unk sp. 5	5 5	N N	UNK	Rapid Test fo Dominance T Prevalence Ir Morphologica data in Rema Wetland Non Problematic I	r Hydrophytic V fest is >50% ndex is ≤ 3.0¹ Il Adaptations¹ (rks or on a sep -Vascular Plant Hydrophytic Veg	egetati provide arate s s ¹ jetatior	e supportinç heet) n¹ (Explain)	
Epilobium sp. Unk sp. 5. 6. 7. 8. 50%=45	5 5 	N N	UNK	Rapid Test fo Dominance T Prevalence Ir Morphologica data in Rema Wetland Non Problematic I	r Hydrophytic V fest is >50% ndex is ≤ 3.0¹ Il Adaptations¹ (rks or on a sep -Vascular Plant Hydrophytic Veg	egetati provide arate s s ¹ jetatior	e supportinç heet) n¹ (Explain)	
Epilobium sp. Unk sp. 6. 7.	5 5 	N N	UNK	Rapid Test fo Dominance T Prevalence Ir Morphologica data in Rema Wetland Non Problematic I	r Hydrophytic V fest is >50% ndex is ≤ 3.0¹ Il Adaptations¹ (rks or on a sep -Vascular Plant Hydrophytic Veg	egetati provide arate s s ¹ jetatior	e supportinç heet) n¹ (Explain)	
3. Epilobium sp. 4. Unk sp. 5	5 5 	N N Species?	UNK UNK	Rapid Test fo Dominance T Prevalence Ir Morphologica data in Rema Wetland Non Problematic I	r Hydrophytic V fest is >50% ndex is ≤ 3.0¹ nl Adaptations¹ (rks or on a sepa -Vascular Plants Hydrophytic Veg soil and wetland	provide arate s s ¹ getation d hydro	e supporting heet) n¹ (Explain) ology must	
3. Epilobium sp. 4. Unk sp. 5	5 5 5 ver: 50 % Cover	N N Species?	UNK UNK Status	Rapid Test fo Dominance T Prevalence Ir Morphologica data in Rema Wetland Non Problematic Ir Indicators of hydric be present.	r Hydrophytic V fest is >50% ndex is ≤ 3.0¹ nl Adaptations¹ (rks or on a sepa -Vascular Plants Hydrophytic Veg soil and wetland	provide arate s s ¹ getation d hydro	e supporting heet) n¹ (Explain) ology must	

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Depth inches)	Matrix <u>Color (moist</u>) %	Redox Features Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	<u>Remarks</u>
- 8	10YR 3/2	100					Loam	Clay
	-		-	-				
vpes: (C = Concentration D	= Depletion	RM = Reduced Matrix	:	– ——— ² Location: PL	 _ = Pore Lir	 ning M = Ma	atrix
			I LRRs, unless other					s for Problematic Hydric Soil
	Histosol (A1)	producto d		y Redox (•			cm Muck (A10)
	Histic Epipedon (A2	2)	·	ed Matrix	*			ed Parent Materials (TF21)
	Black Histic (A3)	,			Mineral (exce	ept		ery Shallow Dark Surface (TF1
	Hydrogen Sulfide (44)		A 1) (F1)	()			egetated Sand/Gravel Bars
	Depleted Below Da	-			Matrix (F2)			other (Explain in Remarks)
	Thick Dark Surface	-		ted Matrix				, ,
	Sandy Mucky Mine				ırface (F6)		³ Indicato	ors of hydrophytic vegetation ar
:	Sandy Gleyed Matr	ix (S4)	Deple	eted Dark	Surface (F7)		wetland	hydrology must be present.
			Redo	x Depress	sions (F8)			
			a dua al-		0			
Ocetric	tivo Lavor (if proco	nt). Tung. D	POTOCK	Donth (Inches) <u>8</u>	Hvd	ric Sail Drac	ent? /X
	tive Layer (if prese	пі). Турс. <u> </u>	Carook	Бериі (11101103)	11941	ric Soil Pres	one.
		ту. турс. <u>-</u>	<u> </u>	Бериі (inches) <u>-</u>		110 3011 1103	on. , ,
Remar	ks		e observed. Para	· ·	,			
Remar	ks			· ·	,			
Remar No inc	ks dicators of hydri			· ·	,			
Remar No inc Hydro Wetlan	ks dicators of hydricators blogy and Indicators	c soils wer	e observed. Para	llithic be	edrock enc		d at 8 inch	es.
Remar No inc Hydro Wetlan	ks dicators of hydricators blogy and Indicators	c soils wer		llithic be	edrock enc		d at 8 inch	
Remar No inc Hydro Wetlan Primary	ks dicators of hydricators d Indicators y Indicators (Minimum)	c soils wer	e observed. Para	nat apply.)	edrock enco	ountered	d at 8 inch	es. Ty Indicators (2 or more required
Remar No ind Hydro Wetlan Primary	ks dicators of hydricators d Indicators y Indicators (Minimum Surface Water (A1)	c soils wer	e observed. Para	nat apply.)	edrock enco	ountered	d at 8 inch Secondar	es. Ty Indicators (2 or more required later Stained Leaves (B9) exce
Remar No inc Hydro Wetlan Primary	ks dicators of hydricators of Indicators y Indicators (Minimus Surface Water (A1) High Water Table (c soils wer	e observed. Para required. Check all th Wate MLR	nat apply.) Stained I	Leaves (B9)	ountered	d at 8 inch Secondar W	es. Ty Indicators (2 or more required Vater Stained Leaves (B9) excended VILRA 1,2,4A, and 4B)
Remar No inc Hydrc Wetlan Primary	ks dicators of hydricators ology d Indicators y Indicators (Minimum Surface Water (A1) High Water Table (A3)	c soils wer	e observed. Para required. Check all th Wate MLR Salt (nat apply.) Stained I A 1,2,4A, Crust (B11	Leaves (B9) and 4B)	ountered	d at 8 inch Secondar W M	y Indicators (2 or more required later Stained Leaves (B9) excell ILRA 1,2,4A, and 4B) rrainage Patterns (B10)
Remar No inc Hydro Wetlan Primary	dicators of hydricators of Indicators y Indicators (Minimum Surface Water (A1) High Water Table (A1) Water Marks (B1)	c soils were	e observed. Para required. Check all the Wate MLR Salt (nat apply.) r Stained I A 1,2,4A, Crust (B11	Leaves (B9) and 4B)) brates (B13)	ountered	Secondar W M L D	es. Ty Indicators (2 or more required later Stained Leaves (B9) excended later 1,2,4A, and 4B) Trainage Patterns (B10) Try-Season Water Table (C2)
Remar No inco Hydro Wetlan Primary	dicators of hydricators of Indicators Indicators (Minimum Market (Minimum) Surface Water (A1) High Water Table (Minimum) Saturation (A3) Water Marks (B1) Sediment Deposits	c soils were	e observed. Para required. Check all the Wate Salt (Aqua Hydro	nat apply.) r Stained I A 1,2,4A, Crust (B11 tic Inverte	Leaves (B9) and 4B)) brates (B13) de Odor (C1)	ountered	Secondar W D D S	y Indicators (2 or more required /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rrainage Patterns (B10) rry-Season Water Table (C2) aturation Visible on
Remar No ind Hydro Wetlan Primary	dicators of hydricators (Minimus of hydricators (Minimus of hydricators (Minimus of hydricators	um of one is r	required. Check all the MLR Salt C Aqua Hydro	nat apply.) r Stained A 1,2,4A, Crust (B11 tic Inverte	Leaves (B9) and 4B)) brates (B13)	except	Secondar W D D S	es. Ty Indicators (2 or more required Vater Stained Leaves (B9) excel VILRA 1,2,4A, and 4B) Trainage Patterns (B10) Try-Season Water Table (C2) aturation Visible on Aerial Imagery (C9)
Remar No inco Hydro Wetlan Primary	dicators of hydricators of Indicators Indicators (Minimum Market (Minimum) Surface Water (A1) High Water Table (Minimum) Saturation (A3) Water Marks (B1) Sediment Deposits	um of one is r	e observed. Para	nat apply.) r Stained I A 1,2,4A, Crust (B11 tic Inverte ogen Sulfic zed Rhizo	Leaves (B9) and 4B) brates (B13) de Odor (C1) espheres (C3	except	Secondar W D D S G	y Indicators (2 or more required /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rrainage Patterns (B10) rry-Season Water Table (C2) aturation Visible on
Remar No inco Hydro Wetlan Primary	dicators of hydricators of Indicators Indicators (Minimum Mater Table (Mater Mater Mater Mater Mater Mater Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust (Minimum Mater Ma	um of one is a A2) (B2)	e observed. Para	nat apply.) r Stained I A 1,2,4A, Crust (B11 tic Inverte ogen Sulfic zed Rhizo	Leaves (B9) and 4B)) brates (B13) de Odor (C1) espheres (C3) educed Iron (eduction in	except	Secondar W D D S G G	ry Indicators (2 or more required later Stained Leaves (B9) excending Aller 1,2,4A, and 4B) arainage Patterns (B10) ery-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) seomorphic Position (D2)
Remar No ind Hydro Wetlan Primary	dicators of hydricators of hydricators of hydricators of hydricators of Indicators of Indicators (Minimum Marks	um of one is a A2) (B2) (B4) (B6)	required. Check all the MLR Salt Company of	nat apply.) r Stained A 1,2,4A, Crust (B11 tic Inverte ogen Sulfic zed Rhizo ence of Re nt Iron Re I Soils (C6	Leaves (B9) and 4B)) brates (B13) de Odor (C1) espheres (C3) educed Iron (eduction in	except	Secondar —— W M —— D —— Si —— G —— Si —— F	ry Indicators (2 or more required /ater Stained Leaves (B9) excellular (B10) excellular (B
Remar No inco Hydro Wetlan Primary	dicators of hydricators of hydricators of hydricators of hydricators of Indicators of	um of one is a A2) (B2) (B4) (B6)	e observed. Para	nat apply.) r Stained A 1,2,4A, Crust (B11 tic Inverte ogen Sulfic zed Rhizo ence of Re nt Iron Re I Soils (C6	Leaves (B9) and 4B)) brates (B13) de Odor (C1) espheres (C3 educed Iron (eduction in	except	Secondar —— W —— D —— S —— G —— F —— R	es. Ty Indicators (2 or more required Vater Stained Leaves (B9) excel VILRA 1,2,4A, and 4B) Trainage Patterns (B10) Try-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) Seomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5)
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Remar No inco Hydro Wetlan Primary	dicators of hydricators of hydricators of hydricators of hydricators of Indicators (Minimum Surface Water (A1) High Water Table (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (Iron Deposits (B5) Surface Soil Cracks (Inundation Visible of Imagery (B7)	um of one is a A2) (B2) (B4) (B6) On Aerial	e observed. Para required. Check all th Wate MLR Salt (Aqua Hydro Oxidi Prese Rece Tilleo Stunt (D1)	nat apply.) r Stained I A 1,2,4A, Crust (B11 tic Inverte ogen Sulfic zed Rhizo ence of Re nt Iron Re I Soils (Cé ed or Stre (LRR A)	Leaves (B9) and 4B)) brates (B13) de Odor (C1) aspheres (C3) educed Iron (aduction in 6)	except	Secondar —— W —— D —— S —— G —— F —— R	ry Indicators (2 or more required Vater Stained Leaves (B9) excend ILRA 1,2,4A, and 4B) arainage Patterns (B10) expression Water Table (C2) aturation Visible on Aerial Imagery (C9) decomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) eaised Ant Mounds (D6) (LRR A
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Remar No inco Hydro Wetlan Primary	dicators of hydricators of Indicators Indicators (Minimum Indicato	um of one is in A2) (B2) (B4) (B6) on Aerial I Concave	required. Check all the salt of the salt o	nat apply.) r Stained I A 1,2,4A, Crust (B11 tic Inverte ogen Sulfic zed Rhizo ence of Re nt Iron Re I Soils (Cé ed or Stre (LRR A)	Leaves (B9) and 4B)) brates (B13) de Odor (C1) espheres (C3) educed Iron (eduction in 6) essed Plants in Remarks)	except	Secondar —— W —— D —— S —— G —— F —— R	ry Indicators (2 or more required later Stained Leaves (B9) excendent Indicators (B9) excendent Indicators (B10) expressed Patterns (B10) expressed Patterns (B10) expressed Patterns (B10) expressed Patterns (B10) exercial Imagery (C9) exercial Imagery (C9) exemplic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) existed Ant Mounds (D6) (LRR Arost-Heave Hummocks (D7)
Remar No inc Hydro Wetlan Primary	dicators of hydricators of hydricators of hydricators of hydricators of Indicators (Minimus Surface Water (A1) High Water Table (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (Iron Deposits (B5) Surface Soil Cracks Inundation Visible of Imagery (B7) Sparsely Vegetated Surface (B8) Observations	c soils were um of one is a A2) (B2) (B4) s (B6) on Aerial d Concave	e observed. Para required. Check all the Wate MLR Salt (Aqua Hydro Oxidi Prese Rece Tillec Stunt (D1) Other	nat apply.) r Stained I A 1,2,4A, Crust (B11 tic Inverteil ogen Sulfice zed Rhizo ence of Reint Iron Re I Soils (Ce ed or Stre (LRR A)	Leaves (B9) and 4B)) brates (B13) de Odor (C1) aspheres (C3) educed Iron (aduction in b) assed Plants in Remarks)	except	Secondar —— W —— D —— Si —— G —— Si —— Fi —— Fi	ry Indicators (2 or more required later Stained Leaves (B9) excendent Indicators (B9) excendent Indicators (B10) expressed Patterns (B10) expressed Patterns (B10) expressed Patterns (B10) expressed Patterns (B10) exercial Imagery (C9) exercial Imagery (C9) exemplic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) existed Ant Mounds (D6) (LRR Arost-Heave Hummocks (D7)



					Data Point	lustanus	29
Wetland Determination Data Form-Weste	ern Mounta	ains, Vali	eys, & C	Coast Region	Feature Type		nittent Strear
Project/Site: Fountain Wind		City/County	Shasta C			Date:	10/17/17
Applicant/Owner: Avangrid				State: C	A		-
Investigator(s): Gabe Youngblood			_ Section	, Township, Range S	ec. 3, T34N, R1	IE	
Landform (hillslope, terrace, etc.) Drainage	40.0040040	_ Local relie	ef (concave	, convex, none) Cond	cave	Slope	%5
Subicylon (Litty) Lat	40.831304°		0	-121.847573°		: <u>N</u>	ND83
Soil Map Unit Name:Windy and McCarthy stony sand							
Are climatic/hydrologic conditions on the site typical for this					,		
Are vegetation \(\begin{align*} \begin{align*} \Box \\ \\ \\ \ext{Soil} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\					J		
Are vegetation / Soil / Sor hydrology / Ahatura	ally problemation	c? (If neede	ed, explain i	in Remarks.)			
Summary of Findings (Attach site map showing sam	npling point loc	ations, trans	ects, impor	tant features, etc.)			
Hydrophytic vegetation? 🔲 🔀 Hydric soil? 🔲 🔀 Wetla	and hydrology?	√	sampled are	ea a wetland? 🔲 🗵	Other waters? ✓	/	
Evaluation of features designated "Other Wa	iters of the	United St	ates"				
Indicators: Defined bed and bank ✓ Scou	r √ Ordin	arv High Wa	ter Mark Ma	apped 🗹 Stream	Width 2'		
Feature Designation: Perennial Intermittent Natural Drainage Artificial Dr	Ephemeral	Blue-lin	e on USGS	Quad Substr	ate Soil & Rock		
		ivavigable v	vater	_			
Remarks _{DP documents} OHWM of an intermitte	ent stream.						
Vegetation (Use Scientific Names)	Absolute	Dominant		Dominance Test V			
Tree Stratum (Plot Size:)	<u>% Cover</u>	Species?	Status	Number of dominar that are OBL, FAC			(Δ)
1 2				Total number of do			
3.				across all strata:			_ (B)
4				Percent of dominar are OBL, FACW, o			(A/B)
50%=	0						- ()
Sapling/Shrub Stratum (Plot Size:)		Species?	Status	Prevalence Index Total % Cover of:	worksneet Multiply b	V	
1					x 1 =	_ ^	
2.				FACW Species			
3					x 3 =	0	
4				FACU Species		0	
50%= Total Cov					x 5 =		
Herb Stratum (Plot Size:)		Species?	Status	Column Totals			
1							(B)
2				Prevalence Index =	= B/A =	_	
3				Hydrophytic Vege			
4				Rapid Test f	for Hydrophytic V	egetati	on
5				Prevalence	Index is < 3.01		
5				Morphologic	al Adaptations1 (
7				data in Rem	arks or on a sepa n-Vascular Plants	arate si S ¹	neet)
3				Problematic	Hydrophytic Veg	etation	
50%= Total Cov				¹ Indicators of hydri	c soil and wetland	d hydro	ology must
Woody/Vine Stratum (Plot Size:)				be present.			_
1				Hydrophytic Vege	tation Present?		
2				1			
50%=							

\sim	• 1	
\setminus \cap	ш	C

Depth	scription: (De: Matrix			edox Features					
nches)	Color (mo	<u>9</u>	<u>6</u>	Color (moist)	<u>%</u>	<u>Type¹</u>	<u>Loc²</u>	<u>Texture</u>	<u>Remarks</u>
	= Concentration	D = Deplet	ion RM =	Reduced Matrix		 ² Location: PL	= Pore Lin	ing M = Matrix	
ydric Soi	I Indicators: (Applicable	to all LRR	s, unless otherw	ise noted	d)		Indicators for	Problematic Hydric Soils
Hi:	stosol (A1)			Sandy	Redox (S	S5)		2 cm N	luck (A10)
Hi:	stic Epipedon ((A2)		Strippe	ed Matrix	(S6)		Red Pa	arent Materials (TF21)
Bla	ack Histic (A3)			Loamy	Mucky N	Mineral (exce	ept	Very S	hallow Dark Surface (TF12
Hy	drogen Sulfide	e (A4)		MLRA	1) (F1)			Vegeta	ted Sand/Gravel Bars
De	epleted Below I	Dark Surfa	ce (A11)	Loamy	Gleyed	Matrix (F2)		Other (Explain in Remarks)
Th	nick Dark Surfa	ce (A12)		Deplet	ed Matrix	(F3)			
Sa	andy Mucky Mir	neral (S1)		Redox	Dark Su	rface (F6)		³ Indicators of	hydrophytic vegetation and
Sa	andy Gleyed Ma	atrix (S4)				Surface (F7)		wetland hydro	logy must be present.
				Redox	Depress	sions (F8)			
Restrictiv	e Layer (if pre	sent): Typ	e:		Depth (I	Inches)	Hydi	ric Soil Present?	·×
No soils	s pit scoured	channel							
No soils Hydrolo Wetland	ogy Indicators			ed. Check all tha	at apply.)			Secondary Indi	cators (2 or more required
No soils Hydrolo Wetland Primary I	ogy Indicators	mum of on		ed. Check all tha			ovcont	-	
No soils Hydrolo Wetland Primary lo	ogy Indicators Indicators (Mini	mum of on		Water	Stained I	Leaves (B9)	except	Water	Stained Leaves (B9) excep
No soils Hydrolo Wetland Primary I	ogy Indicators Indicators (Mini	mum of on		Water MLRA	Stained I	Leaves (B9) and 4B)	except	Water : MLRA	Stained Leaves (B9) excep 1,2,4A, and 4B)
No soils Hydrolo Wetland Primary li Su Hi Sa	ogy Indicators Indicators (Minicators (Min	mum of on 11) e (A2)		Water MLRA Salt Cr	Stained I 1,2,4A, rust (B11)	Leaves (B9) and 4B)	except	Water MLRA Draina	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10)
No soils Hydrold Wetland Primary II Su Hi Sa	ogy Indicators Indicators (Minicators (Minicators (Minicators (Minicators (Minicators (Mater Tables)) Indicators (Minicators (mum of on 11) e (A2)		Water MLRA Salt Cr Aquati	Stained I 1,2,4A, rust (B11) c Invertel	Leaves (B9) and 4B)) brates (B13)	·	Water : MLRA Draina	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2)
Hydrold Wetland Primary II Summer Hitelemann	Dgy Indicators Indicators (Minicators (Min	mum of on a1) e (A2)) its (B2)		Water MLRA Salt Cr Aquatio	Stained I 1,2,4A, ust (B11) c Invertel gen Sulfic	Leaves (B9) and 4B)) brates (B13) de Odor (C1)		Water Water MLRA Drainag Dry-Se Satura	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on
No soils Hydrolo Wetland Primary Ii Stand Hii Stand V Dr	Dgy Indicators Indicators (Minicators (Min	mum of on (1) (e (A2) (its (B2) (3)		Water MLRA Salt Cr Aquati Hydrog	Stained I 1,2,4A, rust (B11) c Invertel gen Sulficed Rhizos	Leaves (B9) and 4B)) brates (B13)	·)	Water : MLRA Draina Dry-Se Satura	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2)
Hydrold Wetland Primary II Su Hii Sa Wi Ali	Dgy Indicators Indicators (Minicators (Min	mum of on (1) (2) (A2) (3) (its (B2) (3) (5) (B4)		Water MLRA Salt Cr Aquatio Hydrog Oxidize	Stained I 1,2,4A, rust (B11) c Invertel gen Sulficed Rhizon nce of Re	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3	·)	Water of MLRA Drainag Dry-Se Saturat Aerial Geomo	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9)
No soils Hydrolo Wetland Primary II Stand With Stand With Stand With Stand Iron Iron	Dgy Indicators Indicators (Minicators (Minicators (Minicators (Minicators (Minicators (Minicator)) Indicators (Minicator) Indicator (Minicator	mum of on (A2) (A2) (b) (b) (b) (b) (b) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d		Water MLRA Salt Cr Aquation Hydroo Oxidize Preser Recen	Stained I 1,2,4A, rust (B11) c Invertel gen Sulficed Rhizon nce of Re	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3 educed Iron (duction in	·)	Water : MLRA Drainae Dry-Se Saturae Aerial Geomo	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2)
No soils Hydrolo Wetland Primary II Sa W Se ✓ Dr Alg	Dgy Indicators Indicators (Minicators (Minicators (Minicators (Minicators (Minicators (Minicators (Manicator)) Indicators (Mater Marks (B1) Indicators (Manicator) Indicators (Minicator) Indicator (Minicator	mum of on (1) (e) (A2) (its (B2) (B3) (b) (B4) (b) (cks (B6)		Water MLRA Salt Cr Aquatir Hydrog Oxidize Preser Recen Tilled	Stained I 1,2,4A, rust (B11) c Invertel gen Sulfice ed Rhizos ace of Re t Iron Rec Soils (C6	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3 educed Iron (duction in	·)	Water : MLRA Draina Dry-Se Satural Aerial Geomo Shallow FAC-N	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) v Aquitard (D3) eutral Test (D5)
No soils Hydrolo Wetland Primary II Standary Hit Standary No	Dgy Indicators Indicators (Minicators (Min	mum of on (1) (e) (A2) (its (B2) (B3) (b) (B4) (b) (cks (B6)		Water MLRA Salt Cr Aquation Hydroo Oxidized Preser Recen Tilled Stunte	Stained I 1,2,4A, rust (B11) c Invertel gen Sulfice ed Rhizos ace of Re t Iron Rec Soils (C6	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3 educed Iron (duction in	·)	Water MLRA Drainag Dry-Se Satural Aerial Geomo Shallov FAC-N Raised	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) v Aquitard (D3) eutral Test (D5)
No soils Hydrolo Wetland Primary li Sa Wi Se ✓ Dr Alg	Dgy Indicators Indicators (Minicators (Minicators (Minicators (Minicators (Minicators (Minicators (Minicator)) Inface Water Table Inface Water (A3) Inface Water Table Inface Water (A3) Inface Water (A3) Inface Water (A3) Inface Water (A3) Inface Soil Crace Inface Soil Crace Inface Soil Crace Indicator Visible	mum of on (A1) (E (A2) (B2) (B3) (St (B4) (S) (Cks (B6) (E on Aerial	e is require	Water MLRA Salt Cr Aquation Hydrog Oxidize Preser Recen Tilled Stunte (D1) (l	Stained I A 1,2,4A, rust (B11) C Invertel gen Sulfice ed Rhizon nce of Re t Iron Rec Soils (C6 d or Street	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3 educed Iron (duction in	·)	Water MLRA Drainag Dry-Se Satural Aerial Geomo Shallov FAC-N Raised	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) v Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A)
Hydrold Wetland Primary In Su Hit Sa W Se ✓ Dr Ale Inc In Sp	Dgy Indicators Indicators (Minicators (Minicators (Minicators (Minicators (Minicators (Minicators (Minicators (Minicator) (Min	mum of on (A1) (E (A2) (B2) (B3) (St (B4) (S) (Cks (B6) (E on Aerial	e is require	Water MLRA Salt Cr Aquation Hydrog Oxidize Preser Recen Tilled Stunte (D1) (l	Stained I A 1,2,4A, rust (B11) C Invertel gen Sulfice ed Rhizon nce of Re t Iron Rec Soils (C6 d or Street	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3 educed Iron (duction in b) ssed Plants	·)	Water MLRA Drainag Dry-Se Satural Aerial Geomo Shallov FAC-N Raised	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) v Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A)
No soils Hydrolo Wetland Primary II Su Hii Sa Wi Se ✓ Dr Iro In In Sp Su Field Ob	Indicators Indicators (Minicators (Minicators (Minicators (Minicators (Minicators (Minicators (Minicators (Minicators (Minicator) (M3)) Indicators (M3) Indicators (Minicators (M3) Indicators	mum of on (1) (2) (42) (3) (5) (5) (64) (65) (64) (65) (65) (66) (66) (66) (66) (66) (66	e is require	Water MLRA Salt Cr Aquation Hydrog Oxidized Preser Recen Tilled Stunte (D1) (I	Stained I 1,2,4A, rust (B11) c Invertel gen Sulfice ed Rhizon nce of Re t Iron Rec Soils (C6 d or Stree LRR A) (Explain i	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3 educed Iron (duction in b) ssed Plants in Remarks)	C4)	Water MLRA MLRA Draina Dry-Se Satural Aerial Geomo Shallov FAC-N Raised Frost-F	ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) ov Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
Hydrold Wetland Primary II Stand Hi Stand Hi Stand Int Stand Int Stand Stand Field Ob Surface W	Indicators Indicators (Minicators (Minicators (Minicators (Minicators (Minicators (Minicators (Minicators (Minicator)) Inface Water Table (Minicator) Inface Water Table (Minicator) Inface Marks (B1) Inface Marks (B1) Inface Soil Crace Inface Soil Crace Inface Soil Crace Inface (B7) Inface (B8) Inface (B8) Inface (B8) Inface (B8) Inface Present?	mum of on (1) (e) (A2) (f) (its (B2) (its (B4) (its) (its (B6) (its (B6) (its on Aerial (ited Concav	e is require	Water MLRA Salt Cr Aquation Hydroo Oxidized Preser Recen Tilled Stunte (D1) (I	Stained I A 1,2,4A, rust (B11) C Invertel gen Sulfice ed Rhizon nce of Re t Iron Rec Soils (C6 d or Stree LRR A) (Explain i	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) educed Iron (duction in b) ssed Plants in Remarks)	C4)	Water MLRA Drainag Dry-Se Satural Aerial Geomo Shallov FAC-N Raised	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) ov Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
Hydrold Wetland Primary II Stand Hi Stand Hi Stand Int Stand Int Stand Stand Field Ob Surface W	Indicators Indicators (Minicators (Minicators (Minicators (Minicators (Minicators (Minicators (Minicators (Minicators (Minicator) (Minicat	mum of on (1) (2) (42) (3) (5) (5) (64) (65) (64) (65) (65) (66) (66) (66) (66) (66) (66	e is require	Water MLRA Salt Cr Aquation Hydrog Oxidized Preser Recen Tilled Stunte (D1) (I	Stained I A 1,2,4A, rust (B11) C Invertel gen Sulfice ed Rhizon nce of Re t Iron Rec Soils (C6 d or Stree LRR A) (Explain i	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3 educed Iron (duction in b) ssed Plants in Remarks)	C4)	Water: MLRA Drainag Dry-Se Satural Aerial Geomo Shallov FAC-N Raised Frost-H	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) ov Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) Heave Hummocks (D7)

Drift deposits indicate frequent flooding.



City/County: Shasta County Date: 10/24/17	Wetland Determination Data Form-Wester	n Mounta	ains. Vall	evs. & (Coast Region	Data Point Feature Type	Wetla	30 and Meadow
Special California State S			-	J	•		Data	10/24/17
Section Township Range Township			City/Courity		State. (California	Date.	
andorm (fillslope, terrace, ect.) Shallow depression on terrace obstitetion (LRR): MLRA 22B Latt. 40.824316** Latt. 1.0cal relief (concave, convex, none). Concave Slope %, 0 subtregion (LRR): MLRA 22B Latt. 40.824316** Lang_121.779911** Datum: NAD83 bit subtregion (LRR): MLRA 22B Latt. 40.824316** Lang_121.779911** Datum: NAD83 bit subtregion (LRR): MLRA 22B Latt. 40.824316** Lang_121.779911** Datum: NAD83 bit subtregion (LRR): MLRA 22B Latt. 40.824316** Lang_121.779911** Datum: NAD83 bit subtregion (LRR): MLRA 22B Latt. 40.824316** Lang_121.779911** Lang_121.779				Section			2E	-
We climatichydrologic conditions on the site typical for this time of year?	andform (hillslope, terrace, etc.) Shallow depression on	terrace	_ Local relie	ef (concave	convex, none) Con	icave	Slope '	/
Ver vegetation				0		ne	ı	
Absolute Dominance Test Worksheet Number of dominant species Species? Status Stratum (Plot Size:) Welland hydrology Dominant Indicator Species? Status Stratum (Plot Size:) Welland hydrology Dominant Indicator Species? Status Stratum (Plot Size:) Welland hydrology Dominant Indicator Species? Status Stratum (Plot Size:) Welland hydrology Dominant Indicator Species? Status Stratum (Plot Size:) Welland hydrology Dominant Indicator Species? Status Species? Status Stratum (Plot Size:) Welland hydrology Dominant Indicator Species? Status Stratum (Plot Size:) Welland hydrology Dominant Indicator Species? Status Species? Status Species? Status Stratum (Plot Size:	Are vegetation	ntly disturbe	ed? Are norn	nal circums	tances present?			
Defined bed and bank						Other waters?	/ ×	
Absolute Scientific Names) Free Stratum (Plot Size:	ndicators: Defined bed and bank Scour _ Feature Designation: Perennial Intermittent E	Ordin ohemeral	ary High Wa Blue-lin	ter Mark Ma e on USGS	Quad Subst	Width rate		
	Remarks _{DP} documents a wetland meadow in a s	shallow de	epression a	along the	stream terrace fo	r Hatchet Cree	k.	
across all strata: 1 (B) Percent of dominant species that are OBL, FACW, or FAC: 100 (A/B) Sow= 20%= Total Cover: 0 Sapling/Shrub Stratum (Plot Size:)	Vegetation (Use Scientific Names) Free Stratum (Plot Size:)				Number of domina that are OBL, FAC	ant species CW, or FAC:	1	_ (A)
Free Valence Index Worksheet Sapling/Shrub Stratum (Plot Size:) Scover Species? Status	2 3 1				across all strata: Percent of domina	int species that	100	
FACW Species x 2 = 0	50%= 20%= Total Cover: Sapling/Shrub Stratum (Plot Size:)		Species?	Status			<u>y</u>	
FAC Species x 3 = 0	l				'			
Total Cover: 0	<u>/</u> .				1			
Total Cover Species Status	l							
Herb Stratum (Plot Size: _5') Carex utriculata 100	50%=	0						
Prevalence Index = B/A =	Herb Stratum (Plot Size: _5')	% Cover	Species?					— (B)
Hydrophytic Vegetation Indicators Rapid Test for Hydrophytic Vegetation Dominance Test is >50% Prevalence Index is ≤ 3.0¹ Morphological Adaptations¹ (provide supporting data in Remarks or on a separate sheet) Wetland Non-Vascular Plants¹ Problematic Hydrophytic Vegetation¹ (Explain) **Indicators of hydric soil and wetland hydrology must be present.** Hydrophytic Vegetation Indicators Morphological Adaptations¹ (provide supporting data in Remarks or on a separate sheet) Wetland Non-Vascular Plants¹ Problematic Hydrophytic Vegetation¹ (Explain) **Indicators of hydric soil and wetland hydrology must be present.** Hydrophytic Vegetation Present? ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓	·			OBL	1			(D)
Total Cover: 100 *Indicators of hydric soil and wetland hydrology must be present. *Indicators of hydric soil and wetland hydrology must be present. *Indicators of hydric soil and wetland hydrology must be present. *Indicators of hydric soil and wetland hydrology must be present. *Indicators of hydric soil and wetland hydrology must be present. *Indicators of hydric soil and wetland hydrology must be present. *Indicators of hydric soil and wetland hydrology must be present. *Indicators of hydric soil and wetland hydrology must be present. *Indicators of hydric soil and wetland hydrology must be present. *Indicators of hydric soil and wetland hydrology must be present. *Indicators of hydric soil and wetland hydrology must be present. *Indicators of hydric soil and wetland hydrology must be present. *Indicators of hydric soil and wetland hydrology must be present. *Indicators of hydric soil and wetland hydrology must be present. *Indicators of hydric soil and wetland hydrology must be present. *Indicators of hydric soil and wetland hydrology must be present. *Indicators of hydric soil and wetland hydrology must be present. *Indicators of hydric soil and wetland hydrology must be present. *Indicators of hydric soil and wetland hydrology must be present. *Indicators of hydric soil and wetland hydrology must be present. *Indicators of hydric soil and wetland hydrology must be present. *Indicators of hydric soil and wetland hydrology must be present. *Indicators of hydric soil and wetland hydrology must be present. *Indicators of hydric soil and wetland hydrology must be present. *Indicators of hydric soil and wetland hydrology must be present. *Indicators of hydric soil and wetland hydrology must be present. *Indicators of hydric soil and wetland hydrology must be present. *Indicators of hydric soil and wetland hydrology must be present. *Indicators of hydric soil and hydrology must be present. *Indicators of hydric soil and hydrology must be present. *In	3				Rapid Test Dominance Prevalence Morphologi data in Rer Wetland No	for Hydrophytic V e Test is >50% e Index is ≤ 3.0¹ cal Adaptations¹ (marks or on a sep on-Vascular Plant	'egetati (provide arate sl s ¹	e supporting heet)
Woody/Vine Stratum (Plot Size:) % Cover Species? Status be present. Hydrophytic Vegetation Present? ✓/□ 50%= 20%= Total Cover: 0		100			¹ Indicators of hydr			
50%=	Noody/Vine Stratum (Plot Size:)	% Cover	•		,	etation Present?	V /]
			50					

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r <mark>ofile D</mark> Depth	Matrix		Redox Features	6				
inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks
)-6	7.5YR 2.5/2	100					Loam	Sandy
-12	10YR 4/2	80	5YR4/6	20	С	PL	Loam	Sandy
		-						
ypes:	C = Concentration D =	Depletion	RM = Reduced Matr	x :	– ——— ² Location: P	L = Pore Lir	 ning M = Ma	ıtrix
	oil Indicators: (App				d)		Indicator	s for Problematic Hydric Soil:
	Histosol (A1)		San					cm Muck (A10)
	Histic Epipedon (A2)			ped Matrix	-			ed Parent Materials (TF21)
	Black Histic (A3)			•	Mineral (exc	ept		ery Shallow Dark Surface (TF1)
	Hydrogen Sulfide (A4	.)		PA 1) (F1)	(1			egetated Sand/Gravel Bars
	Depleted Below Dark				Matrix (F2)			ther (Explain in Remarks)
	Thick Dark Surface (leted Matrix				(=
	Sandy Mucky Minera	,		ox Dark Su	. ,		³ Indicato	ors of hydrophytic vegetation and
	Sandy Gleyed Matrix				Surface (F7)		hydrology must be present.
		(- ')		ox Depress	-	,		y 3y
				·				
Restric	tive Layer (if present): Type:_		_ Depth (Inches)	Hyd	ric Soil Pres	ent? /X
Soils	meet the requiren	nents for	indicator F3 Dep	leted Ma	trix.			
Hydro Wetlan	meet the requiren						Secondar	v Indicators (2 or more required
Soils in Hydro	meet the requirent plogy ad Indicators y Indicators (Minimun		required. Check all	that apply.))) avcant		y Indicators (2 or more required
Soils in Hydro	Dlogy Ind Indicators Indicators (Minimun Surface Water (A1)	n of one is	required. Check all	that apply.)	Leaves (B9)) except	W	/ater Stained Leaves (B9) exce
Hydro Wetlan Primary	plogy ad Indicators y Indicators (Minimum Surface Water (A1) High Water Table (A2)	n of one is	required. Check all Wat ML	that apply.) er Stained RA 1,2,4A,	Leaves (B9)	except	\\ \	/ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B)
Hydro Wetlan Primary	Dlogy Id Indicators Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3)	n of one is	required. Check all Wat ML Salt	that apply.) er Stained RA 1,2,4A, Crust (B11	Leaves (B9) and 4B)		W D	/ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10)
Hydro Wetlan Primary	Dlogy Ind Indicators Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	n of one is	required. Check all —— Wat ML —— Salt —— Aqu	that apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte	Leaves (B9) and 4B)) brates (B13)	W D D	/ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2)
Hydro Wetlan Priman	plogy ad Indicators y Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B	n of one is	required. Check all —— Wat ML —— Salt —— Aqu —— Hyd	that apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte	Leaves (B9) and 4B)) brates (B13 de Odor (C1)	W D D S	/ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on
Hydro Wetlan Primary	meet the requirement of the requ	n of one is 2) 32)	required. Check all —— Wat ML —— Salt —— Aqu —— Hyd	that apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte rogen Sulfic	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3)) 3)	W D D S	Vater Stained Leaves (B9) exce VILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9)
Hydro Wetlan Primary	meet the requirent plogy ad Indicators y Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B	n of one is 2) 32)	required. Check all —— Wat ML —— Salt —— Aqu —— Hyd —— Oxio	that apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte rogen Sulfic lized Rhizo ence of Re	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3)) 3)	W D S ✓ G	Vater Stained Leaves (B9) exce Value IIII (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
Hydro Wetlan Primary	meet the requirent plogy and Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B1) Iron Deposits (B5)	n of one is 2) 32) 4)	required. Check all —— Wat ML —— Salt —— Aqu —— Hyd —— Oxio —— Pres	that apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte rogen Sulfic lized Rhizo ence of Re	Leaves (B9) and 4B)) brates (B13 de Odor (C1 espheres (C3 educed Iron eduction in)) 3)	W D S G S	Vater Stained Leaves (B9) exce VILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3)
Soils I	meet the requiremental pology and Indicators by Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B1) Iron Deposits (B5) Surface Soil Cracks (B3)	n of one is 2) 32) 4) B6)	required. Check all Wat ML Salt Aqu Hyd V Oxic Pres Tille	that apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte rogen Sulfic lized Rhizo ence of Re ent Iron Re ed Soils (C6	Leaves (B9) and 4B)) brates (B13 de Odor (C1 espheres (C3 educed Iron eduction in) 1) 3) (C4)	WD	Vater Stained Leaves (B9) exce VILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5)
Hydro Wetlan Priman	meet the requiremental plogy and Indicators by Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B1) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on	n of one is 2) 32) 4) B6)	required. Check all —— Wat ML —— Salt —— Aqu —— Hyd —— Oxic —— Pres —— Rec —— Stur	er Stained RA 1,2,4A, Crust (B11 atic Inverte rogen Sulfic lized Rhizo ence of Re ent Iron Re ed Soils (Co ted or Stre	Leaves (B9) and 4B)) brates (B13 de Odor (C1 espheres (C3 educed Iron eduction in) 1) 3) (C4)	W D S 	Vater Stained Leaves (B9) exce Value II. A.
Soils I	meet the requiremental pology and Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B1) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Imagery (B7)	n of one is 2) 32) 4) B6) Aerial	required. Check all —— Wat ML —— Salt —— Aqu —— Hyd —— Oxid —— Pres —— Rec —— Stur (D1	that apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte rogen Sulfic lized Rhizo ence of Re ent Iron Re ed Soils (Co ted or Stre) (LRR A)	Leaves (B9) and 4B)) brates (B13 de Odor (C1 espheres (C3 educed Iron eduction in 6) essed Plants) 1) 33) (C4)	W D S 	Vater Stained Leaves (B9) exceution of the American American (B10) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on the American Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5)
Soils I	meet the requiremental plogy and Indicators by Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B1) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on	n of one is 2) 32) 4) B6) Aerial	required. Check all —— Wat ML —— Salt —— Aqu —— Hyd —— Oxid —— Pres —— Rec —— Stur (D1	that apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte rogen Sulfic lized Rhizo ence of Re ent Iron Re ed Soils (Co ted or Stre) (LRR A)	Leaves (B9) and 4B)) brates (B13 de Odor (C1 espheres (C3 educed Iron eduction in) 1) 33) (C4)	W D S 	Vater Stained Leaves (B9) excellar Alamand Alby rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR Albertal Albertal Albertal Albertal Albertal (D6) (LRR Albertal Albertal (D6) (LRR Albertal (D6) (D6) (LRR Albertal (D6) (D6) (LRR Albertal (D6) (D6) (D6) (D6) (D6) (D6) (D6) (D6)
Soils I	meet the requiremental pology and Indicators by Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B1) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Imagery (B7) Sparsely Vegetated (Inundation Vegetated (I	n of one is 2) 32) 4) B6) Aerial	required. Check all —— Wat ML —— Salt —— Aqu —— Hyd —— Oxid —— Pres —— Rec —— Stur (D1	that apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte rogen Sulfic lized Rhizo ence of Re ent Iron Re ed Soils (Co ted or Stre) (LRR A)	Leaves (B9) and 4B)) brates (B13 de Odor (C1 espheres (C3 educed Iron eduction in 6) essed Plants) 1) 33) (C4)	W D S 	Vater Stained Leaves (B9) exce Value II. A.
Hydro Wetlan Primary	meet the requiremental pology and Indicators y Indicators (Minimum Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Imagery (B7) Sparsely Vegetated (Surface (B8) Disservations	n of one is 2) 32) 4) B6) Aerial Concave	required. Check all Wat ML Salt Aqu Hyd Voxic Pres Rec Tille Stur (D1	that apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte rogen Sulfic lized Rhizo ence of Re ent Iron Re ed Soils (Co ted or Stre) (LRR A)	Leaves (B9) and 4B)) brates (B13 de Odor (C1 espheres (C3 educed Iron eduction in 6) essed Plants in Remarks) 1) 33) (C4)	W D S 	Vater Stained Leaves (B9) exce Value III. A 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A
Hydro Wetlan Primary Field C Surface	meet the requiremental pology and Indicators (Minimum Minimum	n of one is 2) 32) 4) B6) Aerial Concave	required. Check all —— Wat ML —— Salt —— Aqu —— Hyd —— Oxio —— Pres —— Rec —— Stur —— Otho	er Stained RA 1,2,4A, Crust (B11 atic Inverte rogen Sulfic lized Rhizo ence of Re ent Iron Re ed Soils (Co ted or Stre) (LRR A) er (Explain	Leaves (B9) and 4B)) brates (B13 de Odor (C1 espheres (C3 educed Iron eduction in 6) essed Plants in Remarks) 1) 33) (C4)	W	Vater Stained Leaves (B9) exce Value III. A 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A

Algal crust indicates long duration inundation. Oxidized rhizospheres indicate long duration saturation.



Wetland Determination Data Form-Weste	ern Mounta	ains. Val	levs. & (Data Poii Coast Region Feature Typ	
Project/Site: Fountain Wind			•		
Applicant/Owner: Avangrid		onyrodunty	·	State: California	Dutc
Caba Varranhland			Section	n, Township, Range Sec. 8, T34N,	R2E
Landform (hillslope, terrace, etc.) Stream terrace					
Subregion (LRR): MLRA 22B Lat:				-121.779913° Dai	
Soil Map Unit Name: Gasper-Scarface complex, mois			-		
Are climatic/hydrologic conditions on the site typical for this					
Are vegetation □/⊠soil □/⊠or hydrology □/⊠signifi	-				
Are vegetation \[\script \overline{\scripts} \script \overline{\scripts} \rangle \script \overline{\scripts} \rangle \overline{\scripts} \overline{\scripts} \overline{\scripts} \rangle \overline{\scripts}	ally problemation	c? (If neede	ea, expiain .	IN Remarks.)	
Summary of Findings (Attach site map showing sam					
Hydrophytic vegetation? 🗹 🗌 Hydric soil? 🔲 🔀 Wetla	and hydrology?	□ ⊠ Is s	sampled are	ea a wetland? \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	,□ / ⊠
Evaluation of features designated "Other Wa Indicators: Defined bed and bank Scoul Feature Designation: Perennial Intermittent Natural Drainage Artificial Dr. Remarks Upland pair to Data Point 30 wet mean	r Ordin Ephemeral ainage	ary High Wa Blue-lin	iter Mark M e on USGS	S Ouad Substrate	
Vegetation (Use Scientific Names) Tree Stratum (Plot Size:) 1.		Dominant Species?		Dominance Test Worksheet Number of dominant species that are OBL, FACW, or FAC: Total number of dominant specie	(A)
2				across all strata:	1 (B)
3.				Percent of dominant species that	t 100(A/B)
4	or. 0			are OBL, FACW, or FAC:	(A/B)
50%=	CI			Prevalence Index Worksheet	
Sapling/Shrub Stratum (Plot Size:)	% Cover		Status	Total % Cover of: Multipl	
1				OBL Species x 1	_
2				FACW Species x 2	=
3				FAC Species x 3	
4				FACU Species x 4	= 0
50%= Total Cove				UPL Species x 5	= 0
Herb Stratum (Plot Size: <u>5'</u>) 1. Juncus sp.	% Cover 60	Species? Y	Status FAC	Column Totals 0 (A)	
Achillea millefolium	10	N	FACU	Prevalence Index = B/A =	
2. Actiliea mileiolium 3. Drymocallis glandulosa	10		FAC		
	10	N	?	Hydrophytic Vegetation Indicate Rapid Test for Hydrophytic	
4. Unk grass				Dominance Test is >50%	
5				Prevalence Index is < 3.0	1
6				Morphological Adaptations	
7				data in Remarks or on a s Wetland Non-Vascular Pla	
8				Problematic Hydrophytic \	Vegetation ¹ (Explain)
50%=45 20%=18 Total Cov	er: <u>90</u>			¹ Indicators of hydric soil and wet	land hydrology must
Woody/Vine Stratum (Plot Size:)	% Cover	Species?	Status	be present.	
1				Hydrophytic Vegetation Preser	nt? √ /
2					
	er: 0				

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Profile Depth	escription: (Desci Matrix	ibe to the di		x Features					
(<u>inches</u>) 0-12	Color (moist 7.5YR 2.5/2	<u>%</u> 100		or (moist)	<u>%</u>	Type ¹	Loc ²	Texture Loam	Remarks Sandy
			·						
Types: (C = Concentration D	= Depletion	RM = Red	duced Matrix	2	Location: PL	= Pore Lin	ing M = Ma	trix
	oil Indicators: (Ap	•							s for Problematic Hydric Soils
•	Histosol (A1)	phodolo to c		Sandy		•			cm Muck (A10)
	Histic Epipedon (A2	2)		Strippe					ed Parent Materials (TF21)
	Black Histic (A3)	,	_			/lineral (exc e	ept		ery Shallow Dark Surface (TF12
	Hydrogen Sulfide (/	\ 4)	_	-	1) (F1)	`	•		egetated Sand/Gravel Bars
	Depleted Below Da	-	A11) _	Loamy		Matrix (F2)			ther (Explain in Remarks)
	Thick Dark Surface	(A12)		Deplete	3				,
	Sandy Mucky Mine	ral (S1)	_	Redox	Dark Sur	rface (F6)		³ Indicato	ors of hydrophytic vegetation and
	Sandy Gleyed Matr	ix (S4)	_	Deplete	ed Dark S	Surface (F7)		wetland I	hydrology must be present.
			_	Redox	Depress	ions (F8)			
Restrict	tive Layer (if prese	nt): Type:_			Depth (I	nches)	Hydr	ic Soil Pres	ent? /X
Remark	ks dicators of hydri	c soils we	re observ		<u> </u>				
No inc	dicators of hydri	c soils we	re observ						
Remark No inco	dicators of hydri			red.				Secondar	y Indicators (2 or more required
Remark No inco Hydro Wetlan Primary	dicators of hydricology Indicators (Minimum)	um of one is		red. Check all that	it apply.)	_eaves (B9)	except		
No inco	blogy d Indicators / Indicators (Minimus	um of one is		check all tha	ut apply.) Stained L	_eaves (B9) and 4B)	except	W	/ater Stained Leaves (B9) exce
No inco	dicators of hydricology Indicators (Minimum)	um of one is		check all that	it apply.)	and 4B)	except	W	/ater Stained Leaves (B9) exce ILRA 1,2,4A, and 4B)
Remark No inco Hydro Wetlan Primary	dicators of hydrical plogy Indicators (Minimum Minimum) Surface Water (A1) High Water Table (A)	um of one is		Check all tha Water: MLRA Salt Cr	st apply.) Stained L 1,2,4A, ust (B11)	and 4B)	·	W N Di	/ater Stained Leaves (B9) exce
Remark No inco Hydro Wetlan Primary	blogy Id Indicators Indicators (Minimus Surface Water (A1) High Water Table (A3)	um of one is		Check all tha Water: MLRA Salt Cr	stained L 1,2,4A, ust (B11)	and 4B)	·	W Di	/ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10)
Remark No inco Hydro Wetlan Primary	dicators of hydrical plogy d Indicators / Indicators (Minimus Surface Water (A1) High Water Table (A1) Saturation (A3) Water Marks (B1)	um of one is		Check all that Water MLRA Salt Cr Aquation	st apply.) Stained L 1,2,4A, ust (B11) C Inverted Jen Sulfic	and 4B) orates (B13)		W Di Di Si	/ater Stained Leaves (B9) exce ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2)
Hydro Wetlan Primary	blogy Id Indicators Indicators (Minimum Mater Table (A) Mater Marks (B1) Sediment Deposits	um of one is A2) (B2)		Check all that Water: MLRA Salt Cr Aquatic Hydrog Oxidize	stained L 1,2,4A, ust (B11) c Inverted gen Sulficed Rhizos	and 4B) orates (B13) de Odor (C1))	W Di Di Sa	Vater Stained Leaves (B9) exceptile (B9) exceptile (B9) exceptile (B9) exceptile (B9) exceptile (B10) ry-Season Water Table (C2) eaturation Visible on
Hydro Wetlan Primary	blogy d Indicators y Indicators (Minimus Surface Water (A1) High Water Table (A1) Water Marks (B1) Sediment Deposits Drift Deposits (B3)	um of one is A2) (B2)		Check all that Water: MLRA Salt Cr Aquatio Hydrog Oxidize	stained L 1,2,4A, ust (B11) c Inverted gen Sulficed Rhizos ace of Re	and 4B) orates (B13) de Odor (C1) spheres (C3))	W Di Di Si G	Vater Stained Leaves (B9) exception (B9) exception (B10) rainage Patterns (B10) ry-Season Water Table (C2) attraction Visible on the erial Imagery (C9)
Remark No inco Hydro Wetlan Primary	blogy d Indicators / Indicators (Minimum) Surface Water (A1) High Water Table (A) Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust (um of one is A2) (B2)		Check all that Water: MLRA Salt Cr Aquation Hydrog Oxidize Presen	stained L 1,2,4A, ust (B11) c Inverted gen Sulficed Rhizos ace of Re	and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in)	W Di Di Si G SI	Vater Stained Leaves (B9) exceptile ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on the leave (C9) eomorphic Position (D2)
Remark No inco Hydro Wetlan Primary	blogy Id Indicators Indicators (Minimum) Surface Water (A1) High Water Table (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust (Iron Deposits (B5)	um of one is A2) (B2) B4) s (B6)		Check all that Water: MLRA Salt Cr Aquation Hydrog Oxidize Present Recent	stained L 1,2,4A, ust (B11) c Inverted gen Sulfice ed Rhizos ace of Re t Iron Rec Soils (C6	and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in)	W Di Si Si Si	Vater Stained Leaves (B9) exceptilized 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3)
Remark No inco Hydro Wetlan Primary	blogy d Indicators y Indicators (Minimus Surface Water (A1) High Water Table (A1) High Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust (B1) Iron Deposits (B5) Surface Soil Cracks	um of one is A2) (B2) B4) s (B6)		Check all that Water : MLRA Salt Cr Aquatio Hydrog Oxidize Presen Recent Tilled : Stunter	stained L 1,2,4A, ust (B11) c Inverted gen Sulfice ed Rhizos ace of Re t Iron Rec Soils (C6	and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in)	W Di Si G SI F/	Vater Stained Leaves (B9) exception (B10) exception (B10) rainage Patterns (B10) ry-Season Water Table (C2) eaturation Visible on erial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5)
Remark No ince Hydro Wetlan Primary	Dlogy Id Indicators Indicators (Minimum Marks (Marks (Mark	um of one is A2) (B2) B4) s (B6) on Aerial		Check all that Water: MLRA Salt Cr Aquation Hydrog Oxidized Present Recent Tilled: Stunted (D1) (I	st apply.) Stained L 1,2,4A, ust (B11) c Inverted gen Sulfice ded Rhizos ace of Re t Iron Rec Soils (C6 d or Stres LRR A)	and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in)	W Di Si G SI F/	Vater Stained Leaves (B9) exception (B10) exception (B10) rainage Patterns (B10) ry-Season Water Table (C2) eaturation Visible on exerial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) eased Ant Mounds (D6) (LRR A)
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Remark No inco Hydro Wetlan Primary	blogy d Indicators y Indicators (Minimus Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust (B1) Surface Soil Cracks Inundation Visible of Imagery (B7) Sparsely Vegetated Surface (B8)	um of one is A2) (B2) B4) (B6) On Aerial I Concave	required.	Check all that Water: MLRA Salt Cr Aquation Hydrog Oxidized Present Recent Tilled: Stunted (D1) (I	stained L 1,2,4A, ust (B11) c Inverted gen Sulfice ed Rhizos ace of Re t Iron Rec Soils (C6 d or Stres LRR A) (Explain i	and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in) ssed Plants n Remarks)	C4)	W Di Si G SI F/	Vater Stained Leaves (B9) exceptilized Alamond
Remark No inco Hydro Wetlan Primary	dicators of hydrical blogy d Indicators / Indicators (Minimus) Surface Water (A1) High Water Table (A1) High Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust (A1) Iron Deposits (B5) Surface Soil Cracks Inundation Visible of Imagery (B7) Sparsely Vegetated Surface (B8) Observations Water Present? Y	um of one is A2) (B2) B4) S (B6) On Aerial I Concave es es	required.	Check all that Water: MLRA Salt Cr Aquatio Hydrog Oxidize Presen Recent Tilled: Stunted (D1) (I	st apply.) Stained L 1,2,4A, ust (B11) c Inverted pen Sulfice ed Rhizos ace of Re t Iron Rec Soils (C6 d or Stres _RR A) (Explain i	and 4B) prates (B13) de Odor (C1) spheres (C3) duced Iron (duction in) ssed Plants n Remarks)	C4)	W Di Si G SI Fr Fr	Vater Stained Leaves (B9) exceptilized Alamond



Walland Datamainstina Data Farms Wastern		alaa Mall		Na ant Danian	Data Poi	nt	32
Wetland Determination Data Form–Westerr	n Mount	ains, vaii	eys, & C	coast Region	Feature Ty	pe <u>Ripai</u>	rian Wetland
Project/Site: Fountain Wind		City/County	Shasta C	County		Date:	10/25/17
Applicant/Owner: Avangrid				State: <u>(</u>	California		_
Investigator(s): Gabe Youngblood			_ Section	, Township, Range _	Sec. 8, T34N	, R2E	
Landform (hillslope, terrace, etc.) Drainage Subregion (LRR): MLRA 22B Lat: 40		_ Local relie	ef (concave,	convex, none) Cor	ncave	Slope	%3
Subregion (LRR): MLRA 22B Lat: 40).820561°		Long:_	-121.778456°	Da	itum: NA	AD83
Soil Map Unit Name:Jacksback loam, 2 to 9 percent slo	pes		NV	VI Classification: R3	BUSC		
Are climatic/hydrologic conditions on the site typical for this tir	me of year?	√/ (If n	o, explain ii	n Remarks.)			
Are vegetation \(\sum \subseteq \si	ntly disturbe	ed? Are norr	nal circums	tances present? 🗸			
Are vegetation \(\scale \scal	-						
Summary of Findings (Attach site map showing sampli	-		-				
Hydrophytic vegetation? Hydric soil? W Wetland	• .				The water of	مال الماد	
				a a wellanu? V	_piner waters	: V /L	
Evaluation of features designated "Other Wate	rs of the	United St	ates"	. /		hlo	
Indicators: Defined bed and bank Scour Epature Designation: Perennial Intermittent Ep	▼ Ordin	ary High Wa Blue lin	ter Mark Ma	apped _ V Stream	n Width <u>Varia</u> trato Bolder, cobb	oel, gravel, an	d sand
Natural Drainage Artificial Drain	age	Navigable V	Vater	- Quau _• Subs	ale		····
Remarks _{DP} documents riparian wetlands along F	Hatchet C	reek.					
				1			
Vegetation (Use Scientific Names)	Absolute	Dominant Species 2		Dominance Test			
Tree Stratum (Plot Size: 30') 1 Pinus contorta	% Cover 10	Species? Y	FAC	Number of domination that are OBL, FAC		3	_ (A)
2				Total number of d		es o	
3				across all strata:	unt annosias the	3	_ (B)
4				Percent of domina are OBL, FACW,		100	_ (A/B)
50%= 5 20%= 2 Total Cover:	10						_ (' ' /
Sapling/Shrub Stratum (Plot Size: 15')	% Cover	Species?	Status	Prevalence Index Total % Cover of:		ly by	
1 Alnus incana	60	Y	FACW	OBL Species			
2. Abies concolor	10	N	UPL	FACW Species		_	
3. Spiraea douglasii	2	N	FACW			^	
Acer circinatum (2%)/Populus tremuloides (2%)	4	N	FAC/FACU	FAC Species	x 3		
50%= <u>38</u> 20%= <u>15.2</u> Total Cover:	76			FACU Species			
Herb Stratum (Plot Size: 5')	% Cover	Species?	Status	UPL Species	x 5		
1. Glyceria striata	10	Υ	OBL	Column Totals			(B)
2. Stachys ajugoides	2	N	OBL	Prevalence Index	= B/A =		
3. Heracleum maximum	_	N	FAC	Hydrophytic Veg	etation Indica	itors	
Galium aparine	2	N	FACU	Rapid Test	for Hydrophyt	ic Vegetati	on
5. Scirpus microcarpus	2	N	OBL	Dominance Prevalence	e Test is >50%	11	
6				Morpholog			e supporting
7				data in Rer	marks or on a s	separate s	
8.				Wetland No Problemati			ol (Evolain)
50%=9 20%=3.6 Total Cover:				¹ Indicators of hydi			
Woody/Vine Stratum (Plot Size:)		Species?	Status	be present.			03
1		•		Hydrophytic Veg	atation Drasa	nt2 🗸 🗸	1
2.				l iyaropiiyac veg	otation i 1030	∟ /∟	_
50%= Total Cover:							
% Bare Ground in Herb Stratum 82 % Cover of Bio		0					
Domarks				1			
Dominant hydrophytic vegetation is pres	sent.						

\sim		1
\sim	ш	C
JU.	ш	

r <mark>ofile D</mark> Depth	Matrix		Redo	x Features					
nches)	Color (moist)	%		or (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
-6	10YR 4/2	100						Sand	Silty
-12	10YR 4/2	60	7.5YR	4/6	40	<u>C</u>	PL	Sand	Silty
vpes:	C = Concentration D =	Depletion		duced Matrix		Location: P	L = Pore Lir	ing M = Ma	trix
<u> </u>	oil Indicators: (App								s for Problematic Hydric Soils
•	Histosol (A1)	illubic to t		✓ Sandy		•			cm Muck (A10)
	Histic Epipedon (A2)		_		ed Matrix	,			ed Parent Materials (TF21)
	Black Histic (A3)		_	- ''		Nineral (exc	ent		ery Shallow Dark Surface (TF12
	Hydrogen Sulfide (A4	1)	-		1 (F1)	inioral (one	op.		egetated Sand/Gravel Bars
	Depleted Below Dark	-	A11)			Matrix (F2)			ther (Explain in Remarks)
	Thick Dark Surface (•	_		ted Matrix				and (Enpreum mirrormanne)
	Sandy Mucky Minera	•	_			rface (F6)		³ Indicato	ors of hydrophytic vegetation and
	Sandy Gleyed Matrix		_			Surface (F7)		hydrology must be present.
	, ,	,	_	•	x Depress	•	,		, ,
 Restric	tive Layer (if present	t): Type:			Depth (Inches)	Hvd	ric Soil Pres	ent? /X
Soils ı	meet the requirer	nents for			•	<u></u>			
Soils i	meet the requirer	ments for			•	<u></u>			
Soils i	meet the requirer		indicato	or S5 Sand	ly Redox	Χ.			y Indicators (2 or more required
Soils in the second sec	meet the requirer		indicato	or S5 Sand	ly Redox	Χ.		Secondar	
Soils i Hydro Wetlan Primary	neet the requirer blogy d Indicators Indicators (Minimum	n of one is	indicato	check all th	ly Redox	x. Leaves (B9)		Secondar	y Indicators (2 or more required
Soils I	neet the requirer blogy d Indicators / Indicators (Minimur Surface Water (A1)	n of one is	indicato	Check all th	ly Redox	Leaves (B9)		Secondar W	y Indicators (2 or more required Vater Stained Leaves (B9) exce
Hydro Wetlan Primary	blogy d Indicators Indicators (Minimum Surface Water (A1) High Water Table (A)	n of one is	indicato	Check all th Water MLRA	at apply.) Stained I A 1,2,4A,	Leaves (B9)	except	Secondar W ✓_ D	y Indicators (2 or more required ater Stained Leaves (B9) excel ILRA 1,2,4A, and 4B)
Soils I	plogy Id Indicators Indicators (Minimur Surface Water (A1) High Water Table (A: Saturation (A3)	n of one is	indicato	Check all th Water MLRA Salt C	at apply.) Stained I A 1,2,4A, crust (B11)	_eaves (B9) and 4B)	except	Secondar W D D	y Indicators (2 or more required later Stained Leaves (B9) excelulater 1,2,4A, and 4B) rainage Patterns (B10)
Hydro Wetlan Primary	blogy d Indicators Indicators (Minimum Surface Water (A1) High Water Table (A: Saturation (A3) Water Marks (B1)	n of one is	indicato	Check all the Water MLRA Salt C Aquat	ly Redox nat apply.) Stained I A 1,2,4A, crust (B11) ic Invertel	Leaves (B9) and 4B) brates (B13	except	Secondar W D D D	y Indicators (2 or more required /ater Stained Leaves (B9) excep /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2)
Soils I	meet the requirer plogy Id Indicators Indicators (Minimum Surface Water (A1) High Water Table (A: Saturation (A3) Water Marks (B1) Sediment Deposits (I	n of one is 2) B2)	indicato	Check all the Water MLRA Salt C Aquat Hydro	at apply.) Stained I A 1,2,4A, Crust (B11) ic Invertel agen Sulfic	Leaves (B9) and 4B)) brates (B13 de Odor (C1	except	Secondar W D D Si A	y Indicators (2 or more required /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on
Hydro Wetlan Primary	blogy Id Indicators Indicators (Minimur Surface Water (A1) High Water Table (A: Saturation (A3) Water Marks (B1) Sediment Deposits (B3)	n of one is 2) B2)	indicato	Check all th Water MLR Salt C Aquat Hydro ✓ Oxidiz Prese	at apply.) Stained I A 1,2,4A, Crust (B11) ic Invertel agen Sulfic	Leaves (B9) and 4B) brates (B13 de Odor (C1 spheres (C3 duced Iron	except	Secondar W D D D S A G	y Indicators (2 or more required later Stained Leaves (B9) excelulater Stained Leaves (B9) excelulater (B10) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Lerial Imagery (C9)
Hydrouse Hydrouse Wetlan Primary	meet the requirer plogy Id Indicators / Indicators (Minimum Surface Water (A1) High Water Table (A: Saturation (A3) Water Marks (B1) Sediment Deposits (ID) Drift Deposits (B3) Algal Mat or Crust (B	n of one is 2) B2)	indicato	Check all the Water MLRA Salt C Aquat Hydro V Oxidiz Prese Recer	at apply.) Stained I A 1,2,4A, Frust (B11) ic Invertel igen Sulfic zed Rhizos nce of Re	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3 duced Iron duction in	except	Secondar W M D D Si A ✓ G Si	y Indicators (2 or more required /ater Stained Leaves (B9) excell /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on serial Imagery (C9) eomorphic Position (D2)
Soils I	meet the requirer plogy Id Indicators Indicators (Minimum Surface Water (A1) High Water Table (A: Saturation (A3) Water Marks (B1) Sediment Deposits (B) Drift Deposits (B3) Algal Mat or Crust (B	n of one is 2) B2) 4) (B6)	indicato	Check all the Water MLRA Salt C Aquat Hydro V Oxidiz Prese Recer	at apply.) Stained I A 1,2,4A, crust (B11) ic Invertel igen Sulfic zed Rhizo nce of Re nt Iron Rei Soils (C6	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3 duced Iron duction in	except))) (C4)	Secondar — W M — D — Si — G — Si — F	y Indicators (2 or more required fater Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on the serial Imagery (C9) eomorphic Position (D2) thallow Aquitard (D3) AC-Neutral Test (D5)
Soils I	meet the requirer plogy Id Indicators Indicators (Minimur Surface Water (A1) High Water Table (A: Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Imagery (B7)	n of one is 2) B2) 4) (B6) Aerial	indicato	Check all the Water MLRA Salt C Aquat Hydro V Oxidiz Prese Recer Tilled Stunte	at apply.) Stained I A 1,2,4A, crust (B11) ic Invertel igen Sulfic zed Rhizo nce of Re nt Iron Rei Soils (C6	Leaves (B9) and 4B) brates (B13 de Odor (C1 spheres (C3 duced Iron duction in	except))) (C4)	Secondar — W M — D — D — Si — A — G — Fi — R	y Indicators (2 or more required /ater Stained Leaves (B9) excepted /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on perial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5)
Soils I	meet the requirer plogy Id Indicators Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (I	n of one is 2) B2) 4) (B6) Aerial	indicato	Check all the Water MLRA Salt C Aquat Hydro V Oxidiz Prese Recer Tilled Stunte	at apply.) Stained I A 1,2,4A, Crust (B11) ic Invertel gen Sulfice zed Rhizon nce of Re nt Iron Rec Soils (C6 ed or Stree (LRR A)	Leaves (B9) and 4B) brates (B13 de Odor (C1 spheres (C3 duced Iron duction in	except))) (C4)	Secondar — W M — D — D — Si — A — G — Fi — R	y Indicators (2 or more required dater Stained Leaves (B9) excelulater Atlanta 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on the derial Imagery (C9) eomorphic Position (D2) shallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A)
Soils I	meet the requirer plogy Id Indicators Indicators (Minimur Surface Water (A1) High Water Table (A: Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Imagery (B7) Sparsely Vegetated (Surface (B8) Observations	n of one is 2) B2) (B6) Aerial Concave	required.	Check all the Water MLRA Salt C Aquat Hydro ✓ Oxidiz Prese Recer Tilled Stunte (D1) Other	at apply.) Stained I A 1,2,4A, Frust (B11) ic Invertel igen Sulfice zed Rhizon nce of Re nt Iron Rei I Soils (C6 ed or Stree (LRR A) (Explain i	Leaves (B9) and 4B) brates (B13 de Odor (C1 spheres (C3 duced Iron duction in b) ssed Plants in Remarks)	except)) (C4)	Secondar — W M — D — So — A — G — SI — Fi	y Indicators (2 or more required /ater Stained Leaves (B9) except / (ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on the rial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
Hydro Wetlan Primary	meet the requirer plogy Id Indicators Indicators (Minimum Surface Water (A1) High Water Table (A: Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Imagery (B7) Sparsely Vegetated (B8) Disservations Water Present? Yes	n of one is 2) B2) (B6) Aerial Concave	required.	Check all the Water MLR Salt C Aquat Hydro ✓ Oxidiz Prese Recer Tilled Stunte (D1) Other	at apply.) Stained I A 1,2,4A, Frust (B11) ic Invertel agen Sulfice and Rei ron Rei Soils (C6 ed or Stree (LRR A) (Explain i	Leaves (B9) and 4B) brates (B13 de Odor (C1 spheres (C3 duced Iron duction in b) ssed Plants in Remarks	except)) (C4)	Secondar — W M — D — D — Si — A — G — Fi — R	y Indicators (2 or more required atter Stained Leaves (B9) except atter 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
Hydro Wetlan Primary Field O Surface Water T	meet the requirer plogy Id Indicators Indicators (Minimum Surface Water (A1) High Water Table (A: Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Imagery (B7) Sparsely Vegetated (B8) Disservations Water Present? Yes	n of one is 2) B2) (B6) Aerial Concave	required.	Check all the Water MLRA Salt C Aquat Hydro ✓ Oxidiz Prese Recer Tilled Stunte (D1) Other	at apply.) Stained I A 1,2,4A, Crust (B11) ic Invertel agen Sulfice ance of Re int Iron Rea I Soils (C6 and or Street (LRR A) (Explain i	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3 duced Iron duction in b) ssed Plants in Remarks)	except))) (C4)	Secondar W M ✓ D D Si A ✓ G Si ✓ Fi Fi Hydrology?	y Indicators (2 or more required atter Stained Leaves (B9) except atter 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)

Drift deposits indicate frequent flooding. Oxidized rhizospheres indicates long duration saturation.



					Data Point		33
Wetland Determination Data Form-Westerr	n Mounta	ains, Vall	eys, & C	oast Region	Feature Type	Uplan	nd
Project/Site: Fountain Wind		Citv/County	Shasta C	ounty		Date:	10/25/17
Applicant/Owner: Avangrid				State: C	alifornia		
			_ Section,	Township, Range S	ec. 8, T34N, R2	2E	
Landform (hillslope, terrace, etc.) Shallow Depression		_ Local relie	f (concave,	convex, none) Con-	cave	Slope 9	
Subregion (LRR): MLRA 22B Lat: 40	.820556°		Long:	-121.778522°	Datum	ı: NA	D83
Soil Map Unit Name: _Jacksback loam, 2 to 9 percent slo	pes						
Are climatic/hydrologic conditions on the site typical for this tir	ne of year?	√ / (If n	o, explain in	Remarks.)			
Are vegetation \(\subseteq \subseteq soil \subseteq \subseteq or hydrology \subseteq \subseteq significant	itly disturbe	d? Are norn	nal circumst	ances present? ✓/]		
Are vegetation \(\sum{\subseteq} \subseteq \subseteq \subseteq \subseteq \lambda \text{haturally} \)	-						
Summary of Findings (Attach site map showing sampli	na noint loc	ations trans	acts imnort	ant features etc.)			
Hydrophytic vegetation?					hther waters?	V	
					puici waters:	اكا	
Evaluation of features designated "Other Water				unnad Ctraam	\\/idth		
Indicators: Defined bed and bank Scour_Feature Designation: Perennial Intermittent Ep	Ordina hemeral	ary riigii wa Blue-line	e on USGS	Quad Substr	ate		
Natural Drainage Artificial Drain							
Remarks Upland pair to DP32 riparian wetland.							
Opianu pan to DF32 fipanan wetianu.							
Vegetation (Use Scientific Names)	Absolute	Dominant	Indicator	Dominanas Toot V	Norkoboot		
Tree Stratum (Plot Size: 30')	% Cover	Species?		Dominance Test \ Number of domina			
1. Populus tremuloides	30	Υ	FACU	that are OBL, FAC	W, or FAC:	0	(A)
2. Abies concolor	20	Υ	UPL	Total number of do across all strata:	minant species	5	(B)
3. Pseudotsuga menziesii	20	Y	FACU	Percent of dominar	nt species that		. (D)
4				are OBL, FACW, o		0	(A/B)
50%= <u>35</u> 20%= <u>14</u> Total Cover:	70			Prevalence Index	Worksheet		
Sapling/Shrub Stratum (Plot Size:15')	% Cover	Species?	Status	Total % Cover of:	Multiply b	У	
1. Abies concolor	15	Y	UPL_	OBL Species	x 1 =	0	
2. Alnus incana	3	N	FACW	FACW Species	x 2 =	0	
3. Acer circinatum	2	N	FACU	FAC Species	x 3 =	0	_
4				FACU Species	x 4 =	0	
50%= 10 20%= 4 Total Cover:					x 5 =		
Herb Stratum (Plot Size: 5'		Species?		Column Totals			(B)
1. Elymus glaucus		Y	FACU	Prevalence Index =			、 /
2							
3				Hydrophytic Vege			on
4				Rapid Test t		eyelalli	UII
5				Prevalence	Index is $\leq 3.0^1$		
6				Morphologic	cal Adaptations! (narks or on a sepa		
7				Wetland No			iccij
8				Problematic	Hydrophytic Veg	jetation	
50%=5 20%=2 Total Cover:		0	Ct-t	¹ Indicators of hydri be present.	ı sun and wenan	и пуаго	iugy must
Woody/Vine Stratum (Plot Size:)				,			7
1				Hydrophytic Vege	etation Present?		J
2							
50%= 20%= Total Cover: % Bare Ground in Herb Stratum 99 % Cover of Bio							
// Date Ground in Herb Stratum % Cover of Bio	uc crust _						

\sim	• 1	
\setminus \cap	ш	C

Depth	escription: (Des Matrix			Redox Features					
<u>inches</u>))-12	Color (moi 7.5YR 2.5/3	st) <u>%</u> 100		Color (moist)	<u>%</u>	<u>Type¹</u>	<u>Loc²</u>	Texture Loam	Remarks Sandy
Types:	C = Concentration	D = Depleti	ion RM :	= Reduced Matrix	2	2Location: PL	= Pore Lin	ing M = Ma	trix
ydric S	oil Indicators: (A	Applicable	to all LRF	Rs, unless otherw	ise noted	i)		Indicator	s for Problematic Hydric Soi
	Histosol (A1)			Sandy	Redox (S	S5)		2	cm Muck (A10)
	Histic Epipedon (A	A 2)		Strippe	ed Matrix	(S6)		R	ed Parent Materials (TF21)
	Black Histic (A3)			Loamy	Mucky N	Aineral (exc e	ept	Ve	ery Shallow Dark Surface (TF1
	Hydrogen Sulfide	(A4)		MLRA	1) (F1)			Ve	egetated Sand/Gravel Bars
	Depleted Below D	ark Surfac	ce (A11)	Loamy	Gleyed I	Matrix (F2)		0	ther (Explain in Remarks)
	Thick Dark Surfac	e (A12)		Deplet	ed Matrix	(F3)			
:	Sandy Mucky Mir	eral (S1)		Redox	Dark Su	rface (F6)		³ Indicato	rs of hydrophytic vegetation ar
	Sandy Gleyed Ma	ıtrix (S4)		Deplet	ed Dark S	Surface (F7)		wetland I	hydrology must be present.
				Redox	Depress	ions (F8)			
Restric	tive Layer (if pres	sent): Type	e:		Depth (I	Inches)	Hydr	ic Soil Pres	ent? /X
	3 1	, ,,				· · · · · · · · · · · · · · · · · · ·			
No inc	dicators of hyd	ric soils v	were ob	served.					
No inc	dicators of hyd				at apply.)			Secondar	v Indicators (2 or more require
No incomplete Hydro Wetlan Primary	dicators of hyd blogy d Indicators y Indicators (Minir	num of one		ed. Check all tha		_eaves (B9)	except		y Indicators (2 or more require
Hydro Wetlan Primary	blogy d Indicators / Indicators (Minir	num of one		ed. Check all tha	Stained L	_eaves (B9)	except	W	/ater Stained Leaves (B9) exce
Hydro Wetlan Primary	blogy d Indicators / Indicators (Minir Surface Water (A	num of one		red. Check all that Water MLRA	Stained L	and 4B)	except	W	/ater Stained Leaves (B9) exce ILRA 1,2,4A, and 4B)
Hydro Wetlan Primary	blogy d Indicators / Indicators (Minir	num of one 1) (A2)		red. Check all that Water MLRA Salt Cr	Stained L A 1,2,4A, rust (B11)	and 4B)	except	W Di	/ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10)
No inc	blogy d Indicators / Indicators (Minir Surface Water (A High Water Table Saturation (A3)	num of one 1) (A2)		ed. Check all that Water MLRA Salt Cr Aquati	Stained L 1,2,4A, rust (B11) c Inverteb	and 4B)	·	W N Di	/ater Stained Leaves (B9) exce ILRA 1,2,4A, and 4B)
No incomplete Wetlan Primary	blogy d Indicators / Indicators (Minir Surface Water (A High Water Table Saturation (A3) Water Marks (B1)	num of one 1) (A2) ss (B2)		ed. Check all that Water MLRA Salt Cr Aquati	Stained L 1,2,4A, rust (B11) c Invertel gen Sulfic	and 4B)) brates (B13)	·	W Di Di	/ater Stained Leaves (B9) exce ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2)
No inc	blogy Id Indicators Indicators (Minir Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposi	num of one 1) (A2) s (B2)		ed. Check all that Water MLRA Salt Cr Aquati Hydroq Oxidize	Stained L A 1,2,4A, rust (B11) c Invertel gen Sulficed Rhizos	and 4B)) brates (B13) de Odor (C1)		W Di Di Di	Vater Stained Leaves (B9) exce VILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on
Hydro Wetlan Primary	blogy d Indicators y Indicators (Minir Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit	num of one 1) (A2) s (B2)) t (B4)		ed. Check all that Water MLRA Salt Cr Aquati Hydrog Oxidize	Stained L A 1,2,4A, rust (B11) c Invertel gen Sulficed Rhizos nce of Re	and 4B) brates (B13) de Odor (C1) spheres (C3)		W Di Di Sa G	Vater Stained Leaves (B9) exce Valent 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9)
No inco	blogy d Indicators / Indicators (Minir Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift Deposits (B3 Algal Mat or Crus	num of one 1) (A2) ss (B2)) t (B4)		red. Check all that Water MLRA Salt Cr Aquatir Hydrog Oxidize Preser Recen	Stained L A 1,2,4A, rust (B11) c Invertel gen Sulficed Rhizos nce of Re	and 4B)) brates (B13) de Odor (C1) spheres (C3) duced Iron (duction in		W Di Di Si G	Vater Stained Leaves (B9) exce Value 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2)
No inc	blogy d Indicators / Indicators (Minir Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5	num of one 1) (A2) s (B2)) t (B4)) ks (B6)		ed. Check all that water MLRA Salt Cr Aquati Hydrog Oxidize Preser Recen Tilled	Stained L 1,2,4A, rust (B11) c Invertel gen Sulfice ed Rhizos nce of Re t Iron Rec Soils (C6	and 4B)) brates (B13) de Odor (C1) spheres (C3) duced Iron (duction in		W Di Si Si Si	Vater Stained Leaves (B9) exce Value 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3)
No incomplete Mydro	blogy d Indicators y Indicators (Minir Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Surface Soil Crac	num of one 1) (A2) s (B2)) t (B4)) ks (B6)		ed. Check all that Water MLRA Salt Cr Aquati Hydroo Oxidize Preser Recen Tilled Stunte	Stained L 1,2,4A, rust (B11) c Invertel gen Sulfice ed Rhizos nce of Re t Iron Rec Soils (C6	and 4B) brates (B13) de Odor (C1) spheres (C3) duced Iron (duction in		W Di Si G SI F/	Vater Stained Leaves (B9) exceptions (B10) exceptions (B10) exceptions (B10) exceptions (B10) exceptions (B10) exceptions (B10) exp-Season Water Table (C2) extraction Visible on the erial Imagery (C9) ecomorphic Position (D2) expections (D3) expections (D3) expections (D5)
No incomplete Wetlan	blogy Id Indicators Indicators (Minir Minitators (Minir Minitators (Minir Minitators (Minir Minitators (Minir Minitators (Minir Minitators (Minir Minitator (A3) Water Marks (B1) Water Marks (B1) Water Marks (B1) Sediment Deposit Drift Deposits (B3 Minitator Crus Iron Deposits (B5 Surface Soil Crac Inundation Visible	num of one 1) (A2) s (B2) t (B4) ks (B6) on Aerial	e is requir	red. Check all that Water MLRA Salt Cr Aquatir Hydrog Oxidize Preser Recen Tilled Stunte (D1) (Stained L A 1,2,4A, rust (B11) c Inverted gen Sulfice ed Rhizos nce of Re t Iron Rec Soils (C6 d or Stres LRR A)	and 4B) brates (B13) de Odor (C1) spheres (C3) duced Iron (duction in		W Di Si G SI F/	Vater Stained Leaves (B9) exce Value Stained Leaves (B9) exce Value Stained Leaves (B9) exce Value Stained Leaves (B10) Acron Water Table (C2) Value Stained (C2)
No inco	blogy d Indicators y Indicators (Minir Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Surface Soil Crac Inundation Visible Imagery (B7)	num of one 1) (A2) s (B2) t (B4) ks (B6) on Aerial	e is requir	red. Check all that Water MLRA Salt Cr Aquatir Hydrog Oxidize Preser Recen Tilled Stunte (D1) (Stained L A 1,2,4A, rust (B11) c Inverted gen Sulfice ed Rhizos nce of Re t Iron Rec Soils (C6 d or Stres LRR A)	and 4B) brates (B13) de Odor (C1) spheres (C3) duced Iron (duction in b) ssed Plants		W Di Si G SI F/	Vater Stained Leaves (B9) exce Value Stained Leaves (B9) exce Value Stained Leaves (B9) exce Value Stained Leaves (B10) Acron Water Table (C2) Value Stained (C2)
No inco	blogy d Indicators y Indicators (Minir Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Surface Soil Crac Inundation Visible Imagery (B7) Sparsely Vegetate Surface (B8)	num of one 1) (A2) s (B2) t (B4) ks (B6) on Aerial	e is requir	ed. Check all that Water MLRA Salt Cr Aquati Hydrog Preser Recen Tilled Stunte (D1) (f	Stained L A 1,2,4A, rust (B11) c Invertel gen Sulfic ed Rhizos nce of Re t Iron Rec Soils (C6 d or Stres LRR A) (Explain i	and 4B) brates (B13) de Odor (C1) spheres (C3) duced Iron (duction in b) ssed Plants in Remarks)	C4)	W Di Si G SI Fr Fr	Vater Stained Leaves (B9) exceptions (B10) exceptions (B10) exceptions (B10) exceptions (B10) exceptions (B10) expressed (C2) external Imagery (C9) ecomorphic Position (D2) ecomorphic Position (D3) expected (D3) expected (D5) expected (D7)
No inco Hydro Wetlan Primary Field Co Surface	dicators of hydology d Indicators y Indicators (Minir Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Surface Soil Crac Inundation Visible Imagery (B7) Sparsely Vegetate Surface (B8) Deservations Water Present?	num of one 1) (A2) s (B2)) t (B4)) ks (B6) on Aerial ed Concav	e is requir	water Water MLRA Salt Cr Aquati Hydrog Oxidize Preser Recen Tilled Stunte (D1) (i	Stained I A 1,2,4A, rust (B11) c Inverted gen Sulfice ed Rhizos nce of Re t Iron Rec Soils (C6 d or Stres LRR A) (Explain i	and 4B) brates (B13) de Odor (C1) spheres (C3) duced Iron (duction in b) ssed Plants in Remarks)	C4)	W Di Si G SI F/	Vater Stained Leaves (B9) exceptions (B10) exceptions (B10) exceptions (B10) exceptions (B10) exceptions (B10) expressed (C2) external Imagery (C9) ecomorphic Position (D2) ecomorphic Position (D3) expected (D3) expected (D5) expected (D7)
Hydro Wetlan Primary Field C Surface Water T	blogy d Indicators y Indicators (Minir Surface Water (A High Water Table Saturation (A3) Water Marks (B1) Sediment Deposit Drift Deposits (B3 Algal Mat or Crus Iron Deposits (B5 Surface Soil Crac Inundation Visible Imagery (B7) Sparsely Vegetate Surface (B8)	num of one 1) (A2) ss (B2)) t (B4)) ks (B6) e on Aerial ed Concav	e is requir	ed. Check all that Water MLRA Salt Cr Aquati Hydrog Preser Recen Tilled Stunte (D1) (f	Stained L A 1,2,4A, rust (B11) c Invertel gen Sulfice ed Rhizos nce of Re t Iron Rec Soils (C6 d or Stres LRR A) (Explain i	and 4B) brates (B13) de Odor (C1) spheres (C3) duced Iron (duction in b) ssed Plants in Remarks)	C4)	W Di Si G SI Fr Fr	Vater Stained Leaves (B9) exceptions (B10) exceptions (B10) exceptions (B10) exceptions (B10) exceptions (B10) expressed (C2) external Imagery (C9) ecomorphic Position (D2) ecomorphic Position (D3) expected (D3) expected (D5) expected (D7)



Wetland Determination Data Form-Wester	n Mounta	ains, Val	leys, & C	Coast Region	Feature Type		onal wetlan
Project/Site: Fountain Wind		City/County	Shasta (County		Date:	10/25/17
Applicant/Owner: Avangrid					California	Bato.	
Investigator(s): John Holson						R1E	-
Landform (hillslope, terrace, etc.) Depresion		Local relie	ef (concave	, convex, none) Con	cave	Slope '	_% 0
Landform (hillslope, terrace, etc.) Depresion Subregion (LRR): MLRA 22B Lat: 4	0.815248°		Lona:	-121.804622°	Datun	n: NA	AD83
Soil Map Unit Name: Windy and McCarthy stony sandy							
Are climatic/hydrologic conditions on the site typical for this t							
Are vegetation \(\subseteq \subseteq solid \subseteq \subseteq solid \subseteq \subseteq solid \subseteq soli					7		
Are vegetation \(\setminus \) \(\setminus \) or hydrology \(\setminus \) haturally					_		
	•	-	•				
Summary of Findings (Attach site map showing samp					, –	157	
Hydrophytic vegetation? 🗹 🗌 Hydric soil? 🗹 🦳 Wetland	d hydrology?	∐ Is s	sampled are	ea a wetland? \✓\	Other waters?		
Evaluation of features designated "Other Water	ers of the	United St	tates"				
Indicators: Defined bed and bank Scour _	Ordin	ary High Wa	ater Mark Ma				
Feature Designation: Perennial Intermittent E	phemeral	Blue-lin	e on USGS	Quad Substi	rate		
Natural Drainage Artificial Drain	lage	Navigable v	water	_			
Remarks _{DP} documents an area in a wet meado	w that app	ears to po	nd seaso	nally.			
Vegetation (Use Scientific Names)	Absolute	Dominant	Indicator	Dominance Test	Norksheet		
Tree Stratum (Plot Size:)	% Cover	Species?	Status	Number of domina		0	
1				that are OBL, FAC		2	_ (A)
2				Total number of do across all strata:	iminant species	2	(B)
3				Percent of domina	nt species that		_ (D)
4				are OBL, FACW, o	r FAC:	100	_ (A/B)
50%= Total Cover	0			Prevalence Index	Workshoot		
Sapling/Shrub Stratum (Plot Size:)		Species?	Status	Total % Cover of:		ΟV	
1				OBL Species		-	
2				FACW Species			
3.					x 3 =	_	
4.				· ·			
50%= Total Cover	0			FACU Species			
Herb Stratum (Plot Size: _5')	% Cover	Species?	Status		x 5 =		_
1 Eleocharis bella	40	Y	FACW	Column Totals	(A)		(B)
2. Eleocharis acicularis	35	Y	OBL	Prevalence Index :	= B/A =		
3 Carex utriculata	2	N	OBL	Hydrophytic Vege	etation Indicator	rs	
4. Ranunculus flammula	2		FACW	Rapid Test	for Hydrophytic \	ა /egetati	on
- Pumov crienus	1		FAC	Dominance	Test is >50%		
. Uknown gross on	4		?	Prevalence		(provide	supporting
					narks or on a sep		
7				Wetland No	n-Vascular Plant	ts ¹	
8 50%=_40.5	. 81			Problemation 1 Indicators of hydro			
			C1 1	be present.	ic suii and wellan	u nyuro	ilogy must
Woody/Vine Stratum (Plot Size:)		Species?					,
1				Hydrophytic Vege	etation Present?	, 	J
2							
50%= Total Cover		_					
% Bare Ground in Herb Stratum <u>19</u> % Cover of Bi	otic Crust	U					

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rofile D Depth	e scription : (Describ Matrix	oe to the de	epth needed to docu Redox Feature		dicator or co		absence of i	ndicators.
(<u>inches</u>)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	<u>Remarks</u>
0-6	5YR 2/1	100	7.5\/D.4/0				Loam	Clay
6-16	10YR 4/2	60	7.5YR4/6	40	<u> </u>	PL	Clay	
				_				
Types:	C = Concentration D =	- Depletion	RM = Reduced Matr	χ :	² Location: P	L = Pore Lir	ning M = Ma	ıtrix
lydric S	oil Indicators: (App	licable to a	ıll LRRs, unless othe	rwise noted	d)		Indicator	s for Problematic Hydric Soils ³
	Histosol (A1)		San	dy Redox (S5)		2	cm Muck (A10)
	Histic Epipedon (A2)		Strip	ped Matrix	(S6)		R	ed Parent Materials (TF21)
	Black Histic (A3)		Loa	ny Mucky N	Mineral (exc	ept	V	ery Shallow Dark Surface (TF12)
	Hydrogen Sulfide (A4	1)	MLF	RA 1) (F1)			V	egetated Sand/Gravel Bars
	Depleted Below Dark	Surface (A	A11) Loa	ny Gleyed	Matrix (F2)			ther (Explain in Remarks)
	Thick Dark Surface (-		leted Matrix				,
	Sandy Mucky Minera	•		ox Dark Su	. ,		³ Indicato	ors of hydrophytic vegetation and
	Sandy Gleyed Matrix				Surface (F7)		hydrology must be present.
		(- ')		ox Depress	-	,		y
				•				
Restric	tive Layer (if present	t): Type: _		_ Depth (Inches)	Hyd	ric Soil Pres	ent? ✓
Remar	ks meet the requirer	nents for	indicator F3 Dep	leted Ma	trix.			
Remar Soils Hydro	meet the requirer blogy Indicators						Cocondor	nu Indiantora (2 or mara raquirad)
Remar Soils Hydro Wetlar Primar	meet the requirer plogy Id Indicators y Indicators (Minimun		required. Check all	that apply.)				y Indicators (2 or more required)
Remar Soils Hydro Wetlar Primar	Dlogy Id Indicators Indicators (Minimum	n of one is	required. Check all	that apply.)	Leaves (B9)) except	W	/ater Stained Leaves (B9) except
Remar Soils Hydro Wetlar Primar	plogy Indicators Y Indicators (Minimum Surface Water (A1) High Water Table (A)	n of one is	required. Check all Wat ML	that apply.) er Stained RA 1,2,4A,	Leaves (B9) and 4B)) except	W	/ater Stained Leaves (B9) except ILRA 1,2,4A, and 4B)
Remar Soils Hydro Wetlar Primar	Dlogy Id Indicators Indicators (Minimur Surface Water (A1) High Water Table (A: Saturation (A3)	n of one is	required. Check all Wat ML Salt	that apply.) er Stained RA 1,2,4A, Crust (B11	Leaves (B9) and 4B)		W 	/ater Stained Leaves (B9) except /ILRA 1,2,4A, and 4B) rainage Patterns (B10)
Remar Soils Hydro Wetlar Primar	plogy Id Indicators Indicators (Minimum Surface Water (A1) High Water Table (A: Saturation (A3) Water Marks (B1)	n of one is	required. Check all —— Wat ML —— Salt —— Aqu	that apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte	Leaves (B9) and 4B)) brates (B13)	W D D	/ater Stained Leaves (B9) except /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2)
Remar Soils Hydro Wetlar Primar	meet the requirer plogy Id Indicators Indicators (Minimum Surface Water (A1) High Water Table (A: Saturation (A3) Water Marks (B1) Sediment Deposits (I	n of one is	required. Check all —— Wat ML —— Salt —— Aqu —— Hyd	that apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte	Leaves (B9) and 4B)) brates (B13 de Odor (C1))	W _✓_D D S	/ater Stained Leaves (B9) except /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on
Remar Soils Hydro Wetlar Primar	meet the requirer blogy Id Indicators y Indicators (Minimur Surface Water (A1) High Water Table (A: Saturation (A3) Water Marks (B1) Sediment Deposits (B3)	n of one is 2) 32)	required. Check all Wat ML Salt —— Aqu —— Hyd	that apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte rogen Sulfic	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3))) 3)	W 	/ater Stained Leaves (B9) except /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9)
Remar Soils Hydro Wetlar Primar	meet the requirer plogy Ind Indicators Indicators (Minimum Surface Water (A1) High Water Table (A: Saturation (A3) Water Marks (B1) Sediment Deposits (I Drift Deposits (B3) Algal Mat or Crust (B	n of one is 2) 32)	required. Check all —— Wat ML —— Salt —— Aqu —— Hyd —— Oxid	that apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte rogen Sulfic lized Rhizo sence of Re	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3))) 3)	W 	Vater Stained Leaves (B9) except Value 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2)
Remar Soils Hydro Wetlar Primar	meet the requirer plogy ad Indicators y Indicators (Minimur Surface Water (A1) High Water Table (A: Saturation (A3) Water Marks (B1) Sediment Deposits (I Drift Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5)	n of one is 2) 32) 4)	required. Check all —— Wat ML —— Salt —— Aqu —— Hyd —— Oxid —— Pres	that apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte rogen Sulfic lized Rhizo sence of Re	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3 educed Iron duction in))) 3)	W 	Vater Stained Leaves (B9) except VILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3)
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Remar Soils Hydro Wetlar Primar	meet the requirer plogy Id Indicators Indicators (Minimum Surface Water (A1) High Water Table (A: Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Imagery (B7) Sparsely Vegetated (Surface (B8) Observations	n of one is 2) 32) 4) (B6) Aerial Concave	required. Check all Wat ML Salt Aqu Hyd Voxic Pres Rec Tille Stur (D1	that apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte rogen Sulfid lized Rhizo sence of Re ent Iron Re ed Soils (Co sted or Stre) (LRR A)	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3 educed Iron duction in b) ssed Plants in Remarks))) 33) (C4)	W 	Vater Stained Leaves (B9) except Valer Stained Leaves (B9) except Valer Table (B10) Active Table (C2) Valer Table (C3) Valer
Remar Soils Hydro Wetlar Primar	meet the requirer plogy Id Indicators Indicators (Minimum Surface Water (A1) High Water Table (A: Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Imagery (B7) Sparsely Vegetated (Inundation Visible on Surface (B8) Observations Water Present? Yes	n of one is 2) 32) 4) (B6) Aerial Concave	required. Check all Wat ML Salt Aqu Hyd Oxio Pres Rec Tille Stur (D1 Othe	er Stained RA 1,2,4A, Crust (B11 atic Inverte rogen Sulfid lized Rhizo sence of Re ent Iron Re ed Soils (Co sted or Stre) (LRR A) er (Explain	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3 educed Iron duction in b) ssed Plants in Remarks))) 33) (C4)	W	Vater Stained Leaves (B9) except Valer Stained Leaves (B9) except Valer Table (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)

Drift deposits indicate frequent flooding. Oxidized rhizospheres indicates long duration saturation.



					Data Point		35
Wetland Determination Data Form-Westerr	n Mounta	ains, Vall	leys, & (Coast Region	Feature Type	Wetla	and Meadov
Project/Site: Fountain Wind		City/County	Shasta (County		Date:	8/29/18
Applicant/Owner: Avangrid				State: C	Α		_
nvestigator(s): Gabe Youngblood, Alison Loveless			_ Section	, Township, Range Se	ec. 12, T34N, F	R1E	
_andform (hillslope, terrace, etc.) Valley Subregion (LRR): MLRA 22B Lat: 40.		_ Local relie	ef (concave	, convex, none) None	;	Slope	%0
Subregion (LRR): MLRA 22B Lat: 40.	.815335°		Long:_	-121.804718°	Datum	n: <u>N</u> /	ND 83
Soil Map Unit Name: Windy and McCarthy stony sandy lo	oams, 0 to	30 percent	slopes N	NI Classification: N/A			
Are climatic/hydrologic conditions on the site typical for this tir	me of year?	✓/ (If n	o, explain ii	n Remarks.)			
Are vegetation□/⊠soil□/⊠or hydrology□/⊠significar	ntly disturbe	d? Are norr	mal circums	tances present?			
Are vegetation \(\script \overline{\script \overline{\sin\eta}}} \overline{\sin\overline{\sin\eta}} \sin\overline{\	problemation	c? (If neede	ed, explain	in Remarks.)			
Summary of Findings (Attach site map showing sampli	na point loc	ations, trans	sects, impor	tant features, etc.)			
Hydrophytic vegetation?	• .				Other waters?	/ X 	
				ou a wouldness.	outor waters:	نت ا	
Evaluation of features designated "Other Wate Indicators: Defined bed and bank Scour _				annod Stroam V	Midth		
Feature Designation: Perennial Intermittent Ep	hemeral	Blue-lin	e on USGS	Quad Substra	ate		
Natural Drainage Artificial Drain	age	Navigable V	Vater	_			
Remarks _{DP} documents large wetland meadow a	t the head	dwaters of	a tributar	v to the North Fork	of Montgome	erv Cr	eek.
2. decament large negative medacina				, 10 110 1101111 1 0111	· oogo	., . .	
Vegetation (Use Scientific Names)	Absolute	Dominant	Indicator	Dominance Test V	/orkshoot		
Tree Stratum (Plot Size:)	% Cover	Species?		Number of dominar			
1				that are OBL, FACV	V, or FAC:	4	_ (A)
2.				Total number of dor across all strata:	minant species	5	_ (B)
3				Percent of dominan	t species that		
4				are OBL, FACW, or	FAC:	80	_ (A/B)
50%= Total Cover:	0			Prevalence Index	Worksheet		
Sapling/Shrub Stratum (Plot Size:)	% Cover	Species?	Status	Total % Cover of:	Multiply b	У	
1				OBL Species _	x 1 =	0	
2				FACW Species _	x 2 =	0	
3				FAC Species	x 3 =	0	
4					x 4 =		
50%= Total Cover:	0				x 5 =		
Herb Stratum (Plot Size: 10 ft)	% Cover	Species?			0 (A)		
Helenium bigelovii		Y	FACW	Prevalence Index =			()
Muhlenbergia filiformis	15	Y	FACW				
Principal videorie (10)/Phleum pratense (10)		Y	FACUL	Hydrophytic Vege	tation Indicator or Hydrophytic V		on
4. Prunella vulgaris 5. Poa palustris	<u>10</u> 8		FACU FAC	✓ Dominance	, ,	egetati	UII
Symphyotrichum spathulatum (5)/Trifolium pratense (5)	10	N/N	FAC/FACU	Prevalence I		, ,	
Epilobium ciliatum (3)/Stachys ajugoides (2)	5	N/N	FACW/OBL		al Adaptations¹ (arks or on a sepa		
Danthonia californica (1)/Carex sp. (1)	2	N/N	FAC/FAC		n-Vascular Plant		11001)
					Hydrophytic Veg		
50%= <u>43.5</u> 20%= <u>17.4</u> Total Cover:		Cnad0	Ctatur-	¹ Indicators of hydric be present.	, suii ariu Wellall	u riyul(nogy must
Woody/Vine Stratum (Plot Size:)	% Cover	Species?	Siaius	,			,
l				Hydrophytic Vege	tation Present?	I ✓ I/I	_
n				Trydropriytic vege	tation i resent:	رن	-
2				Tryurophytic vege	tation i resent:	∟،ٰن	_

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rofile D Depth	Description: (Desc Matrix		R _P	dox Features					
inches)	Color (mois	t) <u>%</u>		Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
)-10	10YR 4/2	90	· ·	R 3/6	10	<u>.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	PL	SL	Sandy loam
10-16	10YR 2/1	10	_		2		PL	LC	Loamy clay
Гуреѕ:	C = Concentration I	D = Depletion	n RM = F	Reduced Matrix		– ——— ² Location: P	L = Pore Lir	ing M = Ma	 atrix
vdric S	oil Indicators: (A	pplicable to	all LRRs.	unless otherv	vise noted	d)		Indicator	s for Problematic Hydric Soils
-	Histosol (A1)	F F			, Redox (cm Muck (A10)
	Histic Epipedon (A	2)			ed Matrix	-			ed Parent Materials (TF21)
	Black Histic (A3)	,				Mineral (ex o	ept		ery Shallow Dark Surface (TF12)
	Hydrogen Sulfide ((A4)			1 (F1)	`	•		egetated Sand/Gravel Bars
	Depleted Below Da		(A11)			Matrix (F2)			other (Explain in Remarks)
	Thick Dark Surface		, ,		ted Matrix				,
	Sandy Mucky Mine	, ,		•		rface (F6)		³ Indicato	ors of hydrophytic vegetation and
	Sandy Gleyed Mat					Surface (F7)		hydrology must be present.
	, ,	. ,		Redox	x Depress	sions (F8)	,		
	tive Layer (if prese	ent): Tvpe:	Rock		Denth (Inches) <u>10</u>	Hvd	ric Sail Dras	ent? ✓ /
Remar Soil m	ks neets the requir			tor F3 Deple	•			110 3011 1103	
Remar Soil m Hydro Wetlar	ks neets the required blogy and Indicators	ements fo	or indica	· ·	eted Ma	trix.			
Remar Soil m Hydro Wetlar Primar	ks neets the require blogy d Indicators y Indicators (Minim	ements fo	or indica	d. Check all th	eted Ma	trix.		Secondar	ry Indicators (2 or more required)
Remar Soil m Hydro Wetlar Primar	heets the required logy and Indicators (Minimal Surface Water (A1)	ements for	or indica	d. Check all th	eted Ma at apply.) Stained I	trix. Leaves (B9)		Secondar	ry Indicators (2 or more required) Vater Stained Leaves (B9) exce p
Remar Soil m Hydro Wetlar Primar	ks neets the required blogy ad Indicators y Indicators (Minime) Surface Water (A1) High Water Table	ements for	or indica	d. Check all th	eted Ma at apply.) Stained I A 1,2,4A,	trix. Leaves (B9) and 4B)		Secondar W	y Indicators (2 or more required) /ater Stained Leaves (B9) excep /ILRA 1,2,4A, and 4B)
Remar Soil m Hydro Wetlan Priman	heets the required Indicators y Indicators (Minimers) Surface Water (A1) High Water Table Saturation (A3)	ements for	or indica	d. Check all th Water MLRA Salt C	eted Ma at apply.) Stained I A 1,2,4A, crust (B11)	trix. Leaves (B9) and 4B)	except	Secondar W D	y Indicators (2 or more required) /ater Stained Leaves (B9) excep /ILRA 1,2,4A, and 4B) rrainage Patterns (B10)
Remar Soil m Hydro Wetlar Primar	neets the required blogy and Indicators (Minimal Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1)	ements for um of one	or indica	d. Check all th Water MLR Salt C	at apply.) Stained I A 1,2,4A, crust (B11)	Leaves (B9) and 4B)) brates (B13	except	Secondar —— W M —— D	ry Indicators (2 or more required) /ater Stained Leaves (B9) excep //LRA 1,2,4A, and 4B) rainage Patterns (B10) rry-Season Water Table (C2)
Remar Soil m Hydro Wetlan Priman	heets the required blogy and Indicators (Minimal Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits	ements for the sum of one in t	or indica	d. Check all th Water MLR Salt C Aquat	eted Ma eat apply.) Stained I A 1,2,4A, Crust (B11 ic Invertel gen Sulfic	Leaves (B9) and 4B)) brates (B13 de Odor (C	except	Secondar W D D D S	y Indicators (2 or more required) /ater Stained Leaves (B9) excep /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on
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Remar Soil m Hydro Wetlan Primary	neets the required blogy Ind Indicators Indicators (Minimers of Minimers of Mi	ements for num of one) (A2) (B4) (B4) on Aerial	or indica	d. Check all the Water MLR/ Salt C Aquat Hydro ✓ Oxidiz Prese Tilled Stunte	eted Ma eat apply.) Stained I A 1,2,4A, crust (B11 ic Invertel gen Sulfice ed Rhizo nce of Re nt Iron Re I Soils (C6 ed or Stree (LRR A)	Leaves (B9) and 4B)) brates (B13 de Odor (C7 spheres (C3 duced Iron duction in) except))))) (C4)	Secondar — W — D — D — S — ✓ G — S — ✓ F	ry Indicators (2 or more required) Vater Stained Leaves (B9) excep VILRA 1,2,4A, and 4B) Irainage Patterns (B10) Iry-Season Water Table (C2) Italiation Visible on Italiation Visible (C9) Italiation Position (D2) Italiation Aquitard (D3) Italiation Accordance (D5)
Remar Soil m Hydro Wetlar Primar	heets the required blogy and Indicators (Minimed Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Surface Soil Crack Inundation Visible	ements for num of one) (A2) (B4) (B4) on Aerial	or indica	d. Check all the Water MLR/ Salt C Aquat Hydro ✓ Oxidiz Prese Tilled Stunte	eted Ma eat apply.) Stained I A 1,2,4A, crust (B11 ic Invertel gen Sulfice ed Rhizo nce of Re nt Iron Re I Soils (C6 ed or Stree (LRR A)	Leaves (B9) and 4B)) brates (B13 de Odor (C7 spheres (C5 duced Iron duction in b) ssed Plants) except))))) (C4)	Secondar — W — D — D — S — ✓ G — S — ✓ F	ry Indicators (2 or more required) Vater Stained Leaves (B9) excep VILRA 1,2,4A, and 4B) Irainage Patterns (B10) Iry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) Seomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) Vaised Ant Mounds (D6) (LRR A)
Remar Soil m Hydro Wetlan Primar	neets the required blogy and Indicators (Minimal Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Surface Soil Crack Inundation Visible Imagery (B7) Sparsely Vegetate	ements for num of one) (A2) (B4) (B4) on Aerial	or indica	d. Check all the Water MLR/ Salt C Aquat Hydro ✓ Oxidiz Prese Tilled Stunte	eted Ma eat apply.) Stained I A 1,2,4A, crust (B11 ic Invertel gen Sulfice ed Rhizo nce of Re nt Iron Re I Soils (C6 ed or Stree (LRR A)	Leaves (B9) and 4B)) brates (B13 de Odor (C7 spheres (C5 duced Iron duction in b) ssed Plants) except))))) (C4)	Secondar — W — D — D — S — ✓ G — S — ✓ F	ry Indicators (2 or more required) Vater Stained Leaves (B9) excep VILRA 1,2,4A, and 4B) Irainage Patterns (B10) Iry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) Seomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) Vaised Ant Mounds (D6) (LRR A)
Remar Soil m Hydro Wetlan Primar	heets the required blogy and Indicators y Indicators (Minimed Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Surface Soil Crack Inundation Visible Imagery (B7) Sparsely Vegetate Surface (B8)	ements for num of one) (A2) (B4) (B4) on Aerial	or indica	d. Check all the Water MLR/ Salt C Aquat Hydro ✓ Oxidiz Prese Tilled Stunte	eted Ma at apply.) Stained I A 1,2,4A, crust (B11) ic Invertel igen Sulfice zed Rhizo nce of Re nt Iron Re I Soils (Ce ed or Stre (LRR A) (Explain i	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3 duced Iron duction in b) ssed Plants in Remarks) except))))) (C4)	Secondar — W — D — D — S — ✓ G — S — ✓ F	y Indicators (2 or more required) /ater Stained Leaves (B9) excep //LRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) ieomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) raised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
Remar Soil m Hydro Wetlar Primar 	neets the requirements of	ements for num of one) (A2) (B4) (B4) on Aerial d Concave	or indica	d. Check all the Water MLRA Salt Control Aquate Hydro Oxidize Prese Recer Tilled (D1) Other	eted Ma eat apply.) Stained I A 1,2,4A, crust (B11) ic Invertel gen Sulfice ded Rhizo nce of Re nt Iron Re Soils (C6 ed or Stre (LRR A) (Explain i	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3 duced Iron duction in b) ssed Plants in Remarks) except))))) (C4)	Secondar —— W M —— D —— S —— G —— S —— F	y Indicators (2 or more required) /ater Stained Leaves (B9) excep //LRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) ieomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) raised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)

Oxidized rhizosphers indicate long duration saturation.



Wetland Determination Data Form-Westerr	Mount:	aine Vall	ave & C	Data Point Coast Region Feature Type	
			•		
Project/Site: Fountain Wind		City/County	Shasta C	County	Date: 8/29/18
Applicant/Owner: Avangrid				State: CA	
Investigator(s): Gabe Youngblood, Alison Loveless			Section,	Township, Range Sec. 12, 13411,	R1E
Landform (hillslope, terrace, etc.) Valley		_ Local relie	ef (concave,	convex, none) None	_ Slope %0
Subregion (LRR): MLRA 22B Lat: 40.					m: NAD 83
Soil Map Unit Name: Windy and McCarthy stony sandy lo	oams, 0 to	30 percent	slopes NV	VI Classification: N/A	
Are climatic/hydrologic conditions on the site typical for this tir	-				
Are vegetation \(\sum \subseteq \si	itly disturbe	d? Are norn	nal circumst	ances present?	
Are vegetation \(\scale \times \soil \square '\times \soil \square '\times \soil \square '\times \soil \square \times \times \square \times \times \square \times \square \times \tim	problemation	:? (If neede	ed, explain i	n Remarks.)	
Summary of Findings (Attach site map showing sampli	na point loc	ations, trans	ects. impor	tant features, etc.)	
Hydrophytic vegetation? ✓ ☐ Hydric soil? ✓ ☐ Wetland	• .				7/
					<u> </u>
Evaluation of features designated "Other Wate Indicators: Defined bed and bank Scour _				annod Stroam Width	
Feature Designation: Perennial Intermittent En	hemeral	Blue-line	on USGS	Quad Substrate	
Natural Drainage Artificial Drain	age	Navigable V	Vater	-	
Remarks Upland pair to Data Point 35 wet meado	W				
opiana pan to Data i onit oo wet meado	· · ·				
Vegetation (Use Scientific Names)	Absolute	Dominant	Indicator	Dominance Test Worksheet	
Tree Stratum (Plot Size:)	% Cover	Species?		Number of dominant species	
1		•		that are OBL, FACW, or FAC: _	(A)
2				Total number of dominant species	5 (B)
3				across all strata: Percent of dominant species that	(B)
4				are OBL, FACW, or FAC:	(A/B)
50%= Total Cover:				Dravalance Index Warksheet	
Sapling/Shrub Stratum (Plot Size:)		Species?	Status	Prevalence Index Worksheet <u>Total % Cover of: Multiply</u>	bv
1		-		OBL Species x 1 =	•
2				FACW Species x 2 =	_
3				FAC Species x 3 =	
4				FACU Species x 4 =	_
50%=	0				_
Herb Stratum (Plot Size: 10 ft)	% Cover	Species?	Status	UPL Species x 5 =	
1. Plantago lanceolata	10	Y	FACU	Column Totals (A)	
2. Cynosurus echinatus	5	Y	UPL	Prevalence Index = B/A =	
3. Acmispon americanus	5	Y	FACU	Hydrophytic Vegetation Indicato	rs
4. Trifolium pratense	5	Υ	FACU	Rapid Test for Hydrophytic	
Carex sp.	5	Y	FAC	Dominance Test is >50%	
6. Symphyotrichum spathulatum	2	N	FAC	Prevalence Index is < 3.0 ¹ Morphological Adaptations ¹	(provide supporting
7. Poa palustris	1	N	FAC	data in Remarks or on a sep	parate sheet)
8. Phleum pratense	1	N	FAC	Wetland Non-Vascular Plan Problematic Hydrophytic Ve	
50%=17 20%=6.8 Total Cover:	34			¹ Indicators of hydric soil and wetlan	
Woody/Vine Stratum (Plot Size:)	% Cover	Species?	Status	be present.	. 03
1		•		Hydrophytic Vegetation Present	2 [] [
2				Tryurophytic vegetation Fresent	· 🗀/匚
50%=					
% Bare Ground in Herb Stratum 96 % Cover of Bio		0			

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Depth	s cription : (E Matr	ix		Redox Features					
inches)	Color (n	noist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	<u>Remarks</u>
Types: C	= Concentration	on D = De	pletion	RM = Reduced Matrix	2	² Location: PL	. = Pore Lir	ning M = Matrix	
ydric So	il Indicators:	(Applica	ble to all	LRRs, unless otherw	ise noted	i)		Indicators for	Problematic Hydric Soil
H	istosol (A1)			Sandy	Redox (S	S5)		2 cm N	Nuck (A10)
H	istic Epipedoi	n (A2)		Strippe	ed Matrix	(S6)		Red Pa	arent Materials (TF21)
BI	lack Histic (A	3)		Loamy	Mucky N	Mineral (exce	ept	Very S	hallow Dark Surface (TF12
H	ydrogen Sulfi	de (A4)		MLRA	1) (F1)			Vegeta	ated Sand/Gravel Bars
D	epleted Belov	w Dark Su	ırface (A1	1) Loamy	Gleyed	Matrix (F2)		Other	(Explain in Remarks)
TI	hick Dark Sur	face (A12	2)	Deplet	ed Matrix	(F3)			
Sa	andy Mucky N	Mineral (S	51)	Redox	Dark Su	rface (F6)		³ Indicators of	hydrophytic vegetation and
S	andy Gleyed	Matrix (S	4)	Deplet				wetland hydro	ology must be present.
				Redox	Depress	ions (F8)			
Restrictiv	ve Layer (if p	resent):	Туре:		Depth (I	Inches)	Hyd	ric Soil Present?	/ X
	s pit edge of	f compa	cted dir	t road.					
No soil	pit edge of	f compa	cted dir	t road.					
Hydrol Wetland	pit edge of ogy			t road.	at apply.)			Secondary Ind	icators (2 or more required
No soil Hydrol Wetland Primary	pit edge of ogy Indicators Indicators (Mi	inimum of		quired. Check all that			except	-	·
No soil Hydrol Wetland Primary	ogy Indicators Indicators (Mi	inimum of		equired. Check all that	Stained I	Leaves (B9)	except	Water	Stained Leaves (B9) exce
Hydrol Wetland Primary	ogy Indicators Indicators (Mi	inimum of (A1) ble (A2)		equired. Check all that Water MLRA	Stained I	Leaves (B9) and 4B)	except	Water MLRA	Stained Leaves (B9) exce 1,2,4A, and 4B)
Hydrol Wetland Primary Si H	ogy Indicators Indicators (Mi	inimum of (A1) ble (A2)		equired. Check all that Water MLRA Salt Co	Stained I 1,2,4A, rust (B11)	Leaves (B9) and 4B)	·	Water MLRA Draina	Stained Leaves (B9) exce
Hydrol Wetland Primary SiSiSi	ogy Indicators Indicators (Mi urface Water igh Water Tal aturation (A3)	inimum of (A1) ble (A2))		equired. Check all that Water MLRA Salt Co	Stained I 1,2,4A, rust (B11) c Invertel	Leaves (B9) and 4B))		Water MLRA Draina Dry-Se	Stained Leaves (B9) exce 1,2,4A, and 4B) ge Patterns (B10)
No soil Hydrol Wetland Primary Si Wetland Primary Si Si Si Si Si Si Si Si Si S	ogy Indicators Indicators (Mi urface Water igh Water Tal aturation (A3) /ater Marks (E	inimum of (A1) ble (A2)) 31) osits (B2)		equired. Check all that Water MLRA Salt Co Aquati Hydrog	Stained I A 1,2,4A, rust (B11) c Invertel gen Sulfic	Leaves (B9) and 4B)) brates (B13))	Water MLRA Draina Dry-Se	Stained Leaves (B9) exce A 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2)
Hydrol Wetland Primary Si H Si W Si	ogy Indicators Indicators (Mi urface Water igh Water Tal aturation (A3) /ater Marks (E	inimum of (A1) ble (A2)) 31) posits (B2)		equired. Check all that Water MLRA Salt Co Aquati Hydrog Oxidiz	Stained I A 1,2,4A, rust (B11) c Invertel gen Sulficed Rhizos	Leaves (B9) and 4B)) brates (B13) de Odor (C1)))	Water MLRA Draina Dry-Se Satura	Stained Leaves (B9) exce 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on
Hydrol Wetland Primary Si Hi Si Hi All	ogy Indicators Indicators (Mi urface Water igh Water Tal aturation (A3) /ater Marks (Bediment Depo- rift Deposits (inimum of (A1) ble (A2) (B1) cosits (B2) (B3) cust (B4)		equired. Check all that Water MLRA Salt Co Aquati Hydroo Oxidiz Preser	Stained I A 1,2,4A, rust (B11) c Invertel gen Sulficed Rhizon nce of Re	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3))	Water MLRA Draina Dry-Se Satura Aerial	Stained Leaves (B9) exce A 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9)
Hydrol Wetland Primary Si Hydrol Si Si Al Al	ogy Indicators Indicators (Mi urface Water igh Water Tal aturation (A3) /ater Marks (Bediment Depo- rift Deposits (Igal Mat or Cr	inimum of (A1) ble (A2)) 31) osits (B2) (B3) rust (B4)	one is re	equired. Check all that Water MLRA Salt Cool Aquati Hydroo Oxidiz Preser Recen	Stained I A 1,2,4A, rust (B11) c Invertel gen Sulficed Rhizon nce of Re	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3 duced Iron (duction in))	Water MLRA Draina Dry-Se Satura Aerial Geome	Stained Leaves (B9) exce A 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2)
Hydrol Wetland Primary Si H Si H Si H Si	ogy Indicators Indicators (Mi urface Water igh Water Tal aturation (A3) /ater Marks (Fediment Depo- rift Deposits (Igal Mat or Cron Deposits (Igal Mat or Cr	inimum of (A1) ble (A2)) (B1) posits (B2) (B3) rust (B4) (B5) racks (B6)	one is re	equired. Check all that Water MLRA Salt Co Aquati Hydrog Oxidiz Preser Recen Tilled	Stained I 1,2,4A, rust (B11) c Invertel gen Sulfice ed Rhizos nce of Re t Iron Rec Soils (C6	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3 duced Iron (duction in))	Water MLRA Draina Dry-Se Satura Aerial Geome Shallor	Stained Leaves (B9) exce 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3)
No soil Hydrol Wetland Primary Si Hi Si Al Iro	ogy Indicators Indicators (Mi urface Water igh Water Tal aturation (A3) /ater Marks (I ediment Depo rift Deposits (Igal Mat or Cr on Deposits (urface Soil Cr	inimum of (A1) ble (A2)) (B1) posits (B2) (B3) rust (B4) (B5) racks (B6)	one is re	equired. Check all that Water MLRA Salt Co Aquati Hydroo Oxidiz Preser Recen Tilled Stunte	Stained I 1,2,4A, rust (B11) c Invertel gen Sulfice ed Rhizos nce of Re t Iron Rec Soils (C6	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3 duced Iron (duction in))	Water MLRA Draina Dry-Se Satura Aerial Geome Shallor FAC-N Raisec	Stained Leaves (B9) exce A 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5)
No soil Hydrol Wetland Primary Si H Si In Ir Si Si	ogy Indicators Indicators (Mi urface Water igh Water Tal aturation (A3) /ater Marks (E ediment Depo rift Deposits (Igal Mat or Cr on Deposits (urface Soil Cr undation Visi magery (B7) parsely Vege	inimum of (A1) ble (A2)) 31) posits (B2) (B3) rust (B4) B5) racks (B6) ble on Ae	one is re	equired. Check all that Water MLRA Salt Co Aquati Oxidiz Preser Recen Tilled Stunte (D1) (Stained I A 1,2,4A, rust (B11) c Invertel gen Sulfice ed Rhizon nce of Re t Iron Rec Soils (C6 d or Street LRR A)	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3 duced Iron (duction in))	Water MLRA Draina Dry-Se Satura Aerial Geome Shalloe FAC-N Raisec	Stained Leaves (B9) exce 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) If Ant Mounds (D6) (LRR A
No soil Hydrol Wetland Primary Si H Si In Ir Si Si	ogy Indicators Indicators (Mi urface Water igh Water Tal aturation (A3) /ater Marks (Bediment Depo- rift Deposits (Igal Mat or Cron Deposits (Igal Mat or Cr	inimum of (A1) ble (A2)) 31) posits (B2) (B3) rust (B4) B5) racks (B6) ble on Ae	one is re	equired. Check all that Water MLRA Salt Co Aquati Oxidiz Preser Recen Tilled Stunte (D1) (Stained I A 1,2,4A, rust (B11) c Invertel gen Sulfice ed Rhizon nce of Re t Iron Rec Soils (C6 d or Street LRR A)	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3 duced Iron (duction in b) ssed Plants))	Water MLRA Draina Dry-Se Satura Aerial Geome Shalloe FAC-N Raisec	Stained Leaves (B9) exce 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) If Ant Mounds (D6) (LRR A
No soil Hydrol Wetland Primary Si H Si No Si In Ir Si Si Field Ob	ogy Indicators Indicators (Mi urface Water igh Water Tal aturation (A3) /ater Marks (Rediment Depo- rift Deposits (Igal Mat or Cron Deposits (Igal Mat or Cr	inimum of (A1) ble (A2)) (B3) rust (B2) (B3) rust (B4) B5) racks (B6) ble on Ae	one is re	equired. Check all the Water MLRA Salt Company Oxidiz Preser Recent Tilled (D1) (Stained I 1,2,4A, rust (B11) c Invertel gen Sulfice ed Rhizon nce of Re t Iron Rec Soils (C6 d or Stree LRR A) (Explain i	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3 duced Iron (duction in b) ssed Plants in Remarks)) (C4)	Water MLRA Draina Dry-Se Satura Aerial Geome Shalloe FAC-N Raisee Frost-F	Stained Leaves (B9) exce 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) I Ant Mounds (D6) (LRR A Heave Hummocks (D7)
No soil Hydrol Wetland Primary Si Si Si Surface W	ogy Indicators Indicators (Mi urface Water igh Water Tal aturation (A3) /ater Marks (Rediment Deporift Deposits (Igal Mat or Cron	inimum of (A1) ble (A2)) 31) posits (B2) (B3) rust (B4) B5) racks (B6) ble on Ae tated Cor	one is re	equired. Check all that Water MLRA Salt Ci Aquati Hydrog Oxidiz Preser Recen Tilled Stunte (D1) (Other	Stained I A 1,2,4A, rust (B11) c Invertel gen Sulfic ed Rhizon nce of Re t Iron Rec Soils (C6 d or Stree LRR A) (Explain i	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) duced Iron (duction in b) ssed Plants in Remarks)) (C4)	Water MLRA Draina Dry-Se Satura Aerial Geome Shalloe FAC-N Raisec	Stained Leaves (B9) exce 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) I Ant Mounds (D6) (LRR A Heave Hummocks (D7)
Hydrol Wetland Primary Si Hi Si Hi Si In Ir Si Surface W	ogy Indicators Indicators (Mi urface Water igh Water Tal aturation (A3) /ater Marks (Rediment Depo- rift Deposits (Igal Mat or Cron Deposits (Igal Mat or Cr	inimum of (A1) ble (A2)) (B3) rust (B2) (B3) rust (B4) B5) racks (B6) ble on Ae	one is re	equired. Check all that Water MLRA Salt Ci Aquati Hydrog Oxidiz Preser Recen Tilled Stunte (D1) (Other Depth (inch	Stained I A 1,2,4A, rust (B11) c Invertel gen Sulfice ed Rhizon nce of Re t Iron Rec Soils (C6 d or Street LRR A) (Explain i	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) duced Iron (duction in b) ssed Plants in Remarks)) (C4)	Water MLRA Draina Dry-Se Satura Aerial Geome Shallov FAC-N Raisec Frost-H	Stained Leaves (B9) exce 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) I Ant Mounds (D6) (LRR A Heave Hummocks (D7)



Wetland Determination Data Form-Weste	ern Mount	ains, Vall	eys, & C	Coast Region	Feature Ty		Von-ve	egetated ditc
Project/Site: Fountain Wind		City/County	Shasta C	County		[Date:	11/14/17
Applicant/Owner: Avangrid				a (California			
Investigator(s): Gabe Youngblood			_ Section	, Township, Range _S		ŀN, R1	ΙE	
Landform (hillslope, terrace, etc.) Ditch		Local relie	ef (concave	convex. none) Con	vex	S	lope 9	_% 2
Subregion (LRR): MLRA 22B Lat:	40.806354°		Long:_	-121.880599°	D	atum:	NA	.D83
Soil Map Unit Name: Cohasset stony loam, 0 to 30 pe	ercent slopes		N\	VI Classification: R5	UBFx			
Are climatic/hydrologic conditions on the site typical for this	s time of year?	o ✓/ (If n	o, explain ii	n Remarks.)				
Are vegetation ☐/☒soil ☐/☒or hydrology☐/☒signifi	cantly disturbe	ed? Are norn	nal circums	tances present? 🗸 🗸				
Are vegetation ☐/⊠soil ☐/⊠or hydrology ☐/⊠hatura	ally problemation	c? <i>(If neede</i>	ed, explain i	in Remarks.)				
Summary of Findings (Attach site map showing sam	npling point loc	cations, trans	ects, impor	tant features, etc.)				
Hydrophytic vegetation? 🗹 🗌 Hydric soil? 🗹 🦳 Wetla	and hydrology?	√ Is s	ampled are	a a wetland? 🔲 🗵	Other waters	s? √ /		
Evaluation of features designated "Other Wa	iters of the	United St	ates"					
Indicators: Defined bed and bank ✓ Scoul	r ✔ Ordin	arv High Wa	ter Mark Ma	apped 🗹 Stream	Width <u>4'</u>			
Feature Designation: Perennial Intermittent	Ephemeral	Blue-lin	e on USGS Vator	Quad Subst	rate Rock and s	ioil		
Natural Drainage Artificial Dr								
Remarks _{DP} documents an irrigation ditch that	does not su	pport hydr	ophytic v	egetation.				
Vegetation (Use Scientific Names)	Absolute			Dominance Test				
Tree Stratum (Plot Size:)	% Cover			Number of domina that are OBL, FAC				(A)
1				Total number of do				(A)
2.				across all strata:	·			(B)
3.				Percent of domina are OBL, FACW, or		at		(A/R)
4 50%= Total Cov	or: 0			die ODE, i Now, e	n i AO.			(110)
Sapling/Shrub Stratum (Plot Size:)		Species?	Status	Prevalence Index				
	<u> 70 COVEL</u>	<u>Species:</u>	Status	Total % Cover of: OBL Species				
1 2				FACW Species				_
3.							_	
4.					X			_
50%=	er: 0			FACU Species				
Herb Stratum (Plot Size:)		Species?	Status	· ·	X			
1				Column Totals				(B)
2.				Prevalence Index	= B/A =			
3.				Hydrophytic Veg	etation Indic	ators		
4				Rapid Test	for Hydrophy	tic Ve	getatio	on
5				Dominance				
6.				Prevalence Morphologi			ovide	supporting
7				data in Ren	narks or on a	separa	ate sh	
8.				Wetland No				1 (Evolain)
50%=				¹ Indicators of hydr				
Woody/Vine Stratum (Plot Size:)		Species?	Status	be present.				0,5
1				Hydrophytic Veg	etation Pres	_{ent?} [1
2.				Trydrophlytic vegi	Station F163	ont: L		1
50%=								
% Bare Ground in Herb Stratum % Cover of I		0						

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Depth	s cription : (De Matrix		ino dopti	Redox Features		dicator or co			
nches)	Color (mo		<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	<u>Remarks</u>
	= Concentration	D = Depl	etion R	M = Reduced Matrix		– – – – ² Location: PL	= Pore Lir	ing M = Matrix	
ydric Soi	I Indicators:	(Applicabl	e to all L	RRs, unless otherv	ise noted	d)		Indicators for	Problematic Hydric Soils
	stosol (A1)			Sandy				2 cm N	luck (A10)
Hi:	stic Epipedon	(A2)		Stripp	ed Matrix	(S6)		Red Pa	arent Materials (TF21)
Bla	ack Histic (A3))		Loam	Mucky N	Mineral (exc e	ept	Very S	hallow Dark Surface (TF12
Ну	ydrogen Sulfid	e (A4)		MLRA	1) (F1)			Vegeta	ited Sand/Gravel Bars
De	epleted Below	Dark Surf	ace (A11) Loam	/ Gleyed	Matrix (F2)		Other ((Explain in Remarks)
Th	nick Dark Surfa	ace (A12)		Deple	ted Matrix	(F3)			
Sa	andy Mucky Mi	ineral (S1))	Redox	Dark Su	rface (F6)		³ Indicators of	hydrophytic vegetation and
Sa	andy Gleyed M	latrix (S4)		Deple	ted Dark	Surface (F7)		wetland hydro	ology must be present.
				Redox	Depress	sions (F8)			
Restrictiv	e Layer (if pre	esent): Ty	pe:		Depth (Inches)	Hyd	ric Soil Present?	·×
	s pit scoured	d channe	el.						
No soils Hydrolo Wetland	ogy Indicators			uired. Check all th	at apply.)			Secondary Ind	icators (2 or more required
No soils Hydrolo Wetland Primary I	ogy Indicators (Min	imum of o		uired. Check all th Water			except	-	icators (2 or more required Stained Leaves (B9) exce
No soils Hydrolo Wetland Primary lo	ogy Indicators ndicators (Min	<u>imum of o</u> A1)		Water		Leaves (B9)	except	Water	Stained Leaves (B9) excep
No soils Hydrolo Wetland Primary I	ogy Indicators (Min	<u>imum of o</u> A1)		Water	Stained I	Leaves (B9) and 4B)	except	Water MLRA	•
No soils Hydrolo Wetland Primary li Su Hi Sa	ogy Indicators ndicators (Min	<u>imum of o</u> A1) e (A2)		Water	Stained I A 1,2,4A , rust (B11	Leaves (B9) and 4B)		Water MLRA Draina	Stained Leaves (B9) except 1,2,4A, and 4B)
Hydrold Wetland Primary II Su	ogy Indicators Indicators (Min Uniface Water (A gh Water Tabl Indicators (A3)	imum of o A1) e (A2)		Water MLR/ Salt C Aquat	Stained I A 1,2,4A, rust (B11) ic Invertel	Leaves (B9) and 4B)	·	Water MLRA Draina Dry-Se	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10)
Hydrolo Wetland Primary II Su Hii Sa W Y Se	ogy Indicators Indicators (Min	imum of o A1) e (A2) I) sits (B2)		Water MLR/ Salt C Aquat Hydro	Stained I A 1,2,4A, rust (B11 ic Invertel gen Sulfic	Leaves (B9) and 4B)) brates (B13)		Water MLRA Draina Dry-Se	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2)
No soils Hydrolo Wetland Primary Ii Sta Hii Sta W ✓ Sta	ogy Indicators Indicators (Min	imum of o A1) e (A2) I) sits (B2) 3)		Water MLR/ Salt C Aquat Hydro	Stained I A 1,2,4A, rust (B11 ic Invertel gen Sulfic ed Rhizo	Leaves (B9) and 4B)) brates (B13) de Odor (C1))	Water MLRA Draina Dry-Se Satura	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on
No soils Hydrolo Wetland Primary II Stand Wetland Primary II Stand Wetland Ali Ali Ali Ali Ali Ali	ogy Indicators Indicators (Min	imum of o A1) e (A2) I) sits (B2) 3) st (B4)		Water MLR/ Salt C Aquat Hydro Oxidiz	Stained I A 1,2,4A, rust (B11 ic Invertel gen Sulfic ed Rhizo nce of Re	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3)	Water MLRA Draina Dry-Se Satura Aerial	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9)
No soils Hydrolo Wetland Primary II Su Hi Sa W ✓ Se ✓ Dr Ale	Indicators (Minum) Indicators (M	imum of o A1) e (A2) I) sits (B2) 3) st (B4) 5)		Water MLR/ Salt C Aquat Hydro Oxidiz Prese Recer	Stained I A 1,2,4A, rust (B11 ic Invertel gen Sulfic ed Rhizo nce of Re	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) educed Iron (duction in)	Water MLRA Draina Dry-Se Satura Aerial Geomo	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2)
No soils Hydrolo Wetland Primary II Stand V Ale Interest Stand	ogy Indicators Indicators (Min	imum of o A1) e (A2) I) sits (B2) 3) st (B4) 5) cks (B6)	ne is req	Water MLR/ Salt C Aquat Hydro Oxidiz Prese Recer Tilled Stunte	Stained I A 1,2,4A, rust (B11 ic Invertel gen Sulfic ed Rhizo nce of Re at Iron Re Soils (C6	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) educed Iron (duction in)	Water MLRA Draina Dry-Se Satura Aerial Geomo Shallov FAC-N Raised	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) eutral Test (D5) I Ant Mounds (D6) (LRR A)
No soils Hydrold Wetland Primary li Sa Wi ✓ Se ✓ Dr Alg Interest	ogy Indicators Indicators (Min	imum of o A1) e (A2) I) sits (B2) 3) st (B4) 5) cks (B6) le on Aeria	ne is req	Water MLR/ Salt C Aquat Hydro Oxidiz Prese Recer Tilled (D1)	Stained I A 1,2,4A, rust (B11 ic Invertel gen Sulfice ed Rhizon nce of Re at Iron Re Soils (Co ed or Streat (LRR A)	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) educed Iron (duction in b) ssed Plants)	Water MLRA Draina Dry-Se Satura Aerial Geomo Shallov FAC-N Raised	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) eutral Test (D5)
No soils Hydrolo Wetland Primary II Su Hii Sa W ✓ Se ✓ Dr Alu Inc In	Indicators (Minurface Water (Agh Water Table aturation (A3) (ater Marks (B7)) (ater	imum of o A1) e (A2) I) sits (B2) 3) st (B4) 5) cks (B6) le on Aeria	ne is req	Water MLR/ Salt C Aquat Hydro Oxidiz Prese Recer Tilled (D1)	Stained I A 1,2,4A, rust (B11 ic Invertel gen Sulfice ed Rhizon nce of Re at Iron Re Soils (Co ed or Streat (LRR A)	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) duction in b))	Water MLRA Draina Dry-Se Satura Aerial Geomo Shallov FAC-N Raised	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) eutral Test (D5) I Ant Mounds (D6) (LRR A)
No soils Hydrolo Wetland Primary II Sa V Se V Iro Ino Sp Su	ogy Indicators Indicators (Min	imum of o A1) e (A2) I) sits (B2) 3) st (B4) 5) cks (B6) le on Aeria	ne is req	Water MLR/ Salt C Aquat Hydro Oxidiz Prese Recer Tilled (D1)	Stained I A 1,2,4A, rust (B11 ic Invertel gen Sulfice ed Rhizon nce of Re at Iron Re Soils (Co ed or Streat (LRR A)	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) educed Iron (duction in b) ssed Plants)	Water MLRA Draina Dry-Se Satura Aerial Geomo Shallov FAC-N Raised	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) eutral Test (D5) I Ant Mounds (D6) (LRR A)
No soils Hydrolo Wetland Primary II Su Hii Sa W ✓ Se ✓ Dr Alg Iro In Su Su Field Ob	Indicators (Minurface Water (Agh Water Table aturation (A3) (ater Marks (Brigal Mat or Crubon Deposits (Burface Soil Craundation Visibinagery (B7) (barsely Vegeta urface (B8) (servations	imum of o A1) e (A2) I) sits (B2) 3) st (B4) 5) cks (B6) le on Aeria	ne is req	Water MLR/ Salt C Aquat Hydro Oxidiz Prese Recer Tilled Stunte (D1) (Stained I A 1,2,4A, rust (B11 ic Invertel gen Sulfic ed Rhizo nce of Re at Iron Re Soils (Cé ed or Stre (ERR A) (Explain i	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) duced Iron (duction in b) ssed Plants in Remarks)	C4)	Water MLRA Draina Dry-Se Satura Aerial Geome Shallov FAC-N Raised Frost-F	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) eutral Test (D5) I Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
No soils Hydrolo Wetland Primary II Sa W ✓ Se ✓ Dr Alt Inc Su Field Ob Surface W	ogy Indicators Indicators (Min	imum of o A1) e (A2) I) sits (B2) 3) st (B4) 5) cks (B6) le on Aeria tted Conca	ne is req	Water MLR/ Salt C Aquat Hydro Oxidiz Prese Recer Tilled Stunte (D1) (Other	Stained I A 1,2,4A, rust (B11 ic Invertel gen Sulfic ed Rhizo nce of Re at Iron Re Soils (C6 ed or Stree (LRR A) (Explain i	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) duced Iron (duction in b) ssed Plants in Remarks)	C4)	Water MLRA Draina Dry-Se Satura Aerial Geomo Shallov FAC-N Raised	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) eutral Test (D5) I Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
No soils Hydrolo Wetland Primary II Sa W ✓ Se ✓ Dr Alt Inc Su Field Ob Surface W	Indicators (Minurface Water (Agh Water Table aturation (A3) ater Marks (B7) ediment Deposits (Bgal Mat or Crubon Deposits (Bourface Soil Craundation Visibnagery (B7) parsely Vegetaurface (B8) servations (Ater Present?	imum of o A1) e (A2) I) sits (B2) 3) st (B4) 5) cks (B6) le on Aeria	ne is req	Water MLR/ Salt C Aquat Hydro Oxidiz Prese Recer Tilled Stunte (D1) (Stained I A 1,2,4A, rust (B11 ic Invertel gen Sulfic ed Rhizo nce of Re at Iron Re Soils (C6 ed or Stree (LRR A) (Explain i	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) educed Iron (duction in b) ssed Plants in Remarks)	C4)	Water MLRA Draina Dry-Se Satura Aerial Geomo Shallov FAC-N Raised Frost-H	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) eutral Test (D5) I Ant Mounds (D6) (LRR A) Heave Hummocks (D7)

Sediment and drift deposits indicate frequent flooding.



Wetland Determination Data Form-Wester	n Mount	aine Val	love 8. C	Paset Dagion	Data Point Feature Type	Vege	38 tated ditch
			•	ŭ	reature Type		
Project/Site: Fountain Wind		City/County	Snasta C	ounty	California	Date:	11/14/17
Applicant/Owner: Avangrid					California		-
Investigator(s): Gabe Youngblood			_ Section	, Township, Range	5ec. 17, 134N, F	(1E	
Landform (hillslope, terrace, etc.) Ditch		_ Local relie	ef (concave	, convex, none) Con	ivex	Slope 9	
Subregion (Lixix) Lai	0.806106°		-		Datum	1: NA	.D83
Soil Map Unit Name: Cohasset stony loam, 0 to 30 perc	ent slopes		N\	WI Classification: R5	UBFx		
Are climatic/hydrologic conditions on the site typical for this ti	me of year?	√V (If r	o, explain ii	n Remarks.)			
Are vegetation ☐/⊠soil ☐/⊠or hydrology☐/⊠significa	ntly disturbe	ed? Are norr	nal circums	tances present? <a>I			
Are vegetation	problemation	c? (If neede	ed, explain i	in Remarks.)			
Summary of Findings (Attach site map showing sampl	ing point los	ations trans	costs impor	tant foatures etc.)			
					ъ.,	1.	
Hydrophytic vegetation? 🔽 🗌 Hydric soil? 🗹 🦳 Wetland	i nyarology (sampied are	ea a wetland? 14 N	_Diner waters?[▼		
Evaluation of features designated "Other Wate	rs of the	United St	ates"	,			
Indicators: Defined bed and bank Scour_	✓ Ordin	ary High Wa	iter Mark Ma	apped Stream	Width 5'		
Feature Designation: Perennial Intermittent Ex Natural Drainage Artificial Drain	hemeral	Blue-lin	e on USGS Mator	Quad <u>V</u> Subst	rate soll and gravel		
Remarks _{DP} documents an irrigation ditch that su	pports hy	drophytic	vegetatio	n.			
Vegetation (Use Scientific Names)	Absolute	Dominant	Indicator	Dominance Test	Worksheet		
Tree Stratum (Plot Size:)	% Cover	Species?	Status	Number of domina			
1				that are OBL, FAC		1 ———	(A)
2				Total number of do across all strata:	ominant species	1	(B)
3				Percent of domina	nt species that		(D)
4				are OBL, FACW, o		100	(A/B)
50%= Total Cover:	0			Drovelence Index	. Warlahaat		
Sapling/Shrub Stratum (Plot Size:)	% Cover	Species?	Status	Prevalence Index Total % Cover of:		١V	
1.				OBL Species	x 1 =	0	
2.				FACW Species		0	
3				·		0	
4.				FAC Species			_
50%= Total Cover:	0			FACU Species			
Herb Stratum (Plot Size: 5')		Charles	Ctatus	UPL Species			_
Herb Stratum (Plot Size:) 1 Scirpus microcarpus	% Cover 40	Species?	OBL	Column Totals	0 (A)	0	(B)
2. Symphyotrichum spathulatum	10	N	FAC	Prevalence Index	= B/A =	_	
	5	N	FACW				
. Prupella vulgarie	2	N	FACU	Hydrophytic Veg Rapid Test			nn
4. Frunella vulgans 5. Heracleum maximum				✓ Dominance		egetatii	UII
I	4	N	FAC	Prevalence	e Index is <u><</u> 3.0¹		
6. Ludwigia palustris			OBL	Morphologi			
7				Wetland No	marks or on a sepa on-Vascular Plants	ज्ञावास SI S ¹	ieelj
8				Problemation	c Hydrophytic Veg	getation	
50%=30 20%=12 Total Cover:	60			¹ Indicators of hydr	ric soil and wetland	d hydro	logy must
Woody/Vine Stratum (Plot Size:)	% Cover	Species?	Status	be present.			
1				Hydrophytic Veg	etation Present?	V /]
2							
50%= Total Cover:							
% Bare Ground in Herb Stratum $\frac{0}{}$ % Cover of Bio		0					

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Depth	e scription : (De Matrix	(Redox Fe	alures					
inches)	Color (mo	oist)	%	Color (n	noist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks
-10	7.5YR 3/2	9	8	5YR 3/4	2	<u> </u>	<u>C</u>	PL	Loam	gravelly
										-
ypes: (C = Concentration	n D = Dep	letion	RM = Reduce	d Matrix	² Lc	ocation: Pl	_ = Pore Lin	ning M = Ma	ıtrix
ydric S	oil Indicators:	(Applicab	le to al	I LRRs, unles	s otherwise	noted)			Indicator	s for Problematic Hydric Soils
, 	Histosol (A1)				_ Sandy Re	edox (S5))		2	cm Muck (A10)
H	Histic Epipedon	(A2)			_ Stripped I	Matrix (S	56)		R	ed Parent Materials (TF21)
E	Black Histic (A3))			_ Loamy M	ucky Min	neral (exc	ept	V	ery Shallow Dark Surface (TF12
H	Hydrogen Sulfid	le (A4)			MLRA 1)	(F1)			V	egetated Sand/Gravel Bars
[Depleted Below	Dark Sur	face (A	\11) <u></u>	_ Loamy GI	leyed Ma	atrix (F2)		0	ther (Explain in Remarks)
	Thick Dark Surfa	ace (A12)			_ Depleted	-				
	Sandy Mucky M	lineral (S1)	✓	_ Redox Da	ark Surfa	ice (F6)		³ Indicato	ors of hydrophytic vegetation and
	Sandy Gleyed N	Natrix (S4))		_ Depleted	Dark Su	rface (F7))	wetland	hydrology must be present.
					_ Redox De	epressior	ns (F8)			
			b	o dro ok			10			
Restrict	tive Layer (if pr	esent): T	ype: <u>b</u>	edrock	D	epth (Inc	thes) <u>10</u>	Hydi	ric Soil Pres	ent? ✓ /
Remarl	ks leets the requ	uiremen	ts for		Redox D	Dark Su	ırface.			
Remarl Soil m	eets the requ	uiremen	ts for		Redox D	Dark Su	ırface.			
Remark Soil m Hydro Wetlan	plogy d Indicators			indicator F6			urface.		Secondar	v Indicators (2 or more required)
Remark Soil m Hydro Wetlan Primary	plogy Indicators Indicators (Min	nimum of o		indicator F6			urface.		Secondar	y Indicators (2 or more required)
Remarl Soil m Hydro Wetlan Primary	plogy Id Indicators / Indicators (Min	nimum of o		indicator F6		apply.)		except		
Remarl Soil m Hydro Wetlan Primary	plogy d Indicators / Indicators (Mir Surface Water (High Water Tab	nimum of o		indicator F6	ck all that a	apply.) ained Lea	aves (B9)	except	V\	/ater Stained Leaves (B9) excep ILRA 1,2,4A, and 4B)
Remark Soil m Hydro Wetlan Primary	plogy Id Indicators / Indicators (Min	nimum of o		indicator F6	ck all that a	apply.) ained Lea 2,4A, an	aves (B9)	except	V\	/ater Stained Leaves (B9) excep
Remark Soil m Hydro Wetlan Primary	plogy d Indicators / Indicators (Mir Surface Water (High Water Tab	nimum of o A1) le (A2)		indicator F6	ck all that a _ Water Sta MLRA 1,	apply.) ained Lea 2,4A, an t (B11)	aves (B9) nd 4B)	·	W N D	/ater Stained Leaves (B9) excep ILRA 1,2,4A, and 4B)
Remarl Soil m Hydro Wetlan Primary	plogy Id Indicators Indicators (Mir Surface Water (Aligh Water Tab Saturation (A3)	nimum of o A1) Ie (A2) 1)		indicator F6	ck all that a _ Water Sta MLRA 1, _ Salt Crusi	apply.) ained Lea 2,4A, an t (B11) nvertebra	aves (B9) nd 4B) ates (B13)		W D D	/ater Stained Leaves (B9) excer /ILRA 1,2,4A, and 4B) rainage Patterns (B10)
Remark Soil m Hydro Wetlan Primary	blogy d Indicators Indicators (Mir Surface Water (A) High Water Tab Saturation (A3) Water Marks (B)	nimum of on the A1) le (A2) 1) sits (B2)		indicator F6	ck all that a _ Water Sta MLRA 1, _ Salt Crusi _ Aquatic Ir	apply.) ained Lea 2,4A, an t (B11) nvertebra n Sulfide	aves (B9) nd 4B) ates (B13) Odor (C1)	W D D S	Vater Stained Leaves (B9) exception of the American American (B10) rainage Patterns (B10) ry-Season Water Table (C2)
Remark Soil m Hydro Wetlan Primary	ology Id Indicators Indicators (Min Surface Water (Aligh Water Tab Saturation (A3) Water Marks (B) Sediment Depos	1) A1) Ie (A2) 1) sits (B2)		indicator F6	ck all that a _ Water Sta MLRA 1, _ Salt Crusi _ Aquatic Ir _ Hydrogen	ained Lea 2,4A, an t (B11) nvertebra n Sulfide Rhizospl	aves (B9) nd 4B) ates (B13) Odor (C1) heres (C3))	W D D S	/ater Stained Leaves (B9) excep /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on
Remark Soil m Hydro Wetlan Primary	blogy Id Indicators Indicators (Mir Surface Water (A) High Water Tab Saturation (A3) Water Marks (B) Sediment Deposits (E)	nimum of of A1) le (A2) 1) sits (B2) 33) ust (B4)		indicator F6	ck all that a Water Sta MLRA 1, Salt Crusi Aquatic Ir Hydrogen Oxidized	apply.) ained Lea 2,4A, an t (B11) nvertebra n Sulfide Rhizospl	aves (B9) nd 4B) ates (B13) Odor (C1) heres (C3)))	W D D S S	Vater Stained Leaves (B9) exception of the American American (B10) arainage Patterns (B10) ary-Season Water Table (C2) attraction Visible on the Americal Imagery (C9)
Remark Soil m Hydro Wetlan Primary	blogy Id Indicators Indicators (Min Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Deposits (E Algal Mat or Cru	1) 1) sits (B2) 33) ust (B4)		indicator F6	ck all that a Water Sta MLRA 1, Salt Crusi Aquatic Ir Hydrogen Oxidized Presence	npply.) ained Lea 2,4A, an t (B11) nvertebra n Sulfide Rhizospl of Redu on Redu	aves (B9) nd 4B) ates (B13) Odor (C1) heres (C3)))	W D D S G S	Vater Stained Leaves (B9) exception of the American American (B10) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on the American Imagery (C9) eomorphic Position (D2)
Remark Soil m Hydro Wetlan Primary	plogy Id Indicators Indicators (Min Surface Water (A) High Water Tab Saturation (A3) Water Marks (B) Sediment Depos Drift Deposits (E) Algal Mat or Cru	nimum of o A1) le (A2) 1) sits (B2) 33) ust (B4) 85) acks (B6)	one is r	indicator F6	ck all that a Water Sta MLRA 1, Salt Crusi Aquatic Ir Hydrogen Oxidized Presence Recent Ire	ained Lea 2,4A, an t (B11) nvertebra n Sulfide Rhizospl of Redu on Redu ils (C6)	aves (B9) ates (B13) Odor (C1 heres (C3 uced Iron o))	WDSSGS	Vater Stained Leaves (B9) exception of the American American (B10) rainage Patterns (B10) ry-Season Water Table (C2) atturation Visible on the American Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5)
Remark Soil m Hydro Wetlan Primary	Dlogy Id Indicators Indicators (Min Surface Water (A) High Water Tab Saturation (A3) Water Marks (B) Sediment Deposits (B) Algal Mat or Cru Iron Deposits (B) Surface Soil Cra	nimum of o A1) le (A2) 1) sits (B2) 33) ust (B4) 85) acks (B6)	one is r	indicator F6	ck all that a Water Sta MLRA 1, Salt Crusi Aquatic Ir Hydrogen Oxidized Presence Recent Iro Tilled So	apply.) ained Lea 2,4A, an t (B11) nvertebra n Sulfide Rhizospl of Redu on Redu ils (C6) or Stresse	aves (B9) ates (B13) Odor (C1 heres (C3 uced Iron o))	WDSG	Vater Stained Leaves (B9) exception of the American American (B10) rainage Patterns (B10) ry-Season Water Table (C2) atturation Visible on the American Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5)
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Remark Soil m Hydro Wetlan Primary	Dlogy Id Indicators Indicators (Min Surface Water (Indicators (Min Surface Water (Indicators (Min Saturation (A3) Water Marks (B) Sediment Deposits (B) Algal Mat or Cru Iron Deposits (B) Surface Soil Cra Inundation Visib Imagery (B7) Sparsely Vegeta Surface (B8) Observations	nimum of of A1) le (A2) 1) sits (B2) 33) ust (B4) 85) acks (B6) ble on Aeri	al cave	required. Che	ck all that a Water Sta MLRA 1, Salt Crust Aquatic Ir Hydrogen Oxidized Presence Recent Iro Tilled Soi Stunted o (D1) (LR)	ained Lea 2,4A, an t (B11) nvertebra n Sulfide Rhizosple on Reducils (C6) or Stresse R A) splain in I	aves (B9) ates (B13) Odor (C1 heres (C3 uced Iron ction in ed Plants Remarks)	(C4)	W	/ater Stained Leaves (B9) except/land 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on derial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)

Surface water provides wetland hydrology.



Wetland Determination Data Form-West	ern Mount	ains, Val	leys, & (Coast Region	Data Point _ Feature Type _	Upland
Project/Site: Fountain Wind		City/County	. Shasta (_		Date: 11/14/1
Applicant/Owner: Avangrid		ony ooung		State: Ca		Juto
Investigator(s): Gabe Youngblood			Section	, Township, Range Se		1E
Landform (hillslope, terrace, etc.) Ditch		Local reli	ef (concave	, convex, none) Conve	ex c	Slope % 2
Subregion (LRR): MLRA 22B Lat:	40.806105°		Lona:		Datum:	
Soil Map Unit Name: Cohasset stony loam, 0 to 30 pe		;	20119 N\	VI Classification: R5U		
Are climatic/hydrologic conditions on the site typical for thi						
Are vegetation [] [Soil [] [Soil hydrology [] [Signif	-					
Are vegetation	,			•		
			· · · · · · · · · · · · · · · · · · ·	·		
Summary of Findings (Attach site map showing sar						
Hydrophytic vegetation? 🔲 🔀 Hydric soil? 🔲 🔀 Wetla	and hydrology?	Is s	sampled are	ea a wetland? 🔲 🗵	Other waters?	\boxtimes
Evaluation of features designated "Other Wall Indicators: Defined bed and bank Scouler Seature Designation: Perennial Intermittent Natural Drainage Artificial Drainage Upland pair to DP38 vegetated ditch.	r Ordin Ephemeral rainage	ary High Wa Blue-lin	iter Mark M e on USGS	Quad Substra	te	
Vegetation (Use Scientific Names) Tree Stratum (Plot Size:) 1. Pinus ponderosa 2	Absolute % Cover 20	Dominant Species? Y		Dominance Test W Number of dominant that are OBL, FACW Total number of dom across all strata:	t species /, or FAC: ninant species	1 (A) 5 (B)
3				Percent of dominant	species that	(D)
4				are OBL, FACW, or		20 (A/B)
50%=	rer:20			Prevalence Index V	Varkahaat	
Sapling/Shrub Stratum (Plot Size:)	% Cover	Species?	Status	Total % Cover of:		
Salix lasiolepis	5	Y	FACW	OBL Species _		_
2 Ceanothus integerrimus	2	Y	_UPL_	FACW Species _		
3				· ·	x 3 =	•
4				FACU Species _		
50%= 3.5 20%=_1.4 Total Cov	rer:7			LIDI Cassiss	^4	0
Herb Stratum (Plot Size:)	% Cover	Species?	Status	UPL Species _		
1. Pteridium aquilinum	5	Y	FACU	Column Totals _		
2. Elymus glaucus	3	Υ	FACU	Prevalence Index =	B/A =	-
Hypericum perforatum	1	N	FACU	Hydrophytic Vegeta	ation Indicators	
Acmispon americanus	1	N	FACU	Rapid Test fo	r Hydrophytic Ve	
5.				Dominance T		
5				Prevalence Ir Morphologica		rovide supportin
7				data in Rema	irks or on a sepai	rate sheet)
3				Wetland Non		
5 50%= 5 20%= 2 Total Cov				Problematic F	Hydrophytic Vege soil and wetland	
Woody/Vine Stratum (Plot Size:)		Species?	Status	be present.	oon and welland	nyarology must
		•		,	., ,	
1				Hydrophytic Veget	ation Present? [
2						
50%=	ver: 0	0				

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71		•

Profile Description : (Describe to the Depth Matrix	Re	dox Features					
	<u>%</u> <u>C</u>	color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-16 7.5YR 3/2 10	0					Loam	sandy
Types: C = Concentration D = Deple	etion RM = F	Reduced Matrix	2	Location: PL	= Pore Lin	ing M = Ma	trix
lydric Soil Indicators: (Applicable	e to all LRRs,	, unless otherw	ise noted)		Indicators	s for Problematic Hydric Soils ³
Histosol (A1)		Sandy	Redox (S	S5)		2	cm Muck (A10)
Histic Epipedon (A2)		Strippe	ed Matrix	(S6)		Re	ed Parent Materials (TF21)
Black Histic (A3)		Loamy	Mucky M	Mineral (exce	ept	Ve	ery Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)		MLRA	1) (F1)			Ve	egetated Sand/Gravel Bars
Depleted Below Dark Surfa	ace (A11)	Loamy	Gleyed I	Matrix (F2)		0	ther (Explain in Remarks)
Thick Dark Surface (A12)		Deplet	ed Matrix	(F3)			
Sandy Mucky Mineral (S1)		Redox	Dark Sur	rface (F6)		³ Indicato	rs of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)		Deplet	ed Dark S	Surface (F7)		wetland h	nydrology must be present.
		Redox	Depress	ions (F8)			
Restrictive Layer (if present): Type	ne.		Denth (I	nches)	Hvdr	ric Soil Prese	ent? /X
RESUICTIVE Layer (II present). Typ			DCPtii (i	1101103/	IIYUI	IC 2011 LIG2	CIII.
Remarks No indicators of hydric soils			Бериг (г		Tryui	IC SUII FTESI	
Remarks No indicators of hydric soils Hydrology Wetland Indicators	were obse	erved.					
Remarks No indicators of hydric soils Hydrology Wetland Indicators Primary Indicators (Minimum of or	were obse	erved. d. Check all tha	nt apply.)			Secondar	y Indicators (2 or more required)
Remarks No indicators of hydric soils Hydrology Wetland Indicators Primary Indicators (Minimum of or Surface Water (A1)	were obse	erved. d. Check all that Water	at apply.) Stained L	Leaves (B9)		Secondar	y Indicators (2 or more required) ater Stained Leaves (B9) except
Remarks No indicators of hydric soils Hydrology Wetland Indicators Primary Indicators (Minimum of or Surface Water (A1) High Water Table (A2)	were obse	erved. d. Check all that Water MLRA	at apply.) Stained L	_eaves (B9) and 4B)		Secondary W	y Indicators (2 or more required) ater Stained Leaves (B9) except ILRA 1,2,4A, and 4B)
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Remarks No indicators of hydric soils Hydrology Wetland Indicators Primary Indicators (Minimum of or Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aeria Imagery (B7) Sparsely Vegetated Conca	were obse	d. Check all that Water MLRA Salt Cr Aquation Hydrog Oxidize Preser Recent Tilled Stunted (D1) (I	st apply.) Stained L 1,2,4A, ust (B11) c Inverted gen Sulfid ed Rhizos ace of Rea t Iron Rea Soils (C6 d or Stres LRR A)	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in) ssed Plants	except C4)	Secondary	y Indicators (2 or more required) later Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) nallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
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Watland Datermination Data Form Western	a Mount	nine Val	love 9 (Paget Dagion	Data Point	Riparian Wetland
Wetland Determination Data Form–Western			•	o .		Date: 11/6/17
Project/Site: Fountain Wind Applicant/Owner: Avangrid		City/County	: Ollasta C	State: Ca		Date:
Caba Varmadalaad			C!!	State: , Township, Range _Se		 ?1F
			_ Section	, Township, Range Conv	ex	Cl 0/ 5
Subregion (LRR): MLRA 22B Lat: 40	795593°	_ Local relie	er (concave	, convex, none) <u>Conv</u> -121.810125°		
Subregion (LRR): Lat: Lat: Lat: Lat: Soil Map Unit Name: Windy and McCarthy stony sandy lo					Datum	
•						
Are climatic/hydrologic conditions on the site typical for this til					1	
Are vegetation ☐/☒soil ☐/☒or hydrology☐/☒significai					J	
Are vegetation []/[X]soil []/[X]or hydrology []/[X]haturally	problemation	c? (If neede	ed, explain i	in Remarks.)		
Summary of Findings (Attach site map showing sampli	ng point loc	ations, trans	sects, impor	tant features, etc.)		
Hydrophytic vegetation? Hydric soil? Wetland					Other waters?	/
						·
Evaluation of features designated "Other Wate Indicators: Defined bed and bank Scour				annod Stroom I	∆/idth	
Indicators: Defined bed and bank Scour _ Feature Designation: Perennial Intermittent Ep	Ordin hemeral	ary riigii wa Blue-lin	e on USGS	appeu Sireaiii (Ouad Substra	viuiii ate	
Natural Drainage Artificial Drain	age	Navigable \	Nater			
Remarks DD do compared a singuism welfend on a co	lana adia		Nowth Co	and of Montanaman	Crack	
Remarks DP documents a riparian wetland on a s	lope adja	cent to the	e North Fo	ork of Montgomery	Сгеек.	
				1		
Vegetation (Use Scientific Names)	Absolute	Dominant		Dominance Test W		
Tree Stratum (Plot Size:)	% Cover	Species?	Status	Number of dominan		3 (^)
1				that are OBL, FACV Total number of dor		(A)
2				across all strata:	·	3 (B)
3				Percent of dominan		100 (4/D)
4	0			are OBL, FACW, or	FAC:	100 (A/B)
50%= Total Cover:				Prevalence Index \	Norksheet	
Sapling/Shrub Stratum (Plot Size: 15')	% Cover	Species?		Total % Cover of:		_
1. Alnus incana	40	Y	FACW	OBL Species _		
2. Spiraea douglasii	5	N	FACW	FACW Species _	x 2 =	0
3. Acer circinatum	5	N	FAC	FAC Species _	x 3 =	0
4. Calocedrus decurrens	5	N	UPL_	FACU Species _	x 4 =	0
50%=_22.5 20%=_11 Total Cover:	55			UPL Species _	x 5 =	0
Herb Stratum (Plot Size: _5')	% Cover	Species?		Column Totals _		
1. Athyrium filix-femina	8	Y	FAC	Prevalence Index =		
2. Carex sp.	5	Y	FAC	Trevalence index =	D/A	_
3. Senecio triangularis	2	N	FACW	Hydrophytic Veget		
4				Rapid Test fo		egetation
5				Dominance T Prevalence I		
6				Morphologic		provide supporting
7					arks or on a sepa	
8				Wetland Nor Problematic		
50%=7.5 20%=3 Total Cover:				¹ Indicators of hydrid		
Woody/Vine Stratum (Plot Size:)		Species?	Status	be present.		. ••
1		•		Hydrophytic Veget	ation Drocont?	
2.				Tryurophytic veget	auvii FiESEIIl!	Ľ /Ľ
50%=						
% Raro Cround in Herb Stratum 85 % Cover of Ric		0				

_		
50	۱ı	c
- 71	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, n

Depth Matrix (nches) Color (moist)	_%_	Redox Features Color (moist)	%	Type ¹	Loc ²	Texture	<u>Remarks</u>
1-12 7.5YR 2.5/2	100	Color (moist)	_/0_	Турс	LUC	Loam	Muck
1.011(2.0/2							High organic content with grea
							feel when rubbed between fing
ypes: C = Concentration D	= Depletion	RM = Reduced Matrix	2	Location: PL	= Pore Lir	ing M = Ma	atrix
dric Soil Indicators: (App	licable to all	LRRs, unless otherv	ise noted))		Indicato	rs for Problematic Hydric Soils ³
Histosol (A1)		Sandy	Redox (S	55)		2	cm Muck (A10)
Histic Epipedon (A2)		Stripp	ed Matrix	(S6)		R	led Parent Materials (TF21)
Black Histic (A3)		_ √ _ Loamy	/ Mucky N	lineral (exce	ept	V	ery Shallow Dark Surface (TF12)
Hydrogen Sulfide (A	4)	MLRA	1) (F1)			V	egetated Sand/Gravel Bars
Depleted Below Dar	-	1) Loamy	Gleyed N	∕latrix (F2)		C	ther (Explain in Remarks)
Thick Dark Surface (A12)	Deple	ted Matrix	(F3)			
Sandy Mucky Minera			Dark Sur	. ,			ors of hydrophytic vegetation and
Sandy Gleyed Matrix	(S4)	•		Surface (F7)		wetland	hydrology must be present.
		Redox	Depressi	ons (F8)			
Restrictive Layer (if presen	t): Tyne: Ro	ck	Denth (li	nches) 12	Hvd	ric Soil Pres	ent? 🗸 l
tosulouve Laver in breaking	i). Typc		Deptii (ii	101103)	11yu	ilo Joli i ios	ociit: V
	-						
Remarks Soils meet the require	ments for ir	ndicator F1 Loam	y Mucky	/ Mineral.			
Remarks Soils meet the require Hydrology Wetland Indicators				/ Mineral.		Seconda	ry Indicators (2 or more required)
Remarks Soils meet the requirer Hydrology Vetland Indicators Primary Indicators (Minimul		quired. Check all th	at apply.)		ovent		ry Indicators (2 or more required)
Remarks Soils meet the requirer Hydrology Vetland Indicators Irimary Indicators (Minimul Surface Water (A1)	n of one is re	quired. Check all th	at apply.) Stained L	eaves (B9)	except	V	Vater Stained Leaves (B9) except
Remarks Soils meet the requirer Hydrology Vetland Indicators Primary Indicators (Minimus Surface Water (A1) High Water Table (A	n of one is re	quired. Check all th Water MLRA	at apply.) Stained L	eaves (B9) and 4B)	except	V	Vater Stained Leaves (B9) except VALRA 1,2,4A, and 4B)
Remarks Soils meet the requirer Hydrology Vetland Indicators Primary Indicators (Minimum Surface Water (A1) High Water Table (A Saturation (A3)	n of one is re	quired. Check all th Water MLRA Salt C	at apply.) Stained L A 1,2,4A, a	eaves (B9) and 4B)	·	V •••• D	Vater Stained Leaves (B9) except VILRA 1,2,4A, and 4B) Varainage Patterns (B10)
Remarks Soils meet the requirer Hydrology Vetland Indicators Primary Indicators (Minimus Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1)	m of one is re	quired. Check all th Water MLRA Salt C Aquat	at apply.) Stained L 1,2,4A, a rust (B11) ic Inverteb	eaves (B9) and 4B) rates (B13)	·	V D	Vater Stained Leaves (B9) except Value (B9) except
Remarks Soils meet the requirer Hydrology Vetland Indicators Primary Indicators (Minimum Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (m of one is re	quired. Check all th —— Water MLR/ —— Salt C —— Aquat —— Hydro	at apply.) Stained L A 1,2,4A, a rust (B11) ic Inverteb gen Sulfid	eaves (B9) and 4B) rates (B13) e Odor (C1))	V C C	Vater Stained Leaves (B9) except Value (B9) except Value (B9) except Value (B10) Value (B1
Remarks Soils meet the requirer Hydrology Vetland Indicators Primary Indicators (Minimul Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3)	m of one is re 2) B2)	quired. Check all th —— Water MLRA —— Salt C —— Aquat —— Hydro —— Oxidiz	at apply.) Stained L A 1,2,4A, a rust (B11) ic Inverteb gen Sulfid ed Rhizos	eaves (B9) and 4B) erates (B13) e Odor (C1) pheres (C3)))	V C C S	Vater Stained Leaves (B9) except VILRA 1,2,4A, and 4B) Prainage Patterns (B10) Pry-Season Water Table (C2) Paturation Visible on Aerial Imagery (C9)
Remarks Soils meet the requirer Hydrology Vetland Indicators Primary Indicators (Minimus Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (E	m of one is re 2) B2)	quired. Check all th Water MLR/ Salt C Aquat Hydro Oxidiz Prese	at apply.) Stained L A 1,2,4A, a rust (B11) ic Inverteb gen Sulfid ed Rhizos nce of Rec	eaves (B9) and 4B) rates (B13) e Odor (C1) pheres (C3)))	V C S	Vater Stained Leaves (B9) except VILRA 1,2,4A, and 4B) Varianage Patterns (B10) Vary-Season Water Table (C2) Vaturation Visible on Vaerial Imagery (C9) Value of the Company of the Compan
Remarks Soils meet the requirer Hydrology Vetland Indicators Primary Indicators (Minimum Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B1) Iron Deposits (B5)	n of one is re 2) B2)	quired. Check all th Water MLRA Salt C Aquat Hydro Oxidiz Prese Recer	at apply.) Stained L A 1,2,4A, a rust (B11) ic Inverteb gen Sulfid ed Rhizos nce of Rec at Iron Rec	eaves (B9) and 4B) rates (B13) e Odor (C1) pheres (C3) duced Iron ())	V 	Vater Stained Leaves (B9) except VILRA 1,2,4A, and 4B) Varianage Patterns (B10) Vary-Season Water Table (C2) Vaturation Visible on Aerial Imagery (C9) Veceomorphic Position (D2) Value Stained Control (D3)
Remarks Soils meet the requirer Hydrology Vetland Indicators Primary Indicators (Minimus Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (E	m of one is re 2) B2) 44) (B6)	quired. Check all th Water MLRA Salt C Aquat Hydro Oxidiz Prese Recer	at apply.) Stained L A 1,2,4A, a rust (B11) ic Inverteb gen Sulfid ed Rhizos nce of Rec at Iron Rec Soils (C6)	eaves (B9) and 4B) rates (B13) e Odor (C1) pheres (C3) duced Iron ())	V C S S S	Vater Stained Leaves (B9) except VILRA 1,2,4A, and 4B) Varianage Patterns (B10) Vary-Season Water Table (C2) Vaturation Visible on Vaerial Imagery (C9) Value of the Company of the Compan
Remarks Soils meet the requirer Hydrology Vetland Indicators Primary Indicators (Minimus Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (E Iron Deposits (B5) Surface Soil Cracks	m of one is re 2) B2) 44) (B6)	quired. Check all th Water MLR/ Salt C Aquat Hydro Oxidiz Prese Recer Tilled Stunte	at apply.) Stained L A 1,2,4A, a rust (B11) ic Inverteb gen Sulfid ed Rhizos nce of Rec at Iron Rec Soils (C6)	eaves (B9) and 4B) rates (B13) e Odor (C1) pheres (C3) duced Iron ())	V 	Vater Stained Leaves (B9) except VILRA 1,2,4A, and 4B) Prainage Patterns (B10) Pry-Season Water Table (C2) Praination Visible on Paerial Imagery (C9) Precomorphic Position (D2) Prainage Patterns (B10) Provided
Remarks Soils meet the requirer Hydrology Vetland Indicators Primary Indicators (Minimus Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B1) Iron Deposits (B5) Surface Soil Cracks Inundation Visible or	m of one is re 2) B2) 44) (B6) Aerial	quired. Check all th Water MLRA Salt C Aquat Hydro Oxidiz Prese Recer Tilled Stunte	at apply.) Stained L A 1,2,4A, a rust (B11) ic Inverteb gen Sulfid ed Rhizos nce of Rec at Iron Rec Soils (C6) ed or Stres (LRR A)	eaves (B9) and 4B) rates (B13) e Odor (C1) pheres (C3) duced Iron () (C4)	V 	Vater Stained Leaves (B9) except VILRA 1,2,4A, and 4B) Varianage Patterns (B10) Vary-Season Water Table (C2) Vaturation Visible on Vaerial Imagery (C9) Vaeomorphic Position (D2) Value Aquitard (D3) Vac-Neutral Test (D5) Value Va
Remarks Soils meet the requirer Hydrology Vetland Indicators Trimary Indicators (Minimum Surface Water (A1) ✓ High Water Table (A ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (E Iron Deposits (B5) Surface Soil Cracks Inundation Visible or Imagery (B7)	m of one is re 2) B2) 44) (B6) Aerial	quired. Check all th Water MLRA Salt C Aquat Hydro Oxidiz Prese Recer Tilled Stunte	at apply.) Stained L A 1,2,4A, a rust (B11) ic Inverteb gen Sulfid ed Rhizos nce of Rec at Iron Rec Soils (C6) ed or Stres (LRR A)	eaves (B9) and 4B) rates (B13) e Odor (C1) pheres (C3) duced Iron (luction in sed Plants) (C4)	V 	Vater Stained Leaves (B9) except Value (B10) Varianage Patterns (B10) Vary-Season Water Table (C2) Vaturation Visible on Vaerial Imagery (C9) Vaeomorphic Position (D2) Value (D3) Value (D5) Value (D6) (LRR A)
Remarks Soils meet the requirer Hydrology Vetland Indicators Primary Indicators (Minimus Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (E Iron Deposits (B5) Surface Soil Cracks Inundation Visible or Imagery (B7) Sparsely Vegetated Surface (B8)	m of one is re 2) B2) (B6) Aerial Concave	quired. Check all th Water MLRA Salt C Aquat Hydro Oxidiz Prese Recer Tilled Stunte (D1) (Cother	at apply.) Stained L A 1,2,4A, a rust (B11) ic Inverteb gen Sulfid ed Rhizos nce of Rec at Iron Rec Soils (C6) ed or Stres (LRR A)	eaves (B9) and 4B) rates (B13) e Odor (C1) pheres (C3) duced Iron (luction in sed Plants) (C4)	V 	Vater Stained Leaves (B9) except VILRA 1,2,4A, and 4B) Varianage Patterns (B10) Vary-Season Water Table (C2) Vaturation Visible on Vaerial Imagery (C9) Vaeomorphic Position (D2) Value Aquitard (D3) Vac-Neutral Test (D5) Value Va
Remarks Soils meet the requirer Hydrology Wetland Indicators Primary Indicators (Minimus Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B1) Iron Deposits (B5) Surface Soil Cracks Inundation Visible or Imagery (B7) Sparsely Vegetated Surface (B8) Field Observations	m of one is re 2) B2) (B6) Aerial Concave	quired. Check all th Water MLRA Salt C Aquat Hydro Oxidiz Prese Recer Tilled Stunte	at apply.) Stained L A 1,2,4A, a rust (B11) ic Inverteb gen Sulfid ed Rhizos nce of Rec at Iron Rec Soils (C6) ed or Stres (LRR A) (Explain in	eaves (B9) and 4B) rates (B13) e Odor (C1) pheres (C3) duced Iron (luction in) sed Plants n Remarks)) (C4)	V 	Vater Stained Leaves (B9) except VILRA 1,2,4A, and 4B) Varinage Patterns (B10) Vary-Season Water Table (C2) Vaturation Visible on Vaerial Imagery (C9) Vaeomorphic Position (D2) Vallow Aquitard (D3) Vac-Neutral Test (D5) Valised Ant Mounds (D6) (LRR A) Varinage Patterns (B10) Varinage Patterns (B10) Value Patterns (B10) Val
Remarks Soils meet the requirer Hydrology Vetland Indicators Primary Indicators (Minimus Surface Water (A1) High Water Table (A Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B1) Iron Deposits (B5) Surface Soil Cracks Inundation Visible or Imagery (B7) Sparsely Vegetated Surface (B8) Field Observations Surface Water Present? Ye	m of one is re 2) B2) (B6) Aerial Concave	quired. Check all th Water MLRA Salt C Aquat Hydro Oxidiz Prese Recer Tilled Stunte (D1) (Other	at apply.) Stained L A 1,2,4A, a rust (B11) ic Inverteb gen Sulfid ed Rhizos nce of Rec at Iron Rec Soils (C6) ed or Stres (LRR A) (Explain in	eaves (B9) and 4B) rates (B13) e Odor (C1) pheres (C3) duced Iron (luction in) sed Plants n Remarks)) (C4)	V 	Vater Stained Leaves (B9) except VILRA 1,2,4A, and 4B) Varinage Patterns (B10) Vary-Season Water Table (C2) Vaturation Visible on Vaerial Imagery (C9) Vaeomorphic Position (D2) Vallow Aquitard (D3) Vac-Neutral Test (D5) Valised Ant Mounds (D6) (LRR A) Varinage Patterns (B10) Varinage Patterns (B10) Value Patterns (B10) Val

Saturation and high water table provide wetland hydrology.



				Data Point	41
Wetland Determination Data Form-Westerr	n Mounta	ains, Vall	eys, & C	Coast Region Feature Type	Upland
Project/Site: Fountain Wind		City/County	Shasta C	County	Date: 11/6/17
Applicant/Owner: Avangrid				State: California	
Caha Vaunahlaad			_ Section	Township, Range Sec. 13, T34N, F	R1E
Landform (hillslope, terrace, etc.) Hillslope		_ Local relie	ef (concave,	convex, none) Convex	Slope %5
Landform (hillslope, terrace, etc.) Hillslope Subregion (LRR): MLRA 22B Lat: 40	.795574°		Long:_	-121.810151° Datum	NAD 83
Soil Map Unit Name: _Windy and McCarthy stony sandy lo					
Are climatic/hydrologic conditions on the site typical for this tir	ne of year?	$\sqrt{ }$ (If n	o, explain ir	n Remarks.)	
Are vegetation Soil Soil Mor hydrology Significan	ntly disturbe	d? Are norn	nal circums	tances present? 🗸 🖊	
Are vegetation \(\sum{\subseteq} \subseteq soil \subseteq \subseteq soil \subseteq representation \(\subseteq \subseteq soil \subseteq representation \subseteq \subseteq \subseteq \subseteq soil \subseteq representation \(\subseteq \	problematic	:? (If neede	ed, explain i	in Remarks.)	
Summary of Findings (Attach site map showing sampli	-		-		
Hydrophytic vegetation?	• .				1/
			-		
Evaluation of features designated "Other Wate				Ctroops Width	
Indicators: Defined bed and bank Scour _ Feature Designation: Perennial Intermittent Ep					
Natural Drainage Artificial Drain	age	Navigable V	Vater	-	
Remarks Upland pair to DP40 riparian wetland ad	iacent to t	he North I	Fork of M	ontgomery Creek	
Opiana pan to Di 40 ripanan wetiana aa	jacent to t	ile ivolui i	OIK OI WI	onigomery oreek.	
Vegetation (Use Scientific Names)	Absolute	Dominant	Indicator	Dominance Test Worksheet	
Tree Stratum (Plot Size: 30')	% Cover	Species?		Dominance Test Worksheet Number of dominant species	
1. Pseudotsuga menziesii	40	Y	FACU	that are OBL, FACW, or FAC:	(A)
2. Abies concolor	30	Υ	UPL	Total number of dominant species	5 (R)
3. Calocedrus decurrens	10	N	UPL	across all strata: Percent of dominant species that	(D)
4				are OBL, FACW, or FAC:	20 (A/B)
50%=_40 20%=_16 Total Cover:	80			Prevalence Index Worksheet	
Sapling/Shrub Stratum (Plot Size:)	% Cover	Species?	Status	Total % Cover of: Multiply b	У
1. Calocedrus decurrens	10	Y	UPL	OBL Species x 1 =	0
2				FACW Species x 2 =	0
3				FAC Species x 3 =	0
4				FACU Species x 4 =	0
50%= <u>5</u> 20%= <u>2</u> Total Cover:	10			UPL Species x 5 =	
Herb Stratum (Plot Size: 5'	% Cover	Species?		Column Totals (A)	
1. Carex sp.		<u>Y</u>	FAC	Prevalence Index = B/A =	
2. Pteridium aquilinum		Y	FACU		_
3				Hydrophytic Vegetation Indicator	
4				Rapid Test for Hydrophytic V Dominance Test is >50%	egetation
5				Prevalence Index is < 3.01	
6				Morphological Adaptations ¹ (data in Remarks or on a sepa	
7				Wetland Non-Vascular Plants	
8				Problematic Hydrophytic Veg	jetation1 (Explain)
50%=				¹ Indicators of hydric soil and wetland be present.	d nydrology must
Woody/Vine Stratum (Plot Size:)		•		,	
1				Hydrophytic Vegetation Present?	
2					
50%=		0			
% Bare Ground in Herb Stratum 85 % Cover of Bio	tic Crust _	U			

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JU.	ш	

Depth	Matrix		Redox Features					
<u>inches</u>))-16	Color (moist) 2.5YR 3/4	<u>%</u> 100	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture Loam	Remarks Gravelly
Types: (C = Concentration D =	Depletion	RM = Reduced Matrix		– – – – ² Location: PL	= Pore Lin	ing M = Ma	trix
ydric S	oil Indicators: (App	licable to all	LRRs, unless otherw	ise noted	d)		Indicator	s for Problematic Hydric Soils
	Histosol (A1)		Sandy	Redox (S5)		2	cm Muck (A10)
	Histic Epipedon (A2)		Stripp	ed Matrix	(S6)		R	ed Parent Materials (TF21)
	Black Histic (A3)		Loamy	/ Mucky N	Mineral (exce	ept	Ve	ery Shallow Dark Surface (TF12
	Hydrogen Sulfide (A	1)	MLRA	1) (F1)			Ve	egetated Sand/Gravel Bars
	Depleted Below Dark	Surface (A	11) Loamy	/ Gleyed	Matrix (F2)		0	ther (Explain in Remarks)
	Thick Dark Surface (A	A12)	Deple	ed Matrix	(F3)			
	Sandy Mucky Minera	I (S1)	Redox	Dark Su	rface (F6)		³ Indicato	rs of hydrophytic vegetation and
	Sandy Gleyed Matrix	(S4)	Deplet	ted Dark	Surface (F7)		wetland I	hydrology must be present.
			Redox	Depress	sions (F8)			
Restric	tive Layer (if present	:): Type:		Depth (Inches)	Hydı	ric Soil Pres	ent? /X
No inc	dicators of hydric	soils were		· · · · · · · · · · · · · · · · ·	,			
No inc	dicators of hydric	soils were						
No inc	dicators of hydric							y Indicators (2 or more required
No incomplete Hydro Wetlan Primary	dicators of hydric		e observed.	at apply.)			Secondar	
No inc Hydro Wetlan Primary	dicators of hydric plogy Id Indicators y Indicators (Minimun	n of one is re	e observed. equired. Check all the	at apply.)	Leaves (B9)		Secondar	y Indicators (2 or more required
No inc	blogy Indicators (Minimum Surface Water (A1)	n of one is re	e observed. equired. Check all the Water MLRA	at apply.) Stained I	Leaves (B9) and 4B)		Secondar W M	y Indicators (2 or more required ater Stained Leaves (B9) exce
No ind	blogy Indicators Y Indicators (Minimum Surface Water (A1) High Water Table (A)	n of one is re	e observed. equired. Check all the MLRA Salt C	at apply.) Stained I A 1,2,4A, rust (B11	Leaves (B9) and 4B)		Secondar W D	y Indicators (2 or more required ater Stained Leaves (B9) excel
No inc	blogy Id Indicators Indicators (Minimur Surface Water (A1) High Water Table (A: Saturation (A3)	n of one is ro	e observed. equired. Check all the Water MLRA Salt C Aquati	at apply.) Stained I A 1,2,4A, rust (B11) c Inverte	Leaves (B9) and 4B)	except	<u>Secondar</u> W Di Di	y Indicators (2 or more required later Stained Leaves (B9) excel ILRA 1,2,4A, and 4B) rainage Patterns (B10)
No inc	dicators of hydric blogy d Indicators y Indicators (Minimum Surface Water (A1) High Water Table (A: Saturation (A3) Water Marks (B1)	n of one is ro	e observed. equired. Check all the Water MLRA Salt C Aquati	at apply.) Stained I A 1,2,4A, rust (B11 c Invertel	Leaves (B9) and 4B)) brates (B13)	except	Secondar W M Di Di Si	y Indicators (2 or more required ater Stained Leaves (B9) excel ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2)
No inc	dicators of hydric blogy Id Indicators y Indicators (Minimur Surface Water (A1) High Water Table (A: Saturation (A3) Water Marks (B1) Sediment Deposits (I	n of one is re 2) 32)	e observed. equired. Check all the Water MLRA Salt C Aquati Hydro Oxidiz	at apply.) Stained I A 1,2,4A, rust (B11 c Invertel gen Sulfic	Leaves (B9) and 4B)) brates (B13) de Odor (C1)	except	Secondar W Di Di Si A	y Indicators (2 or more required fater Stained Leaves (B9) excell ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2)
Hydrc Wetlan Primary	dicators of hydric blogy Id Indicators y Indicators (Minimun Surface Water (A1) High Water Table (A: Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5)	n of one is re 2) 32) 4)	e observed. equired. Check all the Water MLRA Salt C Aquati Hydro Oxidiz Prese	at apply.) Stained I A 1,2,4A, rust (B11) c Invertel gen Sulfic ed Rhizo	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3	except	Secondar W Di Di Si A	y Indicators (2 or more required fater Stained Leaves (B9) excel ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9)
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Hydro Wetlan Primary	dicators of hydric blogy Id Indicators y Indicators (Minimur Surface Water (A1) High Water Table (A: Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Imagery (B7)	n of one is re 2) 32) 4) (B6) Aerial	equired. Check all the Water MLRA Salt C Aquati Hydro Oxidiz Preser Recer Tilled Stunte (D1) (at apply.) Stained I A 1,2,4A, rust (B11) c Invertel gen Sulfic ed Rhizo nce of Re t Iron Re Soils (C6 d or Stree LRR A)	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) educed Iron (duction in b) ssed Plants	except	Secondar —— W M —— Di —— Si —— G —— G —— F/ —— F/	y Indicators (2 or more required fater Stained Leaves (B9) excell flace 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) faturation Visible on ferial Imagery (C9) fleomorphic Position (D2) finallow Aquitard (D3) flace (D5)
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Hydro Wetlan Primary	dicators of hydric blogy d Indicators y Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B3) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Imagery (B7) Sparsely Vegetated (B3) Surface (B8) Observations Water Present? Yes	n of one is received. 2) 32) 4) (B6) Aerial Concave	equired. Check all the Water MLRA Salt C Aquati Hydro Oxidiz Prese Recer Tilled Stunte (D1) (at apply.) Stained I A 1,2,4A, rust (B11) c Invertel gen Sulfic ed Rhizo nce of Re t Iron Re Soils (C6 d or Stre LRR A) (Explain i	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) educed Iron (duction in b) ssed Plants in Remarks)	except () (C4)	Secondar —— W M —— Di —— Sa —— G —— SI —— F/ —— Fr	y Indicators (2 or more required fater Stained Leaves (B9) excellar 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)



Wotland Determination Data Form West	orn Mount	nine Val	love 8.0	Paget Dagion	Data Point Feature Type	Pere	42 nnial Stream
Wetland Determination Data Form–West			•	· ·			
Project/Site: Fountain Wind Applicant/Owner: Avangrid		City/County	·	County	California	Date:	11/7/17
						 R1F	-
Investigator(s): Gabe Youngblood			_ Section	, Township, Range S		~ · · ·	o _/ 2
Landform (hillslope, terrace, etc.) Drainage Subregion (LRR): MLRA 22B Lat:	40.790275°	_ Local relie	ef (concave	-121.833337°		Slope	%
Subregion (LRR): <u>MLRA 22B</u> Lat: Lat:			0			1: <u>147</u>	
Are climatic/hydrologic conditions on the site typical for thi	s time of year?	√ / (If n	o, explain ii	n Remarks.)			
Are vegetation □/⊠soil □/⊠or hydrology□/⊠signif	icantly disturbe	d? Are norr	nal circums	stances present?			
Are vegetation /Ssoil /Sor hydrology /Ahatur	ally problemation	:? (If neede	ed, explain i	in Remarks.)			
Summary of Findings (Attach site map showing sar Hydrophytic vegetation?	and hydrology?	✓ □ Is s	sampled are		Dther waters? ✓]/	
Evaluation of features designated "Other Wallndicators: Defined bed and bank Scoules Seature Designation: Perennial Intermittent Natural Drainage Artificial Drainage	ır <u> </u>	ary High Wa Blue-lin	iter Mark M e on USGS	Quad ✓ Substr	Width 8' rate Cobble, gravel, s.	and	
Remarks _{DP} documents ordinary high water ma	ark of Cedar	Creek.					
Vegetation (Use Scientific Names) Tree Stratum (Plot Size:)	Absolute % Cover	Dominant Species?		Dominance Test Number of domina	nt species		
1				that are OBL, FAC			_ (A)
2				Total number of do across all strata:	minani species		_ (B)
3				Percent of domina			
4				are OBL, FACW, o	r FAC:		_ (A/B)
50%= Total Cov	/er:0			Prevalence Index	Worksheet		
Sapling/Shrub Stratum (Plot Size:)	% Cover	Species?	Status	Total % Cover of:	Multiply b	У	
1				OBL Species	x 1 =	0	_
2				FACW Species	x 2 =	0	
3				FAC Species	x 3 =	0	
4				FACU Species	x 4 =	0	
50%= Total Cov	ver:0			UPL Species			
Herb Stratum (Plot Size:)	% Cover	Species?	Status	Column Totals			— (B)
1				Prevalence Index :			(5)
2.				Hydrophytic Vege	station Indicator	c	
3				Rapid Test			ion
4				Dominance	Test is >50%	ogotati	0
5				Prevalence	Index is $\leq 3.0^1$		
6				Morphologic	cal Adaptations† (narks or on a sepa	provide arato s	€ supporting
7				Wetland No	n-Vascular Plants	3 ¹	licety
8				Problematic	: Hydrophytic Veg	jetatior	
50%= Total Cov				¹ Indicators of hydri be present.	ic soil and wetland	d hydro	ology must
Woody/Vine Stratum (Plot Size:)				De present.			_
1				Hydrophytic Vege	etation Present?		3
2							
50%= Total Cov	ver:0						
% Bare Ground in Herb Stratum % Cover of	Biotic Crust	0					

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JU.	ш	

Profile De Depth	e scription : (D Matri			Redox Features					
(<u>inches</u>)	Color (m	<u>noist)</u>	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks
Types: C	= Concentratio	n D = Dep	letion I	RM = Reduced Matri	ζ :	 ² Location: PL	= Pore Lir	ning M = Matrix	
lydric So	il Indicators:	(Applicab	le to all	LRRs, unless other	wise noted	d)		Indicators for	Problematic Hydric Soils
H	listosol (A1)			Sand	ly Redox (S5)		2 cm N	Muck (A10)
H	listic Epipedor	n (A2)		Strip	ped Matrix	(S6)		Red P	arent Materials (TF21)
B	Black Histic (A3	3)		Loar	ny Mucky N	Mineral (exc	ept	Very S	Shallow Dark Surface (TF12
H	lydrogen Sulfic	de (A4)		MLR	A 1) (F1)			Vegeta	ated Sand/Gravel Bars
D	epleted Below	v Dark Sur	face (A1	1) Loar	ny Gleyed	Matrix (F2)		Other	(Explain in Remarks)
	hick Dark Surf	, ,		Depl	eted Matrix	x (F3)			
S	andy Mucky N	/lineral (S1)	Red	ox Dark Su	ırface (F6)		³ Indicators of	hydrophytic vegetation and
S	andy Gleyed I	Matrix (S4)				Surface (F7)		wetland hydro	ology must be present.
				Red	x Depress	sions (F8)			
Restricti	ve Layer (if p	resent): T	ype:		Depth (Inches)	Hyd	ric Soil Present?	×
Remark	s Is pit scoure	ed chann	el.						
Remark No soil	s pit scoure	ed chann	el.						
Remark No soil Hydrol Wetland	ls pit scoure					1		Secondary Ind	licators (2 or more required)
Remark No soil Hydrol Wetland Primary	ls pit scoure logy Indicators Indicators (Mi	nimum of c		quired. Check all t	hat apply.)		oveent	_	licators (2 or more required)
Remark No soil Hydrol Wetland Primary	ls pit scoure logy Indicators Indicators (Mi	nimum of o		quired. Check all t	hat apply.)	Leaves (B9)	except	Water	Stained Leaves (B9) excep
Remark No soil Hydrol Wetland Primary S H	logy Indicators Indicators (Mi	nimum of o		quired. Check all t Wate MLF	hat apply.) er Stained RA 1,2,4A,	Leaves (B9) and 4B)	except	Water	Stained Leaves (B9) excep A 1,2,4A, and 4B)
Remark No soil Hydrol Wetland Primary	ls pit scoure logy Indicators Indicators (Mi aurface Water ligh Water Tak saturation (A3)	nimum of o (A1) ble (A2)		quired. Check all t Wate MLF Salt	hat apply.) er Stained RA 1,2,4A, Crust (B11	Leaves (B9) and 4B)	·	Water MLRA Draina	Stained Leaves (B9) except 1,2,4A, and 4B) age Patterns (B10)
Remark No soil Hydrol Wetland Primary S H S W	logy Indicators Indicators (Mindicators (Min	nimum of c (A1) ble (A2)		quired. Check all t Wate MLF Salt Aqua	hat apply.) or Stained or A 1,2,4A, Crust (B11	Leaves (B9) and 4B)) brates (B13)	-	Water MLRA Draina Dry-Se	Stained Leaves (B9) except A 1,2,4A, and 4B) age Patterns (B10) eason Water Table (C2)
Remark No soil Hydrol Wetland Primary	ls pit scoure logy d Indicators Indicators (Mi aurface Water ligh Water Takaturation (A3) Vater Marks (E dediment Depo	nimum of ((A1) ble (A2) 31) osits (B2)		quired. Check all t Wate MLF Salt Aqua	hat apply.) er Stained RA 1,2,4A, Crust (B11 itic Inverte ogen Sulfi	Leaves (B9) and 4B)) brates (B13) de Odor (C1))	Water MLRA Draina Dry-Se Satura	Stained Leaves (B9) except 1,2,4A, and 4B) age Patterns (B10) beason Water Table (C2) agin 1,2,4A, and 4B)
Remark No soil Hydrol Wetland Primary S H S S D	ls pit scoure logy d Indicators Indicators (Mi surface Water ligh Water Tak saturation (A3) Vater Marks (E dediment Depo	nimum of o (A1) ble (A2) B1) osits (B2) B3)		quired. Check all to MLF MLF Salt Aqua Hydr	hat apply.) er Stained RA 1,2,4A, Crust (B11 tic Inverte ogen Sulfic	Leaves (B9) and 4B)) brates (B13) de Odor (C1) espheres (C3))	Water MLRA Draina Dry-Se Satura	Stained Leaves (B9) except A 1,2,4A, and 4B) age Patterns (B10) eason Water Table (C2) attion Visible on Imagery (C9)
Remark No soil Hydrol Wetland Primary S H S S A A	ls pit scoure logy Indicators Indicators (Mi Jurface Water ligh Water Tak Jurface Marks (E	nimum of o (A1) ble (A2) B1) osits (B2) B3) ust (B4)		quired. Check all to the control of	hat apply.) er Stained RA 1,2,4A, Crust (B11 tic Inverte ogen Sulfic ized Rhizo ence of Re	Leaves (B9) and 4B)) brates (B13) de Odor (C1) espheres (C3 educed Iron ())	Water MLRA Draina Dry-Se Satura Aerial Geome	Stained Leaves (B9) except A 1,2,4A, and 4B) age Patterns (B10) eason Water Table (C2) ation Visible on Imagery (C9) orphic Position (D2)
Remark No soil Hydrol Wetland Primary S H S H A In	ls pit scoure logy Indicators Indicators (Mi Jurface Water Ligh Water Take Jurface Marks (Electiment Deposits (I Jugal Mat or Crion Deposits (I Jugal Mat o	nimum of c (A1) ble (A2) B1) posits (B2) B3) ust (B4)		quired. Check all to MLF MLF Salt Aqua Hydr Oxid Pres	hat apply.) er Stained RA 1,2,4A, Crust (B11 tic Inverte ogen Sulfic ized Rhizo ence of Re	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3 educed Iron ())	Water MLRA Draina Dry-Se Satura Aerial ✓ Geome	Stained Leaves (B9) except 1,2,4A, and 4B) age Patterns (B10) beason Water Table (C2) attion Visible on agery (C9) bright Position (D2) and Aquitard (D3)
Remark No soil Hydrol Wetland Primary S H S In S	ls pit scoure logy d Indicators Indicators (Mi Jurface Water ligh Water Tak Jaturation (A3) Vater Marks (E Jurface Soil Cr	nimum of o (A1) ble (A2) B1) osits (B2) B3) ust (B4) B5) acks (B6)	one is re	quired. Check all to the control of	hat apply.) or Stained RA 1,2,4A, Crust (B11 dic Inverte ogen Sulfic ized Rhizo ence of Re ent Iron Re d Soils (Ce	Leaves (B9) and 4B)) brates (B13) de Odor (C1) espheres (C3) educed Iron (eduction in 66)))	Water MLRA Draina Dry-Se Satura Aerial ✓ Geome Shallo	Stained Leaves (B9) except A 1,2,4A, and 4B) age Patterns (B10) eason Water Table (C2) ation Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5)
Remark No soil Hydrol Wetland Primary S H S In S In	Is pit scoure Ilogy Indicators Indicators (Minicators (Minicators (Minicators (Minicators (Minicators (Minicators (Minicators (Minicator)	nimum of o (A1) ble (A2) B1) osits (B2) B3) ust (B4) B5) acks (B6)	one is re	quired. Check all to the control of	hat apply.) er Stained RA 1,2,4A, Crust (B11 tic Inverte ogen Sulfic ized Rhizo ence of Re ent Iron Re d Soils (Ce ted or Stre	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3 educed Iron ())	Water MLRA Draina Dry-Se Satura Aerial ✓ Geome Shallo FAC-N Raiseo	Stained Leaves (B9) except A 1,2,4A, and 4B) age Patterns (B10) beason Water Table (C2) attion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) Jeutral Test (D5) d Ant Mounds (D6) (LRR A)
Remark No soil Hydrol Wetland Primary S H S In S In	ls pit scoure logy Indicators Indicators (Mi Jurface Water Jigh Water Take Jurface Marks (Electiment Deposits (Il Jurface Mat or Critical Mater Soil Critical Mater Marks (Burface Soil Critical Material Material Critical Material Materia	nimum of c (A1) ole (A2) B1) osits (B2) B3) ust (B4) B5) acks (B6) ole on Aeri	one is re	quired. Check all to MLF Wate MLF Salt Aqua Hydr Oxid Pres Rece Tille Stun (D1)	hat apply.) er Stained RA 1,2,4A, Crust (B11 tic Inverte ogen Sulfic ized Rhizo ence of Re ent Iron Re d Soils (Ce ted or Stre (LRR A)	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) educed Iron (eduction in 6) sssed Plants)) (C4)	Water MLRA Draina Dry-Se Satura Aerial ✓ Geome Shallo FAC-N Raiseo	Stained Leaves (B9) except A 1,2,4A, and 4B) age Patterns (B10) eason Water Table (C2) ation Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5)
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Remark No soil Hydrol Wetland Primary S H S In S Field Ob	ls pit scoure logy d Indicators Indicators (Mi Jurface Water ligh Water Tak Jurface Marks (E Jurface Soil Cr Jurface May Jurface (B8) Jurface (B8) Jurface Soil Cr Jurface (B8) Jurface (B8)	nimum of of (A1) ble (A2) B1) bits (B2) B3) ust (B4) B5) acks (B6) ble on Aeri	al ave	quired. Check all to the control of	hat apply.) er Stained RA 1,2,4A, Crust (B11 tic Inverte ogen Sulfic ized Rhizo ence of Re ent Iron Re d Soils (Ce ted or Stre (LRR A) r (Explain	Leaves (B9) and 4B)) brates (B13) de Odor (C1) espheres (C3) educed Iron (eduction in 6) essed Plants in Remarks))) (C4)	Water MLRA Draina Dry-Se Satura Aerial ✓ Geom Shallo FAC-N Raisec Frost-I	Stained Leaves (B9) except A 1,2,4A, and 4B) age Patterns (B10) eason Water Table (C2) ation Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
Remark No soil Hydrol Wetland Primary S H S In S Field Ob Surface V	Is pit scoure Ilogy Indicators Indicators (Mi Indic	nimum of o (A1) ble (A2) B1) sits (B2) B3) ust (B4) B5) acks (B6) ble on Aeri ated Conc	al ave	quired. Check all to the control of	hat apply.) er Stained RA 1,2,4A, Crust (B11 tic Inverte ogen Sulfic ized Rhizo ence of Re ent Iron Re d Soils (Ce ted or Stre (LRR A) r (Explain	Leaves (B9) and 4B)) brates (B13) de Odor (C1) espheres (C3) educed Iron (eduction in 65) essed Plants in Remarks))) (C4)	Water MLRA Draina Dry-Se Satura Aerial ✓ Geome Shallo FAC-N Raiseo	Stained Leaves (B9) except A 1,2,4A, and 4B) age Patterns (B10) eason Water Table (C2) ation Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
Remark No soil Hydrol Wetland Primary S H S In In S Field Ok Surface V Water Ta	ls pit scoure logy d Indicators Indicators (Mi Jurface Water ligh Water Tak Jurface Marks (E Jurface Soil Cr Jurface May Jurface (B8) Jurface (B8) Jurface Soil Cr Jurface (B8) Jurface (B8)	nimum of of (A1) ble (A2) B1) bits (B2) B3) ust (B4) B5) acks (B6) ble on Aeri	al ave	quired. Check all to MLF MLF Salt Aqua Pres County	hat apply.) er Stained RA 1,2,4A, Crust (B11 tic Inverte ogen Sulfic ized Rhizo ence of Re ent Iron Re d Soils (Ce ted or Stre (LRR A) r (Explain	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) educed Iron (eduction in 6) ssed Plants in Remarks))) (C4)	Water MLRA Draina Dry-Se Satura Aerial ✓ Geom Shallo FAC-N Raisec Frost-I	Stained Leaves (B9) except A 1,2,4A, and 4B) age Patterns (B10) eason Water Table (C2) ation Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A) Heave Hummocks (D7)

Surface water provides wetland hydrology.



W.II. 18					Data Point		43
Wetland Determination Data Form–Western	n Mounta	ains, Vall	eys, & C	Coast Region	Feature Type	Ripar	an wetland
Project/Site: Fountain Wind		City/County	Shasta C	County		Date:	8/28/18
Applicant/Owner: Avangrid				State: <u>C</u>	A		_
Investigator(s): Gabe Youngblood, Alison Loveless			_ Section	, Township, Range S	ec. 23, T34N, I	R1E	
Landform (hillslope, terrace, etc.) Floodplain		_ Local relie	ef (concave	, convex, none) Cond	cave	Slope	%3
Landform (hillslope, terrace, etc.) Floodplain Subregion (LRR): MLRA 22B Lat: 40 Soil Map Unit Name: Lyonsville-Jiggs complex, deep, 10	.790273°		Long:_	-121.833322°	Datur	n: <u>NA</u>	4D 83
Are climatic/hydrologic conditions on the site typical for this til	-				-		
Are vegetation \(\subseteq \subseteq \subseteq \sold soil \(\subseteq \sub	•			·	J		
Are vegetation \(\sum \frac{1}{\infty} \soil \(\sin \frac{1}{\infty} \sor \text{ hydrology} \(\sum \frac{1}{\infty} \text{ haturally} \)	problemation	c? (If neede	ed, explain i	in Remarks.)			
Summary of Findings (Attach site map showing sampli	ing point loc	ations, trans	ects, impor	tant features, etc.)			
Hydrophytic vegetation? Hydric soil? Wetland	l hydrology?	√	sampled are	ea a wetland? 🔽 🗆	other waters? ✓	<u> </u>	
Evaluation of features designated "Other Wate	rs of the	United St	ates"				
Indicators: Defined bed and bank Scour _	Ordina	ary High Wa	ter Mark Ma	apped _ <pre>Stream</pre>	Width Variable		
Feature Designation: Perennial Intermittent Ep Natural Drainage Artificial Drain	hemeral lage	Blue-lin Navigable V	e on USGS Vater	Quad Substr	ate <u>vegetated</u>		
Remarks _{DP} documents riparian wetland associate	ted with C	edar Cree	k. Veget	ation and soils we	re disturbed f	om th	e recent
replacement of the culvert with a bridge.							
Vegetation (Use Scientific Names) Tree Stratum (Plot Size:)	Absolute <u>% Cover</u>	Dominant Species?		Dominance Test \			
1		•		Number of dominate that are OBL, FAC'		1	(A)
2				Total number of do			
3				across all strata: Percent of dominar	t species that		_ (B)
4				are OBL, FACW, o		100	_ (A/B)
50%= Total Cover:				Drovolonoo Indov	Maulanhaat		
Sapling/Shrub Stratum (Plot Size:)		Species?	Status	Prevalence Index Total % Cover of:		OV	
1				OBL Species			
2				FACW Species		_	
3				· ·	x 3 =	_	
4				FACU Species			
50%= Total Cover:	0				x 5 =		
Herb Stratum (Plot Size: 5	% Cover	Species?	Status	· ·	0 (A)		— (B)
1. Juncus sp. (NIF)	2	Y	FAC+	Prevalence Index =			(b)
2. Grass NIF (Glyceria?)	2	Y	FAC+	Trevalence muck -	- D/A		
3				Hydrophytic Vege			
4				Rapid Test 1	or Hydrophytic \ Test is >50%	/egetati	on
5				Prevalence			
6				Morphologic	cal Adaptations ¹ arks or on a sep		
7				Wetland No			neet)
8				Problematic	Hydrophytic Ve	getation	
50%=2 20%=8 Total Cover:				¹ Indicators of hydri be present.	c soil and wetlan	d hydro	ology must
Woody/Vine Stratum (Plot Size:)				,			_
1				Hydrophytic Vege	tation Present?	· 🗸 /	_
2							
50%= 20%= Total Cover:		0					
% Bare Ground in Herb Stratum 96 % Cover of Bio	ouc Crust _	<u> </u>		1			

_		
50	۱ı	c
- 71	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, n

rofile D Depth	escription: (De Matrix		o the de		d to docum Features	ent the ind	dicator or co	onfirm the a	absence of i	ndicators.
inches)	Color (m		%		r (moist)	%	Type ¹	Loc ²	Texture	Remarks
)-10	7.5YR 4/1		90	5YR 3/6		10	C C	<u> </u>	LS	Loamy sand
10+	Rock									-
				-						
				·						
Types: (C = Concentration	—— – ı D = D∈	epletion	RM = Red	uced Matrix		Location: P	L = Pore Lir	 ning M = Ma	trix
	oil Indicators:		•							s for Problematic Hydric Soils
•	Histosol (A1)	(, ibbiloa			Sandy					cm Muck (A10)
	Histic Epipedon	(A2)		_	,	ed Matrix	-			ed Parent Materials (TF21)
	Black Histic (A3			_			Aineral (ex o	cept		ery Shallow Dark Surface (TF12
	Hydrogen Sulfid				-	1 (F1)	(egetated Sand/Gravel Bars
	Depleted Below		urface (<i>l</i>	A11)			Matrix (F2)			ther (Explain in Remarks)
	Thick Dark Surfa			,	,	ted Matrix				,
	Sandy Mucky M	•	•	_	•		rface (F6)		³ Indicato	rs of hydrophytic vegetation and
	Sandy Gleyed N			_	Deple	ted Dark :	Surface (F7	')		hydrology must be present.
				_	Redox	k Depress	ions (F8)			
	l' l /'f		E	Pock		Davida /	10	111	de Cell Dece	
D 1 - 1 - 1	tive i aver (it br	esent):	Type: T	\UUK		Depth (I	Inches) 10	нуа	ric Soil Pres	ent? ▼ /
Restric			J1							
Remar	ks									
Remar					but meet	t require	ements for	r indicato	r F3 Deple	eted Matrix.
Remar	ks disturbed dur				but meet	t require	ements for	r indicato	r F3 Deple	eted Matrix.
Remark Soils of Hydro Wetlan	ks disturbed dur	ing brid	dge ins	stallation,				r indicato	•	eted Matrix. y Indicators (2 or more required)
Remark Soils of Hydro Wetlan Primary	ks disturbed dur blogy d Indicators y Indicators (Mir	ing bric	dge ins	stallation,	Check all th	at apply.)			Secondar	y Indicators (2 or more required)
Remark Soils of Hydro Wetlan Primary	disturbed dur plogy Ind Indicators y Indicators (Mir	nimum of	dge ins	stallation,	Check all th	at apply.) Stained I	Leaves (B9)		Secondar	y Indicators (2 or more required) ater Stained Leaves (B9) excep
Remari Soils of Hydro Wetlan Primary	ks disturbed dur blogy d Indicators y Indicators (Mir Surface Water (High Water Tab	nimum of	dge ins	stallation,	Check all th Water MLRA	at apply.) Stained I	Leaves (B9)		Secondar W	y Indicators (2 or more required) ater Stained Leaves (B9) excep ILRA 1,2,4A, and 4B)
Remari Soils of Hydro Wetlan Primary	disturbed dur blogy d Indicators y Indicators (Mir Surface Water (High Water Tab Saturation (A3)	nimum of (A1) le (A2)	dge ins	stallation,	Check all th Water MLRA Salt C	at apply.) Stained I A 1,2,4A, Trust (B11)	_eaves (B9) and 4B)) except	Secondar W D	y Indicators (2 or more required) fater Stained Leaves (B9) excep ILRA 1,2,4A, and 4B) rainage Patterns (B10)
Remark Soils of Hydro Wetlan Primary	disturbed dur blogy ad Indicators y Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B	nimum of (A1) le (A2)	dge ins	stallation,	Check all th Water MLRA Salt C Aquat	at apply.) Stained I A 1,2,4A, Trust (B11)	_eaves (B9) and 4B)) brates (B13) except	Secondar W D D	y Indicators (2 or more required) /ater Stained Leaves (B9) excep ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2)
Remark Soils of Hydro Wetlan Primary	disturbed dur blogy ad Indicators y Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Depos	nimum of (A1) le (A2) 1) sits (B2)	dge ins	stallation,	Check all th Water MLRA Salt C Aquat Hydro	at apply.) Stained I A 1,2,4A, rust (B11) ic Invertel gen Sulfic	Leaves (B9) and 4B)) brates (B13 de Odor (C7) except	Secondar W W W D D D Secondar Secondar W W W D W D W D W Secondar W W W W W W W W W	y Indicators (2 or more required) fater Stained Leaves (B9) excep fILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on
Remark Soils of Hydro Wetlan Primary	disturbed dur plogy Id Indicators Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Deposits (E	nimum of (A1) le (A2) 1) sits (B2)	dge ins	stallation,	Check all th Water MLRA Salt C Aquat Hydro Oxidiz	at apply.) Stained I A 1,2,4A, Trust (B11) ic Invertel gen Sulfic	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C.) except	Secondar W D D S	y Indicators (2 or more required) ater Stained Leaves (B9) exception ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9)
Remark Soils of Hydro Wetlan Primary	disturbed dur blogy d Indicators y Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Deposits (E Algal Mat or Cru	nimum of (A1) (A2) (A2) (A3) (A3) (A3) (A4) (A4)	dge ins	stallation,	Check all th Water MLRA Salt C Aquat Hydro Oxidiz Prese	at apply.) Stained I A 1,2,4A, Trust (B11) ic Invertel gen Sulfic zed Rhizon	Leaves (B9) and 4B)) brates (B13 de Odor (C7 spheres (C3 duced Iron) except	Secondar W D D S ✓ G	y Indicators (2 or more required) (ater Stained Leaves (B9) exception of the property of the p
Remark Soils of Hydro Wetlan Primary	disturbed dur plogy Id Indicators Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Deposits (E	nimum of (A1) le (A2) 1) sits (B2) 33) ust (B4)	dge ins	stallation,	Check all th Water MLRA Salt C Aquat Hydro Oxidiz Prese Recer	at apply.) Stained I A 1,2,4A, Trust (B11) ic Invertel gen Sulfice and Rhizon nce of Re at Iron Re	Leaves (B9) and 4B) brates (B13 de Odor (C1 spheres (C3 duced Iron duction in) except	Secondar W D D Sc A G SI	y Indicators (2 or more required) (ater Stained Leaves (B9) exception of the stained Leaves (B9) exception of the stainage Patterns (B10) (ry-Season Water Table (C2) (caturation Visible on the stain of the stain o
Remark Soils of Hydro Wetlan Primary	disturbed dur blogy d Indicators y Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Deposits (E Algal Mat or Crulinon Deposits (E	nimum of (A1) le (A2) 1) sits (B2) 33) ust (B4) B5) acks (B6)	dge ins	stallation,	Check all th Water MLR/ Salt C Aquat Hydro Oxidiz Prese Recer Tilled	at apply.) Stained I A 1,2,4A, Trust (B11) ic Invertel gen Sulfice and Rhizon nce of Re nt Iron Re Soils (C6	Leaves (B9) and 4B) brates (B13 de Odor (C1 spheres (C3 duced Iron duction in	except (c) (c) (c) (c)	Secondar W D S: A G S: F	y Indicators (2 or more required) Vater Stained Leaves (B9) exception ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on aerial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5)
Remari Soils of Hydro Wetlan Primary	disturbed dur blogy d Indicators y Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Deposits (E Algal Mat or Cru Iron Deposits (E Surface Soil Cra Inundation Visib	nimum of (A1) le (A2) 1) sits (B2) 33) ust (B4) B5) acks (B6)	dge ins	stallation,	Check all th Water MLR/ Salt C Aquat Hydro Oxidiz Prese Recer Tilled Stunte	at apply.) Stained I A 1,2,4A, Trust (B11) ic Invertel gen Sulfice and Rhizon nce of Re nt Iron Re Soils (C6	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3 duced Iron duction in	except (c) (c) (c) (c)	Secondar —— W M —— D —— Si —— G —— Fi —— R	y Indicators (2 or more required) Vater Stained Leaves (B9) exception ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5)
Remark Soils of Hydro Wetlan Primary	disturbed dur plogy ad Indicators y Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Deposits (E Algal Mat or Cru Iron Deposits (E Surface Soil Cra	nimum of (A1) le (A2) 1) sits (B2) 33) ust (B4) acks (B6) ole on Ae	dge ins	stallation,	Check all th Water MLRA Salt C Aquat Hydro Oxidiz Prese Recer Tilled (D1) (at apply.) Stained I A 1,2,4A, Trust (B11) ic Invertel gen Sulfice zed Rhizon nce of Re nt Iron Rec Soils (C6 ded or Streen	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3 duced Iron duction in) except 1) 3) (C4)	Secondar —— W M —— D —— Si —— G —— Fi —— R	y Indicators (2 or more required) (ater Stained Leaves (B9) exception of the provided of the p
Remark Soils of Hydro Wetlan Primary	disturbed dur blogy Id Indicators Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Deposits (E Algal Mat or Cru Iron Deposits (E Surface Soil Cra Inundation Visib Imagery (B7)	nimum of (A1) le (A2) 1) sits (B2) 33) ust (B4) acks (B6) ole on Ae	dge ins	stallation,	Check all th Water MLRA Salt C Aquat Hydro Oxidiz Prese Recer Tilled (D1) (at apply.) Stained I A 1,2,4A, Trust (B11) ic Invertel gen Sulfice zed Rhizon nce of Re nt Iron Rec Soils (C6 ded or Streen	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C: duced Iron duction in b) ssed Plants) except 1) 3) (C4)	Secondar —— W M —— D —— Si —— G —— Fi —— R	y Indicators (2 or more required) (ater Stained Leaves (B9) exception of the property of the p
Remark Soils of Hydro Wetlan Primary	disturbed dur plogy ad Indicators y Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Deposits (E Algal Mat or Cru Iron Deposits (E Surface Soil Cra Inundation Visib Imagery (B7) Sparsely Vegeta	nimum of (A1) le (A2) 1) sits (B2) 33) ust (B4) acks (B6) ole on Ae	dge ins	required. (Check all th Water MLRA Salt C Aquat Hydro Oxidiz Prese Recer Tilled (D1) (at apply.) Stained I A 1,2,4A, Trust (B11) ic Invertel gen Sulfice zed Rhizon nce of Re nt Iron Rec Soils (C6 ded or Streen	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C: duced Iron duction in b) ssed Plants) except 1) 3) (C4)	Secondar —— W M —— D —— Si —— G —— Fi —— R	y Indicators (2 or more required) (ater Stained Leaves (B9) exception of the property of the p
Remark Soils of Hydro Wetlan Primary	disturbed dur blogy Id Indicators y Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Deposits (E Algal Mat or Cru Iron Deposits (E Surface Soil Cra Inundation Visib Imagery (B7) Sparsely Vegeta Surface (B8)	nimum of (A1) le (A2) 1) sits (B2) 33) ust (B4) acks (B6) ole on Ae	dge ins	stallation,	Check all th Water MLRA Salt C Aquat Hydro Oxidiz Prese Recer Tilled (D1) (at apply.) Stained I A 1,2,4A, Trust (B11) ic Invertel gen Sulfice ged Rhizon nce of Re nt Iron Re Soils (C6 ed or Stree (LRR A) (Explain i	Leaves (B9) and 4B)) brates (B13 de Odor (C7 spheres (C3 duced Iron duction in b) ssed Plants in Remarks) except (3) (1) (3) (C4)	Secondar —— W M —— D —— Si —— G —— Fi —— R	y Indicators (2 or more required) Vater Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
Remark Soils of Hydro Wetlan Primary	disturbed dur blogy d Indicators y Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Deposits (E Algal Mat or Cru Iron Deposits (E Surface Soil Cra Inundation Visib Imagery (B7) Sparsely Vegeta Surface (B8) Observations	nimum of (A1) (B2) (B2) (B3) (B4) (B4) (B5) (B6) (B6) (B6) (B6) (B6) (B6) (B6) (B6	f one is	required. (Check all th Water MLRA Salt C Aquat Hydro Oxidiz Prese Recer Tilled Stunte (D1) (at apply.) Stained I A 1,2,4A, Trust (B11) ic Invertel gen Sulfic zed Rhizon nce of Re nt Iron Rec Soils (C6 ed or Stree (LRR A) (Explain i	Leaves (B9) and 4B)) brates (B13 de Odor (C7 spheres (C3 duced Iron duction in b) ssed Plants in Remarks) except (3) (1) (3) (C4)	Secondar — W M — D — Si A ✓ G — Fi — Fi	y Indicators (2 or more required) Vater Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)

Saturation at 4 inches provides wetland hydrology.



Wetland Determination Data Form-\						Data Point		44
wettaria Determination Data i omi-t	Western	Mounta	ains, Vall	eys, & C	Coast Region	Feature Type	Upland	
Project/Site: Fountain Wind			City/County	Shasta C	County		Date:	8/28/18
Applicant/Owner: Avangrid					State: C	Α		_
Investigator(s): Gabe Youngblood, Alison Love	eless			_ Section	, Township, Range <u>S</u>	ec. 23, T34N, I	R1E	
Landform (hillslope, terrace, etc.) Floodplain			_ Local relie	ef (concave,	, convex, none) Cond	cave	Slope S	%3
Subregion (LRR): MLRA 22B	Lat:40.7	790260°		Long:_	-121.833322°	Datun	n: <u>NA</u>	AD 83
Soil Map Unit Name: Lyonsville-Jiggs complex,	, deep, 10	to 50 per	cent slopes	NV	VI Classification: N/A	<u> </u>		
Are climatic/hydrologic conditions on the site typica	I for this tim	e of year?	√ /□(If n	o, explain ii	n Remarks.)			
Are vegetation ☑/ ☐soil ☑/ ☐or hydrology ☐ /∑	significani	ly disturbe	d? Are norn	nal circums	tances present?	3		
Are vegetation \(\sum \seta \soil \(\sum \seta \) or hydrology \(\sum \seta \)	0	,			•			
Summary of Findings (Attach site map show				,				
Hydrophytic vegetation? Hydrophytic soil? Hydrophytic vegetation?	-					hthar watered	7/\	
					ea a welland?	piner waters?_		
Evaluation of features designated "Oth								
Indicators: Defined bed and bank Feature Designation: Perennial Intermittent	Scour	Ordin	ary High Wa	ter Mark Ma	apped Stream	Width		
Natural Drainage Artif	ı Epi ficial Draina	iemerai ige	Biue-iiii Navigable V	e on oses Vater	Quau Subsii	ale		
Remarks		<u> </u>			_			
Remarks _{Upland} pair to DP43 riparian we	etland.							
Vegetation (Use Scientific Names)		Absolute	Dominant		Dominance Test V			
ree Stratum (Plot Size:)		% Cover	Species?	Status	Number of dominal		1	(4)
•					that are OBL, FACY Total number of do			_ (A)
).					across all strata:	·	1	_ (B)
3					Percent of dominar		100	(A/B)
l					are OBL, FACW, o	I FAC		_ (A/D)
50%=					Prevalence Index	Worksheet		
		0/ 0	0 1 0	CLI				
	•	% Cover		Status	Total % Cover of:			
l					Total % Cover of: OBL Species	x 1 =	0	
) 2					Total % Cover of: OBL Species FACW Species	x 1 = x 2 =	0	
) 2					Total % Cover of: OBL Species FACW Species	x 1 =	0	— —
1					Total % Cover of: OBL Species FACW Species	x 1 = x 2 = x 3 =	0 0	
1	otal Cover:				Total % Cover of: OBL Species FACW Species FAC Species FACU Species	x 1 = x 2 = x 3 = x 4 =	0 0 0	
	otal Cover:		Species?	Status	Total % Cover of: OBL Species FACW Species FAC Species FACU Species UPL Species	x 1 = x 2 = x 3 = x 4 = x 5 =	0 0 0 0	
2	otal Cover:	0 % Cover 1	Species?	Status	Total % Cover of: OBL Species FACW Species FAC Species FACU Species UPL Species Column Totals	x 1 = x 2 = x 3 = x 4 = x 5 = 0 (A)	0 0 0 0 0	(B)
	otal Cover:	0 % Cover 1	Species?	Status	Total % Cover of: OBL Species FACW Species FAC Species FACU Species UPL Species	x 1 = x 2 = x 3 = x 4 = x 5 = 0 (A)	0 0 0 0 0	(B)
50%= 20%= To Herb Stratum (Plot Size: _5) Pteridium aquilinum	otal Cover:	0 % Cover 1	Species?	Status	Total % Cover of: OBL Species FACW Species FAC Species FACU Species UPL Species Column Totals Prevalence Index =	x 1 = x 2 = x 3 = x 4 = x 5 = 0 (A) Station Indicator	0 0 0 0 0	
50%= 20%= To Herb Stratum (Plot Size: _5) Pteridium aquilinum	otal Cover:	0 % Cover 1	Species?	Status	Total % Cover of: OBL Species FACW Species FAC Species FACU Species UPL Species Column Totals Prevalence Index = Hydrophytic Vege Rapid Test f	x 1 = x 2 = x 3 = x 4 = x 5 = 0 (A) e B/A = witation Indicator for Hydrophytic V	0 0 0 0 0	
1	otal Cover:	0 % Cover 1	Species?	Status	Total % Cover of: OBL Species FACW Species FAC Species FACU Species UPL Species Column Totals Prevalence Index = Hydrophytic Vege Rapid Test f Dominance Prevalence	x 1 = x 2 = x 3 = x 4 = x 5 = 0 (A) BAA = Station Indicator for Hydrophytic V Test is >50% Index is ≤ 3.01	0 0 0 0 0 0	on
1	otal Cover:	0 % Cover 1	Species?	Status	Total % Cover of: OBL Species FACW Species FAC Species FACU Species UPL Species Column Totals Prevalence Index = Hydrophytic Vege Rapid Test f Dominance Prevalence Morphologic	x 1 = x 2 = x 3 = x 4 = x 5 = 0 (A) BAR = Atation Indicator for Hydrophytic V Test is >50% Index is ≤ 3.01 cal Adaptations1	0 0 0 0 0 0	on e supportir
1	otal Cover:	0 % Cover 1	Species?	Status	Total % Cover of: OBL Species FACW Species FAC Species FACU Species UPL Species Column Totals Prevalence Index = Hydrophytic Vege Rapid Test f Dominance Prevalence Morphologic data in Rem	x 1 = $x 2 =$ $x 3 =$ $x 4 =$ $x 5 =$ $x 6 =$ $x 6 =$ $x 7 =$ $x 8 =$ $x 8$	0 0 0 0 0 0	on e supportin
1	otal Cover:	0 % Cover 1	Species?	Status FACU	Total % Cover of: OBL Species FACW Species FAC Species UPL Species Column Totals Prevalence Index = Hydrophytic Vege Rapid Test f Dominance Prevalence Morphologic data in Rem Wetland No	x 1 = $x 2 =$ $x 3 =$ $x 4 =$ $x 5 =$ $x 6 =$ $x 6 =$ $x 7 =$ $x 8 =$ $x 8$	0 0 0 0 0 0 0 vegetation	on e supportin neet)
1	otal Cover:	0 % Cover 1	Species?	Status FACU	Total % Cover of: OBL Species FACW Species FAC Species FACU Species UPL Species Column Totals Prevalence Index = Hydrophytic Vege Rapid Test f Dominance Prevalence Morphologic data in Rem Wetland No Problematic	x 1 = x 2 = x 3 = x 4 = x 5 = 0 (A) B/A = Station Indicator for Hydrophytic V Test is >50% Index is ≤ 3.0¹ cal Adaptations¹ cal Adaptations²	0 0 0 0 0 0 0 vegetation	on e supportir neet) 1 (Explain
1	otal Cover:	0 % Cover 1	Species? Y	Status FACU	Total % Cover of: OBL Species FACW Species FAC Species UPL Species Column Totals Prevalence Index = Hydrophytic Vege Rapid Test f Dominance Prevalence Morphologic data in Rem Wetland No	x 1 = x 2 = x 3 = x 4 = x 5 = 0 (A) B/A = Station Indicator for Hydrophytic V Test is >50% Index is ≤ 3.0¹ cal Adaptations¹ cal Adaptations²	0 0 0 0 0 0 0 vegetation	on e supportin neet) 1 (Explain)
Herb Stratum (Plot Size:) 1. Pteridium aquilinum 2 3 4 5 6 7 8 50%=520%=2To Woody/Vine Stratum (Plot Size:)	otal Cover:	0 % Cover 1 	Species? Y Species?	Status FACU	Total % Cover of: OBL Species FACW Species FAC Species FACU Species UPL Species Column Totals Prevalence Index = Hydrophytic Vege Rapid Test f Dominance Prevalence Morphologic data in Rem Wetland No Problematic Indicators of hydribe present.	x 1 = $x 2 =$ $x 3 =$ $x 4 =$ $x 5 =$ $x 6 =$ $x 7 =$ $x 7 =$ $x 8 =$ $x 8$	0 0 0 0 0 0 verse (provide arate ships of a ship of a sh	on e supportin neet) n¹ (Explain) nlogy must
1	otal Cover:	0 % Cover 1 1 1 % Cover	Species? Y Species?	Status FACU	Total % Cover of: OBL Species FACW Species FAC Species FACU Species UPL Species Column Totals Prevalence Index = Hydrophytic Vege Rapid Test f Dominance Prevalence Morphologic data in Rem Wetland No Problematic	x 1 = $x 2 =$ $x 3 =$ $x 4 =$ $x 5 =$ $x 6 =$ $x 7 =$ $x 7 =$ $x 8 =$ $x 8$	0 0 0 0 0 0 verse (provide arate ships of a ship of a sh	on e supportin neet) n¹ (Explain) nlogy must

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rofile Des Depth	s cription : (De Matrix			edox Features					
inches)	Color (mo	<u>%</u>	<u>-</u> .	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	<u>Remarks</u>
						<u> </u>			
Types: C	= Concentration	D = Depleti	on RM =	Reduced Matrix	2	Location: PL	= Pore Lin	ing M = Matrix	
lydric Soi	I Indicators:	(Applicable	to all LRR	s, unless otherw	ise noted)		Indicators for	Problematic Hydric Soils ³
Hi	stosol (A1)			Sandy	Redox (S	S5)		2 cm N	luck (A10)
Hi	stic Epipedon	(A2)		Strippe	ed Matrix	(S6)		Red Pa	arent Materials (TF21)
BI	Black Histic (A3)				Mucky M	lineral (exce	pt	Very S	hallow Dark Surface (TF12)
Hy	ydrogen Sulfid	e (A4)		MLRA	1) (F1)			Vegeta	ted Sand/Gravel Bars
De	epleted Below	Dark Surfac	e (A11)	Loamy	Gleyed N	Matrix (F2)		Other (Explain in Remarks)
Th	nick Dark Surfa	ice (A12)		Deplet	ed Matrix	(F3)			
Sa	andy Mucky Mi	neral (S1)		Redox	Dark Sur	face (F6)		³ Indicators of	hydrophytic vegetation and
Sa	andy Gleyed M	latrix (S4)		Deplete	ed Dark S	Surface (F7)		wetland hydro	logy must be present.
				Redox	Depressi	ions (F8)			
Restrictiv	e Layer (if pre	esent): Type	9:		Depth (I	nches)	Hydr	ic Soil Present?	·×
	pit. Upland	point is or	ı a newly	/ installed gra	vel pad				
No soil Hydrole Wetland	pit. Upland ogy Indicators							Secondary Ind	icators (2 or more required)
Hydrolo Wetland Primary I	pit. Upland Ogy Indicators ndicators (Min	imum of one		ed. Check all tha	at apply.)			-	icators (2 or more required)
Hydrolo Wetland Primary I	pit. Upland ogy Indicators ndicators (Min	imum of one		ed. Check all tha	at apply.) Stained L	eaves (B9)	except	Water	Stained Leaves (B9) excep t
Hydrolo Wetland Primary I	pit. Upland Ogy Indicators ndicators (Min urface Water (A	imum of one		ed. Check all tha Water MLRA	stained L	Leaves (B9) o	except	Water MLRA	Stained Leaves (B9) except 1,2,4A, and 4B)
Hydrold Wetland Primary I St Hi Sa	pit. Upland Ogy Indicators Indicators (Min Urface Water (A gh Water Table aturation (A3)	imum of one A1) e (A2)		ed. Check all tha Water MLRA Salt Cr	stained L 1,2,4A, aust (B11)	Leaves (B9) o	except	Water MLRA Draina	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10)
Hydrold Wetland Primary I St Hi Sa	pit. Upland Ogy Indicators Indicators (Min Urface Water (A) gh Water Table aturation (A3) later Marks (B'	imum of one A1) e (A2)		ed. Check all that Water MLRA Salt Cr	st apply.) Stained L 1,2,4A, a ust (B11)	Leaves (B9) o and 4B) orates (B13)	•	Water MLRA Draina Dry-Se	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2)
Hydrold Wetland Primary I St Hi St W Se	pit. Upland Ogy Indicators Indicators (Min Urface Water (A gh Water Table Indicators (A3) Indicators (B2) Indicators (B3) Indicators (B3) Indicators (B3) Indicators (B4) I	imum of one A1) e (A2) I) its (B2)		ed. Check all that Water MLRA Salt Cr Aquation	stained L 1,2,4A, a ust (B11) c Inverteb	Leaves (B9) of and 4B) orates (B13) le Odor (C1)	·	Water MLRA Draina Dry-Se Satura	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on
Hydrold Wetland Primary I St Hi Sa W Se	pit. Upland Ogy Indicators Indicators (Min Urface Water (A) gh Water Table aturation (A3) ater Marks (B' ediment Depositif Deposits (B)	imum of one A1) e (A2) i) sits (B2) 3)		ed. Check all that Water MLRA Salt Cr Aquatic Hydrog Oxidize	stained L 1,2,4A, a ust (B11) c Inverteb gen Sulfid	Leaves (B9) of and 4B) orates (B13) le Odor (C1) spheres (C3)	·	Water MLRA Draina Dry-Se Satura Aerial	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9)
Hydrold Wetland Primary I St Hi St Dr Al	pit. Upland Ogy Indicators Indicators (Min Urface Water (A Igh Water Table Indicator (A3) Indicator (B2) Indicator (B2) Indicators (B3) Indicators (B3) Indicators (B4) In	imum of one A1) e (A2) iits (B2) 3) st (B4)		ed. Check all that Water MLRA Salt Cr Aquatic Hydrog Oxidize Preser	Stained L 1,2,4A, a ust (B11) c Inverteb gen Sulfid ed Rhizos ace of Rec	Leaves (B9) of and 4B) orates (B13) le Odor (C1) spheres (C3) duced Iron (·	Water MLRA Draina Dry-Se Satura Aerial	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2)
Hydrold Wetland Primary I St Hi St Dr Al	pit. Upland Ogy Indicators Indicators (Min Urface Water (A) Indicators (Min Urface Water (A) Indicators (B)	imum of one A1) e (A2) its (B2) 3) st (B4) 5)		ed. Check all that Water MLRA Salt Cr Aquatic Hydrog Oxidize Preser Recent	stained L 1,2,4A, a ust (B11) Inverteb gen Sulfid ed Rhizos ace of Rea t Iron Rec	Leaves (B9) of and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in	·	Water MLRA Draina Dry-Se Satura Aerial Geomo	Stained Leaves (B9) exception 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) v Aquitard (D3)
Hydrold Wetland Primary I St Hi St Dr Al	pit. Upland Ogy Indicators Indicators (Min Urface Water (A) Indicators (Min Urface Water (A) Indicators (B) Indicators (Min Indicator	imum of one A1) e (A2) iits (B2) 3) st (B4) 5) cks (B6)		ed. Check all that Water MLRA Salt Cr Aquatic Hydrog Oxidize Preser Recent	Stained L 1,2,4A, a ust (B11) c Inverteb gen Sulfid ed Rhizos ace of Rea t Iron Rea Soils (C6)	Leaves (B9) of and 4B) orates (B13) le Odor (C1) spheres (C3) duced Iron (duction in	·	Water MLRA Draina Dry-Se Satura Aerial Geomo	Stained Leaves (B9) exception 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) ov Aquitard (D3) eutral Test (D5)
No soil Hydrold Wetland Primary I St Hi St Al Irc In	pit. Upland Ogy Indicators Indicators (Min Ind	imum of one A1) e (A2) iits (B2) 3) st (B4) 5) cks (B6)		ed. Check all that Water MLRA Salt Cr Aquatic Hydrog Oxidize Preser Recent Tilled	stained L 1,2,4A, a ust (B11) c Inverteb gen Sulfid ed Rhizos ace of Rea t Iron Rea Soils (C6) d or Stres	Leaves (B9) of and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in	·	Water MLRA Draina Dry-Se Satura Aerial Geomo Shallov FAC-N Raised	Stained Leaves (B9) exception 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) v Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A)
No soil Hydrold Wetland Primary I St Hi St Dr Al Interest St Interest St	pit. Upland Ogy Indicators Indicators (Min Urface Water (A Indicators (Min Urface Water Table Indicator (A3) Indicator Marks (B' Indicator Marks (B' Indicator Deposits (B Indicator Cru In Deposits (B Indicator Visib Inagery (B7)	imum of one A1) e (A2) iits (B2) 3) st (B4) 5) cks (B6) de on Aerial	e is require	ed. Check all that Water MLRA Salt Cr Aquatic Hydrog Oxidize Preser Receni Tilled Stunter (D1) (I	Stained L 1,2,4A, a ust (B11) c Inverteb gen Sulfid ed Rhizos ace of Rea t Iron Rea Soils (C6) d or Stres LRR A)	Leaves (B9) of and 4B) orates (B13) le Odor (C1) spheres (C3) duced Iron (duction in) sseed Plants	·	Water MLRA Draina Dry-Se Satura Aerial Geomo Shallov FAC-N Raised	Stained Leaves (B9) exception 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) ov Aquitard (D3) eutral Test (D5)
No soil Hydrold Wetland Primary I St Hi St Int Int St St Int St St St Int St St Int St St Int St St St Int St St St Int St St St St St St St St St	pit. Upland Ogy Indicators Indicators (Min Ind	imum of one A1) e (A2) iits (B2) 3) st (B4) 5) cks (B6) de on Aerial	e is require	ed. Check all that Water MLRA Salt Cr Aquatic Hydrog Oxidize Preser Receni Tilled Stunter (D1) (I	Stained L 1,2,4A, a ust (B11) c Inverteb gen Sulfid ed Rhizos ace of Rea t Iron Rea Soils (C6) d or Stres LRR A)	Leaves (B9) of and 4B) orates (B13) le Odor (C1) spheres (C3) duced Iron (duction in	·	Water MLRA Draina Dry-Se Satura Aerial Geomo Shallov FAC-N Raised	Stained Leaves (B9) exception 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) v Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A)
No soil Hydrold Wetland Primary I St Hi St Int Int St St Field Ob	pit. Upland Ogy Indicators Indicators (Min Urface Water (A Indicators (Min Urface Water (A Indicators (Min Indicators	imum of one A1) e (A2) iits (B2) 3) st (B4) 5) cks (B6) le on Aerial ted Concave	e is require	ed. Check all that Water MLRA Salt Cr Aquatic Hydrog Oxidize Preser Recent Tilled Stunter (D1) (I	Stained L 1,2,4A, a ust (B11) c Inverteb gen Sulfid ed Rhizos ace of Red t Iron Red Soils (C6) d or Stres LRR A) (Explain in	Leaves (B9) of and 4B) Forates (B13) Fle Odor (C1) Spheres (C3) duced Iron (of duction in and and and and and and and and and an	C4)	Water MLRA Draina Dry-Se Satura Aerial Geome Shallov FAC-N Raised Frost-H	Stained Leaves (B9) exception 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) ov Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
No soil Hydrold Wetland Primary I St Hi St Inc Inc St St Field Ob Surface W	pit. Upland Ogy Indicators Indicators (Min Urface Water (A Indicators (Min Urface Water (A Indicators (Min Indicators (imum of one A1) e (A2) iits (B2) 3) st (B4) 5) cks (B6) e on Aerial ted Concave	e is require	ed. Check all that Water MLRA Salt Cr Aquatic Hydrog Oxidize Preser Recent Tilled Stunter (D1) (I Other (Stained L. 1,2,4A, a ust (B11) c Invertebrate Rhizos ace of Rection Re	Leaves (B9) of and 4B) orates (B13) le Odor (C1) spheres (C3) duced Iron (duction in) sseed Plants on Remarks)	C4)	Water MLRA Draina Dry-Se Satura Aerial Geomo Shallov FAC-N Raised	Stained Leaves (B9) exception 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) ov Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
No soil Hydrold Wetland Primary I St Hi St Inc Inc St St Field Ob Surface W	pit. Upland Ogy Indicators Indicators (Min Urface Water (A Indicators (Min Urface Water (A Indicators (Min Indicators (Min Indicators (Min Indicators (Min Indicators (Min Indicators (Min Indicators (Indicators (Indicators (Indicators Indicators (Indicators Indicators Indica	imum of one A1) e (A2) iits (B2) 3) st (B4) 5) cks (B6) le on Aerial ted Concave	e is require	ed. Check all that Water MLRA Salt Cr Aquatic Hydrog Oxidize Preser Recent Tilled Stunter (D1) (I	Stained L. 1,2,4A, a ust (B11) c Inverteble	Leaves (B9) of and 4B) orates (B13) le Odor (C1) spheres (C3) duced Iron (duction in) assed Plants on Remarks)	C4)	Water MLRA Draina Dry-Se Satura Aerial Geomo Shallov FAC-N Raised Frost-H	Stained Leaves (B9) exception 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) ov Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) Heave Hummocks (D7)



Wetland Determination Data Form-Westerr	n Mount:	ains Vall	levs & C	Coast Region	Data Point Feature Type	Wetla	45 nd Seep/Sprin
Project/Site: Fountain Wind			•	· ·		Doto	11/7/17
Applicant/Owner: Avangrid		City/Courity		Stata: (California	Date:	
Investigator(s): Gabe Youngblood			Coction	Township, Range	Sec. 23. T34N. F	 R1E	-
Landform (hillslope, terrace, etc.) depresion		L ocal roli	_ Section	convoy nono) Con		Slope	0/. 2
Subregion (LRR): MLRA 22B Lat: 40).791752°	_ LUCALTEIR	L ong:	-121.819750°	Datun	Siope NA	% AD83
Soil Map Unit Name: Cohasset stony loam, 0 to 30 percentage						1	
Are climatic/hydrologic conditions on the site typical for this tir	me of year?	(If n	o, explain ii	n Remarks.)			
Are vegetation \(\sum{\sqrt{\sq}}}}}}}}}} \end{\sqrt{\sq}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}	-						
Are vegetation [] [Soil [] Soil hydrology [] Atturally					_		
Summary of Findings (Attach site map showing sampli	• .				, –	157	
Hydrophytic vegetation? 🗹 🗌 Hydric soil? 🗹 🔲 Wetland	hydrology?		sampled are	ea a wetland? \✓\	Dther waters?		
Evaluation of features designated "Other Wate							
Indicators: Defined bed and bank Scour _	Ordin	ary High Wa	iter Mark Ma	apped Stream	Width		
Feature Designation: Perennial Intermittent Ep Natural Drainage Artificial Drain	hemeral	Blue-lin	e on USGS Mator	Quad Subst	rate		
Remarks DP documents a wetland seep/spring in	a shallow	depression	on along a	a road cut.			
Vegetation (Use Scientific Names)	Absolute	Dominant	Indicator	Dominance Test	Worksheet		
Tree Stratum (Plot Size:)	% Cover	Species?	Status	Number of domina		2	
1				that are OBL, FAC		2	_ (A)
2				Total number of do across all strata:	ommant species	3	_ (B)
3				Percent of domina		66	
4				are OBL, FACW, o	or FAC:		_ (A/B)
50%= Total Cover:	0			Prevalence Index	Worksheet		
Sapling/Shrub Stratum (Plot Size:)	% Cover	Species?	Status	Total % Cover of:	Multiply b	у	
1				OBL Species	x 1 =	0	
2				FACW Species	x 2 =	0	
3				FAC Species	x 3 =	0	
4				FACU Species	x 4 =	0	
50%= Total Cover:	0				x 5 =		
Herb Stratum (Plot Size:)	% Cover	Species?			(A)		— (B)
1. Juncus balticus	30	Y	FACW	Prevalence Index			(5)
Carex sp.		Y	FAC	Trevalence mack	- DIX	_	
3. Prunella vulgaris		Y	FACU	Hydrophytic Veg			
4. Epilobium ciliatum	10	N	FACW	Rapid Test Dominance		'egetati	on
5. Stachys ajugoides	5	N	OBL	Prevalence			
6. Galium triflorum	5	N	FACU	Morphologi	cal Adaptations ¹ (
7. Trifolium repens	5	N	FAC		narks or on a sep on-Vascular Plant		neet)
3. Juncus nevadensis(3%)/Sceptridium multifidum(2%)	5	N	FACW/FAC	Problemation	c Hydrophytic Veg	getation	
50%=50 20%=20 Total Cover:	100			¹ Indicators of hydi	ric soil and wetlan	d hydro	ology must
Woody/Vine Stratum (Plot Size:)	% Cover	Species?	Status	be present.			
1				Hydrophytic Veg	etation Present?	√/_]
2							
50%= Total Cover:	0						
% Bare Ground in Herb Stratum 0 % Cover of Bio	tic Crust _	0					

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rofile Depth	Matrix		Redox Features					
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks
)-5	10YR 5/2	78	10YR 6/1	20	D	M	Loam	Gravelly
			10YR 3/4	2		PL		
5-8	10YR 4/2	98	10 YR 5/6	2	С	PL	Loam	Gravelly
ypes:	C = Concentration D =	Depletion	RM = Reduced Matri:	χ :	² Location: P	L = Pore Lir	ning M = Ma	trix
ydric S	Soil Indicators: (App	licable to al	l LRRs, unless other	wise noted	d)		Indicator	s for Problematic Hydric Soils
	Histosol (A1)		Sand	dy Redox (S5)		2	cm Muck (A10)
	Histic Epipedon (A2)		Strip	ped Matrix	(S6)		R	ed Parent Materials (TF21)
	Black Histic (A3)		Loar	ny Mucky N	Mineral (exc	ept	V	ery Shallow Dark Surface (TF12
	Hydrogen Sulfide (A4	!)	MLR	A 1) (F1)			V	egetated Sand/Gravel Bars
	Depleted Below Dark			3	Matrix (F2)		0	ther (Explain in Remarks)
	Thick Dark Surface (A	•		eted Matrix	. ,		_	
	Sandy Mucky Minera			ox Dark Su	. ,			ors of hydrophytic vegetation and
	Sandy Gleyed Matrix	(S4)	•		Surface (F7)	wetland	hydrology must be present.
			Redo	ox Depress	sions (F8)			
Restric	tive Layer (if present): Type: R	ock	Depth ((Inches) 8	Hvd	ric Soil Pres	ent? ✓ /
	Lajo: (p. 000	,, J b o		- Dob (01111
Soils	meet the requiren	nents for	indicator F3 Dep	leted Ma	ıtrix.			
Soils Hydro Wetlar	meet the requiren						Secondar	y Indicators (2 or more required
Soils Hydro Wetlar Primar	meet the requirent plogy and Indicators y Indicators (Minimun		required. Check all t	hat apply.))	excent		
Soils Hydro Wetlar Primar	meet the requirent plogy and Indicators (Minimum Surface Water (A1)	n of one is r	required. Check all t	hat apply.) er Stained) Leaves (B9)	except	W	/ater Stained Leaves (B9) exce
Soils Hydro Wetlar Primar	ology Indicators Y Indicators (Minimum Surface Water (A1) High Water Table (A2)	n of one is r	required. Check all t Wate MLF	hat apply.) er Stained RA 1,2,4A,	Leaves (B9)	except	W	/ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B)
Soils Hydro Wetlar Primar	meet the requirement ology Ind Indicators y Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3)	n of one is r	required. Check all t Wate MLF Salt	hat apply.) er Stained RA 1,2,4A, Crust (B11) Leaves (B9) and 4B)	•	W	/ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10)
Soils Hydro Wetlar Primar	plogy Ind Indicators Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	n of one is r	required. Check all t Wate MLF Salt Aqua	hat apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte	Leaves (B9) and 4B)) brates (B13))	W ✓ D	/ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B)
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Soils Hydro Wetlar Primar	meet the requiremental pology Ind Indicators y Indicators (Minimum Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Imagery (B7) Sparsely Vegetated (A2)	n of one is r 2) 32) 4) (B6) Aerial	required. Check all to MLF MLF Salt Aqua Hydr Oxid Pres Tille Stun (D1)	hat apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte ogen Sulfic ized Rhizo ence of Re ent Iron Re d Soils (Ce ted or Stre (LRR A)	Leaves (B9) and 4B)) brates (B13) de Odor (C1 ospheres (C3 educed Iron eduction in 6) essed Plants)) (S) (C4)	W D S 	Vater Stained Leaves (B9) exce Value II. A.
Soils Hydro Wetlar Primar	meet the requiremental pology Ind Indicators y Indicators (Minimum Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Imagery (B7) Sparsely Vegetated (Surface (B8) Observations	n of one is r 2) 32) 4) (B6) Aerial Concave	required. Check all to the control of the control o	hat apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte ogen Sulfic ized Rhizo ence of Re ent Iron Re d Soils (Ce ted or Stre (LRR A)	Leaves (B9) and 4B)) brates (B13) de Odor (C1 espheres (C3 educed Iron eduction in 6) essed Plants in Remarks))) (C4)	W D S 	Vater Stained Leaves (B9) exceptilized Interest (B10) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Averial Imagery (C9) ecomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR Arost-Heave Hummocks (D7)
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Hydrology is indicated by geomorphic position, drainage patterns, and veg meeting the FAC-neutral test.



				Data Point	
Wetland Determination Data Form-Wester	ern Mounta	ains, Val	leys, & C	Coast Region Feature Type	Upland
Project/Site: Fountain Wind		Citv/County	Shasta 0	County	Date: 11/7/17
Applicant/Owner: Avangrid				State: California	
Caba Varradalaad			_ Section	, Township, Range Sec. 23, T34N,	R1E
Landform (hillslope, terrace, etc.) Hillslope			ef (concave	, convex, none) Convex	Slope %5
Subregion (LRR): MLRA 22B Lat:	40.791769°		Long:_	-121.819793° Datur	n: NAD 83
Soil Map Unit Name: Cohasset stony loam, 0 to 30 pe	rcent slopes	i	N\	WI Classification: N/A	
Are climatic/hydrologic conditions on the site typical for this	time of year?	$\sqrt{ \mathcal{J} }$ (If r	o, explain il	in Remarks.)	
Are vegetation \(\sum \subseteq \subseteq \signification \) by the vegetation \(\supseteq \subseteq \subseteq \subseteq \subseteq \subseteq \subseteq \)	cantly disturbe	ed? Are norr	nal circums	stances present? ✓/ □	
Are vegetation \(\sqrt{\sqrt{soil}} \sqrt{\sqrt{or hydrology}.\(\sqrt{\sqrt{hatura}} \)	lly problemation	c? <i>(If neede</i>	ed, explain	in Remarks.)	
Summary of Findings (Attach site map showing sam	plina point loc	cations, trans	sects, impor	rtant features, etc.)	
Hydrophytic vegetation?					7/
					<u></u>
Evaluation of features designated "Other Wa Indicators: Defined bed and bank Scour				apped Stream Width	
Feature Designation: Perennial Intermittent	Ephemeral	Blue-lin	e on USGS	Quad Substrate	
Natural Drainage Artificial Dra	ainage	Navigable \	Water	_	
Remarks Upland pair to DP45 wetland seep/spr	ing along a	road cut.			
	0 0				
Vegetation (Use Scientific Names)	Absolute	Dominant	Indicator	Dominance Test Worksheet	
Tree Stratum (Plot Size:)	% Cover	Species?	Status	Number of dominant species	0
1				that are OBL, FACW, or FAC:	(A)
2				across all strata:	4 (B)
3				Percent of dominant species that	0
4	_			are OBL, FACW, or FAC:	(A/B)
50%=	zı			Prevalence Index Worksheet	
Sapling/Shrub Stratum (Plot Size:) 1 Calocedrus decurrens	% Cover 5	Species? Y	Status UPL	Total % Cover of: Multiply I	_
Abies concolor	- - 5 5	Y	UPL	OBL Species x 1 =	_
		<u></u>		FACW Species x 2 =	
3				FAC Species x 3 =	
4	 10			FACU Species x 4 =	
		Chaolaga	Ctatus	UPL Species x 5 =	
Herb Stratum (Plot Size:) 1. Pteridium aquilinum	% Cover 5	Species?	FACU	Column Totals (A)	(B)
o Lotus en		Y	FACU	Prevalence Index = B/A =	
e Elympia alauaus			FACU	Hydrophytic Vegetation Indicator	ro
3. Eigitius glaucus 4				Rapid Test for Hydrophytic \	
5				Dominance Test is >50%	
6				Prevalence Index is < 3.01 Morphological Adaptations1	(provide supporting
7				data in Remarks or on a sep	parate sheet)
8.				Wetland Non-Vascular Plant	
50%=6	 er: 12			Problematic Hydrophytic Ve	
Woody/Vine Stratum (Plot Size:)		Species?	Status	be present.	<i>y 0,</i>
1		•		Hydrophytic Vegetation Present?	· [[]
2.				Tryanophysic regetation i resent:	
	er: 0				
% Bare Ground in Herb Stratum 85 % Cover of E		0			

Dominant hydrophytic vegetation is not present. Lotus assumed facultative upland due to presence of other upland species.

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rofile D Depth	e scription : (De Matrix			Redox Fe	eatures					
inches) 0-12	Color (mo		<u>%</u> 100	Color (r	noist)	<u>%</u>	<u>Type¹</u>	Loc ²	Texture Loam	Remarks Gravelly
ypes: (C = Concentration	n D = De	pletion	RM = Reduce	d Matrix	2	Location: PL	= Pore Lin	ing M = Ma	
ydric S	oil Indicators:	(Applica	ble to all	LRRs, unles	s otherwis	se noted	1)		Indicator	s for Problematic Hydric Soil
•	Histosol (A1)				_ Sandy F				2	cm Muck (A10)
H	Histic Epipedon	(A2)			_ Stripped	d Matrix	(S6)		R	ed Parent Materials (TF21)
E	Black Histic (A3))			_ Loamy I	Mucky M	Mineral (exce	ept	V	ery Shallow Dark Surface (TF1:
h	Hydrogen Sulfid	e (A4)			MLRA 1	I) (F1)			V	egetated Sand/Gravel Bars
[Depleted Below	Dark Su	ırface (A´	11)	_ Loamy (Gleyed I	Matrix (F2)		0	ther (Explain in Remarks)
	Thick Dark Surfa	ace (A12	2)		_ Deplete	d Matrix	(F3)			
;	Sandy Mucky M	ineral (S	1)		_ Redox [Dark Sur	rface (F6)		³ Indicato	ors of hydrophytic vegetation an
	Sandy Gleyed M	∕latrix (S	4)		_ Deplete	d Dark S	Surface (F7)		wetland	hydrology must be present.
					_ Redox [Depress	ions (F8)			
Doctriot	tive Layer (if pre	esent): 1	Tyne:			Donth /I	nches)	Hvdi	ric Soil Pres	ent? /X
Resulci) (турс			Depin (i	1101103)	11941	10 3011 103	CHI:
Remarl		dric soi	<u> </u>			реріп (і	<u> </u>		10 3011 163	Citi: /\
Remark No inc Hydro Wetlan	dicators of hydrogy		ils were	observed			<u></u>			
Remark No inc Hydro Wetlan	ks licators of hydology		ils were	observed			<u></u>			y Indicators (2 or more required
Remarl No inc Hydro Wetlan Primary	dicators of hydrogy	nimum of	ils were	observed	ck all that	apply.)	Leaves (B9)		Secondar	
Remarl No inco Hydro Wetlan Primary	d Indicators (Min	nimum of	ils were	observed	ck all that	apply.)			Secondar	y Indicators (2 or more required
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Remark No inco Hydro Wetlan Primary	dicators of hydelogy d Indicators Indicators (Min Surface Water (Aligh Water Table) Saturation (A3) Water Marks (B	nimum of A1) Ie (A2)	ils were	observed	ck all that Water S MLRA Salt Cru Aquatic	apply.) stained L 1,2,4A, sst (B11) Inverteb	Leaves (B9) and 4B) orates (B13)	except	Secondar W D	y Indicators (2 or more required /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B)
Remarl No inc Hydro Wetlan Primary	d Indicators Indicators (Minicators (Minic	nimum of A1) Ie (A2) 1) sits (B2)	ils were	observed	ck all that Water S MLRA Salt Cru Aquatic	apply.) stained L 1,2,4A, sst (B11) Inverteb	_eaves (B9) and 4B)	except	<u>Secondar</u> W D D	y Indicators (2 or more required /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10)
Remark No inco Hydro Wetlan Primary	d Indicators Undicators Undicator	nimum of A1) Ie (A2) 1) sits (B2)	ils were	observed	Ck all that Water S MLRA Salt Cru Aquatic Hydroge Oxidized	apply.) stained L 1,2,4A, st (B11) Invertek en Sulfid d Rhizos	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3	except	Secondar W	y Indicators (2 or more required /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9)
Remark No inco Hydro Wetlan Primary	dicators of hydelogy d Indicators Indicators (Minicators (Minicato	nimum of A1) le (A2) 1) sits (B2) 33) ust (B4)	ils were	observed	water S Water S MLRA Salt Cru Aquatic Hydroge Oxidized Presence	apply.) stained L 1,2,4A, st (B11) Invertek en Sulfid d Rhizos se of Re	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (except	Secondar W D D D S G	y Indicators (2 or more required /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2)
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Remark No inco Hydro Wetlan Primary	dicators of hydelogy d Indicators Indicators (Minicators (Minicator) (Minicato	nimum of A1) le (A2) 1) sits (B2) 33) sist (B4) 55) acks (B6) le on Ael	one is recove	equired. Che	water S MLRA Salt Cru Aquatic Hydroge Oxidized Presend Recent Tilled S Stunted (D1) (L	apply.) stained L 1,2,4A, st (B11) Inverted en Sulfid d Rhizos ee of Red lron Red soils (C6 or Stres RR A) Explain in	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in) ssed Plants n Remarks)	except () () (C4)	Secondar —— W M —— D —— Si —— G —— Si —— Fi —— Fi	y Indicators (2 or more required /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR Arost-Heave Hummocks (D7)



Wetland Determination Data Fori	m Wostorn	Mount	aine Vall	ove 9.0	Poset Dogion	Data Point Feature Type		47 meral strear
				3	· ·			
Project/Site: Fountain Wind Applicant/Owner: Avangrid			City/County		Ctata	California	Date:	
				Coation	State:	ec 23 T34N F	 R1F	-
Investigator(s):			L oool roll	_ Section	, Township, Range S	cave	Clana	 _{0/} 10
Landform (hillslope, terrace, etc.) Draianage Subregion (LRR): MLRA 22B	Lat: 40	.791707°	_ Local relie	er (concave)	-121.822774°	Dotum	510pe \ NA	% AD83
Soil Map Unit Name: _Cohasset stony loam,	Lat			0				
Are climatic/hydrologic conditions on the site ty	pical for this tir	ne of year?	√/□(If n	o, explain ii	n Remarks.)			
Are vegetation \square \square soil \square \square or hydrology								
Are vegetation \(\sqrt{\sq}}}}}}}}}} \end{\sqrt{\sq}}}}}}}}}}}} \end{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sq}}}}}}}}}} \end{\sqrt{\sq}}}}}}}}\end{\sqrt{\sqrt{\sq}}}}}}}}}} \end{\sqrt{\sqrt{\sq}}}}}}}} \sqrt{\sq						_		
		-		-				
Summary of Findings (Attach site map s		• .					.—	
Hydrophytic vegetation? Hydric soil?	YEM Wetland	hydrology':		sampled are	ea a wetland? _\X	Dther waters? ✓	<i>/</i>	
Evaluation of features designated #	Other Water	rs of the	United St	ates"	,			
Indicators: Defined bed and bank	✓ Scour_	✓ Ordin	ary High Wa	ter Mark Ma	apped _ <pre>Stream</pre>	Width 3-5'		
Indicators: Defined bed and bank Feature Designation: Perennial Intermity Natural Drainage	ttent Ep Artificial Drain	nemeral	Mavigable V	e on USGS Vater	Quad Substi	ate kock and son		
			Travigable v	vater				
Remarks DP document OHWM of an	ephemeral s	tream.						
Vegetation (Use Scientific Names)		Absolute	Dominant		Dominance Test \	Norksheet		
Tree Stratum (Plot Size:)		% Cover	Species?	<u>Status</u>	Number of domina			(A)
1					that are OBL, FAC Total number of do			_ (A)
2					across all strata:	·		_ (B)
3					Percent of dominal			_ (A/B)
4		0			are OBL, FACW, o	I FAC.		_ (A/D)
50%=				0	Prevalence Index			
Sapling/Shrub Stratum (Plot Size:)	% Cover	Species?	Status	Total % Cover of:		_ ^	
1						x 1 =		_
2					FACW Species	x 2 =		
3					FAC Species	x 3 =	0	_
4					FACU Species	x 4 =	0	
50%=	Total Cover:				UPL Species	x 5 =	0	
Herb Stratum (Plot Size:)		% Cover	Species?	Status	Column Totals			
1					Prevalence Index =			_ 、 ,
2							_	
3					Hydrophytic Vege			0.00
4					Rapid Test	Test is >50%	egetati	UII
5					Prevalence	Index is $\leq 3.0^1$		
6					Morphologic			
7					Wetland No	narks or on a sepa n-Vascular Plants	arate si S ¹	ieet)
8					Problematic	: Hydrophytic Veg	etation	
50%=					¹ Indicators of hydri	ic soil and wetland	d hydro	ology must
Woody/Vine Stratum (Plot Size:)	% Cover	Species?	Status	be present.			
1					Hydrophytic Vege	etation Present?]
2								
50%=	Total Cover:	0						
% Bare Ground in Herb Stratum %	Cover of Bio	tic Crust	0					

_		
5	۱ı	c
- 71	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_

Types: C = Concentration D = Depletion RM = Reduced Matrix	<u>arks</u>
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted) Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Sandy Redox (S5) Hydrogen Sulfide (A4) MLRA 1) (F1) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (except Hydrogen Sulfide (A4) MLRA 1) (F1) Uvegetated Sand/Grace (A12) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Redox Depressions (F8) Restrictive Layer (if present): Type: Pepth (Inches) Hydric Soil Present? Water Marks No soils pit scoured channel. Hydrology Wetland Indicators Primary Indicators (Minimum of one is required. Check all that apply.) Secondary Indicators (2 or no MLRA 1,2,4A, and 4B) Saturation (A3) Salt Crust (B11) Drainage Patterns (E Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water T Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Geomorphic Positior	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted) Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Sandy Redox (S5) Bandy Redox (S5) Red Parent Material: Wegetated Sand/Grae Hydrogen Sulfide (A4) MLRA 1) (F1) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (except Hydrogen Sulfide (A4) MLRA 1) (F1) Uegetated Sand/Grae Thick Dark Surface (A12) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Redox Depressions (F8) Restrictive Layer (if present): Type: Depth (Inches) Hydric Soil Present? Hydrology Wettand Indicators Primary Indicators (Minimum of one is required. Check all that apply.) Secondary Indicators (2 or n MLRA 1,2,4A, and 4B) MLRA 1,2,4A, and 4B) MLRA 1,2,4A, and 4B) MLRA 1,2,4A, and 4B) Water Stained Leaves (B9) except High Water Table (A2) Saturation (A3) Salt Crust (B11) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Geomorphic Positior	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted) Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Sandy Redox (S5) Bandy Redox (S5) Red Parent Material: Wegetated Sand/Grae Hydrogen Sulfide (A4) MLRA 1) (F1) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (except Hydrogen Sulfide (A4) MLRA 1) (F1) Uegetated Sand/Grae Thick Dark Surface (A12) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Redox Depressions (F8) Restrictive Layer (if present): Type: Depth (Inches) Hydric Soil Present? Hydrology Wettand Indicators Primary Indicators (Minimum of one is required. Check all that apply.) Secondary Indicators (2 or n MLRA 1,2,4A, and 4B) MLRA 1,2,4A, and 4B) MLRA 1,2,4A, and 4B) MLRA 1,2,4A, and 4B) Water Stained Leaves (B9) except High Water Table (A2) Saturation (A3) Salt Crust (B11) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Geomorphic Positior	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted) Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Sandy Redox (S5) Bandy Redox (S5) Red Parent Material: Wegetated Sand/Grae Hydrogen Sulfide (A4) MLRA 1) (F1) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (except Hydrogen Sulfide (A4) MLRA 1) (F1) Uegetated Sand/Grae Thick Dark Surface (A12) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) Redox Depressions (F8) Restrictive Layer (if present): Type: Depth (Inches) Hydric Soil Present? Hydrology Wettand Indicators Primary Indicators (Minimum of one is required. Check all that apply.) Secondary Indicators (2 or n MLRA 1,2,4A, and 4B) MLRA 1,2,4A, and 4B) MLRA 1,2,4A, and 4B) MLRA 1,2,4A, and 4B) Water Stained Leaves (B9) except High Water Table (A2) Saturation (A3) Salt Crust (B11) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Geomorphic Positior	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted) Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Depleted Below Dark Surface (A11) Sandy Redox (S5) Hydrogen Sulfide (A4) MLRA 1) (F1) Depleted Below Dark Surface (A11) Sandy Mucky Mineral (except Hydrogen Sulfide (A4) MLRA 1) (F1) Uegetated Sand/Grace (A12) Depleted Matrix (F2) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (F3) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F6) Redox Dark Surface (F7) Redox Depressions (F8) Restrictive Layer (if present): Type: Depth (Inches) Hydric Soil Present? Water Stained Leaves (B9) except High Water Table (A2) MLRA 1,2,4A, and 4B) MLRA 1,2,4A, and 4B) MLRA 1,2,4A, and 4B) MLRA 1,2,4A, and 4B) Water Marks (B1) Aquatic Invertebrates (B13) Dyr-Season Water (C9) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Geomorphic Positior	
Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Histic Epipedon (A2) Stripped Matrix (S6) Red Parent Material: Black Histic (A3) Loamy Mucky Mineral (except Very Shallow Dark Stripped Matrix (F1) Vegetated Sand/Grate Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Other (Explain in Retrible Dark Surface (A12) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) 3Indicators of hydrophytic vegetated Dark Surface (F7) wetland hydrology must be Redox Depressions (F8) Restrictive Layer (if present): Type: Depth (Inches) Hydric Soil Present? /★ Remarks No soils pit scoured channel. Hydrology Wetland Indicators Primary Indicators (Minimum of one is required. Check all that apply.) Secondary Indicators (2 or not in the properties of the properties of the properties of the properties (B13) Dry-Season Water Table (A3) Salt Crust (B11) Drainage Patterns (Easternation (A3) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible or Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Geomorphic Position	
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Black Histic (A3) Loamy Mucky Mineral (except Hydrogen Sulfide (A4) MLRA 1) (F1) Vegetated Sand/Gra Vegetated Sand/Gra Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Other (Explain in Remarks Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Indicators of hydrophytic value wetland hydrology must be Redox Depressions (F8) Restrictive Layer (if present): Type: Depth (Inches) Hydric Soil Present? / Xemarks No soils pit scoured channel. Hydrology Wetland Indicators Primary Indicators (Minimum of one is required. Check all that apply.) Secondary Indicators (2 or not be soil of the present) Secondary Indicators (Patrick) Secondary I	(TE01)
Hydrogen Sulfide (A4) MLRA 1) (F1) Vegetated Sand/Gra Depleted Below Dark Surface (A11) Loamy Gleyed Matrix (F2) Other (Explain in Re Thick Dark Surface (A12) Depleted Matrix (F3) Sandy Mucky Mineral (S1) Redox Dark Surface (F6) ³Indicators of hydrophytic v Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) wetland hydrology must be Restrictive Layer (if present): Type: Depth (Inches) Hydric Soil Present? ✓ Remarks No soils pit scoured channel. Hydrology Wetland Indicators Primary Indicators (Minimum of one is required. Check all that apply.) Secondary Indicators (2 or n Surface Water (A1) Water Stained Leaves (B9) except Water Stained Leaves (B9) except High Water Table (A2) MLRA 1,2,4A, and 4B) MLRA 1,2,4A, and Saturation (A3) Salt Crust (B11) Drainage Patterns (E Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water T Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible or Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Geomorphic Position	, ,
Thick Dark Surface (A12) Depleted Matrix (F3) 3Indicators of hydrophytic v wetland hydrology must be Redox Depressions (F8) Restrictive Layer (if present): Type: Depth (Inches) Hydric Soil Present? ✓ Remarks No soils pit scoured channel. Hydrology Wetland Indicators Primary Indicators (Minimum of one is required. Check all that apply.) Secondary Indicators (2 or n Water Stained Leaves (B9) except High Water Table (A2) MLRA 1,2,4A, and 4B) MLRA 1,2,4A, and Saturation (A3) Salt Crust (B11) Drainage Patterns (B Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water T Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible or Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Geomorphic Position	
Sandy Mucky Mineral (S1) Redox Dark Surface (F6) Sandy Gleyed Matrix (S4) Depleted Dark Surface (F7) wetland hydrology must be Redox Depressions (F8) Bedox Depressions (F8)	narks)
Sandy Gleyed Matrix (S4)Depleted Dark Surface (F7) wetland hydrology must be Redox Depressions (F8) Restrictive Layer (if present): Type:Depth (Inches) Hydric Soil Present? 'X Remarks No soils pit scoured channel. Hydrology Wetland Indicators Primary Indicators (Minimum of one is required. Check all that apply.) Secondary Indicators (2 or not primary Indicators (Minimum of one is required. Check all that apply.) Secondary Indicators (2 or not primary Indicators (A1) Water Stained Leaves (B9) except Water Stained Leaves High Water Table (A2)	
Restrictive Layer (if present): Type: Depth (Inches) Hydric Soil Present? /X Remarks No soils pit scoured channel. Hydrology Wetland Indicators Primary Indicators (Minimum of one is required. Check all that apply.) Secondary Indicators (2 or no mark) — Surface Water (A1) Water Stained Leaves (B9) except Water Stained Leaves (B1) Salt Crust (B11) Drainage Patterns (B13) Drainage Patterns (B13) Drainage Patterns (B13) Drainage Patterns (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible or Voidized Rhizospheres (C3) Aerial Imagery (C9) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Geomorphic Position	· ·
Restrictive Layer (if present): Type: Depth (Inches) Hydric Soil Present? /X Remarks No soils pit scoured channel. Hydrology Wetland Indicators Primary Indicators (Minimum of one is required. Check all that apply.) Secondary Indicators (2 or n — Surface Water (A1) Water Stained Leaves (B9) except Water Stained Leaves High Water Table (A2)	present.
Remarks No soils pit scoured channel. Hydrology Wetland Indicators Primary Indicators (Minimum of one is required. Check all that apply.) Surface Water (A1) High Water Table (A2) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible or ✓ Drift Deposits (B3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Method Indicators Secondary Indicators (2 or not	
Remarks No soils pit scoured channel. Hydrology Wetland Indicators Primary Indicators (Minimum of one is required. Check all that apply.) Surface Water (A1) High Water Table (A2) Saturation (A3) Salt Crust (B11) Water Marks (B1) Aquatic Invertebrates (B13) Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Again Marks (B3) Aerial Imagery (C9) Algal Mat or Crust (B4) Presence of Reduced Iron (C4)	
Hydrology Wetland Indicators Primary Indicators (Minimum of one is required. Check all that apply.) Secondary Indicators (2 or not in the standard secondary Indic	
Primary Indicators (Minimum of one is required. Check all that apply.)Secondary Indicators (2 or not	
High Water Table (A2)MLRA 1,2,4A, and 4B)MLRA 1,2,4A, andSaturation (A3)Salt Crust (B11)Drainage Patterns (BWater Marks (B1)Aquatic Invertebrates (B13)Dry-Season Water TSediment Deposits (B2)Hydrogen Sulfide Odor (C1)Saturation Visible or✓ Drift Deposits (B3)Oxidized Rhizospheres (C3)Aerial Imagery (C9)Algal Mat or Crust (B4)Presence of Reduced Iron (C4)Geomorphic Position	ore required)
High Water Table (A2)MLRA 1,2,4A, and 4B)MLRA 1,2,4A, and Saturation (A3) Salt Crust (B11) Drainage Patterns (B Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water T Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible or Drift Deposits (B3) Oxidized Rhizospheres (C3) Aerial Imagery (C9) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Geomorphic Position	
Saturation (A3) Salt Crust (B11) Drainage Patterns (E Water Marks (B1) Aquatic Invertebrates (B13) Dry-Season Water T Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible or ✓ Drift Deposits (B3) Oxidized Rhizospheres (C3) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Geomorphic Position	s (B9) except
Water Marks (B1)Aquatic Invertebrates (B13)Dry-Season Water TSediment Deposits (B2)Hydrogen Sulfide Odor (C1)Saturation Visible orDrift Deposits (B3)Oxidized Rhizospheres (C3)Aerial Imagery (C9)Algal Mat or Crust (B4)Presence of Reduced Iron (C4)Geomorphic Position	-
Sediment Deposits (B2) Hydrogen Sulfide Odor (C1) Saturation Visible or Drift Deposits (B3) Oxidized Rhizospheres (C3)Aerial Imagery (C9) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Geomorphic Position	4B)
✓ Drift Deposits (B3)Oxidized Rhizospheres (C3)Aerial Imagery (C9) Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Geomorphic Position	4B) 510)
Algal Mat or Crust (B4) Presence of Reduced Iron (C4) Geomorphic Position	4B) 310) able (C2)
	4B) 310) able (C2)
(= -)	4 B) 110) able (C2)
Surface Soil Cracks (B6) Tilled Soils (C6) FAC-Neutral Test (D	(D2)
Inundation Visible on AerialStunted or Stressed Plants Raised Ant Mounds	(D2)
Imagery (B7) (D1) (LRR A) Frost-Heave Hummo	4B) a10) able (C2) (D2) 8)
Sparsely Vegetated Concave Other (Explain in Remarks)	(D2) (D6) (LRR A)
Surface (B8)	(D2) (D6) (LRR A)
Field Observations	(D2) (D6) (LRR A)
Surface Water Present? Yes No X Depth (inches) Wetland Hydrology? ✔ / N	(D2) (D6) (LRR A)
Water Table Present? Yes No Depth (inches)	(D2) (D6) (LRR A)
Saturation Present? Yes No Depth (inches) (includes capillary fringe)	(D2) (D6) (LRR A)
Describe Recorded Data (stream gauge, monitoring well, aerial photos, and previous inspections), if available:	(D2) (D6) (LRR A)

Drift deposits indicate frequent flooding.



					Data Point		48
Wetland Determination Data Form-Wester	rn Mounta	ains, Vall	leys, & C	Coast Region	Feature Type	Interm	nittent Stream
Project/Site: Fountain Wind		Citv/Countv	Shasta C	County		Date:	11/17/17
applicant/Owner: Avangrid				State: C	alifornia		
nvestigator(s): Gabe youngblood			_ Section	s S	ec 27 T34N	R1E	
andform (hillslope, terrace, etc.) Drainage subregion (LRR): MLRA 22B Lat:4		_ Local relie	ef (concave	convex, none) Cond	cave	Slope 9	%3
ubregion (LRR): MLRA 22B Lat:	10.778821°		Long:_	-121.842353°	Datur	n: NA	D83
oil Map Unit Name: Windy and McCarthy stony sandy	loams, 0 to	30 percent	slopes N	VI Classification: Nor	ne		
are climatic/hydrologic conditions on the site typical for this are vegetation□/⊠soil□/⊠or hydrology□/⊠significa are vegetation□/⊠soil□/⊠or hydrology□/⊠haturall	antly disturbe	d? Are norr	nal circums	tances present? 🗸 🗀	Note: On checkman means ye choice) m	rk (left es, the	choice) X (right
Summary of Findings (Attach site map showing samplydrophytic vegetation? Hydric soil? Wetlan					Other waters? ✓	1 /□	
Evaluation of features designated "Other Wat adicators: Defined bed and bank Scour eature Designation: Perennial Intermittent E Natural Drainage Artificial Drainage DP Documents the OHWM of an interm	Ordin Ephemeral inage	ary High Wa Blue-lin Navigable V	iter Mark Ma e on USGS	apped _ ✓ Stream Quad Substr	Width 2' ate Gravel & Rock		
regetation (Use Scientific Names) ree Stratum (Plot Size:)	Absolute <u>% Cover</u>	Dominant Species?		Dominance Test V Number of dominar that are OBL, FACV	nt species		(A)
				Total number of do			
				across all strata:			(B)
				Percent of dominar are OBL, FACW, or			(A/B)
50%=							• •
apling/Shrub Stratum (Plot Size:)	% Cover	Species?	Status	Prevalence Index Total % Cover of:		٦V	
					x 1 =	_	
				FACW Species			_
					x 3 =	_	_
				FACU Species			
50%= Total Cover	r: 0			UPL Species			
erb Stratum (Plot Size:)	% Cover	Species?	Status	Column Totals			
				Prevalence Index =			(D)
				r revalence index -	D/A		
				Hydrophytic Vege Rapid Test f Dominance Prevalence	or Hydrophytic \ Test is >50% Index is <u><</u> 3.0 ¹	/egetatio	
				Morphologic data in Rem	arks or on a sep		
· 				Wetland No	n-Vascular Plani	:S ¹	,
 50%= 20%= Total Cove				Problematic 1 Indicators of hydric			
		Cnooloo?	Ctatus	be present.	L SUII AITU WELIAL	iu riyur0	iogy must
/oody/Vine Stratum (Plot Size:)				Hydrophytic Vege	tation Present?	· 🗆 🗵]
50%=							
6 Bare Ground in Herb Stratum							

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rofile Des Depth	scription : (D Matri		o dop	Redox Features					
(<u>inches</u>)	Color (m	oist)	%	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	<u>Remarks</u>
						· ——			
				RM = Reduced Matrix			_ = Pore Lir	ning M = Matrix	
•		(Applicab	le to all	LRRs, unless other		•			Problematic Hydric Soils
	istosol (A1)			Sandy	•	•		2 cm N	
	istic Epipedon			Stripp					arent Materials (TF21)
	lack Histic (A3	-			,	lineral (exc	ept	,	hallow Dark Surface (TF12
-	ydrogen Sulfic				1) (F1)			-	ated Sand/Gravel Bars
	epleted Below		ace (A1		-	Matrix (F2)		Other	(Explain in Remarks)
	hick Dark Surf			Deple				0	
	andy Mucky N				Dark Sur	. ,			hydrophytic vegetation and
Sa	andy Gleyed I	Matrix (S4)				Surface (F7))	wetland hydro	plogy must be present.
				Redo:	Depress	ions (F8)			
-	. //	ocont). Tu							·×
Restrictiv	<i>i</i> e Layer (if pr	esem). Ty	/pe:		Depth (I	ncnes)	Hyd	ric Soil Present?	
Remarks No soils	s pit scoure				Depth (I	ncnes)	Hyd	ric Soil Present?	'^
Remarks No soils Hydrole Wetland	s pit scoure ogy Indicators	d channe	el.			ncnes)	Hyd		
Remarks No soils Hydrole Wetland Primary I	s pit scoure ogy Indicators Indicators (Min	d channe	el.	quired. Check all th	at apply.)			Secondary Ind	icators (2 or more required)
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Remarks No soils Hydrole Wetland Primary I	s pit scoure ogy Indicators Indicators (Minumerace Water in igh Water Take)	d channe	el.	quired. Check all th Water MLR.	at apply.) Stained L	eaves (B9)		Secondary Ind	icators (2 or more required) Stained Leaves (B9) excep 1, 1,2,4A, and 4B)
Remarks No soils Hydrole Wetland Primary I V St V Hi V Sa	ogy Indicators Indicators (Minurace Water in igh Water Takaturation (A3)	d channe nimum of c (A1)	el.	equired. Check all th Water MLR Salt C	at apply.) Stained L A 1,2,4A, rust (B11)	eaves (B9)	except	Secondary Ind Water MLRA Draina	icators (2 or more required) Stained Leaves (B9) excep 1,2,4A, and 4B) ge Patterns (B10)
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Remarks No soils Hydrole Wetland Primary I St. Section 101 Remarks Wetland Primary I All Irc Inc Inc St. St.	ogy Indicators Indicators (Minurface Water Pater Marks (Bediment Deposits (Ilgal Mat or Criton Deposits (Ilgurface Soil Criton Visitemagery (B7) parsely Veget	d channed nimum of co (A1) ble (A2) sits (B2) 33) ust (B4) 35) acks (B6) ble on Aeric	el. one is re	equired. Check all the water MLR. Salt Company Aquate Hydro Oxidize Prese Recered Stunte (D1)	at apply.) Stained L A 1,2,4A, rust (B11) ic Inverted gen Sulfid red Rhizos nce of Red at Iron Red Soils (C6 red or Stress (LRR A) (Explain in	Leaves (B9) and 4B) orates (B13) le Odor (C1 spheres (C3 duced Iron duction in) ssed Plants n Remarks)	except () () () () () () () () ()	Secondary Ind Water MLRA Draina Dry-Se Satura Aerial ✓ Geome Shallo FAC-N Raiseo	icators (2 or more required) Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A)
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Remarks No soils Hydrold Wetland Primary I Su Hi Su Su Su Field Ob Surface W	ogy Indicators Indicators (Minurface Water Figh Water Table aturation (A3) Vater Marks (Bediment Deposits (Il Igal Mat or Crition De	d channed nimum of co (A1) ole (A2) atts (B2) asts (B4) acks (B6) ole on Aerica	el. one is re al	equired. Check all the Water MLR. Salt Company of Control of Contr	at apply.) Stained L A 1,2,4A, rust (B11) ic Inverteb gen Sulfid red Rhizos nce of Re at Iron Rec Soils (C6 ed or Stres (LRR A) (Explain in	Leaves (B9) and 4B) orates (B13) de Odor (C1 spheres (C3 duced Iron duction in) ssed Plants n Remarks)	except () () (C4)	Secondary Ind Water MLRA Draina Dry-Se Satura Aerial ✓ Geom Shallo FAC-N Raised	icators (2 or more required) Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) d Ant Mounds (D6) (LRR A) Heave Hummocks (D7)

Surface water from snow melt and ground water provides wetland hydrology.



					Data Point		49
Netland Determination Data Form-Wester	n Mounta	ains, Val	leys, & C	Coast Region	Feature Type	Epher	meral Strea
Project/Site: Fountain Wind		City/County	Shasta (County		Date:	11/17/17
Applicant/Owner: Avangrid				State: C	California		
Caha yaynahlaad			_ Section	0	00 07 TO 4NI	R1E	
nvestigator(s):Gabe youngblood .andform (hillslope, terrace, etc.)Drainage Subregion (LRR):MLRA 22BLat:4		_ Local relie	ef (concave	convex, none) Con-	cave	Slope 9	%3
Subregion (LRR): MLRA 22B Lat: 4	0.778837°		Long:_	-121.841812°	Datur	n: NA	D83
oil Map Unit Name: Windy and McCarthy stony sandy	loams, 0 to	30 percent	slopes NV	VI Classification: No.	ne		
Are climatic/hydrologic conditions on the site typical for this t Are vegetation □/⊠soil □/ဩor hydrology□/⊠significa Are vegetation □/⊠soil □/⊠or hydrology□/⊠haturally	intly disturbe	d? Are norr	mal circums	tances present?	Note: On checkman means ye choice) m	rk (left es, the	choice) X (right
Summary of Findings (Attach site map showing samp Hydrophytic vegetation?	• .				Dther waters? ✓	1 /□	
Evaluation of features designated "Other Water Indicators: Defined bed and bank Scour _ Feature Designation: Perennial Intermittent E	Ordin phemeral	ary High Wa Blue-lin Navigable \	ater Mark Mark Mare on USGS	apped Stream Quad Substi	Width 4' rate Gravel		
/egetation (Use Scientific Names) Tree Stratum (Plot Size:)	Absolute % Cover	Dominant Species?		Dominance Test Number of domina that are OBL, FAC	nt species W, or FAC:		. (A)
				Total number of do	minant species		
				across all strata: Percent of dominal	nt species that		(B)
				are OBL, FACW, o			(A/B)
50%= Total Cover	:			Prevalence Index	Worksheet		
Sapling/Shrub Stratum (Plot Size:)	% Cover	Species?	Status	Total % Cover of:		<u>) y</u>	
· <u></u>				OBL Species	x 1 =	0	
·				FACW Species	x 2 =	0	
·				FAC Species	x 3 =	0	_
·				FACU Species	x 4 =	0	
50%= Total Covers				UPL Species	x 5 =	0	
erb Stratum (Plot Size:)		Species?		Column Totals			
·				Prevalence Index =			
·							
·				Prevalence	for Hydrophytic \ Test is >50% Index is <u><</u> 3.0 ¹	/egetatio	
				Morphologic			
·					narks or on a sep n-Vascular Plant		icel)
				Problemation	: Hydrophytic Ve	getation	
50%=			o	¹ Indicators of hydri be present.	ic soil and wetlar	nd hydro	logy must
Voody/Vine Stratum (Plot Size:)				Hydrophytic Vege	etation Present?	· □/×]
50%= 20%= Total Cover % Bare Ground in Herb Stratum % Cover of Bi							

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rofile De: Depth	scription: (De Matrix		ne depth	needed to docume Redox Features	ent the inc	dicator or co		absence of indica	1013.
inches)	Color (m		<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	<u>Remarks</u>
	= Concentration	n D = Denle	tion RN	M = Reduced Matrix	2	Location: P	 = Pore Lin	ing M = Matrix	
				RRs, unless otherw					Problematic Hydric Soils
•	istosol (A1)	(дрисавіс	to all Li	Crts, unless otherw Sandy				2 cm N	•
	istic Epipedon	(A2)		Strippe		-			arent Materials (TF21)
	lack Histic (A3					(30) Iineral (ex c	ent		hallow Dark Surface (TF12
	ydrogen Sulfic			,	1) (F1)	iii ciai (cxc	СРГ	•	ited Sand/Gravel Bars
-	epleted Below		ce (A11)		, , ,	Matrix (F2)		•	(Explain in Remarks)
	hick Dark Surf		00 (/ 11 1)	Deplet	,				Explain in Romano,
	andy Mucky W	, ,		Redox		. ,		³ Indicators of	hydrophytic vegetation and
	andy Gleyed N					Surface (F7)		ology must be present.
		(* ',		Redox		•	,	J	33
	ve Laver (if nr	esent): Typ)e:		Denth (I	nches)	Hydı	ric Soil Present?	·×
Restrictiv	vc Layor (ii pi				Dopui (ii				
Remarks No soils	s pit scoure				Бориг				
Remarks No soils Hydrol Wetland	s pit scoure ogy Indicators	d channe							icators (2 or more required
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Remarks No soils Hydrol Wetland Primary I	s pit scoure ogy Indicators Indicators (Mir	d channel		uired. Check all tha	at apply.) Stained L	eaves (B9)	except	Secondary Ind	Stained Leaves (B9) excep
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Remarks No soils Hydrol Wetland Primary I So W So Do	s pit scoure ogy Indicators Indicators (Mir urface Water (igh Water Tab aturation (A3) /ater Marks (B ediment Depo	d channel nimum of or (A1) le (A2) 1) sits (B2) 33)		uired. Check all that —— Water MLRA —— Salt Co —— Aquati —— Hydroo	at apply.) Stained L A 1,2,4A, a rust (B11) c Inverteb gen Sulfid ed Rhizos	eaves (B9) and 4B) orates (B13)) 3)	Secondary Ind Water MLRA Draina Dry-Se Satura Aerial	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on
Hydrol Wetland Primary I So Wetland Primary I All All All All All All All All All A	s pit scoure Ogy Indicators Indicators (Mir urface Water (igh Water Tab aturation (A3) /ater Marks (B ediment Depo rift Deposits (E	d channel nimum of or (A1) le (A2) 1) sits (B2) 33) ust (B4)		uired. Check all that Water MLRA Salt Ci Aquati Hydrog Oxidiz Preser	at apply.) Stained L A 1,2,4A, a rust (B11) c Inverteb gen Sulfid ed Rhizos	eaves (B9) and 4B) orates (B13 le Odor (C1 spheres (C3 duced Iron)) 3)	Secondary Ind —— Water MLRA —— Draina —— Dry-Se —— Satura Aerial ✓ Geome	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9)
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Remarks No soils Hydrol Wetland Primary I So Hi Al Iro So	s pit scoure ogy Indicators Indicators (Mir urface Water (igh Water Tab aturation (A3) /ater Marks (B ediment Depo rift Deposits (E Igal Mat or Cru on Deposits (E	nimum of or A1) le (A2) 1) sits (B2) 33) ust (B4) B5) acks (B6)	e is requ	uired. Check all that Water MLRA Salt Co Aquati Hydroo Oxidiz Preser Recen Tilled	at apply.) Stained L A 1,2,4A, a rust (B11) c Inverteb gen Sulfid ed Rhizos nce of Rea t Iron Rea Soils (C6)	eaves (B9) and 4B) orates (B13 le Odor (C1 spheres (C3 duced Iron duction in)) 3) (C4)	Secondary Ind Water MLRA Draina Dry-Se Satura Aerial ✓ Geome Shallov FAC-N	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) or Aquitard (D3) eutral Test (D5)
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Remarks No soils Hydrol Wetland Primary I Si Hi Si Si Si Field Ob Surface W	s pit scoure Ogy Indicators Indicators (Min urface Water (igh Water Tab aturation (A3) /ater Marks (B ediment Depo rift Deposits (E lgal Mat or Cru on Deposits (E urface Soil Cra aundation Visib magery (B7) parsely Vegeta urface (B8) oservations	d channel nimum of or (A1) le (A2) 1) ssits (B2) 33) ust (B4) 35) acks (B6) ole on Aerial ated Concar	ve No_	uired. Check all that Water MLRA Salt Cl Aquati Oxidiz Preser Recen Tilled Stunte (D1) (at apply.) Stained L A 1,2,4A, a rust (B11) c Inverteb gen Sulfid ed Rhizos nce of Rec t Iron Rec Soils (C6) d or Stres LRR A) (Explain in	eaves (B9) and 4B) orates (B13 le Odor (C1 spheres (C3 duced Iron duction in) ssed Plants n Remarks)) (C4)	Secondary Ind Water MLRA Draina Dry-Se Satura Aerial ✓ Geome Shallov FAC-N Raised Frost-F	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) leason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) ov Aquitard (D3) eutral Test (D5) I Ant Mounds (D6) (LRR A) Heave Hummocks (D7)

Surface water from snow melt provides wetland hydrology.



						Data Point _		50
Wetland Determination Data Form-				•	· ·	Feature Type _	vou-ve	egetated Ditcl
Project/Site: Fountain Wind			City/County	Shasta C	County)ate:	11/17/17
Applicant/Owner: Avangrid					State: Ca			
Investigator(s): Gabe youngblood				_ Section	, Township, Range <u>Se</u>	c. 27, T34N, R1	.E	
Landform (hillslope, terrace, etc.) Drainage Subregion (LRR): MLRA 22B			_ Local relie	ef (concave,	convex, none) Conce	ave SI	lope %	<u>2</u>
					-121.841876°	Datum:	NA	D83
Soil Map Unit Name: Windy and McCarthy stor	ny sandy lo	oams, 0 to	30 percent	slopes NV	VI Classification: None	9		
Are climatic/hydrologic conditions on the site typica	al for this tir	ne of year?	$\sqrt{ (If n) }$	o, explain ii	n Remarks.)	Note: On th checkmark		
Are vegetation □/☑soil □/☑or hydrology □/	Significar	ntly disturbe	d? Are norn	nal circums	tances present? 🗸 🗀	means yes,		
Are vegetation \(\sum \subseteq \si						choice) mea		
Summary of Findings (Attach site map show	vina campli	na point loc	ations trans	octs impor	tant foatures, etc.)			
Hydrophytic vegetation?	-					thor waters 2.7/	\neg	
					ea a welland?	iner waters?		
Evaluation of features designated "Oth	ner Wate	rs of the	United St	ates"		21		
Indicators: Defined bed and bank Feature Designation: Perennial Intermitten	_ Scour	✓ Ordin	ary High Wa	ter Mark Ma	apped <u>▼</u> Stream V	/idth _3		
Natural Drainage Art	ificial Drain	age	Navigable V	Vater	Quau Substia	re		
Remarks DP Documents the a non-veget	tated ditcl	h which c	onveys wa	ater along	the side of a road	from the epher	neral	stream
documented by DP49 to the interest of the inte	ermilleni	Stream do	ocumente	а бу БР4	0.			
					1			
Vegetation (Use Scientific Names)		Absolute % Cover	Dominant		Dominance Test W			
Tree Stratum (Plot Size:)		% Cover	Species?	Status	Number of dominant that are OBL, FACW			(Δ)
2					Total number of don			(1)
					across all strata:			(B)
3					Percent of dominant are OBL, FACW, or			(A/B)
4		0						(/
Sapling/Shrub Stratum (Plot Size:		% Cover	Species?	Status	Prevalence Index V			
24piing/31iidb 3tiatum (1 lot 3ize	_/	70 COVCI	Эрсско:	Status	Total % Cover of: OBL Species _		_	
2					· ·			_
3					FACW Species _		_	_
J.					'	x 3 = _		_
50%=	otal Cover:	0			FACU Species _	x 4 = _		
	Jiai Cuvei.		Species?	Status	UPL Species _			_
Herb Stratum (Plot Size:)			•		Column Totals _	(A)	0	(B)
1 2					Prevalence Index =	B/A =		
					Lludraphytia Vagat	ation Indicators		
3					Hydrophytic Veget Rapid Test fo		etatic	n
4					Dominance T	est is >50%	,	
5					Prevalence Ir	idex is $\leq 3.0^{\circ}$	rovido	cupporting
6					Morphologica	arks or on a separa	ovide ate sh	eet)
7					Wetland Non	-Vascular Plants ¹		
8					Problematic I			
50%=			C- ' C	Chair	¹ Indicators of hydric be present.	Suii anu Weliana i	iyulol	ugy must
Woody/Vine Stratum (Plot Size:)			•		,	-		
1					Hydrophytic Veget	ation Present?		
2								
50%=	otal Cover:							
We ward teroting in Horn Stratilm 9/1 Co	WAL OF BIO	HC L'THCT			1			

\sim	• 1	
\setminus \cap	ш	C

	Matrix			Redox Features					
nches)	Color (m	<u>oist)</u> —— —	<u>%</u> 	Color (moist)	<u>%</u>	<u>Type¹</u>	Loc ²	<u>Texture</u>	<u>Remarks</u>
ypes: C	= Concentration	n D = Dep	etion R	M = Reduced Matrix	2	Location: P	L = Pore Lir	ing M = Matrix	
ydric So	il Indicators:	(Applicab	le to all L	RRs, unless otherw	ise noted	i)		Indicators for	Problematic Hydric Soils
Hi	istosol (A1)			Sandy	Redox (S	S5)		2 cm N	luck (A10)
Hi	istic Epipedon	(A2)		Strippe	ed Matrix	(S6)		Red Pa	arent Materials (TF21)
BI	ack Histic (A3)		Loamy	Mucky N	Aineral (exc	ept	Very S	hallow Dark Surface (TF12
H	ydrogen Sulfid	e (A4)		MLRA	1) (F1)			Vegeta	ted Sand/Gravel Bars
D	epleted Below	Dark Surf	ace (A11) Loamy	Gleyed I	Matrix (F2)		Other (Explain in Remarks)
Tł	nick Dark Surf	ace (A12)		Deplet	ed Matrix	(F3)			
Sa	andy Mucky M	ineral (S1)	Redox	Dark Su	rface (F6)		³ Indicators of	hydrophytic vegetation and
Sa	andy Gleyed N	/latrix (S4)		•		Surface (F7)	wetland hydro	logy must be present.
				Redox	Depress	ions (F8)			
Restrictiv	e Layer (if pr	esent): Ty	/pe:		Depth (I	Inches)	Hyd	ric Soil Present?	/ X
	s s pit scoure	d channe	el.						
Remarks No soils		d channe	el.						
No soils	s pit scoure	d channe	el.						
No soils Hydrol Wetland	ogy Indicators			uired. Check all tha	at apply.)			Secondary Indi	cators (2 or more required
Hydrol Wetland Primary I	ogy Indicators	nimum of c				_eaves (B9)	except	-	cators (2 or more required Stained Leaves (B9) exce
No soils Hydrol Wetland Primary I	ogy Indicators	nimum of c		Water		Leaves (B9)	except	Water S	·
Hydrol Wetland Primary I	ogy Indicators Indicators (Mir	nimum of c		Water MLRA	Stained L	Leaves (B9) and 4B)	except	Water : MLRA	Stained Leaves (B9) excep
Hydrol Wetland Primary I So Hi So	ogy Indicators Indicators (Mir	nimum of c A1) Ie (A2)		Water MLRA Salt Cr	Stained L 1,2,4A, rust (B11)	Leaves (B9) and 4B)	·	Water : MLRA Draina	Stained Leaves (B9) excep 1,2,4A, and 4B)
Hydrol Wetland Primary I So Hi So Wetland Primary I So	ogy Indicators Indicators (Mir urface Water (aigh Water Tab aturation (A3) Vater Marks (B	A1) le (A2) 1) sits (B2)		Water MLRA Salt Cr Aquati	Stained L 1,2,4A, rust (B11) c Inverteb	Leaves (B9) and 4B)))	Water : MLRA Draina Dry-Se	Stained Leaves (B9) exce 1,2,4A, and 4B) ge Patterns (B10)
Hydrole Wetland Primary I So Wetland So Do Do	ogy Indicators Indicators (Mir urface Water (igh Water Tab aturation (A3) /ater Marks (B ediment Deposits (E	nimum of c A1) le (A2) 1) sits (B2)		Water MLRA Salt Cr Aquati Hydroq Oxidize	Stained L A 1,2,4A, rust (B11) c Invertel gen Sulficed Rhizos	Leaves (B9) and 4B)) brates (B13) de Odor (C1 spheres (C3)) 3)	Water S MLRA Drainag Dry-Se Saturat Aerial	Stained Leaves (B9) exception 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on Imagery (C9)
Hydrol Wetland Primary I So Hi So Do A	ogy Indicators Indicators (Mir urface Water (igh Water Tab aturation (A3) Vater Marks (B ediment Depo- rift Deposits (E gal Mat or Cru	nimum of co A1) le (A2) 1) sits (B2) 33) ust (B4)		Water MLRA Salt Cr Aquati Hydrog Oxidize	Stained L A 1,2,4A, rust (B11) c Invertel gen Sulficed Rhizos nce of Re	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) duced Iron)) 3)	Water S MLRA Drainag Dry-Se Saturat Aerial ✓ Geomo	Stained Leaves (B9) exception 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) cion Visible on Imagery (C9) orphic Position (D2)
Hydroli Wetland Primary I So Hi So U Al	ogy Indicators Indicators (Mir urface Water (igh Water Tab aturation (A3) Vater Marks (B ediment Depo- rift Deposits (E igal Mat or Cru on Deposits (E	nimum of c A1) le (A2) 1) sits (B2) 33) ust (B4)		Water MLRA Salt Cr Aquati Hydrog Oxidize Preser Recen	Stained L A 1,2,4A, rust (B11) c Inverted gen Sulfice ed Rhizos nce of Re t Iron Rec	Leaves (B9) and 4B)) brates (B13) de Odor (C1 spheres (C3 duced Iron duction in)) 3)	MLRA MLRA Draina Dry-Se Saturat Aerial ✓ Geomo	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) cition Visible on Imagery (C9) orphic Position (D2) v Aquitard (D3)
Hydrol Wetland Primary I So Hi So No So I So	ogy Indicators Indicators (Mir urface Water (aigh Water Tabe aturation (A3)) Vater Marks (Bediment Deporiff Deposits (Eigal Mat or Cruon Deposits (Eigarface Soil Cra	nimum of co A1) le (A2) 1) sits (B2) 33) ust (B4) 95) acks (B6)	one is req	Water MLRA Salt Cr Aquatir Hydrog Oxidize Preser Recen Tilled	Stained L 1,2,4A, rust (B11) c Invertel gen Sulfice ed Rhizos nce of Re t Iron Rec Soils (C6	Leaves (B9) and 4B) brates (B13) de Odor (C1 spheres (C3) duced Iron duction in)) (C4)	Water S MLRA Draina Dry-Se Saturat Aerial ✓ Geomo Shallow FAC-N	Stained Leaves (B9) exception 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) cion Visible on Imagery (C9) orphic Position (D2) v Aquitard (D3) eutral Test (D5)
Hydroli Wetland Primary I So Hi Al Iro So In	ogy Indicators Indicators (Mir urface Water (igh Water Tab aturation (A3) Vater Marks (B ediment Depo- rift Deposits (E gal Mat or Cru on Deposits (E urface Soil Cra undation Visib	nimum of co A1) le (A2) 1) sits (B2) 33) ust (B4) 95) acks (B6)	one is req	Water MLRA Salt Cr Aquati Hydrog Oxidize Preser Recen Tilled Stunte	Stained L A 1,2,4A, rust (B11) c Inverted gen Sulfice ed Rhizos nce of Re t Iron Rec Soils (C6 d or Stres	Leaves (B9) and 4B)) brates (B13) de Odor (C1 spheres (C3 duced Iron duction in)) (C4)	Water S MLRA Drainag Dry-Se Satural Aerial ✓ Geomo Shallov FAC-N Raised	Stained Leaves (B9) exception 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) cion Visible on Imagery (C9) orphic Position (D2) or Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A)
Hydrole Wetland Primary I So Hi So U Al Iro Iro Iro	ogy Indicators Indicators (Mir urface Water (igh Water Tab aturation (A3) Vater Marks (B ediment Deposits (E Igal Mat or Cru on Deposits (E urface Soil Cra undation Visib	nimum of co A1) Ile (A2) 1) sits (B2) 33) ust (B4) ust (B4) decks (B6) lle on Aeri	one is req	Water MLRA Salt Cr Aquati Hydrog Oxidize Preser Recen Tilled Stunte	Stained L A 1,2,4A, rust (B11) c Inverted gen Sulfice ed Rhizos nce of Re t Iron Rec Soils (C6 d or Stres LRR A)	Leaves (B9) and 4B)) brates (B13) de Odor (C1 spheres (C3 duced Iron duction in b) ssed Plants)) (C4)	Water S MLRA Drainag Dry-Se Satural Aerial ✓ Geomo Shallov FAC-N Raised	Stained Leaves (B9) excellar, 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) cion Visible on Imagery (C9) orphic Position (D2) v Aquitard (D3) eutral Test (D5)
Hydrole Wetland Primary I So Hi So I I I I I So I I I I I I I I I I I I	ogy Indicators Indicators (Mir urface Water (igh Water Tab aturation (A3) Vater Marks (B ediment Depo- rift Deposits (E gal Mat or Cru on Deposits (E urface Soil Cra undation Visib	nimum of co A1) Ile (A2) 1) sits (B2) 33) ust (B4) ust (B4) decks (B6) lle on Aeri	one is req	Water MLRA Salt Cr Aquati Hydrog Oxidize Preser Recen Tilled Stunte	Stained L A 1,2,4A, rust (B11) c Inverted gen Sulfice ed Rhizos nce of Re t Iron Rec Soils (C6 d or Stres LRR A)	Leaves (B9) and 4B) brates (B13) de Odor (C1 spheres (C3) duced Iron duction in)) (C4)	Water S MLRA Drainag Dry-Se Satural Aerial ✓ Geomo Shallov FAC-N Raised	Stained Leaves (B9) exception 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) cion Visible on Imagery (C9) orphic Position (D2) or Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A)
No soils Hydrole Wetland Primary I So Hi So So In Ir So So So So So In Ir So So So So So So So So So S	ogy Indicators Indicators (Mir urface Water (aigh Water Tabe aturation (A3)) Vater Marks (Bediment Deporiff Deposits (Bigal Mat or Cruon Deposits (Bigarface Soil Craundation Visibinagery (B7) parsely Vegeta	nimum of co A1) Ile (A2) 1) sits (B2) 33) ust (B4) ust (B4) decks (B6) lle on Aeri	one is req	Water MLRA Salt Cr Aquati Hydrog Oxidize Preser Recen Tilled Stunte	Stained L A 1,2,4A, rust (B11) c Inverted gen Sulfice ed Rhizon nce of Re t Iron Rec Soils (C6 d or Stres LRR A) (Explain i	Leaves (B9) and 4B)) brates (B13) de Odor (C1 spheres (C3 duced Iron duction in b) sseed Plants in Remarks))) (C4)	Water S MLRA Drainag Dry-Se Satural Aerial ✓ Geomo Shallov FAC-N Raised	Stained Leaves (B9) exception 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) cion Visible on Imagery (C9) orphic Position (D2) or Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A)
No soils Hydrole Wetland Primary I ✓ Si ✓ Hi ✓ Si On Iro Iro Iro Si Si Field Ob	ogy Indicators Indicators (Mir urface Water (igh Water Tab aturation (A3) Vater Marks (B ediment Depor rift Deposits (E gal Mat or Cru on Deposits (E urface Soil Cra undation Visib magery (B7) parsely Vegeta urface (B8)	nimum of co A1) Ile (A2) 1) sits (B2) 33) ust (B4) ust (B4) decks (B6) lle on Aeri	al ave	Water MLRA Salt Cr Aquati Hydrog Oxidize Preser Recen Tilled Stunte (D1) (i	Stained L A 1,2,4A, rust (B11) c Invertel gen Sulfic ed Rhizos nce of Re t Iron Rec Soils (C6 d or Stres LRR A) (Explain i	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) duced Iron duction in b) ssed Plants In Remarks))) (C4)	Water S MLRA Drainag Dry-Se Satural Aerial ✓ Geomo Shallov FAC-N Raised	Stained Leaves (B9) exception 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) cion Visible on Imagery (C9) orphic Position (D2) ov Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) Ileave Hummocks (D7)
No soils Hydrole Wetland Primary I ✓ So ✓ Hi ✓ So — Al Iro — In Ir — Sp Su Field Ob Surface W	ogy Indicators Indicators (Mir urface Water (igh Water Tab aturation (A3) /ater Marks (B ediment Depo- rift Deposits (B gal Mat or Cru on Deposits (B urface Soil Cra undation Visib magery (B7) parsely Vegeta urface (B8) eservations	nimum of co A1) Ie (A2) 1) sits (B2) 33) ust (B4) 95) acks (B6) ale on Aeria	al ave	Water MLRA Salt Cr Aquati Hydrog Oxidize Preser Recen Tilled Stunte (D1) (i	Stained L A 1,2,4A, rust (B11) c Invertel gen Sulfic ed Rhizos nce of Re t Iron Rec Soils (C6 d or Stres LRR A) (Explain i	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) duced Iron duction in b) ssed Plants In Remarks))) (C4)	Water S MLRA Drainag Dry-Se Satural Aerial ✓ Geomo Shallov FAC-N Raised Frost-H	Stained Leaves (B9) exception 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) cion Visible on Imagery (C9) orphic Position (D2) ov Aquitard (D3) eutral Test (D5) Ant Mounds (D6) (LRR A) Ileave Hummocks (D7)

Surface water from snow melt provides wetland hydrology.



Watland Datarmination Data Form Western	a Marinti	sino Vall	0.40 0 0	Data Point51 Coast Region Feature Type Riparian wetland
Wetland Determination Data Form-Westerr			•	Todast Rogion Todato Type
Project/Site: Fountain Wind		City/County	Shasta C	County Date: 11/28/17
Applicant/Owner: Avangrid				State: California
Investigator(s): Gabe Youngblood			_ Section	, Township, Range Sec. 33, T34N, R1E
Landform (hillslope, terrace, etc.) Depression		_ Local relie	ef (concave	, convex, none) Concave Slope % 1
).761519°		Long:_	-121.870985° Datum: NAD83
Soil Map Unit Name: Cohasset stony loam, 30 to 50 per	cent slope	S	N\	WI Classification: None
Are climatic/hydrologic conditions on the site typical for this tir Are vegetation □/⊠soil □/⊠or hydrology□/⊠significar Are vegetation □/⊠soil □/⊠or hydrology□/⊠haturally	ntly disturbe	d? Are norn	nal circums	tances present? I means yes, the X (right
Summary of Findings (Attach site map showing sampli Hydrophytic vegetation? Hydric soil? Wetland				
Evaluation of features designated "Other Wate Indicators: Defined bed and bank Scour _ Feature Designation: Perennial Intermittent Ep Natural Drainage Artificial Drain Remarks DP documents a riparian wetland in a sli	Ordina hemeral nage	ary High Wa Blue-lin Navigable V	ter Mark Ma e on USGS	apped Stream Width Quad Substrate
Vegetation (Use Scientific Names) Tree Stratum (Plot Size: 30' radius) 1. Fraxinus latifolia 2.	Absolute % Cover 40	Dominant Species? Y		Dominance Test Worksheet Number of dominant species that are OBL, FACW, or FAC:3 (A) Total number of dominant species across all strata:6 (B)
3. 4.				Percent of dominant species that are OBL, FACW, or FAC: [B] [B] [C] [A/B)
50%= 20 20%= 8 Total Cover: Sapling/Shrub Stratum (Plot Size: 15' radius) 1. Abies concolor	40 <u>% Cover</u> 3	Species?	Status UPL	Prevalence Index Worksheet Total % Cover of: Multiply by OBL Species x 1 =0
2. Rubus leucodermis	3	Υ	FACU	FACW Species 40 x 2 = 80
3.				
4.				TAC Species x s =
	6			FACU Species 3 x 4 = 12
50%=3 20%=1.2 Total Cover: Herb Stratum (Plot Size: 5' Radius)		Cnasiasa	Ctatus	UPL Species5 x 5 =25
1 Panicum acuminatum	% Cover 3	Species?	FAC	Column Totals(A)
0		Y	FAC	Prevalence Index = B/A =2.50
Smilay californica	2	Y		
4				Hydrophytic Vegetation Indicators Rapid Test for Hydrophytic Vegetation Dominance Test is >50% Prevalence Index is < 3.01
6 7				Morphological Adaptations¹ (provide supporting data in Remarks or on a separate sheet) Wetland Non-Vascular Plants¹
8				Problematic Hydrophytic Vegetation ¹ (Explain)
50%=3.5	% Cover	•		Indicators of hydric soil and wetland hydrology must be present. ————
1. 2.				Hydrophytic Vegetation Present? ☐/⊠
50%= Total Cover:				
50%=				

\sim		1
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w	ш	. 7

Profile D Depth	e scription : (Describ Matrix	be to the de	Redox Feature:	:				
(<u>inches</u>) 0-16	Color (moist) 7.5YR 4/2	<u>%</u> 80	<u>Color (moist)</u> 7.5YR 4/6	<u>%</u> 20	Type ¹ C	Loc ² PL	<u>Texture</u> Loam	<u>Remarks</u> Clay
		_						
Types:	C = Concentration D =	Depletion	RM = Reduced Matr	X	² Location: P	L = Pore Lir	ning M = Ma	ıtrix
Hydric S	oil Indicators: (App	licable to a	II LRRs, unless othe	wise noted	d)		Indicator	s for Problematic Hydric Soils ³
	Histosol (A1)		San	dy Redox (S5)		2	cm Muck (A10)
	Histic Epipedon (A2)		Strip	ped Matrix	(S6)		R	ed Parent Materials (TF21)
	Black Histic (A3)			,	Mineral (ex o	ept		ery Shallow Dark Surface (TF12)
	Hydrogen Sulfide (A	-		A 1) (F1)				egetated Sand/Gravel Bars
	Depleted Below Dark	-		5	Matrix (F2)		0	ther (Explain in Remarks)
	Thick Dark Surface (A	-		eted Matrix	• •		2	
	Sandy Mucky Minera			ox Dark Su				ors of hydrophytic vegetation and
	Sandy Gleyed Matrix	(S4)			Surface (F7)	wetland	hydrology must be present.
			Rea	ox Depress	Sions (F8)			
Restric	tive Layer (if present	t): Type: N	lone	Depth (Inches)	Hyd	ric Soil Pres	ent? ✓ /
1103010						,		
	ks							
Remar			: " · 50 B					
Remar	ks meet the requiren	nents for	indicator F3 Dep	leted Ma	ıtrix.			
Remar Soils i	meet the requiren	nents for	indicator F3 Dep	leted Ma	trix.			
Remar Soils I	meet the requiren	nents for	indicator F3 Dep	leted Ma	trix.			
Remar Soils i	meet the requiren						<u>Secondar</u>	y Indicators (2 or more required)
Remar Soils I Hydro Wetlan Primary	meet the requirent plogy ad Indicators y Indicators (Minimun		required. Check all	hat apply.))	evcent		
Remar Soils I Hydro Wetlan Primary	Dlogy Ind Indicators Y Indicators (Minimum Surface Water (A1)	n of one is	required. Check all	hat apply.) er Stained	Leaves (B9)) except	W	/ater Stained Leaves (B9) except
Remar Soils I Hydro Wetlan Primary	plogy Indicators Y Indicators (Minimum Surface Water (A1) High Water Table (A2)	n of one is	required. Check all Wat ML	hat apply.) er Stained RA 1,2,4A,	Leaves (B9)) except	V\	/ater Stained Leaves (B9) except /ILRA 1,2,4A, and 4B)
Remar Soils I Hydro Wetlan Primary	Dlogy Id Indicators Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3)	n of one is	required. Check all —— Wat ML Salt	hat apply.) er Stained RA 1,2,4A, Crust (B11	Leaves (B9) and 4B)		W N D	/ater Stained Leaves (B9) except /ILRA 1,2,4A, and 4B) rainage Patterns (B10)
Remar Soils I Hydro Wetlan Primary	plogy Ind Indicators Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	n of one is	required. Check all Wat ML Salt Aqu	hat apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte	Leaves (B9) and 4B)) brates (B13)	W D D	/ater Stained Leaves (B9) except /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2)
Remar Soils I Hydro Wetlan Primary	Dlogy Id Indicators Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3)	n of one is	required. Check all —— Wat ML —— Salt —— Aqu —— Hyd	hat apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte	Leaves (B9) and 4B)) brates (B13 de Odor (C1)	W D D S	/ater Stained Leaves (B9) except //LRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on
Remar Soils I Hydro Wetlan Primary	Dlogy Id Indicators Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3)	n of one is 2) 32)	required. Check all Wat ML Salt —— Aqu —— Hyd	hat apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte ogen Sulfi	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3)) 3)	WDDS	/ater Stained Leaves (B9) except /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9)
Remar Soils I Hydro Wetlan Primary	meet the requirement of the requ	n of one is 2) 32)	required. Check all —— Wat ML —— Salt —— Aqu —— Hyd —— Oxic	hat apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte ogen Sulfi	Leaves (B9) and 4B)) brates (B13 de Odor (Caspheres (Caseduced Iron)) 3)	W D D S ✓G	/ater Stained Leaves (B9) except //LRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on
Remar Soils I Hydro Wetlan Primary	Dlogy Id Indicators Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B	n of one is 2) 32) 4)	required. Check all —— Wat ML —— Salt —— Aqu —— Hyd —— Oxio —— Pres	hat apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte rogen Sulficited Rhizo ence of Re	Leaves (B9) and 4B)) brates (B13 de Odor (C1 espheres (C3 educed Iron eduction in)) 3)	W D S 	Vater Stained Leaves (B9) except VILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) recomorphic Position (D2)
Hydro Wetlan Primary	Dlogy Id Indicators Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B1) Iron Deposits (B5)	n of one is 2) 32) 4) (B6)	required. Check all Wat ML Salt Aqu Hyd V Oxic Pres Tille	hat apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte ogen Sulficited Rhizo ence of Ree ent Iron Re d Soils (Co	Leaves (B9) and 4B)) brates (B13 de Odor (C1 espheres (C3 educed Iron eduction in) 3) (C4)	WDDS	/ater Stained Leaves (B9) except //LRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) leomorphic Position (D2) hallow Aquitard (D3)
Remar Soils I Hydro Wetlan Primary	Dlogy Id Indicators Indicators (Minimun Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (B3)	n of one is 2) 32) 4) (B6)	required. Check all —— Wat ML —— Salt —— Aqu —— Hyd —— Oxio —— Pres —— Rec —— Stur	hat apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte ogen Sulficited Rhizo ence of Ree ent Iron Re d Soils (Co	Leaves (B9) and 4B)) brates (B13 de Odor (C1 espheres (C3 educed Iron eduction in) 3) (C4)	W D S 	/ater Stained Leaves (B9) except //LRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) ecomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5)
Remar Soils I Hydro Wetlan Primary	meet the requiremental pology and Indicators (Minimum Surface Water (A1) High Water Table (A2) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on	n of one is 2) 32) 4) (B6) Aerial	required. Check all Wat ML Salt Aqu Hyd Y Oxio Pres Tille Stur (D1	hat apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte ogen Sulficited Rhizo ence of Re ent Iron Re d Soils (Coted or Stre (LRR A)	Leaves (B9) and 4B)) brates (B13 de Odor (C1 espheres (C3 educed Iron eduction in))) 3) (C4)	W D S 	/ater Stained Leaves (B9) except //LRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) reomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A)
Remar Soils I Hydro Wetlan Primary	Dlogy Id Indicators Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on	n of one is 2) 32) 4) (B6) Aerial	required. Check all Wat ML Salt Aqu Hyd Y Oxio Pres Tille Stur (D1	hat apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte ogen Sulficited Rhizo ence of Re ent Iron Re d Soils (Coted or Stre (LRR A)	Leaves (B9) and 4B)) brates (B13 de Odor (C1 espheres (C) educed Iron eduction in 6) essed Plants))) 3) (C4)	W D S 	/ater Stained Leaves (B9) except //LRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) reomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A)
Remar Soils I Hydro Wetlan Primary	Dlogy Id Indicators Indicators (Minimun Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Imagery (B7) Sparsely Vegetated (A1)	n of one is 2) 32) 4) (B6) Aerial	required. Check all Wat ML Salt Aqu Hyd Y Oxio Pres Tille Stur (D1	hat apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte ogen Sulficited Rhizo ence of Re ent Iron Re d Soils (Coted or Stre (LRR A)	Leaves (B9) and 4B)) brates (B13 de Odor (C1 espheres (C) educed Iron eduction in 6) essed Plants))) 3) (C4)	W D S 	/ater Stained Leaves (B9) except //LRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) reomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A)
Remar Soils I Hydro Wetlan Primary	Dlogy Id Indicators Indicators (Minimum Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Imagery (B7) Sparsely Vegetated (Surface (B8) Disservations	n of one is 2) 32) 4) (B6) Aerial Concave	required. Check all Wat ML Salt Aqu Hyd V Oxio Pres Rec Tille Stur (D1	hat apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte ogen Sulficited Rhizo ence of Re ent Iron Re d Soils (Coted or Stre (LRR A)	Leaves (B9) and 4B)) brates (B13 de Odor (C1 espheres (C3 educed Iron eduction in 6) essed Plants in Remarks))) 3) (C4)	W D S 	/ater Stained Leaves (B9) except //LRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) recomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
Remar Soils I Hydro Wetlan Primary	Dlogy Id Indicators Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B1) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Imagery (B7) Sparsely Vegetated (Surface (B8) Disservations Water Present? Yes	n of one is 2) 32) 4) (B6) Aerial Concave	required. Check all Wat ML Salt Aqu Hyd Voxio Pres Rec Tille Stur (D1 Othe	hat apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte togen Sulfir ized Rhizo ence of Re ent Iron Re d Soils (Co ted or Stre (LRR A) er (Explain	Leaves (B9) and 4B)) brates (B13 de Odor (C1 espheres (C3 educed Iron eduction in 6) essed Plants in Remarks))) 3) (C4)	W	/ater Stained Leaves (B9) except //LRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) recomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)

Oxidized rhizospheres indicate long duration saturation.



Wetland Determination Data Form-Westerr	n Mount:	ains Vall	levs & (Data Point
Project/Site: Fountain Wind			•	
Applicant/Owner: Avangrid		City/County		State: California
Investigator(s): Gabe Youngblood			Section	, Township, Range Sec. 33, T34N, R1E
Landform (hillslope, terrace, etc.) Hillslope		L ocal relie	ef (concave	, convex, none) convex Slope % 1
Subregion (LRR): MLRA 22B Lat: 40		_ Local Telle	I ona.	-121.870946° Datum: NAD83
Soil Map Unit Name: Cohasset stony loam, 30 to 50 per		s	20119 NI	MI Classification. None
Are climatic/hydrologic conditions on the site typical for this tin				Note: On this e-form, the
Are vegetation □/⊠soil □/⊠or hydrology□/⊠significa	-			Checkmark (left choice)
Are vegetation	-			
	•		· · · · · · · · · · · · · · · · · · ·	in Nomano,
Summary of Findings (Attach site map showing sampli				
Hydrophytic vegetation? 🗌 🛛 Hydric soil? 🖟 🔀 Wetland	l hydrology?	∐ ⊠ Is s	sampled are	ea a wetland? _\X\Dther waters?_\/\X
Feature Designation: Perennial Intermittent Ex	Ordina	ary High Wa Blue-lin	iter Mark M e on USGS	apped Stream Width 5 Quad Substrate _
Vegetation (Use Scientific Names) Tree Stratum (Plot Size: 30') Calocedrus decurrens	Absolute % Cover 30	Dominant Species? Y		Dominance Test Worksheet Number of dominant species that are OBL, FACW, or FAC:(A)
Pinus ponderosa	5	N	FACU	Total number of dominant species
3. Acer macrophyllum	5	N	FACU	across all strata: 6 (B) Percent of dominant species that
4.				are OBL, FACW, or FAC:17 (A/B)
50%= 20 20%= 8 Total Cover:	40			
Sapling/Shrub Stratum (Plot Size: 15')	% Cover	Species?	Status	Prevalence Index Worksheet Total % Cover of: Multiply by
Acer macrophyllum	40	Y	UPL	OBL Species x 1 =0
Abies concolor	15	Υ	FACU	FACW Species x 2 =0
Rubus leucodermis	10	N	FACU	FAC Species x 3 =0
4. Calocedrus decurrens	2	N	UPL	FACU Species x 4 =0
50%= 33.5 20%= 13.4 Total Cover:	67			
Herb Stratum (Plot Size: _5')	% Cover	Species?	Status	UPL Species x 5 =
	5	Y	FAC	Column Totals (A) (B)
Smilax californica	3	Υ	UPL	Prevalence Index = B/A =
3. Carex brainerdii		Υ	UPL	Hydrophytic Vegetation Indicators
4				Rapid Test for Hydrophytic Vegetation
5.				Dominance Test is >50%
5				Prevalence Index is $\leq 3.0^{1}$ Morphological Adaptations ¹ (provide supportin
7.				data in Remarks or on a separate sheet)
8.				Wetland Non-Vascular Plants ¹
50%=5 20%=2 Total Cover:				Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must
Woody/Vine Stratum (Plot Size:)		Snarias?	Status	be present.
1		•		Hudronhudio Vos della Press 10 MM
2.				Hydrophytic Vegetation Present? / X
50%=				
% Raro Cround in Herb Stratum 90 % Cover of Ric				

_		
$\mathbf{}$	ZII	c
ູວເ	711	٠.١

Depth	escription: (De Matri			Redox	Features					
inches))-16	Color (m 7.5YR 2.5/2		<u>%</u> 100	Color	(moist)	<u>%</u>	<u>Type¹</u>	Loc ²	Texture Loam	<u>Remarks</u>
ypes: (C = Concentration	n D = De	epletion	RM = Redu	ced Matrix	2	 Location: PL	= Pore Lin	ing M = Matrix	
ydric S	oil Indicators:	(Applica	ble to all	LRRs, unle	ess otherwi	se noted	1)		Indicators for	r Problematic Hydric Soils
	Histosol (A1)				Sandy	Redox (S	S5)		2 cm l	Muck (A10)
	Histic Epipedon	(A2)			Strippe	d Matrix	(S6)		Red P	arent Materials (TF21)
	Black Histic (A3)			Loamy	Mucky N	/lineral (exce	ept	Very S	Shallow Dark Surface (TF12
	Hydrogen Sulfic	le (A4)			MLRA	1) (F1)			Veget	ated Sand/Gravel Bars
	Depleted Below	Dark Su	urface (A	11)	Loamy	Gleyed I	Matrix (F2)		Other	(Explain in Remarks)
	Thick Dark Surf	ace (A12	2)		Deplete	ed Matrix	(F3)			
	Sandy Mucky M	lineral (S	61)		Redox	Dark Sur	rface (F6)		³ Indicators of	f hydrophytic vegetation and
	Sandy Gleyed N	∕latrix (S	4)				Surface (F7)		wetland hydr	ology must be present.
					Redox	Depress	ions (F8)			
Restric	tive Layer (if pr	esent):	Type: No	one		Denth (I	nches)	Hydr	ic Soil Present?	/ X
						Dopuii (i	,			
		dric so	il were			Dopui (i	, <u></u>			
No inc	dicators of hy	dric so	il were			Бориг (г				
No inc	dicators of hy			observed	l.					dicators (2 or more required
No incomplete Hydro Wetlan Primary	blogy d Indicators (Mir	nimum of		observed	l. heck all tha	t apply.)		evcent	Secondary Inc	·
No inc	blogy d Indicators / Indicators (Mir	nimum of		observed	l. neck all tha Water \$	t apply.) Stained L	Leaves (B9)	except	Secondary Inc	Stained Leaves (B9) exce
Hydro Wetlan Primary	blogy d Indicators Indicators (Mir Surface Water (High Water Tab	nimum of		observed	heck all tha Water S MLRA	t apply.) Stained L 1,2,4 A ,	_eaves (B9) and 4B)	except	Secondary Inc Water MLRA	Stained Leaves (B9) except 1,2,4A, and 4B)
Hydro Wetlan Primary	blogy Id Indicators Indicators (Mir Surface Water (High Water Tab	nimum of (A1) le (A2)		observed	neck all tha Water S MLRA Salt Cru	t apply.) Stained L 1,2,4A, ust (B11)	_eaves (B9) and 4B)	·	Secondary Inc Water MLRA Draina	Stained Leaves (B9) except 1,2,4A, and 4B) age Patterns (B10)
No inc	blogy Id Indicators Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B	nimum of (A1) Ile (A2)		observed	heck all tha Water S MLRA Salt Cru Aquatic	t apply.) Stained L 1,2,4A, ust (B11)	_eaves (B9) and 4B)) orates (B13)	·	Secondary Inc Water MLRA Draina Dry-Se	Stained Leaves (B9) except A 1,2,4A, and 4B) age Patterns (B10) eason Water Table (C2)
No inco	blogy Id Indicators Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Depo	nimum of (A1) ole (A2) 1) sits (B2)		observed	neck all tha Water S MLRA Salt Cru Aquatic	t apply.) Stained L 1,2,4A, ust (B11) Invertek	Leaves (B9) and 4B)) prates (B13) de Odor (C1)		Secondary Inc Water MLRA Draina Dry-Se	Stained Leaves (B9) except 1,2,4A, and 4B) age Patterns (B10) eason Water Table (C2) ation Visible on
No inc	blogy Id Indicators Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Depo	(A1) le (A2) 1) sits (B2)		observed	heck all tha Water S MLRA Salt Cru Aquatic Hydrog Oxidize	t apply.) Stained L 1,2,4A, ust (B11) Inverted en Sulfice	_eaves (B9) and 4B)) orates (B13)))	Secondary Inc Water MLRA Draina Dry-Se Satura	Stained Leaves (B9) excelor A 1,2,4A, and 4B) age Patterns (B10) eason Water Table (C2)
Hydro Wetlan Primary	blogy Id Indicators Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Depo	nimum of (A1) ole (A2) 1) sits (B2) 33) ust (B4)		observed	heck all tha Water S MLRA Salt Cru Aquatic Hydrog Oxidize Presen	t apply.) Stained L 1,2,4A, ust (B11) t Invertek en Sulfice d Rhizos	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3)))	Secondary Inc Water MLRA Draina Dry-Se Satura Aerial Geom	Stained Leaves (B9) excella 1,2,4A, and 4B) age Patterns (B10) eason Water Table (C2) ation Visible on Illmagery (C9)
No inco	blogy d Indicators / Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (E Algal Mat or Cru	nimum of (A1) ole (A2) 1) ssits (B2) 33) ust (B4)	f one is re	observed	heck all tha Water S MLRA Salt Cru Aquatic Hydrog Oxidize Presen Recent	t apply.) Stained L 1,2,4A, ust (B11) t Invertek en Sulfice d Rhizos	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in))	Secondary Inc Water MLRA Draina Dry-Se Satura Aerial Geom Shallo	Stained Leaves (B9) except A 1,2,4A, and 4B) age Patterns (B10) eason Water Table (C2) ation Visible on Imagery (C9) orphic Position (D2)
No incomplete Metlan Primary	blogy Id Indicators Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (E Algal Mat or Cru	nimum of (A1) ale (A2) 1) sits (B2) 33) ust (B4) 85) acks (B6)	f one is re	observed	heck all tha Water S MLRA Salt Cro Aquatic Hydrog Oxidize Presen Recent	t apply.) Stained L 1,2,4A, ust (B11) Inverted en Sulfice d Rhizos ce of Re Iron Rec Soils (C6	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in))	Secondary Inc Water MLRA Draina Dry-Se Satura Aerial Geom Shallo	Stained Leaves (B9) except A 1,2,4A, and 4B) age Patterns (B10) eason Water Table (C2) ation Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3)
Hydrce Wetlan Primary	blogy Id Indicators Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (E Algal Mat or Cru Iron Deposits (E Surface Soil Cra	nimum of (A1) ale (A2) 1) sits (B2) 33) ust (B4) 85) acks (B6)	f one is re	observed	heck all tha Water S MLRA Salt Cro Aquatic Hydrog Oxidize Presen Recent	t apply.) Stained L 1,2,4A, ust (B11) Inverted en Sulfice d Rhizos ce of Re Iron Rec Soils (C6	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in))	Secondary Inc Water MLRA Draina Dry-So Satura Aerial Geom Shallo FAC-N Raise	Stained Leaves (B9) except A 1,2,4A, and 4B) age Patterns (B10) eason Water Table (C2) ation Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) Neutral Test (D5)
Hydrce Wetlan Primary	blogy Id Indicators Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (E Algal Mat or Cru Iron Deposits (E Surface Soil Cra Inundation Visib	nimum of (A1) ale (A2) 1) sits (B2) 33) ust (B4) acks (B6) ale on Ae	f one is re	observed	heck all tha Water S MLRA Salt Cru Aquatic Hydrog Oxidize Presen Recent Tilled S Stuntec (D1) (L	t apply.) Stained L 1,2,4A, ust (B11) Invertet en Sulfic d Rhizos ce of Re Iron Rec Soils (C6	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in))	Secondary Inc Water MLRA Draina Dry-So Satura Aerial Geom Shallo FAC-N Raise	Stained Leaves (B9) excelor A 1,2,4A, and 4B) age Patterns (B10) ageson Water Table (C2) ation Visible on I Imagery (C9) orphic Position (D2) aw Aquitard (D3) Weutral Test (D5) d Ant Mounds (D6) (LRR A
No inco	blogy Id Indicators Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (E Algal Mat or Cru Iron Deposits (E Surface Soil Cra Inundation Visib	nimum of (A1) ale (A2) 1) sits (B2) 33) ust (B4) acks (B6) ale on Ae	f one is re	observed	heck all tha Water S MLRA Salt Cru Aquatic Hydrog Oxidize Presen Recent Tilled S Stuntec (D1) (L	t apply.) Stained L 1,2,4A, ust (B11) Invertet en Sulfic d Rhizos ce of Re Iron Rec Soils (C6	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in o) ssed Plants))	Secondary Inc Water MLRA Draina Dry-So Satura Aerial Geom Shallo FAC-N Raise	Stained Leaves (B9) exce A 1,2,4A, and 4B) age Patterns (B10) eason Water Table (C2) ation Visible on I Imagery (C9) orphic Position (D2) w Aquitard (D3) Neutral Test (D5) d Ant Mounds (D6) (LRR A
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No inco Hydro Wetlan Primary	blogy d Indicators y Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (E Algal Mat or Cru Iron Deposits (E Surface Soil Cra Inundation Visib Imagery (B7) Sparsely Vegeta Surface (B8) Observations Water Present?	nimum of (A1) lle (A2) 1) sits (B2) 33) ust (B4) acks (B6) lle on Ae ated Cor	one is re	equired. Cl	heck all tha Water S MLRA Salt Cru Aquatic Hydrog Oxidize Present Tilled S Stuntec (D1) (L	t apply.) Stained L 1,2,4A, ust (B11) Inverted en Sulfice d Rhizos ce of Re Iron Rec Soils (C6 d or Stres .RR A) Explain i	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in o) ssed Plants n Remarks)) C4)	Secondary Inc Water MLRA Draina Dry-So Satura Aerial Geom Shallo FAC-N Raise	Stained Leaves (B9) except A 1,2,4A, and 4B) age Patterns (B10) eason Water Table (C2) ation Visible on Imagery (C9) orphic Position (D2) aw Aquitard (D3) Neutral Test (D5) d Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
No inco Hydrc Wetlan Primary S S Field C Surface Water T	blogy Id Indicators Indicators (Mir Surface Water (High Water Tab Saturation (A3) Water Marks (B Sediment Depo Drift Deposits (B Algal Mat or Cru Iron Deposits (E Surface Soil Cra Inundation Visib Imagery (B7) Sparsely Vegeta Surface (B8) Observations	nimum of (A1) ole (A2) 1) sits (B2) 33) ust (B4) B5) acks (B6) ole on Ae	one is recovered	equired. Cl	heck all tha Water \$ MLRA Salt Cru Aquatic Hydrog Oxidize Presen Recent Tilled \$ Stunted (D1) (L	t apply.) Stained L 1,2,4A, ust (B11) Invertet en Sulfic d Rhizos ce of Re Iron Rec Soils (C6 d or Stres RR A) Explain i	Leaves (B9) and 4B)) prates (B13) de Odor (C1) spheres (C3) duced Iron (duction in) ssed Plants n Remarks)) C4)	Secondary Inc Water MLRA Draina Dry-Se Satura Aerial Geom Shallo FAC-N Raisee Frost-	Stained Leaves (B9) except A 1,2,4A, and 4B) age Patterns (B10) eason Water Table (C2) ation Visible on Imagery (C9) orphic Position (D2) aw Aquitard (D3) Neutral Test (D5) d Ant Mounds (D6) (LRR A) Heave Hummocks (D7)



Wetland Determination Data Form-Westerr	n Mounta	ains. Vall	evs. & (Coast Region	Data Point Feature Type	Wetlar	53 nd Seep/Spring
Project/Site: Fountain Wind			•	· ·		Dato	11/28/17
Applicant/Owner: Avangrid		City/Courity		State: Co	alifornia	Date.	
Investigator(s): _Gabe Youngblood			Section	, Township, Range Se		R1E	-
		Local relie	ef (concave	, convex, none) Conv	'ex	Slope 6	% 30
	.758415°		` Long:_	-121.867163°	Datum		
Soil Map Unit Name: Lyonsville-Jiggs soils, 50 to 70 per	cent slope	s	-		SC		
Are climatic/hydrologic conditions on the site typical for this tir Are vegetation ☑/☑soil ☑/☑or hydrology ☑/☑significar Are vegetation ☑/☑soil ☑/☑or hydrology ☑/☑haturally	ntly disturbe	d? Are norn	nal circums	tances present?	Note: On checkmar means ye choice) m	k (left s, the	choice) X (right
Summary of Findings (Attach site map showing sampling Hydrophytic vegetation? Hydric soil? Wetland	ng point loc hydrology?	ations, trans	sects, impor sampled are	tant features, etc.)	Other waters?) <u> </u>	
Evaluation of features designated "Other Water Indicators: Defined bed and bank Scour Feature Designation: Perennial Intermittent Ep	Ordin hemeral age	ary High Wa Blue-lin Navigable V	ter Mark M e on USGS Vater	Quad Substra	Widthate		
Remarks _{DP documents a wetland seep spring ne}	ear the toe	e of a hillsl	ope.				
Vegetation (Use Scientific Names) Tree Stratum (Plot Size: 30' radius 1 Alnus rhombifolia	Absolute <u>% Cover</u> 35	Dominant Species? Y		Dominance Test W Number of dominar that are OBL, FACV	nt species	3	_ (A)
7. Taxus brevifolia	20	Υ	FACU	Total number of dor			
3				across all strata:	t coocies that	4	_ (B)
<u></u>				Percent of dominan are OBL, FACW, or		75	_ (A/B)
50%= 22.5 20%= 11 Total Cover:	55						- , ,
Sapling/Shrub Stratum (Plot Size: 15' radius)	% Cover	Species?	Status	Prevalence Index 1 Total % Cover of:	Worksheet <u>Multiply b</u>	W	
1. Acer circinatum	30	Υ	FAC		x 1 =	0	
2.				FACW Species _		0	
3.				FAC Species		0	
4				FACU Species _		0	_
50%= 15 20%= 6 Total Cover:	30			UPL Species _			
Herb Stratum (Plot Size: 5' Radius)	% Cover	Species?	Status				(D)
1. Maianthemum racemosum	30	Υ	FAC	Column Totals _			(B)
2. Athyrium filix-femina	5	N	FAC	Prevalence Index =	B/A =	_	
3				Hydrophytic Vege	tation Indicator	S	
4				Rapid Test fo		egetati	on
5				Dominance Prevalence I			
6				Morphologic	al Adaptations1 (
7				data in Rema	arks or on a sepa	arate sh	heet)
8				Wetland Nor Problematic	Hydrophytic Vec	s' ietation	¹ (Explain)
50%=17.5 20%=7 Total Cover:				¹ Indicators of hydric			
Woody/Vine Stratum (Plot Size:)		Species?	Status	be present.			
1				Hydrophytic Vege	tation Present?	\checkmark]
2				j j j j i i i i j			=
50%= Total Cover:							
% Bare Ground in Herb Stratum <u>65</u> % Cover of Bio	tic Crust						

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Profile Description: (Describ Depth Matrix	e to the depi	th needed to docume Redox Features		uicatoi oi co		absence of i	Taloutors.
(inches) Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-8 10YR 2/1	100					Muck	Loamy
							
	·						
Types: C = Concentration D =				² Location: PL	. = Pore Lin		
Hydric Soil Indicators: (Appl	icable to all I						s for Problematic Hydric Soils ³
Histosol (A1)		,	Redox (-			cm Muck (A10)
Histic Epipedon (A2)			d Matrix		1		ed Parent Materials (TF21)
Black Histic (A3)	١	,	•	Mineral (exce	ерт		ery Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4			1) (F1)	Motric (FO)			egetated Sand/Gravel Bars
Depleted Below Dark	-		-	Matrix (F2)		0	ther (Explain in Remarks)
Thick Dark Surface (A			ed Matrix Dark Su	rface (F6)		3Indicato	rs of hydrophytic vegetation and
Sandy Macky Mineral				Surface (F7)			hydrology must be present.
Sandy Gleyed Matrix	(34)			sions (F8)		Welland	nydrology must be present.
			Боргозз	10113 (1 0)			
Restrictive Layer (if present): Type: <u>8</u>		Depth (Inches) <u>roc</u>	<u>k</u> Hydi	ric Soil Pres	ent? ✓ /
Remarks							
Remarks Soils meet the requirem	nents for in	ndicator F1 Loam	y Muck	y Mineral.			
	nents for in	ndicator F1 Loam	y Muck	y Mineral.			
Soils meet the requirem				y Mineral.		Secondar	y Indicators (2 or more required)
Hydrology Wetland Indicators		quired. Check all tha	it apply.)	y Mineral.	except		y Indicators (2 or more required) /ater Stained Leaves (B9) except
Hydrology Wetland Indicators Primary Indicators (Minimum	of one is re	quired. Check all tha	it apply.) Stained I		except	W	
Hydrology Wetland Indicators Primary Indicators (Minimum Surface Water (A1)	of one is re	quired. Check all tha Water MLRA	it apply.) Stained I	Leaves (B9) and 4B)	except	W	ater Stained Leaves (B9) except
Hydrology Wetland Indicators Primary Indicators (Minimum Surface Water (A1) High Water Table (A2)	of one is re	quired. Check all tha Water MLRA Salt Cr	stained I 1,2,4A, ust (B11	Leaves (B9) and 4B)	except	W D	/ater Stained Leaves (B9) except ILRA 1,2,4A, and 4B)
Hydrology Wetland Indicators Primary Indicators (Minimum Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B	of one is re	quired. Check all that Water MLRA Salt Cr Aquation Hydroc	stained I 1,2,4A, ust (B11 c Invertel	Leaves (B9) and 4B)) brates (B13) de Odor (C1))	W D D	/ater Stained Leaves (B9) except /ILRA 1,2,4A, and 4B) rainage Patterns (B10)
Hydrology Wetland Indicators Primary Indicators (Minimum Surface Water (A1) ✓ High Water Table (A2 ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B3)	of one is red	quired. Check all that Water MLRA Salt Cr Aquatic Hydroc Oxidize	stained I 1,2,4A, ust (B11 c Invertel gen Sulficed Rhizo	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3)))	W D D S	later Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9)
Hydrology Wetland Indicators Primary Indicators (Minimum Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (Ba	of one is red	quired. Check all that Water MLRA Salt Cr Aquation Hydrog Oxidize	stapply.) Stained I 1,2,4A, ust (B11 c Invertel gen Sulfice ed Rhizo	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3)))	W D D S: A G	Vater Stained Leaves (B9) except Value II. (B9) except Value III. (B9) except Value III. (B9) except Value III. (C2) except Value III. (V2) excep
Hydrology Wetland Indicators Primary Indicators (Minimum Surface Water (A1) ✓ High Water Table (A2 ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)	of one is re	quired. Check all that Water MLRA Salt Cr Aquatir Hydrog Oxidize Preser Recent	stained I 1,2,4A, ust (B11 c Invertel gen Sulficed Rhizo ace of Re	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) educed Iron (duction in))	W D S G S.	Vater Stained Leaves (B9) except VILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3)
Hydrology Wetland Indicators Primary Indicators (Minimum Surface Water (A1) ✓ High Water Table (A2 ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (n of one is red	quired. Check all that Water MLRA Salt Cr Aquation Hydroo Oxidize Preser Recent	stained I 1,2,4A, ust (B11 c Inverted gen Sulficed Rhizo ice of Re is Iron Re Soils (Cé	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) educed Iron (duction in))	WDDS	Vater Stained Leaves (B9) except VILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5)
Hydrology Wetland Indicators Primary Indicators (Minimum Surface Water (A1) High Water Table (A2 ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on	n of one is red	quired. Check all that Water MLRA Salt Cr Aquatic Hydroc Oxidize Preser Recent Tilled Stunte	stained I 1,2,4A, ust (B11 c Invertel gen Sulficed Rhizo ice of Re i Iron Re Soils (Cé d or Stre	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) educed Iron (duction in))	W D D S: G SI F, R	Vater Stained Leaves (B9) except Valer Stained Leaves (B9) except Valer IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
Hydrology Wetland Indicators Primary Indicators (Minimum Surface Water (A1) ✓ High Water Table (A2 ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Imagery (B7)	of one is rest	quired. Check all that Water MLRA Salt Cr Aquatic Oxidize Preser Recent Tilled to Stunter (D1) (I	stained I 1,2,4A, ust (B11 c Invertel gen Sulfice ed Rhizo ace of Re t Iron Re Soils (Cé d or Stre LRR A)	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) educed Iron (duction in b) ssed Plants))	W D D S: G SI F, R	Vater Stained Leaves (B9) except VILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5)
Hydrology Wetland Indicators Primary Indicators (Minimum Surface Water (A1) ✓ High Water Table (A2 ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Imagery (B7) Sparsely Vegetated C	of one is rest	quired. Check all that Water MLRA Salt Cr Aquatic Oxidize Preser Recent Tilled to Stunter (D1) (I	stained I 1,2,4A, ust (B11 c Invertel gen Sulfice ded Rhizo ace of Re t Iron Re Soils (Cé d or Stre LRR A)	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) educed Iron (duction in))	W D D S: G SI F, R	Vater Stained Leaves (B9) except Valer Stained Leaves (B9) except Valer IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
Hydrology Wetland Indicators Primary Indicators (Minimum Surface Water (A1) ✓ High Water Table (A2 ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Imagery (B7) Sparsely Vegetated County (B8)	of one is rest	quired. Check all that Water MLRA Salt Cr Aquatic Oxidize Preser Recent Tilled to Stunter (D1) (I	stained I 1,2,4A, ust (B11 c Invertel gen Sulfice ded Rhizo ace of Re t Iron Re Soils (Cé d or Stre LRR A)	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) educed Iron (duction in b) ssed Plants))	W D D S: G SI F, R	Vater Stained Leaves (B9) except Valer Stained Leaves (B9) except Valer IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
Hydrology Wetland Indicators Primary Indicators (Minimum Surface Water (A1) ✓ High Water Table (A2 ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Imagery (B7) Sparsely Vegetated Courface (B8) Field Observations	of one is rest	quired. Check all that Water MLRA Salt Cr Aquatic Oxidize Preser Recent Tilled Stunter (D1) (I	stained I 1,2,4A, ust (B11 c Inverted gen Sulfice ed Rhizo ace of Re t Iron Re Soils (C6 d or Stree _RR A)	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) educed Iron (duction in b) ssed Plants) (C4)	W	Vater Stained Leaves (B9) except Valer Stained Leaves (B9) except Valer Table (B10) Active Table (C2) Valer Table (C3) Valer
Hydrology Wetland Indicators Primary Indicators (Minimum Surface Water (A1) ✓ High Water Table (A2 ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Imagery (B7) Sparsely Vegetated Countries Surface (B8) Field Observations Surface Water Present? Yes	2) 32) 4) B6) Aerial Concave	quired. Check all that Water MLRA Salt Cr Aquation Oxidized Preser Recent Tilled to Stunter (D1) (I Other (stained I 1,2,4A, ust (B11 c Invertel gen Sulficed Rhizo ace of Re d Iron Re Soils (C6 d or Stre LRR A) Explain i	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) duced Iron (duction in b) ssed Plants in Remarks)) (C4)	W D D S: G SI F, R	Vater Stained Leaves (B9) except Valer Stained Leaves (B9) except Valer Table (B10) Active Table (C2) Valer Table (C3) Valer
Hydrology Wetland Indicators Primary Indicators (Minimum Surface Water (A1) ✓ High Water Table (A2 ✓ Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (Inundation Visible on Imagery (B7) Sparsely Vegetated Courface (B8) Field Observations	of one is red 2) 32) 4) B6) Aerial Concave	quired. Check all that Water MLRA Salt Cr Aquatic Hydrog Oxidize Preser Recent Tilled Stunter (D1) (I Other (stained I 1,2,4A, ust (B11) c Invertel gen Sulfice ed Rhizo ace of Re is Iron Re Soils (Cé d or Stre LRR A) (Explain i	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) educed Iron (duction in b) ssed Plants in Remarks)) (C4)	W D Si G SI Fi Fi	Vater Stained Leaves (B9) except Valer Stained Leaves (B9) except Valer Table (B10) Active Table (C2) Valer Table (C3) Valer

Saturation at 4 inches and a water table at 8 inches provides hydrology.



Wetland Determination Data Form-Westeri	n Mount:	ains Vall	levs & (Data Point Coast Region Feature TypeU	pland
			•	-	ate: 11/28/17
Project/Site: Fountain Wind Applicant/Owner: Avangrid		City/Courity		State: California	ite:
Investigator(s): Gabe Youngblood			Section	Township, Range Sec. 33, T34N, R1E	
Landform (hillslope, terrace, etc.) Hillslope		L ocal relie	_ Section ef (concave	convex, none) convex Slo	nne % 1
Subregion (LRR): MLRA 22B Lat: 40).758391°	_ Local Telle	I ona.	-121.867118° Datum:	NAD83
Soil Map Unit Name: Cohasset stony loam, 30 to 50 per					
Are climatic/hydrologic conditions on the site typical for this ti				Nota: On this	s e-form, the
Are vegetation □/⊠soil □/⊠or hydrology □/⊠significal				CHECKINAIK II	
Are vegetation					, ,
			· · · · · · · · · · · · · · · · · · ·		
Summary of Findings (Attach site map showing sample					_
Hydrophytic vegetation? 🗹 🗌 Hydric soil? 🔲 🔯 Wetland	hydrology?	∐ ⊠ Is s	sampled are	a a wetland? _\XDther waters?/\	<u> </u>
Feature Designation: Perennial Intermittent Ex	Ordinate on the ordinate of the ordinate	ary High Wa Blue-lin	iter Mark M e on USGS	apped Stream Width Quad Substrate	
Vegetation (Use Scientific Names) Tree Stratum (Plot Size: 30') Alnus rhombifolia	Absolute % Cover 15	Dominant Species? Y		Dominance Test Worksheet Number of dominant species that are OBL, FACW, or FAC:	(A)
Calocedrus decurrens	15	Υ	UPL	Total number of dominant species	
3. Taxus brevifolia	5		FACU	across all strata:3	(B)
4.				Percent of dominant species that are OBL, FACW, or FAC: 66	S (A/B)
50%=_17.5 20%=_7 Total Cover:	35				、 ,
Sapling/Shrub Stratum (Plot Size: 15')	% Cover	Species?	Status	Prevalence Index Worksheet Total % Cover of: Multiply by	
1				OBL Species x 1 =	0
2.				FACW Species x 2 =	0
3.				FAC Species x 3 =	0
4.				FACU Species x 4 =	0
50%= 33.5 20%= 13.4 Total Cover:	0				
Herb Stratum (Plot Size: _5')		Species?	Status	UPL Species x 5 =	
1. Maianthemum racemosum	30	_ Y	FAC	Column Totals (A)	(B)
2				Prevalence Index = B/A =	
3				Hydrophytic Vegetation Indicators	
4				Rapid Test for Hydrophytic Vege	etation
5				Dominance Test is >50% Prevalence Index is < 3.01	
6				Morphological Adaptations ¹ (pro	vide supporting
7				data in Remarks or on a separat	
8.				 Wetland Non-Vascular Plants¹ Problematic Hydrophytic Vegeta 	ation1 (Evolain)
50%=15 20%=6 Total Cover:	30			¹ Indicators of hydric soil and wetland h	
Woody/Vine Stratum (Plot Size:)		Species?	Status	be present.	. 0,
1		•		Hydrophytic Vegetation Present? ✓	1/
2.				Trydrophytic vegetation Frescht!	J/
50%=					
% Bare Ground in Herb Stratum 70 % Cover of Ric					

\sim		1
\sim	ш	C
JU.	ш	

Depth	escription: (Desc Matrix			ox Features		_ 4	. 0	_	_
inches))-6	Color (mois 10YR 2/1	<u>*t) </u>	<u>Col</u>	lor (moist)	<u>%</u>	Type ¹	Loc ²	Texture Peat	Remarks Corse organic
6-16	10 YR 2/2	100						Loam	Sandy gravely
Evnes: (C = Concentration	 D = Depletion	– ——— 1 RM = Re	educed Matrix		Location: PL	 = Pore Lin	 ing M = Ma	
	oil Indicators: (A						1 010 2111		s for Problematic Hydric Soil
•	Histosol (A1)	ppiloable to	un Errito, c	Sandy		•			cm Muck (A10)
	Histic Epipedon (A	.2)	-	,	ed Matrix	-			ed Parent Materials (TF21)
	Black Histic (A3)	/	-			/lineral (exc e	ent		ery Shallow Dark Surface (TF1:
	Hydrogen Sulfide ((A4)	-	,	1) (F1)	miloral (oxoc	γρ.		egetated Sand/Gravel Bars
	Depleted Below Da		(A11)			Matrix (F2)			ther (Explain in Remarks)
	Thick Dark Surface			,	ed Matrix				ther (Explain in Remarks)
	Sandy Mucky Mine		-			rface (F6)		³ Indicate	ors of hydrophytic vegetation an
	Sandy Gleyed Mat		-			Surface (F7)			hydrology must be present.
	canaj ciojea ma	(0 .)	-	•		ions (F8)			, е р
D		ı\	Nono		•				10 1
Restric	tive Layer (if pres	ent): Type:	110116		Depth (I	nches)	Hyar	ic Soil Pres	ent? /X
No inc	dicators of hydr	ic soil wer	e observ	ed.					
Hydro Wetlan	dicators of hydrology d Indicators								y Indicators (2 or more required
No incomplete Hydro Wetlan Primary	dicators of hydrology Indicators (Minim	oum of one is		Check all tha	at apply.)		except	Secondar	y Indicators (2 or more required
Hydro Wetlan	blogy Indicators (Minim Surface Water (A1	num of one is		Check all tha	at apply.) Stained L	Leaves (B9)	except	Secondar	/ater Stained Leaves (B9) exce
Hydro Wetlan Primary	blogy d Indicators / Indicators (Minim Surface Water (A1 High Water Table	num of one is		Check all tha	at apply.) Stained L	_eaves (B9) and 4B)	except	Secondar W	/ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B)
Hydro Wetlan Primary	blogy Id Indicators Indicators (Minim Surface Water (A1 High Water Table Saturation (A3)	num of one is		Check all tha Water MLRA Salt Cr	at apply.) Stained L	_eaves (B9) and 4B)	except	Secondar W N	/ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10)
Hydro Wetlan Primary	blogy d Indicators / Indicators (Minim Surface Water (A1 High Water Table	oum of one is		Check all that Water MLRA Salt Cr	at apply.) Stained L 1,2,4A, rust (B11) c Inverteb	_eaves (B9) and 4B)		<u>Secondar</u> W D D	/ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2)
Hydro Wetlan Primary	blogy d Indicators / Indicators (Minim Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1)	num of one is) (A2) s (B2)		Check all that Water MLRA Salt Cr Aquation	at apply.) Stained L 1,2,4A, rust (B11) c Inverted gen Sulfic	_eaves (B9) and 4B)) orates (B13)	•	Secondar W	/ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10)
No inc	blogy Id Indicators Indicators (Minim Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits	num of one is) (A2) s (B2)		Check all that Water MLRA Salt Cr Aquatic Hydrog Oxidize	at apply.) Stained L 1,2,4A, rust (B11) c Inverted gen Sulficed Rhizos	Leaves (B9) and 4B)) prates (B13) de Odor (C1)		Secondar W D D D	/ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on
Hydro Wetlan Primary	blogy Id Indicators Indicators (Minim Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3)	num of one is) (A2) s (B2) (B4)		Check all that Water MLRA Salt Cr Aquation Hydroo	at apply.) Stained L 1,2,4A, rust (B11) c Invertet gen Sulfic ed Rhizos nce of Re	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3)		Secondar W D D S S	Vater Stained Leaves (B9) exceutillar Interest (B9) exceutillar Interest (B10) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on April Imagery (C9)
No inco	dicators of hydrology Id Indicators Indicators (Minimal Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust	num of one is) (A2) S (B2) (B4)		Check all that Water MLRA Salt Cr Aquatir Hydrog Oxidize Preser Recen	at apply.) Stained L 1,2,4A, rust (B11) c Invertet gen Sulfic ed Rhizos nce of Re	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in		Secondar W D D S G G	Vater Stained Leaves (B9) exceution ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on serial Imagery (C9) eomorphic Position (D2)
No inc	blogy Id Indicators Indicators (Minim Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5)	num of one is) (A2) s (B2) (B4) ss (B6)		Check all that Water MLRA Salt Cr Aquation Hydrog Oxidized Preser Recen Tilled	at apply.) Stained L 1,2,4A, rust (B11) c Invertek gen Sulfice ed Rhizos nce of Re t Iron Rec Soils (C6	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in		Secondar W D D S G S F	Vater Stained Leaves (B9) exce VILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3)
Hydro Wetlan Primary	Dlogy Id Indicators Indicators (Minim Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Surface Soil Crack	num of one is) (A2) s (B2) (B4) ss (B6)		Check all that Water MLRA Salt Cr Aquatic Hydroc Oxidize Preser Recen Tilled Stunte	at apply.) Stained L 1,2,4A, rust (B11) c Invertek gen Sulfice ed Rhizos nce of Re t Iron Rec Soils (C6	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in		Secondar W D D S G S G S F	Vater Stained Leaves (B9) exceution ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on the serial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5)
Hydro Wetlan Primary	blogy Id Indicators Indicators (Minimer Marks (Minimer Minimer Mi	num of one is (A2) (B4) (S (B6) on Aerial		Check all that Water MLRA Salt Cr Aquatin Hydrog Oxidize Preser Recen Tilled Stunte (D1) (l	Stained L A 1,2,4A, rust (B11) c Invertek gen Sulfice ed Rhizos nce of Re t Iron Rec Soils (C6 d or Stres LRR A)	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in		Secondar W D D S G S G S F	Vater Stained Leaves (B9) exce Value II. A.
No inco	blogy Id Indicators Indicators (Minim Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Surface Soil Crack Inundation Visible Imagery (B7)	num of one is (A2) (B4) (S (B6) on Aerial		Check all that Water MLRA Salt Cr Aquatin Hydrog Oxidize Preser Recen Tilled Stunte (D1) (l	Stained L A 1,2,4A, rust (B11) c Invertek gen Sulfice ed Rhizos nce of Re t Iron Rec Soils (C6 d or Stres LRR A)	Leaves (B9) and 4B) porates (B13) de Odor (C1) spheres (C3) duced Iron (duction in b) ssed Plants		Secondar W D D S G S G S F	Vater Stained Leaves (B9) excellar Aland 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A
Hydro Wetlan Primary	blogy Id Indicators Indicators (Minim Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Surface Soil Crack Inundation Visible Imagery (B7) Sparsely Vegetate	num of one is (A2) (B4) (S (B6) on Aerial		Check all that Water MLRA Salt Cr Aquatin Hydrog Oxidize Preser Recen Tilled Stunte (D1) (l	Stained L A 1,2,4A, rust (B11) c Invertek gen Sulfice ed Rhizos nce of Re t Iron Rec Soils (C6 d or Stres LRR A)	Leaves (B9) and 4B) porates (B13) de Odor (C1) spheres (C3) duced Iron (duction in b) ssed Plants		Secondar W D D S G S G S F	Vater Stained Leaves (B9) exce Value II. A.
No inco	blogy Id Indicators Indicators (Minim Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Surface Soil Crack Inundation Visible Imagery (B7) Sparsely Vegetate Surface (B8)	num of one is (A2) (B4) (S (B6) on Aerial		Check all that Water MLRA Salt Cr Aquatin Hydrog Oxidize Preser Recen Tilled Stunte (D1) (l	stained L 1,2,4A, rust (B11) c Invertek gen Sulfic ed Rhizos nce of Re t Iron Rec Soils (C6 d or Stres LRR A) (Explain i	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in o) ssed Plants n Remarks)) C4)	Secondar W D D S G S G S F	/ater Stained Leaves (B9) exce //LRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR Arost-Heave Hummocks (D7)
Hydro Wetlan Primary S Field O Surface Water T	blogy d Indicators y Indicators (Minim Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Surface Soil Crack Inundation Visible Imagery (B7) Sparsely Vegetate Surface (B8) Observations Water Present?	(A2) (B4) (S (B6) on Aerial d Concave	s required.	Check all that Water MLRA Salt Cr Aquation Hydrog Oxidized Preser Recen Tilled Stunte (D1) (I	at apply.) Stained L 1,2,4A, rust (B11) c Inverted gen Sulficed Rhizos nce of Re t Iron Rec Soils (C6 d or Stres LRR A) (Explain i	Leaves (B9) and 4B)) prates (B13) de Odor (C1) spheres (C3) duced Iron (duction in) ssed Plants n Remarks)) C4)	Secondar W N D S A G S F R T Hydrology?	/ater Stained Leaves (B9) exce //LRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR Arost-Heave Hummocks (D7)



					Data Point	- Diversi	55
Wetland Determination Data Form-Westerr			•	· ·	Feature Type		an wetland
Project/Site: Fountain Wind		City/County	Shasta C	County		Date:	11/28/17
Applicant/Owner: Avangrid				State: C	California		
Investigator(s): Gabe Youngblood			_ Section	, Township, Range S	Sec. 33, T34N, I	₹1E	
Landform (hillslope, terrace, etc.) Depression		_ Local relie	ef (concave	, convex, none) Con	cave	Slope %	61
J (/).759497°		Long:_	40.759497°	Datun	n: NA	D83
Soil Map Unit Name: Cohasset stony loam, 30 to 50 per	cent slope	S	N\	VI Classification: No			
Are climatic/hydrologic conditions on the site typical for this tir	me of year?	√/ (If n	o, explain ii	n Remarks.)	Note: On checkmar		
Are vegetation \(\sum \subseteq \significar \) \(\subseteq \text{or hydrology} \subseteq \subseteq \significar \)	ntly disturbe	d? Are norn	nal circums	tances present?	means ye		
Are vegetation / Soil / Sor hydrology / Anaturally	problemation	c? (If neede	ed, explain i	in Remarks.)	choice) m	eans n	no.
Summary of Findings (Attach site map showing sampli							
Hydrophytic vegetation? Hydric soil? Wetland					hther waters?	7/	
			<u> </u>		pilici waicis: [V		
Evaluation of features designated "Other Wate	rs of the	United St	ates"		14.0 III		
Indicators: Defined bed and bank Scour _ Feature Designation: Perennial Ep	Ordin hemeral	ary High Wa Rlue-lin	iter Mark Ma e on USGS	apped Stream Ouad Substi	WIdth rate_cobble, gravel, s	and	
Natural Drainage _ ✓ Artificial Drain	age	Bide-iiii Navigable V	Vater		aic		
Remarks		NA 61391	0 0				
Remarks DP documents a riparian wetland within	the OHW	M of Little	Cow Cre	ek.			
Vegetation (Use Scientific Names)	Absolute	Dominant		Dominance Test			
Tree Stratum (Plot Size: 30') 1. Acer macrophyllum	<u>% Cover</u> 20	Species?	FACU	Number of domina that are OBL, FAC		4	(A)
2. Alnus rhombifolia	5	Y	FACW	Total number of do			(A)
		<u> </u>		across all strata:		7	(B)
3				Percent of domina are OBL, FACW, or		57	(A/B)
4	25			arc ODE, I ACVI, C			(A/D)
		Cnasica	Ctatus	Prevalence Index			
Sapling/Shrub Stratum (Plot Size: 15') Acer macrophyllum	% Cover 25	Species?	FACU	Total % Cover of:	Multiply b	<u>)y</u> 0	
A1 1 1 1 C I	10	Y	FACW	'	x 1 =		_
A	10	Y	FAC	FACW Species			
3. Acer circinatum 4. Abies concolor (3)/Pseudotsuga menziesii (2)	5	N	UPL/FACU	FAC Species	x 3 =	0	_
				FACU Species	x 4 =	0	
50%= <u>25</u> 20%= <u>10</u> Total Cover:				UPL Species	x 5 =	0	_
Herb Stratum (Plot Size: 5') Heracleum maximum	% Cover 1	Species?	Status FAC	Column Totals	0(A)	0	(B)
•		Y	7	Prevalence Index :	= B/A =	_	
2. UNK grass							
3				Hydrophytic Vege	e tation Indicator for Hydrophytic V		n .
4				Rapid Test Dominance		eyelallu	ЛІ
5				Prevalence	Index is $\leq 3.0^{1}$		
6				Morphologic	cal Adaptations¹ (narks or on a sep		
7				Wetland No			leel)
8				Problemation	: Hydrophytic Veg	getation ¹	(Explain)
50%=1				¹ Indicators of hydri	ic soil and wetlan	d hydrol	logy must
Woody/Vine Stratum (Plot Size:)	% Cover	Species?	Status	be present.			
1				Hydrophytic Vege	etation Present?	· 🗸 /	
2							
50%= Total Cover:							
% Baro Cround in Horb Stratum 98 % Cover of Rio	tic Cruct			1			

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. 71	ш	•

Depth	Matri		ne depti	n needed to docum Redox Features		dicator or co		absence of indica	11013.
inches)	Color (m		<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	<u>Remarks</u>
Гуреs: С	= Concentration	n D = Deple	etion R	M = Reduced Matrix	- 2	 ² Location: PL	= Pore Lir	ing M = Matrix	
ydric Soi	il Indicators:	(Applicable	e to all L	RRs, unless otherv	ise noted	d)		Indicators for	Problematic Hydric Soils
Hi	istosol (A1)			Sandy	Redox (S	S5)		2 cm N	Muck (A10)
Hi	istic Epipedon	(A2)		Stripp	ed Matrix	(S6)		Red P	arent Materials (TF21)
BI	lack Histic (A3	3)		Loam	/ Mucky N	Mineral (exce	ept	Very S	Shallow Dark Surface (TF12
Hy	ydrogen Sulfic	le (A4)		MLRA	1) (F1)			_ √ _ Vegeta	ated Sand/Gravel Bars
De	epleted Below	Dark Surfa	ace (A11) Loam	Gleyed	Matrix (F2)		Other	(Explain in Remarks)
Th	hick Dark Surf	ace (A12)		Deple	ed Matrix	(F3)			
Sa	andy Mucky M	lineral (S1)		Redox	Dark Su	rface (F6)		³ Indicators of	hydrophytic vegetation and
Sa	andy Gleyed N	Matrix (S4)		Deple	ted Dark S	Surface (F7)		wetland hydro	ology must be present.
				Redox	Depress	sions (F8)			
Restrictiv	/e Layer (if pr	esent): Ty	pe:		Depth (I	Inches)	Hyd	ric Soil Present?	√ /
Remarks	5								
	pit vegetate	ed sand/g	ıravel b	oar.					
No soil Hydrole Wetland	pit vegetate ogy Indicators			oar. uired. Check all th	at apply.)			Secondary Ind	licators (2 or more required
No soil Hydrol Wetland Primary I	pit vegetate ogy Indicators Indicators (Min	nimum of o		uired. Check all th			except	_	•
No soil Hydrole Wetland Primary I	ogy Indicators (Minurface Water (nimum of o		uired. Check all th	Stained I	Leaves (B9)	except	Water	Stained Leaves (B9) excep
Hydrole Wetland Primary I	ogy Indicators Indicators (Minurace Water (igh Water Tab	nimum of o		uired. Check all th Water MLRA	Stained I	Leaves (B9) and 4B)	except	Water	Stained Leaves (B9) except 1,2,4A, and 4B)
No soil Hydrole Wetland Primary I Su Hi Sa	ogy Indicators Indicators (Minurace Water (igh Water Tabaturation (A3)	nimum of or (A1) le (A2)		uired. Check all th —— Water MLRA —— Salt C	Stained I A 1,2,4A , rust (B11)	Leaves (B9) and 4B)		Water MLRA Draina	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10)
Hydrole Wetland Primary I St Hi St	ogy Indicators Indicators (Minuration (Mater Tablaturation (A3) Vater Marks (B	nimum of or (A1) ale (A2)		uired. Check all th Water MLR/ Salt C Aquat	Stained I A 1,2,4A, rust (B11) c Invertel	Leaves (B9) and 4B)) brates (B13)	·	Water MLRA Draina Dry-Se	Stained Leaves (B9) except 1,2,4A, and 4B) age Patterns (B10) beason Water Table (C2)
No soil Hydrole Wetland Primary I Su Hi Su W Su	ogy Indicators Indicators (Minurace Water (igh Water Tabaturation (A3)	nimum of or (A1) ole (A2) 1) sits (B2)		uired. Check all th Water MLR/ Salt C Aquat	Stained I A 1,2,4A, rust (B11) c Invertel gen Sulfic	Leaves (B9) and 4B)) brates (B13) de Odor (C1)		Water MLRA Draina Dry-Se Satura	Stained Leaves (B9) except 1,2,4A, and 4B) Ige Patterns (B10) Peason Water Table (C2) Ition Visible on
No soil Hydrole Wetland Primary I Standard Hi Standard W Standard Di	ogy Indicators Indicators (Minurace Water (igh Water Tabaturation (A3) Vater Marks (Bediment Depo	(A1) sits (B2)		uired. Check all th Water MLRA Salt C Aquat Hydro	Stained I A 1,2,4A, rust (B11) c Invertel gen Sulfic ed Rhizo	Leaves (B9) and 4B)) brates (B13))	Water MLRA Draina Dry-Se Satura Aerial	Stained Leaves (B9) except 1,2,4A, and 4B) age Patterns (B10) beason Water Table (C2)
No soil Hydrole Wetland Primary I Standard Hi Standard W Standard Al	ogy Indicators Indicators (Minurate Water (igh Water Tabaturation (A3)) Vater Marks (Bediment Deportif Deposits (I	nimum of or (A1) lle (A2) 1) sits (B2) 33) ust (B4)		uired. Check all th Water MLR/ Salt C Aquat Hydro Oxidiz	Stained I A 1,2,4A, rust (B11) c Invertel gen Sulfice ed Rhizos nce of Re	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3))	Water MLRA Draina Dry-Se Satura Aerial Geome	Stained Leaves (B9) excel A 1,2,4A, and 4B) age Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9)
No soil Hydrole Wetland Primary I St W Se Di Al Iro	ogy Indicators Indicators (Minurace Water (As) Auter Marks (Bediment Depo	nimum of or (A1) ole (A2) 1) sits (B2) 33) ust (B4)		uired. Check all th Water MLR/ Salt C Aquat Hydro Oxidiz Prese Recer	Stained I A 1,2,4A, rust (B11) c Invertel gen Sulfice ed Rhizos nce of Re	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) educed Iron (duction in)	Water MLRA Draina Dry-Se Satura Aerial ✓ Geome	Stained Leaves (B9) except 1,2,4A, and 4B) age Patterns (B10) beason Water Table (C2) ation Visible on agery (C9) brighic Position (D2)
No soil Hydrole Wetland Primary I Si Hi Si V Al Iro	ogy Indicators Indicators (Minurface Water (Minurface Water Tablaturation (A3) Vater Marks (Bediment Deporift Deposits (Indicators (Minurface Water Marks) Vater Marks (Bediment Deposits (Indicators (Minurface Water Marks) Vater Marks (Bediment Deposits (Indicators (Minurface Water Marks) Vater Marks (Bediment Deposits (Indicators (Minurface Water Marks))	nimum of on (A1) ale (A2) 1) sits (B2) 33) ust (B4) 85) acks (B6)	ne is req	uired. Check all th Water MLR/ Salt C Aquat Hydro Oxidiz Prese Recer	Stained I A 1,2,4A, rust (B11) c Invertel gen Sulfice ed Rhizo nce of Re t Iron Rec Soils (C6	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) educed Iron (duction in)	Water MLRA Draina Dry-Se Satura Aerial ✓ Geom Shallo	Stained Leaves (B9) except 1,2,4A, and 4B) age Patterns (B10) beason Water Table (C2) ation Visible on agery (C9) brophic Position (D2) and Aquitard (D3) and Aquitard (D5)
No soil Hydrole Wetland Primary I Si Hi Si Al Iro Si In	ogy Indicators Indicators (Min urface Water (igh Water Tab aturation (A3) /ater Marks (B ediment Depo rift Deposits (I Igal Mat or Cru on Deposits (E urface Soil Cre	nimum of on (A1) ale (A2) 1) sits (B2) 33) ust (B4) 85) acks (B6)	ne is req	uired. Check all th Water MLR/ Salt C Aquat Hydro Oxidiz Prese Recer Tilled	Stained I A 1,2,4A, rust (B11) c Invertel gen Sulfice ed Rhizo nce of Re t Iron Rec Soils (C6	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) educed Iron (duction in)	Water MLRA Draina Dry-Se Satura Aerial ✓ Geome Shallo FAC-N Raiseo	Stained Leaves (B9) except A 1,2,4A, and 4B) age Patterns (B10) beason Water Table (C2) ation Visible on agery (C9) brophic Position (D2) and Aquitard (D3) and Aquitard (D5)
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No soil Hydrole Wetland Primary I Si Hi Si V Iro Iro Si Iro Si	ogy Indicators Indicators (Minurface Water (Minurface Water Table) Indicators (Minurface Water (Minurface Water Marks (Minurface Marks (Minurface Marks (Minurface Soil Craundation Visible) Indicators (Minurface Soil Craundation Visible) Indicators (Minurface Soil Craundation Visible)	nimum of or (A1) ale (A2) 1) sits (B2) 33) ust (B4) acks (B6) ale on Aeria	ne is req	uired. Check all th Water MLRA Salt C Aquat Hydro Oxidiz Prese Recer Tilled (D1)	Stained I A 1,2,4A, rust (B11) c Invertel gen Sulfice ed Rhizon nce of Re at Iron Rec Soils (C6 and or Streat LRR A)	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) educed Iron (duction in b) ssed Plants)	Water MLRA Draina Dry-Se Satura Aerial ✓ Geome Shallo FAC-N Raiseo	Stained Leaves (B9) excella 1,2,4A, and 4B) upge Patterns (B10) peason Water Table (C2) ution Visible on Imagery (C9) upprhic Position (D2) up Aquitard (D3) Upper Item (D5) Upper Item (D6) (LRR A) Upper Item (D6) (LRR A)
No soil Hydrole Wetland Primary I Si Hi Si Iro St St	ogy Indicators Indicators (Min urface Water (A) igh Water Tab aturation (A3) /ater Marks (B) ediment Depo rift Deposits (I) Igal Mat or Cru on Deposits (E) urface Soil Cru undation Visik magery (B7) parsely Veget	nimum of or (A1) ole (A2) 1) sits (B2) 33) ust (B4) 85) acks (B6) ole on Aeria	ne is req	uired. Check all th Water MLRA Salt C Aquat Hydro Oxidiz Prese Recer Tilled Stunte (D1) Other	Stained I A 1,2,4A, rust (B11) c Invertel gen Sulfic ed Rhizon nce of Re tt Iron Rec Soils (C6 ed or Stree LRR A) (Explain i	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) educed Iron (duction in b) ssed Plants in Remarks)	C4)	Water MLRA Draina Dry-Se Satura Aerial ✓ Geom Shallo FAC-N Raisec Frost-I	Stained Leaves (B9) except 1,2,4A, and 4B) age Patterns (B10) asson Water Table (C2) ation Visible on Imagery (C9) arror Position (D2) arrow Aquitard (D3) arrow Aquitard (D5) at Ant Mounds (D6) (LRR A) arrow Hummocks (D7)
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No soil Hydrole Wetland Primary I St Hi St Irc In Ir St Field Ob Surface W	ogy Indicators Indicators (Min urface Water (A) igh Water Tab aturation (A3) Vater Marks (B) ediment Depo rift Deposits (I) Igal Mat or Cru on Deposits (E) urface Soil Cru undation Visik magery (B7) parsely Veget urface (B8) oservations	nimum of or (A1) ole (A2) 1) sits (B2) 33) ust (B4) 85) acks (B6) ole on Aeria	ne is req	uired. Check all th Water MLRA Salt C Aquat Hydro Oxidiz Prese Recer Tilled Stunte (D1) Other	Stained I A 1,2,4A, rust (B11) c Invertel gen Sulfic ed Rhizon nce of Re at Iron Rec Soils (C6 ed or Stree LRR A) (Explain i	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) educed Iron (duction in b) ssed Plants in Remarks)	C4)	Water MLRA Draina Dry-Se Satura Aerial ✓ Geome Shallo — FAC-N — Raisec — Frost-I	Stained Leaves (B9) except 1,2,4A, and 4B) age Patterns (B10) asson Water Table (C2) ation Visible on Imagery (C9) arrhic Position (D2) arrhic Position (D3) be Aquitard (D3) be described and Mounds (D6) (LRR A) be described and Mounds (D6) (LRR A) be described and Mounds (D7)

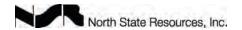
Drift deposits indicate frequent flooding. Water was present in the scoured channel but not on the vegetated floodplain.



Wetland Determination Data Form-Wester	rn Mount	ains Val	levs & (Coast Region F	Data Point _ eature Type _	Upland
			•	-		Date: 11/28/1
Project/Site: Fountain Wind Applicant/Owner: Avangrid		City/County	:	State: Calif		Jale: _
			Section	, Township, Range Sec.		 1E
Landform (hillslope, terrace, etc.) Hillslope			_ Section ef (concave	convex, none) convex		Slone % 20
Subregion (LRR): MLRA 22B Lat:	10.759456°	_ Local Tell	Lona.	-121.867278°	Datum:	NAD83
Soil Map Unit Name: Lyonsville-Jiggs soils, 50 to 70 pe		es	20119 N\	VI Classification: None	Datami	
Are climatic/hydrologic conditions on the site typical for this						nis e-form, the
Are vegetation						(left choice) the X (right)
Are vegetation [7] [2] soil [7] [2] or hydrology [7] [2] hatural					choice) me	
			· · · · · · · · · · · · · · · · · · ·	· ·		
Summary of Findings (Attach site map showing samp						
Hydrophytic vegetation? 🔽 🗌 Hydric soil? 🔲 🔀 Wetlar	nd hydrology?		sampled are	ea a wetland? _\X\Dth	er waters?/	XI
Evaluation of features designated "Other Wat Indicators: Defined bed and bank Scour Feature Designation: Perennial Intermittent E	Ordin	ary High Wa Blue-lin	iter Mark M	Ouad Substrate		
Natural Drainage Artificial Dra	inage	Navigable \	Water	-		
Remarks Upland pair to DP 55 wetland seep/sp	rina					
opiand pair to bi 33 wettand seep/spi	illig.					
Vegetation (Use Scientific Names)	Absolute	Dominant	Indicator	Dominance Test Wor	kshoot	
Tree Stratum (Plot Size:)	% Cover	Species?		Number of dominant s		
1				that are OBL, FACW,	or FAC:	0(A)
2				Total number of dominacross all strata:	ant species	3(B)
3				Percent of dominant s	pecies that	
4				are OBL, FACW, or FA	AC:	0 (A/B)
50%= Total Cover	r:0			Prevalence Index Wo	rksheet	
Sapling/Shrub Stratum (Plot Size:)	% Cover	Species?	Status	Total % Cover of:		
1. Corylus cornuta	15	Y	FACU	OBL Species	x 1 = _	0
2. Acer macrophyllum	5	N	FACU	FACW Species	x 2 =	0
3. Acer circinatum	5	N	_FAC_	FAC Species	x 3 =	0
4. Pseudotsuga menziesii (3)/Abies concolor (2)	5	N	FACU/FAC	FACU Species	x 4 =	0
50%= 15 20%= 6 Total Cover	r: <u>30</u>			UPL Species	x 5 =	0
Herb Stratum (Plot Size: _5')	% Cover	'		Column Totals		
1. Rubus parviflorus		Y	FACU	Prevalence Index = B/		
2. Agrostis pallens			UPL	Trevalence mack – bi		-
3. Galium triflorum	1	N	FACU	Hydrophytic Vegetati		
4				Rapid Test for F		getation
5				Prevalence Ind	ex is <u><</u> 3.0¹	
6				Morphological A	Adaptations ¹ (p	rovide supportin
7				data in Remark Wetland Non-V	s or on a separ ascular Plants ¹	ate sneet)
8				Problematic Hy	drophytic Vege	etation ¹ (Explain)
50%= 15.5	r:			¹ Indicators of hydric so		
Woody/Vine Stratum (Plot Size:)		•		be present.		
1				Hydrophytic Vegetati	on Present?	
2						
50%= Total Cove	r:0					

\sim		1
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rofile D Depth	escription: (De Matrix		'		Features					
inches) -16	Color (mo		<u>%</u> 00	Color	(moist)	<u>%</u>	<u>Type¹</u>	Loc ²	Texture Loam	Remarks Gravelly
ypes: (C = Concentration	D = Dep	letion	RM = Redu	ıced Matrix	2	Location: PL	. = Pore Lin	ing M = Ma	ıtrix
/dric S	oil Indicators:	(Applicab	le to all	LRRs, un	ess otherw	ise noted	1)		Indicator	s for Problematic Hydric Soil
•	Histosol (A1)				Sandy		•			cm Muck (A10)
	Histic Epipedon	(A2)			,	ed Matrix	-			ed Parent Materials (TF21)
I	Black Histic (A3)						Mineral (exc e	ept		ery Shallow Dark Surface (TF1:
Hydrogen Sulfide (A4)					MLRA	1) (F1)				egetated Sand/Gravel Bars
[Depleted Below	Dark Sur	face (A1	1)	Loamy	Gleyed I	Matrix (F2)		0	ther (Explain in Remarks)
	Thick Dark Surfa	ace (A12)			Deplet	ed Matrix	(F3)			
	Sandy Mucky Mi	ineral (S1)		Redox	Dark Su	rface (F6)		³ Indicato	ors of hydrophytic vegetation an
	Sandy Gleyed M	latrix (S4))		Deplet	ed Dark S	Surface (F7)		wetland	hydrology must be present.
					Redox	Depress	ions (F8)			
Destrict	tive Layer (if pre	ocont). To	Nic					Llvdi		ent? /X
Restrict	live Layer (ii pre	esem). T	ype: <u>140</u>	ne		Depth (I	ncnes)	пуиі	ric Soil Pres	ent?
Remarl					d.	Depth (I	ncnes)	nyui	ric Soil Pres	ent? 'X
Remark No inco Hydro Wetlan	dicators of hydelegy	dric soil	were o	observed			ncnes)	nyu		
Remark No inco Hydro Wetlan	ks dicators of hyd	dric soil	were o	observed			ncnes)	nyu		y Indicators (2 or more required
Remarl No inc Hydro Wetlan Primary	ks dicators of hyd blogy d Indicators / Indicators (Min	dric soil	were o	observed	heck all tha	nt apply.)			Secondar	y Indicators (2 or more required
Remarl No inco Hydro Wetlan Primary	dicators of hydelegy	dric soil imum of c	were o	observed	heck all tha	nt apply.)	Leaves (B9)		Secondar	
Remarl No inc Hydro Wetlan Primary	dicators of hydelogy d Indicators y Indicators (Min	dric soil imum of c	were o	observed	heck all tha Water MLRA	nt apply.) Stained l	_eaves (B9) and 4B)		Secondar W	y Indicators (2 or more required Vater Stained Leaves (B9) exce
Remarl No inco Hydro Wetlan Primary	dicators of hydelogy d Indicators Indicators (Min Surface Water (A	imum of a	were o	observed	heck all tha Water MLRA Salt Cr	stapply.) Stained I	_eaves (B9) and 4B)	except	Secondar W D	y Indicators (2 or more required /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B)
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Remark No ince Hydro Wetlan Primary	dicators of hydelogy d Indicators / Indicators (Min Surface Water (A High Water Tabl Saturation (A3) Water Marks (B*	imum of a A1) e (A2) I) sits (B2)	were o	observed	heck all that Water MLRA Salt Cr Aquatio	st apply.) Stained L 1,2,4A, ust (B11) c Inverted gen Sulfic	Leaves (B9) and 4B) orates (B13)	except	Secondar W D D D	y Indicators (2 or more required /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2)
Remarl No inc Hydro Wetlan Primary	dicators of hydelicators of Indicators (Minicators (Minicators (Minicators (Minicators (Minicators (Mater Tables)) Water Marks (Basediment Deposition)	imum of o	were o	observed	heck all thater Water MLRA Salt Cr Aquatic Hydrog	st apply.) Stained I 1,2,4A, ust (B11) c Invertel gen Sulficed Rhizos	Leaves (B9) and 4B) orates (B13) de Odor (C1)	except	Secondar W D D D	y Indicators (2 or more required /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on
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Remark No inco Hydro Wetlan Primary	dicators of hydelogy d Indicators / Indicators (Min Surface Water (A High Water Tabl Saturation (A3) Water Marks (B' Sediment Deposits (B Algal Mat or Cru Iron Deposits (B Surface Soil Cra Inundation Visib Imagery (B7) Sparsely Vegeta Surface (B8)	imum of contact (A1) e (A2) l) sits (B2) st (B4) 5) cks (B6) le on Aeri	were connections and all ave	equired. C	water Water MLRA Salt Cr Aquatic Hydrog Oxidize Preser Receni Tilled Stunter (D1) (I	stained L 1,2,4A, ust (B11) c Inverted gen Sulfice ded Rhizos ace of Re t Iron Rec Soils (C6 d or Stres LRR A) (Explain i	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in) ssed Plants n Remarks)	except)) (C4)	Secondar —— W —— D —— S —— G —— F —— F	y Indicators (2 or more required /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR Arost-Heave Hummocks (D7)
Remark No inco Hydro Wetlan Primary	dicators of hydelicators of hydelicators of hydelicators of hydelicators of Indicators (Minicators (Mi	imum of c A1) e (A2) isits (B2) st (B4) 5) icks (B6) le on Aeri	were connection is reconnected at all ave	equired. C	water MLRA Salt Cr Aquatio Hydrog Oxidize Preser Receni Tilled Stunter (D1) (I	st apply.) Stained L 1,2,4A, ust (B11) c Inverted gen Sulfice d Rhizos ace of Re t Iron Rec Soils (C6 d or Stres LRR A) (Explain i	Leaves (B9) and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in) ssed Plants n Remarks)	except)) (C4)	Secondar	y Indicators (2 or more required /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR Arost-Heave Hummocks (D7)

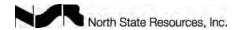


Wotland Determination Data Form West					Data Point		57
Wetland Determination Data Form-West	tern Mount	ains, Val	leys, & (Coast Region	Feature Type	Ripari	ian Wetland
Project/Site: Fountain Wind		City/County	Shasta (County		Date:	8/13/18
Applicant/Owner: Avangrid		,		State: C			
nucstigator(s). Gabe Youngblood, Alison Loveless			Section	Township Dongs S	ec. 1. T34N. R	1E	•
Landform (hillslope, terrace, etc.) Drainage		Local reli	– ef (concave	, convex, none) Conv	/ex	Slope 9	_% 5
Landform (hillslope, terrace, etc.) Drainage Subregion (LRR): MLRA 22B Lat:	-121.816888	0	Long:_	40.833953°	Datum	. <u>N</u> A	D 83
Soil Map Unit Name: _Gasper-Scarface complex, mo	ist, 15 to 30 pe	ercent slop	esN\	WI Classification: N/A	\		
Are climatic/hydrologic conditions on the site typical for the	is time of year?	v √ / (If r	no, explain i	n Remarks.)			
Are vegetation 🗆 🗵 soil 🗖 🗷 or hydrology 🗖 🗷 signi	-						
Are vegetation \(\sqrt{\sqrt{soil}} \sqrt{\logon} \text{for hydrology} \(\sqrt{\sqrt{hatu}} \)	-						
Summary of Findings (Attach site map showing sa			-				
Hydrophytic vegetation? Hydric soil? Wet					hthor waters 2	7/	
				ea a wellanu! [V]	piner waters: v	<i>'</i> '	
Evaluation of features designated "Other W	aters of the	United S	tates"	/ Channel	\A/:-III- 10'		
Indicators: Defined bed and bank Sco	ur <u> </u>	ary Hign wa Blue-lin	ater Mark M ie on USGS	apped <u> </u>	width ate Vegetated		
Feature Designation: Perennial Intermittent Natural Drainage Artificial E	rainage	Navigable \	Nater	- Caud Cabsii	<u> </u>		
Remarks _{DP} documents riparian wetlands with	nin a noronni	al etroom					
DE documents riparian wettands with	шта регени	ai Sileaiii.					
Vegetation (Use Scientific Names)	Abcoluto	Dominant	Indicator	<u> </u>			
Free Stratum (Plot Size:)	Absolute % Cover		Indicator Status	Dominance Test V Number of domina			
1.	<u>// 00/0.</u>	<u> </u>	Otatao	that are OBL, FAC		6	(A)
2.				Total number of do	minant species	6	(D)
3.				across all strata: Percent of dominar	nt species that		(B)
4				are OBL, FACW, o		100	(A/B)
50%=	_			Prevalence Index	Workshoot		
4-	0/ 0			FIEVAIENCE INCEX	WOLKSHEEL		
Sapling/Shrub Stratum (Plot Size: 15)	<u>% Cover</u>	Species?	Status			V	
Sapling/Shrub Stratum (Plot Size: <u>15</u>) 1Salix scouleriana	<u>% Cover</u> 40	Species? Y	Status FAC	Total % Cover of:	Multiply b	-	
Salix scouleriana				Total % Cover of: OBL Species	<u>Multiply b</u> x 1 =	0	_
Salix scouleriana Salix lasiandra	40	Y	FAC	Total % Cover of: OBL Species FACW Species	<u>Multiply b</u> x 1 = x 2 =	0	_
Salix scouleriana Salix lasiandra Alnus incana	40	Y Y	FACW	Total % Cover of: OBL Species FACW Species FAC Species	Multiply b x 1 = x 2 = x 3 =	0 0 0	_ _ _
Salix scouleriana Salix lasiandra Alnus incana	40 40 10 5	Y Y N	FACW FACW	Total % Cover of: OBL Species FACW Species FAC Species FACU Species	Multiply b x 1 = x 2 = x 3 = x 4 =	0 0 0 0	
Salix scouleriana Salix lasiandra Alnus incana Cornus sericea 50%= 47.5 20%= 19 Total Co Herb Stratum (Plot Size: 5)	40 40 10 5	Y Y N	FACW FACW FACW	Total % Cover of: OBL Species FACW Species FAC Species FACU Species UPL Species	Multiply b x 1 = x 2 = x 3 = x 4 = x 5 =	0 0 0 0	——————————————————————————————————————
Salix scouleriana Salix lasiandra Alnus incana Cornus sericea 50%= 47.5 20%= 19 Total Co Herb Stratum (Plot Size: 5)	40 40 10 5 ver: 95	Y Y N N	FACW FACW FACW	Total % Cover of: OBL Species FACW Species FAC Species FACU Species UPL Species Column Totals	Multiply b x 1 = x 2 = x 3 = x 4 = x 5 = 0 (A)	0 0 0 0 0	(B)
Salix scouleriana Salix lasiandra Alnus incana Cornus sericea 50%=47.5 20%=19 Total Co Herb Stratum (Plot Size: 5) Glyceria striata Viola glabella	40 40 10 5 ver: 95 % Cover 3 2	Y Y N N Species?	FACW FACW FACW Status	Total % Cover of: OBL Species FACW Species FAC Species FACU Species UPL Species	Multiply b x 1 = x 2 = x 3 = x 4 = x 5 = 0 (A)	0 0 0 0 0	
Salix scouleriana Salix lasiandra Alnus incana Cornus sericea 50%=47.5 20%=19 Total Co Herb Stratum (Plot Size: 5) Glyceria striata Viola glabella Symphyotrichum spathulatum	40 40 10 5 ver: 95 % Cover 3 2	Y N N Species? Y Y Y	FACW FACW FACW Status OBL	Total % Cover of: OBL Species FACW Species FAC Species FACU Species UPL Species Column Totals Prevalence Index =	Multiply b x 1 = x 2 = x 3 = x 4 = x 5 = 0 (A) etation Indicator	0 0 0 0 0 0	
Salix scouleriana Salix lasiandra Alnus incana Cornus sericea 50%= 47.5 20%= 19 Total Co Herb Stratum (Plot Size: 5) Glyceria striata Viola glabella Symphyotrichum spathulatum Lilium pardalinum	40 40 10 5 ver: 95 % Cover 3 2 2	Y Y N N Species? Y Y	FACW FACW Status OBL FACW	Total % Cover of: OBL Species FACW Species FAC Species FACU Species UPL Species Column Totals Prevalence Index = Hydrophytic Vege Rapid Test (Multiply b x 1 = x 2 = x 3 = x 4 = x 5 = (A) = B/A = etation Indicator or Hydrophytic V	0 0 0 0 0 0	
Salix scouleriana Salix lasiandra Alnus incana Cornus sericea 50%= 47.5 20%= 19 Total Co Herb Stratum (Plot Size: 5) Glyceria striata Viola glabella Symphyotrichum spathulatum Lilium pardalinum	40 40 10 5 95 Wer: 95 % Cover 3 2 2 2	Y N N Species? Y Y Y	FACW FACW Status OBL FACW FAC	Total % Cover of: OBL Species FACW Species FAC Species FACU Species UPL Species Column Totals Prevalence Index = Hydrophytic Vege Rapid Test (Multiply b x 1 = x 2 = x 3 = x 4 = x 5 = (A) = B/A = Station Indicator or Hydrophytic V Test is >50%	0 0 0 0 0 0	
Salix scouleriana Salix lasiandra Alnus incana Cornus sericea 50%=47.5 20%=19 Total Co Herb Stratum (Plot Size: 5) Glyceria striata Viola glabella Symphyotrichum spathulatum Lilium pardalinum Galium aparine	40 40 10 5 95 % Cover 3 2 2 2 1	Species? Y N N Species? Y Y Y N	FACW FACW Status OBL FACW FACW FACW	Total % Cover of: OBL Species FACW Species FACU Species UPL Species Column Totals Prevalence Index = Hydrophytic Vege Rapid Test I Dominance Prevalence Morphologic	Multiply b x 1 = x 2 = x 3 = x 4 = x 5 = 0 (A) B/A = Etation Indicator for Hydrophytic V Test is >50% Index is ≤ 3.0¹ cal Adaptations¹ (cal Adaptations¹)	0 0 0 0 0 0 0 segetation	on supporting
Salix lasiandra Alnus incana Cornus sericea 50%=47.5 20%=19 Total Co Herb Stratum (Plot Size: 5) Glyceria striata Viola glabella Symphyotrichum spathulatum Lilium pardalinum	40 40 10 5 95 % Cover 3 2 2 1	Species? Y N N N Species? Y Y Y N	FACW FACW Status OBL FACW FAC FACW FACU	Total % Cover of: OBL Species FACW Species FACU Species UPL Species Column Totals Prevalence Index = Hydrophytic Vege Rapid Test 1 Dominance Prevalence Morphologic data in Rem	Multiply b x 1 = x 2 = x 3 = x 4 = x 5 = 0 (A) B/A =	0 0 0 0 0 0 0 segetation	on supporting
Salix scouleriana Salix lasiandra Alnus incana Cornus sericea 50%=47.5 20%=19 Total Co Herb Stratum (Plot Size: 5) Glyceria striata Viola glabella Symphyotrichum spathulatum Lilium pardalinum Galium aparine	40 40 10 5 ver: 95 % Cover 3 2 2 2 1	Species? Y N N N Species? Y Y Y N N	FACW FACW Status OBL FACW FAC FACW FACU	Total % Cover of: OBL Species FACW Species FAC Species FACU Species UPL Species Column Totals Prevalence Index = Hydrophytic Vege Rapid Test f Dominance Prevalence Morphologic data in Rem Wetland No	Multiply b	0 0 0 0 0 0	on e supporting neet)
Salix scouleriana Salix lasiandra Alnus incana Cornus sericea 50%=47.5 20%=19 Total Co Herb Stratum (Plot Size: 5) Glyceria striata Viola glabella Symphyotrichum spathulatum Lilium pardalinum Galium aparine	40 40 10 5 ver: 95 % Cover 3 2 2 2 1	Species? Y N N N Species? Y Y Y N N	FACW FACW Status OBL FACW FAC FACW FACU	Total % Cover of: OBL Species FACW Species FACU Species UPL Species Column Totals Prevalence Index = Hydrophytic Vege Rapid Test f ✓ Dominance — Prevalence — Morphologic data in Rem — Wetland No — Problematic TIndicators of hydri	Multiply b x 1 = x 2 = x 3 = x 4 = x 5 = 0 (A) B/A =	0 0 0 0 0 0 segetation	e supporting neet)
Salix scouleriana Salix lasiandra Alnus incana Cornus sericea 50%=47.5 20%=19 Total Co Herb Stratum (Plot Size: 5) Glyceria striata Viola glabella Symphyotrichum spathulatum Lilium pardalinum Galium aparine	40 40 10 5 95 % Cover 3 2 2 2 1	Y N N Species? Y Y Y N N N Species? Y Y Y N N N N N N N N N N N	FACW FACW Status OBL FACW FACW FACU	Total % Cover of: OBL Species FACW Species FAC Species UPL Species UPL Species Column Totals Prevalence Index = Hydrophytic Vege Rapid Test I ✓ Dominance Prevalence Morphologic data in Rem Wetland No Problematic	Multiply b x 1 = x 2 = x 3 = x 4 = x 5 = 0 (A) B/A =	0 0 0 0 0 0 segetation	e supporting neet)
Salix scouleriana Salix lasiandra Alnus incana Cornus sericea 50%=47.5 20%=19 Total Co Herb Stratum (Plot Size: 5) Glyceria striata Viola glabella Symphyotrichum spathulatum Lilium pardalinum Galium aparine 5. ———————————————————————————————————	40 40 10 5 ver: 95 % Cover 3 2 2 2 1 ver: 10 % Cover	Y Y N N Species? Y Y Y N Species?	FACW FACW Status OBL FACW FAC FACW FAC FACU Status	Total % Cover of: OBL Species FACW Species FACU Species UPL Species Column Totals Prevalence Index = Hydrophytic Vege Rapid Test f ✓ Dominance — Prevalence — Morphologic data in Rem — Wetland No — Problematic TIndicators of hydri	Multiply b x 1 = x 2 = x 3 = x 4 = x 5 = 0 (A) B/A = Etation Indicator for Hydrophytic V Test is >50% Index is ≤ 3.0¹ cal Adaptations¹ (arks or on a sep- n-Vascular Plant: Hydrophytic Vector of and wetlant for soil and wetlant	0 0 0 0 0 0 segetation	e supporting neet) 1 (Explain) logy must
Salix scouleriana Salix lasiandra Alnus incana Cornus sericea 50%= 47.5	40 40 10 5 95 % Cover 3 2 2 1 1 ver: 10 % Cover	Y N N Species? Y Y Y N Species?	FACW FACW Status OBL FACW FAC FACW FACU Status	Total % Cover of: OBL Species FACW Species FAC Species UPL Species UPL Species Column Totals Prevalence Index = Hydrophytic Vege Rapid Test I ✓ Dominance Prevalence Morphologic data in Rem Wetland No Problematic Indicators of hydribe present.	Multiply b x 1 = x 2 = x 3 = x 4 = x 5 = 0 (A) B/A = Etation Indicator for Hydrophytic V Test is >50% Index is ≤ 3.0¹ cal Adaptations¹ (arks or on a sep- n-Vascular Plant: Hydrophytic Vector of and wetlant for soil and wetlant	0 0 0 0 0 0 segetation	e supporting neet) 1 (Explain) logy must

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Profile Des Depth	s cription : (De Matrix			leeded to docume Redox Features	in the ma	icator or co		ibserice or indica	1013.
(inches)	Color (mo			Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	<u>Remarks</u>
Types: C:	= Concentration	D = Depleti	on RM	= Reduced Matrix	2 _l	Location: PL	= Pore Lin	ing M = Matrix	
				Rs, unless otherw	ise noted))		Indicators for	Problematic Hydric Soils ³
•	stosol (A1)	(Sandy				2 cm N	•
	stic Epipedon	(A2)		,	ed Matrix (-			arent Materials (TF21)
	ack Histic (A3)					ineral (exc e	ept		hallow Dark Surface (TF12)
	ydrogen Sulfid			,	1) (F1)	`	•	,	ited Sand/Gravel Bars
,	epleted Below		e (A11)			Natrix (F2)		ŭ	(Explain in Remarks)
Th	ick Dark Surfa	ace (A12)		Deplet	-				
Sa	andy Mucky M	ineral (S1)		Redox	Dark Surf	face (F6)		³ Indicators of	hydrophytic vegetation and
Sa	andy Gleyed M	1atrix (S4)		Deplet	ed Dark S	Surface (F7)		wetland hydro	ology must be present.
				Redox	Depression	ons (F8)			
Restrictiv	/e Layer (if pre	esent): Type	e:		Depth (Ir	nches)	Hydr	ic Soil Present?	√ /
	d channel n	o soil pit, v	vegetate	ed sand grave	l bar.				
Scoured Hydrold Wetland	d channel nogy Indicators							Secondary Ind	icators (2 or more required)
Hydrolo Wetland Primary I	d channel n Ogy Indicators ndicators (Min	imum of one		red. Check all tha	at apply.)	(0.0)		-	icators (2 or more required)
Hydrolo Wetland Primary II	ogy Indicators Indicators (Min	imum of one		red. Check all tha	at apply.) Stained L	eaves (B9)	except	Water	Stained Leaves (B9) except
Hydrold Wetland Primary II V Su	ogy Indicators ndicators (Min	imum of one		red. Check all tha Water MLRA	at apply.) Stained Lo		except	Water MLRA	Stained Leaves (B9) except
Hydrold Wetland Primary II Substitute of the state of th	ogy Indicators Indicators (Min Jurface Water (Algh Water Tabla Jaturation (A3)	imum of one A1) le (A2)		red. Check all tha Water MLRA Salt Cr	stained L 1,2,4A, a ust (B11)	and 4B)	except	Water MLRA Draina	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10)
Hydrold Wetland Primary II Su Hi Su Wetland Wetland Primary II Wetland Primary II Wetland Wetland Primary II Wetland Wetla	ogy Indicators Indicators (Minurate Water (Agh Water Table Indicator (A3) Indicators (B1)	nimum of one A1) le (A2)		red. Check all that Water MLRA Salt Cr Aquatic	st apply.) Stained Lost 1,2,4A, acust (B11) C Inverteb	and 4B) rates (B13)	·	Water MLRA Draina Dry-Se	Stained Leaves (B9) except a 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2)
Hydrold Wetland Primary II V Su V Hii V Sa Wi Se	ogy Indicators Indicators (Min	imum of one A1) le (A2) 1) sits (B2)		red. Check all that Water MLRA Salt Cr Aquation	at apply.) Stained La 1,2,4A, a rust (B11) C Inverteb gen Sulfide	and 4B) rates (B13) e Odor (C1)		Water MLRA Draina Dry-Se Satura	Stained Leaves (B9) except a 1,2,4A, and 4B) ge Patterns (B10) ason Water Table (C2) tion Visible on
Hydrold Wetland Primary II Sa W Se J Dr	ogy Indicators Indicators (Min	imum of one A1) le (A2) 1) sits (B2)		red. Check all that Water MLRA Salt Cr Aquatic Hydrog Oxidize	Stained Land 1,2,4A, and the control of the control	rates (B13) e Odor (C1) pheres (C3)	Water MLRA Draina Dry-Se Satura Aerial	Stained Leaves (B9) except a 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9)
Hydrold Wetland Primary II V Su V Hi V Sa W Ale	ogy Indicators Indicators (Minicators (Minicators (Minicators (Minicators (Minicators (Minicator)) Indicator (Minicator) Indicators (Minicator) Indicator (Minicato	imum of one A1) le (A2) 1) sits (B2) ast (B4)		red. Check all that Water MLRA Salt Cr Aquatic Oxidize Preser	Stained Lost 1,2,4A, a rust (B11) converteb gen Sulfide ed Rhizos nace of Rec	rates (B13) e Odor (C1) pheres (C3 duced Iron ()	Water MLRA Draina Dry-Se Satura Aerial ✓ Geome	Stained Leaves (B9) except a 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2)
Hydrold Wetland Primary II Substitute of the second of th	ogy Indicators Indicators (Minurface Water (A) Indicators (Minurface Water (A) Indicators (B) In	imum of one A1) le (A2) 1) sits (B2) 33) st (B4) 5)		red. Check all that Water MLRA Salt Cr Aquatir Hydrog Oxidize Preser Recen	Stained Land 1,2,4A, and a sust (B11) and control of Record Recor	rates (B13) e Odor (C1) pheres (C3 duced Iron (luction in)	Water MLRA Draina Dry-Se Satura Aerial ✓ Geomo	Stained Leaves (B9) except a 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3)
Hydrold Wetland Primary II ✓ Su ✓ Hii ✓ Sa Wi — Se ✓ Dr — Alg	ogy Indicators Indicators (Minicators (Min	imum of one A1) le (A2) 1) sits (B2) s3) let (B4) 5) locks (B6)		red. Check all that Water MLRA Salt Cr Aquatic Hydroc Oxidize Preser Recen Tilled	Stained Lands (B11) at apply.) Stained Lands (B11) at apply (B11)	rates (B13) e Odor (C1) pheres (C3 duced Iron (duction in)	Water MLRA Draina Dry-Se Satura Aerial ✓ Geome Shallon ✓ FAC-N	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) eutral Test (D5)
Hydrold Wetland Primary II Substitute of the second of th	ogy Indicators Indicators (Min	imum of one A1) le (A2) 1) sits (B2) s3) let (B4) 5) locks (B6)		red. Check all that Water MLRA Salt Cr Aquatir Hydrog Oxidize Preser Recen Tilled Stunte	Stained Land 1,2,4A, and a 1,2	rates (B13) e Odor (C1) pheres (C3 duced Iron (luction in)	Water MLRA Draina Dry-Se Satura Aerial ✓ Geomo Shallov FAC-N Raised	Stained Leaves (B9) except a 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) eutral Test (D5) I Ant Mounds (D6) (LRR A)
Hydrold Wetland Primary II ✓ Su ✓ Hii ✓ Sa — Wi — Se ✓ Dr — Alg — Inc	ogy Indicators Indicators (Minurface Water (A) Indicators (Minurface Water Table Indicators (B) Indicators (Minurface Water (B) Indicators (B	imum of one A1) le (A2) 1) sits (B2) ast (B4) 5) acks (B6) le on Aerial	e is requir	red. Check all that Water MLRA Salt Cr Aquatir Hydrog Oxidize Preser Recen Tilled Stunte (D1) (l	Stained Land 1,2,4A, and a sust (B11) or Invertebugen Sulfide and Rhizosance of Rectard Tron Redus (C6) dor Stresun LRR A)	rates (B13) e Odor (C1) pheres (C3) duced Iron (luction in sed Plants)	Water MLRA Draina Dry-Se Satura Aerial ✓ Geomo Shallov FAC-N Raised	Stained Leaves (B9) except a 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) eutral Test (D5)
Hydrold Wetland Primary II ✓ Su ✓ Hii ✓ Sa Wi Se ✓ Dr Ali Inc	ogy Indicators Indicators (Min	imum of one A1) le (A2) 1) sits (B2) ast (B4) 5) acks (B6) le on Aerial	e is requir	red. Check all that Water MLRA Salt Cr Aquatir Hydrog Oxidize Preser Recen Tilled Stunte (D1) (l	Stained Land 1,2,4A, and a sust (B11) or Invertebugen Sulfide and Rhizosance of Rectard Tron Redus (C6) dor Stresun LRR A)	rates (B13) e Odor (C1) pheres (C3 duced Iron (duction in)	Water MLRA Draina Dry-Se Satura Aerial ✓ Geomo Shallov FAC-N Raised	Stained Leaves (B9) except a 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) eutral Test (D5) I Ant Mounds (D6) (LRR A)
Hydrold Wetland Primary II ✓ Su ✓ Hii ✓ Sa — Wi — Se ✓ Dr — Alg — Inc — Inc — Su — Su	ogy Indicators Indicators (Minicators (Min	imum of one A1) le (A2) 1) sits (B2) ast (B4) 5) acks (B6) le on Aerial	e is requir	red. Check all that Water MLRA Salt Cr Aquatic Hydrog Oxidize Preser Recen Tilled Stunte (D1) (I	Stained Land 1,2,4A, and a land	rates (B13) e Odor (C1) pheres (C3) duced Iron (luction in sed Plants	C4)	Water MLRA Draina Dry-Se Satura Aerial ✓ Geome Shalloe ✓ FAC-N Raised Frost-F	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) eutral Test (D5) I Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
Hydrold Wetland Primary II Su His Su Inc Su Field Ob	ogy Indicators Indicators (Min	imum of one A1) le (A2) 1) sits (B2) sit (B4) 5) lcks (B6) le on Aerial ated Concav	e is requir	red. Check all that Water MLRA Salt Cr Aquatic Oxidize Preser Recen Tilled Stunte (D1) (I Other (I	Stained Land 1,2,4A, and a stained Land 1,2,4A,	rates (B13) e Odor (C1) pheres (C3) duced Iron (luction in sed Plants n Remarks)	C4)	Water MLRA Draina Dry-Se Satura Aerial ✓ Geomo Shallov FAC-N Raised	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) eutral Test (D5) I Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
Hydrold Wetland Primary II Substitute of the state of th	ogy Indicators Indicators (Minicators (Min	imum of one A1) le (A2) 1) sits (B2) s3) lst (B4) 5) lcks (B6) le on Aerial atted Concav	e is requir	red. Check all that Water MLRA Salt Cr Aquatic Oxidize Preser Recen Tilled Stunte (D1) (I Other (Stained Land 1,2,4A, and a sust (B11) of Inverteb gen Sulfider Red Soils (C6) of or Strest LRR A) (Explain in the sum of	rates (B13) e Odor (C1) pheres (C3) duced Iron (luction in sed Plants n Remarks)	C4)	Water MLRA Draina Dry-Se Satura Aerial ✓ Geome Shalloe ✓ FAC-N Raised Frost-F	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) eutral Test (D5) I Ant Mounds (D6) (LRR A) Heave Hummocks (D7)

Water present in channel. Drift deposits at data point indicate frequent flooding.



Wetland Determination Data Form-We	estern Mour	ntains. Val	levs. & (Coast Region Feature Typ	ne Uplai	nd
			•	•		8/13/18
Applicant/Owner: Avangrid		_ City/County	y·	State: CA	Date.	
Investigator(s): Gabe Youngblood, Alison Lovele	 SS		Section	, Township, Range Sec. 1, T34N,	R1E	-
		L ocal reli	ef (concave	CONVEY NONE) Convex	Slone	5
Landform (hillslope, terrace, etc.) Drainage Subregion (LRR): MLRA 22B	40.833976	Local I cii	Lona.	-121.816855° Da	Slope	√0 ND 83
Soil Map Unit Name: Gasper-Scarface complex,						
Are climatic/hydrologic conditions on the site typical for						
	-					
Are vegetation	0					
Are vegetation	aturally problema	atic? (<i>If need</i>	ea, expiain	in Remarks.)		
Summary of Findings (Attach site map showing						
Hydrophytic vegetation? ✓ ☐ Hydric soil? ✓/ ☐ \	Wetland hydrolog	y? <mark>√</mark> ls:	sampled are	ea a wetland? 🔽 🗖 Other waters?	· 🗸 / 🗌	
Evaluation of features designated "Other Indicators: Defined bed and bank Seature Designation: Perennial Intermittent Natural Drainage Artifici	Scour <u>√</u> Ord Ephemeral	dinary High Wa Blue-lir	ater Mark M ne on USGS	apped Stream Width _10' Quad Substrate Vegetated		
Vegetation (Use Scientific Names) Tree Stratum (Plot Size: 30)	Absolut % Cove		Indicator Status	Dominance Test Worksheet Number of dominant species		
1. Calocedrus decurrens	30	Y	UPL	that are OBL, FACW, or FAC:	1	_ (A)
2. Salix scouleriana	30	_ Y	FAC	Total number of dominant specie	es 5	(D)
3. Salix lasiandra	10	N	FACW	across all strata: Percent of dominant species that		_ (B)
4				are OBL, FACW, or FAC:	20	_ (A/B)
50%= <u>35</u> 20%= <u>14</u> Total	Cover:70	_		Prevalence Index Worksheet		
Sapling/Shrub Stratum (Plot Size:)	% Cove	<u>Species?</u>	Status	Total % Cover of: Multip	ly by	
1. Ribes roezlii	5	Y	UPL	OBL Species x 1		
2				FACW Species x 2	_	
3				FAC Species x 3	•	
4				FACU Species x 4		
50%= 2.5 20%= 1 Total	Cover: 5			I ACO Species X 4		
Herb Stratum (Plot Size: 5	% Cove	er Species?	Status	UPL Species x 5		— (D)
1. Pteridium aquilinum	15	Y	FACU	Column Totals (A)		(B)
Lysimachia latifolia	10	Y	FACU	Prevalence Index = B/A =		
Galium aparine	2	N	FACU	Hydrophytic Vegetation Indica	tors	
4.				Rapid Test for Hydrophyti	c Vegetat	on
5				Dominance Test is >50%		
6.				Prevalence Index is < 3.0 Morphological Adaptation		≥ SUDDOrtir
7				data in Remarks or on a s	separate s	
8				Wetland Non-Vascular Pla	ants ¹	
50%=_13.5 20%=_5.4 Total	Cover: 27			Problematic Hydrophytic \ \textsup \frac{1}{\text{Indicators of hydric soil and wet}}		
Woody/Vine Stratum (Plot Size:)			Status	be present.	ana nyun	ogy musi
		•		,		7
1				Hydrophytic Vegetation Preser	nt? [✔]/[_	1
2						
50%= 70tal						

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JU.	ш	

rofile De Depth	e scription : (De Matrix		ine depi	Redox Feature		aloator or oc			
inches)	Color (mo		%	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks_
)-2								0	Leaf litter/roots
7-12	7.5YR 2.5/3	10	00					SL	Sandy loam
Types: C	C = Concentration	n D = Depl	etion F	RM = Reduced Mat	ix	² Location: Pl	_ = Pore Lir	ning M = Ma	atrix
ydric Sc	oil Indicators:	(Applicabl	e to all L	RRs, unless other	rwise noted	d)		Indicator	rs for Problematic Hydric Soils
H	Histosol (A1)			Sar	dy Redox (S5)		2	cm Muck (A10)
H	Histic Epipedon	(A2)		Stri	ped Matrix	(S6)		R	led Parent Materials (TF21)
B	Black Histic (A3))		Loa	my Mucky N	Mineral (exc	ept	V	ery Shallow Dark Surface (TF12
H	Hydrogen Sulfid	e (A4)		ML	RA 1) (F1)			_ √ _ ∨	egetated Sand/Gravel Bars
	Depleted Below	Dark Surf	ace (A1	1) Loa	my Gleyed	Matrix (F2)		0	Other (Explain in Remarks)
T	Thick Dark Surfa	ace (A12)		Dep	leted Matrix	x (F3)			
S	Sandy Mucky M	ineral (S1)		Red	ox Dark Su	rface (F6)		³ Indicate	ors of hydrophytic vegetation and
S	Sandy Gleyed M	1atrix (S4)		Dep	leted Dark	Surface (F7))	wetland	hydrology must be present.
				Red	ox Depress	sions (F8)			
	ive Layer (if pre	esent): Tv	_{'ne} . n/a		Denth (Inches)	Hvd	ric Soil Dros	sent? ✓ /
Restricti	ive Layer (ii pit		DC.					116 3011 1 163	
Remark No ind	icators of hy							110 3011 1103	
Remark No ind Hydro Wetland	licators of hydicators	dric soil	were o	bserved.					
Remark No ind Hydro Wetland Primary	licators of hydlogy d Indicators Indicators (Min	dric soil	were o	bserved. quired. Check all	that apply.)			Secondar	ry Indicators (2 or more required
Remark No ind Hydro Wetland Primary	licators of hydicators of Indicators (Min	dric soil	were o	bserved. quired. Check all Wa	that apply.)	Leaves (B9)		Secondar	ry Indicators (2 or more required Vater Stained Leaves (B9) exce
Remark No ind Hydro Wetland Primary	licators of hydelicators of Indicators (Minicators (Minicators (Minicators Table))	dric soil	were o	bserved. quired. Check all Wa ML	that apply.) er Stained RA 1,2,4A,	Leaves (B9) and 4B)		Secondar W	ry Indicators (2 or more required Vater Stained Leaves (B9) exce VILRA 1,2,4A, and 4B)
Remark No ind Hydro Wetland Primary S S S	licators of hydelicators of Indicators (Mindicators (Mind	dric soil nimum of o A1) le (A2)	were o	puired. Check all ML	that apply.) er Stained RA 1,2,4A, Crust (B11	Leaves (B9) and 4B)	except	Secondar W MD	ry Indicators (2 or more required Vater Stained Leaves (B9) excel VILRA 1,2,4A, and 4B) Orainage Patterns (B10)
Remark No ind Hydro Wetland Primary S H	licators of hydelicators of Indicators (Minicators (Mi	dric soil imum of o A1) le (A2)	were o	puired. Check all —— Wa ML —— Sal	that apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte	Leaves (B9) and 4B)) brates (B13)	except	Secondar —— W M —— D	ry Indicators (2 or more required Vater Stained Leaves (B9) excel VILRA 1,2,4A, and 4B) Orainage Patterns (B10) Ory-Season Water Table (C2)
Remark No ind Hydro Wetland Primary S L V S	licators of hydelicators of Indicators (Minicators (Mi	dric soil imum of o A1) le (A2) 1) sits (B2)	were o	puired. Check all Wa ML Sali Aqu	that apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte	Leaves (B9) and 4B)) brates (B13) de Odor (C1	except	<u>Secondar</u> W D D S	ry Indicators (2 or more required Vater Stained Leaves (B9) exce VILRA 1,2,4A, and 4B) Irainage Patterns (B10) Iry-Season Water Table (C2) aturation Visible on
Remark No ind Hydro Wetland Primary S L S L S C C	licators of hydelicators of hydelicators of hydelicators (Ministrace Water (Aligh Water Tables Saturation (A3) Water Marks (B3) Water Marks (B4)	dric soil nimum of o A1) le (A2) 1) sits (B2)	were o	puired. Check all —— Wa ML —— Sali —— Aqu —— Hyo	that apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte rogen Sulfid	Leaves (B9) and 4B)) brates (B13) de Odor (C1 spheres (C3	except	Secondar WDDS	ry Indicators (2 or more required Vater Stained Leaves (B9) excel VILRA 1,2,4A, and 4B) Prainage Patterns (B10) Pry-Season Water Table (C2) Paturation Visible on Aerial Imagery (C9)
Remark No ind Hydro Wetland Primary S V S C A	licators of hydelicators of hydelicators of hydelicators (Minimal Marker Marks (Bright Water Marks (Bright Water Marks (Bright Deposits (Bright Deposits (Bright Marks (Bright Deposits (Bright Marks (Bright Deposits (Bright Marks (Bright Marks (Bright Deposits (Bright Marks (Bright	dric soil dric soil A1) de (A2) 1) sits (B2) 33) ast (B4)	were o	puired. Check all —— Wa ML —— Sal —— Aqu —— Hyo —— Oxi —— Pre	that apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte rogen Sulfic dized Rhizo sence of Re	Leaves (B9) and 4B)) brates (B13) de Odor (C1 spheres (C3	except	Secondar —— W D D S G	ry Indicators (2 or more required Vater Stained Leaves (B9) excel VILRA 1,2,4A, and 4B) Trainage Patterns (B10) Try-Season Water Table (C2) Try-Season Water Table (C2) Taturation Visible on The Aerial Imagery (C9)
Remark No ind Hydro Wetland Primary S V S I I I	licators of hydelicators of hydelicators of hydelicators (Ministration (Ministration (Marks (Bright Water Marks (Bright Water Marks (Bright Water Marks (Bright Water Marks (Bright Deposits (Bright Mater Marks (Bright Deposits (Bright Mater Marks (Bright	dric soil dric soil aimum of o A1) le (A2) 1) sits (B2) 33) sst (B4) 55)	were o	puired. Check all —— Wa ML —— Sali —— Aqu —— Hyo —— Oxi —— Pre —— Rec	that apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte rogen Sulfid dized Rhizo sence of Re	Leaves (B9) and 4B)) brates (B13) de Odor (C1 spheres (C3 educed Iron of	except	Secondar W M D S G S S	ry Indicators (2 or more required Vater Stained Leaves (B9) excepulation (B10) or a capacitation (B10)
Remark No ind Hydro Wetland Primary S V S I I S S S S S S S S S S	licators of hydelicators of hydelicators of hydelicators (Mindicators	dric soil imum of o A1) le (A2) 1) sits (B2) a3) sst (B4) acks (B6)	were o	bserved. quired. Check all —— Wa ML —— Sal' —— Aqu —— Hyo —— Oxi —— Pre —— Rec	that apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte rogen Sulfid dized Rhizo sence of Re ent Iron Re ed Soils (Ce	Leaves (B9) and 4B)) brates (B13) de Odor (C1 spheres (C3 educed Iron (duction in	except	Secondar —— W D S G S F	ry Indicators (2 or more required Vater Stained Leaves (B9) exception (B10) examinage Patterns (B10) ery-Season Water Table (C2) eaturation Visible on Aerial Imagery (C9) decomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5)
Remark No ind Hydro Wetland Primary S S I I I I I I I I I I I I I I I I I	licators of hydelicators of hydelicators of hydelicators of hydelicators of Indicators (Minicators (Mi	dric soil imum of o A1) le (A2) 1) sits (B2) a3) sst (B4) acks (B6)	were o	puired. Check all —— Wa ML —— Sali —— Aqu —— Hyo —— Pre —— Rec —— Stu	that apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte rogen Sulfid dized Rhizo sence of Re ent Iron Re ed Soils (Ce ated or Stre	Leaves (B9) and 4B)) brates (B13) de Odor (C1 spheres (C3 educed Iron of	except	Secondar W D D S F G S F R	ry Indicators (2 or more required Vater Stained Leaves (B9) excelulated A.2,4A, and 4B) or ainage Patterns (B10) or aturation Visible on Aerial Imagery (C9) seomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) taised Ant Mounds (D6) (LRR A)
Remark No ind Hydro Wetland Primary S V S I I I I I	licators of hydelicators of hydelicators of hydelicators of hydelicators of Indicators (Mindicators (Mindicat	dric soil dric soil aimum of o A1) le (A2) 1) sits (B2) ast (B4) ast (B4) le on Aeria	were o	bserved. quired. Check all Wa ML Sal: Aqu Hyc Oxi Pre Rec Till Stu (D'	that apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte rogen Sulfid dized Rhizo sence of Re ent Iron Re ed Soils (Ce atted or Stre) (LRR A)	Leaves (B9) and 4B)) brates (B13) de Odor (C1 spheres (C3 educed Iron (duction in 6) ssed Plants	except)) (C4)	Secondar W D D S F G S F R	ry Indicators (2 or more required Vater Stained Leaves (B9) exception (B10) examinage Patterns (B10) ery-Season Water Table (C2) eaturation Visible on Aerial Imagery (C9) decomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5)
Remark No ind Hydro Wetland Primary S I S I I S S I I S S	licators of hydelicators of hydelicators of hydelicators of hydelicators (Mindicators (Mindicators (Mindicators (Mindicators (Mindicators (Mindicators (Mindicators (Magh Water Marks (Brown Deposits (Brown Deposits (Brown Deposits (Brown Deposits (Brown Magh Water Marks (Brown Deposits (Brown Deposits (Brown Deposits (Brown Deposits (Brown Magh Water	dric soil dric soil aimum of o A1) le (A2) 1) sits (B2) ast (B4) ast (B4) le on Aeria	were o	bserved. quired. Check all Wa ML Sal: Aqu Hyc Oxi Pre Rec Till Stu (D'	that apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte rogen Sulfid dized Rhizo sence of Re ent Iron Re ed Soils (Ce atted or Stre) (LRR A)	Leaves (B9) and 4B)) brates (B13) de Odor (C1 spheres (C3 educed Iron (duction in	except)) (C4)	Secondar W D D S F G S F R	ry Indicators (2 or more required Vater Stained Leaves (B9) excelulated A.2,4A, and 4B) or ainage Patterns (B10) or aturation Visible on Aerial Imagery (C9) seomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) taised Ant Mounds (D6) (LRR A)
Remark No ind Hydro Wetland Primary S S I I I S S S S	licators of hydelicators of hydelicators of hydelicators of hydelicators of Indicators (Mindicators (Mindicators (Mindicators (Mindicators (Mindicators (Mindicators (Marks (Braduration (A3))) Nater Marks (Braduration Deposits (Balgal Mat or Cruron Deposits (Balgal Mat or Cruron Deposits (Braduration Visible) Surface Soil Cranundation Visible Imagery (B7) Sparsely Vegeta Surface (B8)	dric soil dric soil aimum of o A1) le (A2) 1) sits (B2) ast (B4) ast (B4) le on Aeria	were o	bserved. quired. Check all Wa ML Sal: Aqu Hyc Oxi Pre Rec Till Stu (D'	that apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte rogen Sulfid dized Rhizo sence of Re ent Iron Re ed Soils (Ce atted or Stre) (LRR A)	Leaves (B9) and 4B)) brates (B13) de Odor (C1 spheres (C3 educed Iron (duction in 6) ssed Plants	except)) (C4)	Secondar W D D S F G S F R	ry Indicators (2 or more required Vater Stained Leaves (B9) excelulated A.2,4A, and 4B) or ainage Patterns (B10) or aturation Visible on Aerial Imagery (C9) seomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) taised Ant Mounds (D6) (LRR A)
Remark No ind Hydro Wetland Primary S S S S Field Of	licators of hydelicators of hydelicators of hydelicators of hydelicators (Mindicators (Mindicators (Mindicators (Mindicators (Mindicators (Mindicators (Mindicators (Magh Water Marks (Brown Deposits (Brown D	dric soil dric soil aimum of o A1) le (A2) 1) sits (B2) ast (B4) st (B4) le on Aeria ated Conca	me is rea	bserved. quired. Check all —— Wa ML —— Sal' —— Aqu —— Hyc —— Oxi —— Pre —— Rec —— Till —— Stu —— Oth	that apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte rogen Sulfic dized Rhizo sence of Re ent Iron Re ed Soils (Ce ated or Stre) (LRR A) er (Explain	Leaves (B9) and 4B)) brates (B13) de Odor (C1 spheres (C3 educed Iron (duction in 6) ssed Plants in Remarks)	except)) (C4)	Secondar —— W —— D —— S —— G —— S —— F —— F	ry Indicators (2 or more required Vater Stained Leaves (B9) exception (B10) exception (B10) erg-Season Water Table (C2) eaturation Visible on Aerial Imagery (C9) decomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) eaised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
Remark No ind Hydro Wetland Primary S S I I I S S Field Ol Surface N	licators of hydelicators of hydelicators of hydelicators of hydelicators of Indicators (Mindicators (Mindicators (Mindicators (Mindicators (Mindicators (Mindicators (Marks (Braduration (A3))) Nater Marks (Braduration Deposits (Balgal Mat or Cruron Deposits (Balgal Mat or Cruron Deposits (Braduration Visible) Surface Soil Cranundation Visible Imagery (B7) Sparsely Vegeta Surface (B8)	dric soil dric soil aimum of o A1) le (A2) 1) sits (B2) ast (B4) ast (B4) le on Aeria	me is red	bserved. quired. Check all Wa ML Sali Aqu Hyo Oxi Pre Rec Till Stu (D' Oth	that apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte rogen Sulfid dized Rhizo sence of Re ent Iron Re ed Soils (Ce atted or Stre) (LRR A)	Leaves (B9) and 4B)) brates (B13) de Odor (C1 spheres (C3 educed Iron (duction in 6) ssed Plants in Remarks)	except)) (C4)	Secondar W D D S F G S F R	ry Indicators (2 or more required Vater Stained Leaves (B9) exception (B10) exception (B10) erg-Season Water Table (C2) eaturation Visible on Aerial Imagery (C9) decomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) eaised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)



					Data Point		59
Wetland Determination Data Form-V	Nestern Moun	tains, Val	leys, & C	Coast Region	Feature Type	Wetlan	d Seep/Spring
Project/Site: Fountain Wind		City/County	,. Shasta (County		Date.	8/13/18
Applicant/Owner: Avangrid		_ 011,7000111,	·	State: C	;A	Dato.	
Investigator(s): Gabe Youngblood, Alison Love	eless		Section	. Township, Range S	ec. 1, T34N, R	1E	
Landform (hillslope, terrace, etc.) Hillslope Subregion (LRR): MLRA 22B		Local reli	ef (concave	, convex, none) Con	vex	Slope 9	_% 5
Subregion (LRR): MLRA 22B	Lat: 40.837787°		Lona:	-121.818807°	Datur	n: NA	D 83
Soil Map Unit Name: Gasper-Scarface complex	x, moist, 30 to 50 p	percent slop	es N	NI Classification: N/A	\		
Are climatic/hydrologic conditions on the site typical							
Are vegetation Soil Soil For hydrology							
Are vegetation \(\sum \subseteq \si	0				_		
			-				
Summary of Findings (Attach site map show						1.57	
Hydrophytic vegetation? 🗹 🗌 Hydric soil? 🗹 🗀	Wetland hydrology	/? ☑ I S:	sampled are	ea a wetland? _\	Dther waters?		
Evaluation of features designated "Oth							
Indicators: Defined bed and bank							
Feature Designation: Perennial Intermittent Natural Drainage Artif	Epnemerai _ icial Drainage	Blue-IIn 	ie on USGS Water	Quad Substi	ate		
Remarks DP documents riparian wetlands	s within a perenn	ial stream.					
Vegetation (Use Scientific Names)	Absolute		Indicator	Dominance Test \			
Tree Stratum (Plot Size:)	·		<u>Status</u>	Number of domina		2	(A)
1				that are OBL, FAC Total number of do			(A)
2				across all strata:		2	(B)
3				Percent of dominal		100	(A/B)
4	tal Cover: 0			are OBL, FACW, o	I FAC		(A/D)
50%=		-	CL I	Prevalence Index			
Sapling/Shrub Stratum (Plot Size:				Total % Cover of:		_	
1				OBL Species		_	_
2				FACW Species			
3					x 3 =		_
4	tal Cover· 0			FACU Species			
	tui 00vci	-	CL I	UPL Species	x 5 =	0	_
Herb Stratum (Plot Size: _5) 1 Muhlenbergia filiformis	% Cover 20	Species?	Status FACW	Column Totals	0 (A)	0	(B)
2. Carex sp.		- <u>'</u>	FAC:	Prevalence Index :	= B/A =	_	
2. Leucanthemum vulgare		N	FACU				
11-11		N	FAC	Hydrophytic Vege Rapid Test	for Hydrophytic \		on
4. Holcus lanatus 5. Equisetum arvense		N	FAC	✓ Dominance	Test is >50%	- 9 - 1 - 1	
6. Prunella vulgaris		N	FACU	Prevalence	Index is $\leq 3.0^1$ cal Adaptations ¹	(provido	cupporting
7. Epilobium sp.	1	N	FAC		arks or on a sep		
8 Verbena lasiostachys	1	N	FAC	Wetland No	n-Vascular Plant	S ¹	
50%=2020%=8To				Problemation 1 Indicators of hydro	Hydrophytic Ver		
Woody/Vine Stratum (Plot Size:)		- Species?	Status	be present.	c son and Wellah	a riyuru	iogy musi
	% Cover	Species?	Sialus	1 '			
							1
1				Hydrophytic Vege	etation Present?	V]
2				Hydrophytic Vege	etation Present?	V]

\sim		1
\sim	ш	C
w	ш	

Depth	Description : (Describ Matrix		Redox Fe	eatures				
(<u>inches</u>) D-2	Color (moist) 7.5YR 2.5/2	<u>%</u> 100	Color (r		Type ¹	Loc ²	<u>Texture</u> SL	<u>Remarks</u> Sandy Loam high organic
2-8	10YR 2/1	80	7.5YR 3/3	20			<u>C</u>	Clay
8-12	10YR 3/1	70	10YR 5/4	30	<u>C</u>	M	C	Clay
Types:	C = Concentration D =	Depletion	RM = Reduce	ed Matrix	² Location: P	L = Pore Lin	ing M = Ma	ıtrix
	Histosol (A1) Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Depleted Below Dark Thick Dark Surface (A) Sandy Mucky Minera Sandy Gleyed Matrix) Surface (<i>i</i> 112) (S1) (S4)	A11)	_ Sandy Redox _ Stripped Matri _ Loamy Mucky MLRA 1) (F1) _ Loamy Gleyed _ Depleted Matr _ Redox Dark S _ Depleted Dark _ Redox Depres	(S5) x (S6) Mineral (exc Matrix (F2) x (F3) urface (F6) Surface (F7)	2	es for Problematic Hydric Soils cm Muck (A10) ed Parent Materials (TF21) ery Shallow Dark Surface (TF12) egetated Sand/Gravel Bars ther (Explain in Remarks) ers of hydrophytic vegetation and hydrology must be present.
Remar	meet the requiren			· ·	· · · · ·		30111163	
Remar Soils Hydro Wetlar	ks meet the requiren	nents of i	ndicator F6	Redox Dark	Surface.			
Remar Soils Hydro Wetlar Primar	meet the requiren	nents of interest of one is of one i	ndicator F6	Redox Dark	Surface.) Leaves (B9) , and 4B) 1) ebrates (B13 ide Odor (C7 espheres (C) educed Iron eduction in 6) essed Plants) except) () 3) (C4)	Secondar —— W —— D —— S —— G —— F —— F	y Indicators (2 or more required) /ater Stained Leaves (B9) except /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)

Oxidized rhizospheres indicate long duration saturation.



				Data Point	60
Wetland Determination Data Form-Westerr	า Mounta	ains, Vall	eys, & C	Coast Region Feature Type	Upland
Project/Site: Fountain Wind		City/County	. Shasta C	County	_{Date} . 8/13/18
Applicant/Owner: Avangrid		ongrooding		State: CA	Dutc
Cahe Voundhlood Alicon Loveless			Section	Sec 1 T3/N P	 1E
Landform (hillsland torrace etc.) Hillslope					
Landform (hillslope, terrace, etc.) Hillslope Subregion (LRR): MLRA 22B Lat: 40.	.837806°	_ LUCAITEIR	Long.	convex, none) Convex -121.818803° Datun	NAD 83
Soil Map Unit Name: Gasper-Scarface complex, moist, 3	30 to 50 pe	ercent slope	Long S NIV	VI Classification: N/A	
Are climatic/hydrologic conditions on the site typical for this tir					
Are vegetation \(\sigma \sqrt{\infty}\sigma \sqrt{\infty}\sigma sill properties of the sile typical for this this this time.	-				
3	,			•	
Are vegetation \(\scale \scale \scale soil \scale \scale or hydrology \scale \scale haturally	problemation	c? (If neede	ed, explain i	n Remarks.)	
Summary of Findings (Attach site map showing sampli	ng point loc	ations, trans	ects, impor	tant features, etc.)	
Hydrophytic vegetation? ☐ ☒ Hydric soil? ☑ ☐ Wetland	hydrology?	✓ ☐ Is s	ampled are	a a wetland? \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\]
Evaluation of features designated "Other Wate	rs of the	United St	ates"		
Indicators: Defined bed and bank Scour _				apped Stream Width	
Feature Designation: Perennial Intermittent Ep	hemeral	Blue-line	e on USGS	Quad Substrate	
Natural Drainage Artificial Drain	age	Navigable V	Vater	-	
Remarks Data point documents upland condition of	on the edo	ge of a me	adow.		
		9			
Vegetation (Use Scientific Names)	Absolute	Dominant	Indicator	Dominance Test Worksheet	
Tree Stratum (Plot Size: 30)	% Cover	Species?		Number of dominant species	
1. Pseudotsuga menziesii	5	Y	FACU	that are OBL, FACW, or FAC:	(A)
2. Pinus ponderosa	5	Y	FACU	Total number of dominant species	8 (p)
3				across all strata: Percent of dominant species that	(b)
4				are OBL, FACW, or FAC:	25 (A/B)
50%= 5 20%= 2 Total Cover:	10			Prevalence Index Worksheet	
Sapling/Shrub Stratum (Plot Size:15)	% Cover	Species?	Status	Total % Cover of: Multiply b)V
1. Arctostaphylos patula	5	Y	UPL	OBL Species x 1 =	0
2. Salix scouleriana	2	Υ	FAC	FACW Species x 2 =	0
3. Ceanothus integerrimus	2	Υ	UPL	FAC Species x 3 =	
4. Rubus armeniacus	1	N	FAC	1	
50%= 5 20%= 2 Total Cover:	10			FACU Species x 4 =	
Herb Stratum (Plot Size: 5	% Cover	Species?	Status	UPL Species x 5 =	
1. Leucanthemum vulgare	15	Υ	FACU	Column Totals (A)	(B)
2. Symphyotrichum spathulatum	5	Y	FAC	Prevalence Index = B/A =	_
3. Sidalcea gigantea	5	Υ	UPL	Hydrophytic Vegetation Indicator	· c
4. Prunella vulgaris	4	N	FACU	Rapid Test for Hydrophytic V	
5. Holcus lanatus	2		FAC	Dominance Test is >50%	
6. Hypericum perforatum	2		FACU	Prevalence Index is < 3.01 Morphological Adaptations ¹	(nrovide sunnorting
7. Carex sp.	1		FAC	data in Remarks or on a sep	
8 Elymus glaucus	1		FACU	Wetland Non-Vascular Plant	S ¹
50%= 17.5 20%= 7 Total Cover:	35			Problematic Hydrophytic Veo *Indicators of hydric soil and wetland **	
Woody/Vine Stratum (Plot Size:)	% Cover	Species?	Status	be present.	a garology must
			Jalus	,	
1 2				Hydrophytic Vegetation Present?	
50%=					
% Bare Ground in Herb Stratum 65 % Cover of Bio		0			
70 Date Glouila ili Helb Stratulli 70 Covel Ol Bio	nic Grust _				

7-12 7.5YR 3/1 Types: C = Concentration D = De ydric Soil Indicators: (Application Histosol (A1) Histic Epipedon (A2) Black Histic (A3)	% 100 80 10Y 100 95 10Y epletion RM =	'R 3/4 5 Reduced Matrix s, unless otherwise	% Type 20 C C C	<u>loc²</u> <u>Loc²</u> <u>PL</u>	Texture SL SL	<u>Remarks</u> Sandy loam
7.5YR 3/2 7-12 7.5YR 3/1 7-12 7.5YR 3/1 Types: C = Concentration D = Do ydric Soil Indicators: (Application Histosol (A1) Histic Epipedon (A2) Black Histic (A3)	80 10Y 100 95 10Y epletion RM =	'R 3/4 5 Reduced Matrix s, unless otherwise		PL		
7-12 7.5YR 3/1 Types: C = Concentration D = De ydric Soil Indicators: (Application Histosol (A1) Histic Epipedon (A2) Black Histic (A3)	100 95 10Y epletion RM =	'R 3/4 5 Reduced Matrix s, unless otherwise				Sandy loam
7-12 7.5YR 3/1 Types: C = Concentration D = Do ydric Soil Indicators: (Application Histosol (A1) Histic Epipedon (A2) Black Histic (A3)	95 10Y epletion RM =	Reduced Matrix s, unless otherwise	<u> </u>		1	Loam
Types: C = Concentration D = Do ydric Soil Indicators: (Application Histosol (A1) Histic Epipedon (A2) Black Histic (A3)	epletion RM =	Reduced Matrix s, unless otherwise	•	PL	CL	Clay loam
ydric Soil Indicators: (Applica Histosol (A1) Histic Epipedon (A2) Black Histic (A3)		s, unless otherwise	21 4			
Histosol (A1) Histic Epipedon (A2) Black Histic (A3)	abie to ali ERR			on: PL = Pore Lir		
Histic Epipedon (A2) Black Histic (A3)		Candy Da				s for Problematic Hydric Soils
Black Histic (A3)		Sandy Re				cm Muck (A10)
			Matrix (S6)	/avaamt		ed Parent Materials (TF21)
		•	ucky Mineral	(except		ery Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	urface (A11)	MLRA 1)	• ,	(E2)		egetated Sand/Gravel Bars
Depleted Below Dark So		_	leyed Matrix	(F2)	0	ther (Explain in Remarks)
Thick Dark Surface (A1:	•	•	Matrix (F3)	E/\	31	
Sandy Mucky Mineral (S	•		ark Surface (•		ors of hydrophytic vegetation and
Sandy Gleyed Matrix (S	04)	·	Dark Surface		wellanu	hydrology must be present.
		Redox De	epressions (F	8)		
Restrictive Layer (if present):	Type: n/a	D	epth (Inches)) Hvd	ric Soil Pres	ent? ✓ /
Remarks						
Hydrology Wetland Indicators Primary Indicators (Minimum o	of one is require	ed. Check all that a	apply.)		Secondar	y Indicators (2 or more required)
Surface Water (A1)				s (B9) except		/ater Stained Leaves (B9) excep
• ,						•
Saturation (A3)		Salt Crus		-,		·
					1)	rainage Patterns (B10)
			vertebrates	(B13)		rainage Patterns (B10) rv-Season Water Table (C2)
Water Marks (B1))	Aquatic Ir	nvertebrates n Sulfide Odo		D	ry-Season Water Table (C2)
Water Marks (B1) Sediment Deposits (B2))	Aquatic Ir Hydrogen	Sulfide Odo	or (C1)	D	ry-Season Water Table (C2) aturation Visible on
Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3))	Aquatic Ir Hydrogen _ ✓ Oxidized	n Sulfide Odo Rhizosphere	or (C1) es (C3)	D S	ry-Season Water Table (C2) aturation Visible on erial Imagery (C9)
Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4))	Aquatic Ir Hydrogen ✓ Oxidized Presence	Sulfide Odo Rhizosphere of Reduced	or (C1) es (C3) Iron (C4)	D S G	ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2)
Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5)		Aquatic Ir Hydrogen ✓ Oxidized Presence Recent Ir	n Sulfide Odo Rhizosphere of Reduced on Reduction	or (C1) es (C3) Iron (C4)	D S G S	ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3)
Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	5)	Aquatic Ir Hydrogen ✓ Oxidized Presence Recent Ir Tilled So	n Sulfide Odo Rhizosphere of Reduced on Reductior ils (C6)	or (C1) es (C3) Iron (C4)	D S G S S	ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5)
Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on A6	5)	Aquatic Ir Hydrogen ✓ Oxidized Presence Recent Ir Tilled So Stunted o	n Sulfide Odo Rhizosphere of Reduced on Reductior ils (C6) or Stressed P	or (C1) es (C3) Iron (C4)	D S G S F R	ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3)
Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on A6 Imagery (B7)	ó) erial	Aquatic Ir Hydrogen ✓ Oxidized Presence Recent Ir Tilled So Stunted o (D1) (LR	n Sulfide Odd Rhizosphere of Reduced on Reduction ils (C6) or Stressed P R A)	or (C1) es (C3) Iron (C4) n in	D S G S F R	ry-Season Water Table (C2) aturation Visible on terial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A)
Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on A6	ó) erial	Aquatic Ir Hydrogen ✓ Oxidized Presence Recent Ir Tilled So Stunted o (D1) (LR	n Sulfide Odo Rhizosphere of Reduced on Reductior ils (C6) or Stressed P	or (C1) es (C3) Iron (C4) n in	D S G S F R	ry-Season Water Table (C2) aturation Visible on terial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A)
Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on A6 Imagery (B7) Sparsely Vegetated Cor	ó) erial	Aquatic Ir Hydrogen ✓ Oxidized Presence Recent Ir Tilled So Stunted o (D1) (LR	n Sulfide Odd Rhizosphere of Reduced on Reduction ils (C6) or Stressed P R A)	or (C1) es (C3) Iron (C4) n in	D S G S F R	ry-Season Water Table (C2) aturation Visible on terial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A)
Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on A6 Imagery (B7) Sparsely Vegetated Cor Surface (B8) Field Observations	5) erial ncave	Aquatic Ir Hydrogen ✓ Oxidized Presence Recent Ir Tilled So Stunted o (D1) (LR	n Sulfide Odd Rhizosphere of Reduced on Reduction ils (C6) or Stressed P R A) splain in Rem	or (C1) es (C3) Iron (C4) n in Plants earks)	D S G S F R	ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on A6 Imagery (B7) Sparsely Vegetated Cor Surface (B8) Field Observations	6) erial ncave	Aquatic Ir Hydrogen ✓ Oxidized Presence Recent Ir Tilled So Stunted o (D1) (LR Other (Ex	n Sulfide Odo Rhizosphere of Reduced on Reduction ils (C6) or Stressed P R A) cplain in Rem	or (C1) es (C3) Iron (C4) n in Plants earks)	D S	ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)
High Water Table (A2) Saturation (A3)			, 2,4A, and 4I t (B11)	3)		ILRA 1,2,4A, and 4B)

Oxidized rhizospheres begin at 4 inches and indicate long duration saturation.

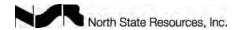


Wetland Determination Data Form-Westeri	n Mounta	ains, Vall	eys, & C	coast Region	Feature Type	Fresh e	emergent wetlan
Project/Site: Fountain Wind		City/County	Shasta C	County		Date:	8/15/18
. " Δvanarid				α CΔ		Dato.	
Investigator(s): Gabe Youngblood, Alison Loveless			Section			R1E	-
Landform (hillslope, terrace, etc.) Drainage		Local relie	ef (concave,	convex, none) Conca	ve	Slope S	_% 1
Landform (hillslope, terrace, etc.) Drainage Subregion (LRR): MLRA 22B Lat: 40	.840497°		Long:_	-121.821042°	Datum	n: NA	ND 83
Soil Map Unit Name: _Gasper-Scarface complex, moist,	15 to 30 pe	ercent slope	esNv	VI Classification: N/A			
Are climatic/hydrologic conditions on the site typical for this ti	me of year?	√ /□(If n	o, explain ir	n Remarks.)			
Are vegetation (S)soil (S)or hydrology (1)Significal							
Are vegetation []/[X]soil []/[X]or hydrology []/[X]haturally							
	•	-		<u> </u>			
Summary of Findings (Attach site map showing sampl Hydrophytic vegetation? ☑ ☐ Hydric soil? ☑ ☐ Wetland					thor watere	7,	
				a a welland? 1v_N_D	iner waters?[v		
Evaluation of features designated "Other Water	rs of the	United St	ates"	/	Variabla		
Indicators: Defined bed and bank Scour _ Feature Designation: Perennial Intermittent Ep	Ordina hemeral	ary High Wa Rlue-lin	ter Mark Ma e on USGS	apped <u>▼</u> Stream W Ouad Substrat	o Vegetated		
Natural Drainage Artificial Drain	nage	Navigable V	Vater	- Substitut	C		
					1		
Remarks Data point documents a perennial strear	n with we	tiand vege	etation thr	oughout the channe	i.		
Variation (Llas Calcutific Names)	A1 1 1	D ! !	1 12 1	<u> </u>			
Vegetation (Use Scientific Names) Tree Stratum (Plot Size:)	Absolute <u>% Cover</u>			Dominance Test Wo Number of dominant			
1.	<u>70 00 V CI</u>	эрсскоз.	Status	that are OBL, FACW		1	(A)
2.				Total number of dom			
3				across all strata: Percent of dominant	 snacios that		_ (B)
4.				are OBL, FACW, or I		100	(A/B)
50%=	0			Dravalana a Inday M	المعادمام ما		
Sapling/Shrub Stratum (Plot Size:)		Species?	Status	Prevalence Index W Total % Cover of:)V	
1				OBL Species		-	
2				FACW Species			
3					x 3 =	_	
4				FACU Species _			
50%= Total Cover:	0				x 5 =		
Herb Stratum (Plot Size: 5	% Cover	Species?	Status	Column Totals			(D)
1. Veronica americana	20	Y	OBL				(B)
2. Equisetum arvense	5	N	FAC	Prevalence Index = E	3/A =	_	
3. Scirpus microcarpus	5	N	OBL	Hydrophytic Vegeta			
4				Rapid Test for	Hydrophytic V	egetation	on
5				Dominance To Prevalence In			
6				Morphologica	Adaptations1 (
7				data in Remai	ks or on a sep	arate sh	neet)
8				Problematic H			1 (Explain)
50%= <u>15</u> 20%= <u>6</u> Total Cover:	30			¹ Indicators of hydric			
Woody/Vine Stratum (Plot Size:)	% Cover	Species?	Status	be present.			
1				Hydrophytic Vegeta	ition Present?	√/_]
2							
50%= Total Cover:	0						
% Bare Ground in Herb Stratum 70 % Cover of Bio	tic Crust	0					

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JU.	ш	

Depth	e scription : (De Matrix			Redox I	Features	in the mu			absence of i	ndicators.
(<u>inches</u>) 0-2	Color (mo 10YR 2/1	<u>ist)</u> 10	<u>%</u> 00	<u>Color</u>	(moist)	<u>%</u>	Type ¹	<u>Loc²</u>	Texture MS	Remarks Mucky sand
Hydric So F F F	C = Concentration oil Indicators: (Histosol (A1) Histic Epipedon (Black Histic (A3) Hydrogen Sulfide Depleted Below	Applicabl (A2) (A4) Dark Surf	e to all	LRRs, unle	ess otherwi Sandy Strippe Loamy MLRA Loamy	ise noted) Redox (S ed Matrix (Mucky M 1) (F1) Gleyed M	5) S6) ineral (exce latrix (F2)		2 R V	es for Problematic Hydric Soils cm Muck (A10) led Parent Materials (TF21) lery Shallow Dark Surface (TF12) legetated Sand/Gravel Bars other (Explain in Remarks)
	Thick Dark Surfa Sandy Mucky Mii Sandy Gleyed M	neral (S1)		✓	Redox Deplete	ed Matrix Dark Surf ed Dark S Depression	ace (F6) urface (F7)			ors of hydrophytic vegetation and hydrology must be present.
Restrict	ive Layer (if pre	sent): Ty	pe: Ro	ock		Depth (In	nches) 2	Hydi	ric Soil Pres	ent? ✓ /
Remark	(S	mat wit	-		(muck) a	nd sand	. Meets i	ndicator	S1 Sand	y Mucky Mineral.
Remark Soil co	onsists of root		h fine	organic			. Meets i	ndicator		y Mucky Mineral. Ty Indicators (2 or more required)
Remark Soil co	onsists of root	mum of o (A1) (E (A2) (B2) (B3) (St (B4) (S) (Cks (B6) (B on Aeria	ne is re	organic	meck all that MLRA Salt Cr Aquatic Hydrog Oxidize Present Tilled Stunted (D1) (I	stained Le 1,2,4A, a ust (B11) c Invertebr gen Sulfide ed Rhizos ace of Red t Iron Red Soils (C6) d or Stress	eaves (B9) Ind 4B) rates (B13) e Odor (C1) pheres (C3) luced Iron (uction in	except	Secondar WDDS✓ GS	
Remark Soil co	onsists of root logy d Indicators Indicators (Mini Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Depos Drift Deposits (B3 Algal Mat or Crus ron Deposits (B8 Surface Soil Crac nundation Visible Imagery (B7) Sparsely Vegeta	mum of o (A1) (E (A2) (B2) (B3) (St (B4) (S) (Cks (B6) (B on Aeria	ne is re	equired. Ch	meck all that MLRA Salt Cr Aquatic Hydrog Oxidize Present Tilled Stunted (D1) (I	Stained Lease 1,2,4A, a lust (B11) con Sulfide ed Rhizos luce of Red to Iron Red Soils (C6) do r Stress LRR A) (Explain in les) 1	eaves (B9) rates (B13) e Odor (C1) pheres (C3) luced Iron (uction in sed Plants I Remarks)	except) C4)	Secondar W M D S F F Hydrology?	y Indicators (2 or more required) /ater Stained Leaves (B9) except //LRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) seomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) raised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)

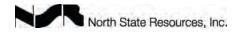
Surface water provides wetland hydrology.



					Data Point		
Wetland Determination Data Form–West	ern Mount	ains, Val	leys, & (Coast Region	Feature Type	Ripar	ian Wetland
Project/Site: Fountain Wind		City/County	Shasta (County		Date:	8/15/18
Applicant/Owner: Avangrid		,,		State: C	:A		
nvestigator(s): Gabe Youngblood, Alison Loveless			Section			R1E	•
Landform (hillslope, terrace, etc.) Terrace		Local relie	ef (concave	convex none) Cond	cave	Slope 9	_% 3
Landform (hillslope, terrace, etc.) Terrace Subregion (LRR): MLRA 22B Lat:	40.840466°	_	Lona:	-121.821029°	 Datum	ı. NA	D 83
Soil Map Unit Name: _Gasper-Scarface complex, moi	st, 15 to 30 pe	ercent slop	es N\	WI Classification: N/A	\		
Are climatic/hydrologic conditions on the site typical for th							
Are vegetation \(\sigma \overline{\mathbb{X}}\)soil \(\sigma \overline{\mathbb{X}}\)or hydrology \(\sigma \overline{\mathbb{X}}\)signif	-				٦		
Are vegetation					_		
Summary of Findings (Attach site map showing sai					ı	1.57	
Hydrophytic vegetation? 🗹 🗌 Hydric soil? 🗹 🦳 Wetl	and hydrology?		sampled are	ea a wetland? \✓_	Other waters?		
Evaluation of features designated "Other Wa	aters of the	United St	ates"				
Indicators: Defined bed and bank Scot	ur Ordin	ary High Wa	iter Mark M	apped Stream	Width		
Feature Designation: Perennial Intermittent Natural Drainage Artificial D	_ Ephemeral rainage	Blue-lin Navigable V	e on USGS Mater	Quad Substr	ate		
Remarks _{Data} point documents riparian wetlan	id adjacent t	o a perenr	nial stream	n.			
Vegetation (Use Scientific Names)	Absolute	Dominant	Indicator	Dominance Test \	Norksheet		
Tree Stratum (Plot Size:)	% Cover	Species?	Status	Number of domina		5	(-)
1				that are OBL, FAC Total number of do			(A)
2				across all strata:		5	(B)
3				Percent of dominar		100	(4 (5)
4	_			are OBL, FACW, o	r FAC:		(A/B)
50%= Total Cov	ver:0			Prevalence Index	Worksheet		
Sapling/Shrub Stratum (Plot Size: 15 ft)	% Cover	Species?		Total % Cover of:		_	
Salix lasiandra		Y	FACW	OBL Species	x 1 =	0	_
				The state of the s			
Salix scouleriana		Y	FAC	FACW Species	x 2 =	0	
Alnus incana	15	<u>Y</u> <u>Y</u>	FACW	· ·		0	_
Alnus incana 4.	15			FAC Species	x 2 = x 3 =	0	
Alnus incana 4. 50%= 27.5 20%= 11 Total Cov	15 /er: 55	Y	FACW	FAC Species FACU Species	x 2 = x 3 = x 4 =	0 0	
Alnus incana 4	15 ver: 55 % Cover	Y Species?	FACW	FAC Species FACU Species UPL Species	x 2 = x 3 = x 4 = x 5 =	0 0 0 0	
Alnus incana 4	15 //er: 55 % Cover 10	Species?	Status FACW	FAC Species FACU Species UPL Species Column Totals	x 2 = x 3 = x 4 = x 5 = 0 (A)	0 0 0 0	(B)
Alnus incana 4	/ver: 55 % Cover 10 10	Species? Y Y	Status FACW OBL	FAC Species FACU Species UPL Species Column Totals Prevalence Index =	x 2 = x 3 = x 4 = x 5 = 0 (A) = B/A =	0 0 0 0 0	(B)
Alnus incana 4	//er: 55 % Cover 10 10 5	Species? Y Y N	Status FACW OBL FAC	FAC Species FACU Species UPL Species Column Totals Prevalence Index =	x 2 = x 3 = x 4 = x 5 = 0 (A) = B/A =	0 0 0 0 0	
Alnus incana Al	// 15 // 25 // 35 // 35	Species? Y Y N N	Status FACW OBL FAC FACU	FAC Species FACU Species UPL Species Column Totals Prevalence Index = Hydrophytic Vege Rapid Test	x 2 = x 3 = x 4 = x 5 = 0 (A) = B/A =	0 0 0 0 0	
Alnus incana Al	//er: 55 % Cover 10 10 5 5 5 2	Species? Y Y N	Status FACW OBL FAC	FAC Species FACU Species UPL Species Column Totals Prevalence Index = Hydrophytic Vege Rapid Test Dominance Prevalence	x 2 = x 3 = x 4 = x 5 = 0 (A) = B/A = etation Indicator for Hydrophytic V Test is >50% Index is < 3.01	0 0 0 0 0	on
Alnus incana Allus incana Al	yer: 55 % Cover 10 10 5 5 2	Species? Y Y N N N	Status FACW OBL FACU OBL	FAC Species FACU Species UPL Species Column Totals Prevalence Index = Hydrophytic Vege Rapid Test Dominance Prevalence Morphologic	x 2 = x 3 = x 4 = x 5 = 0 (A) = B/A = etation Indicator for Hydrophytic V Test is >50% Index is ≤ 3.01 cal Adaptations 1 (a)	0 0 0 0 0	on supporting
Alnus incana Al. 50%=27.5 20%=11 Total Cov Herb Stratum (Plot Size: 5 ft Viola glabella Stachys ajugoides Equisetum arvense Achillea millefolium Scirpus microcarpus	/ver: 55 % Cover 10 10 5 5 2	Species? Y Y N N N	Status FACW OBL FAC FACU OBL	FAC Species FACU Species UPL Species Column Totals Prevalence Index = Hydrophytic Vege Rapid Test Dominance Prevalence Morphologic data in Rem	x 2 = $x 3 =$ $x 4 =$ $x 5 =$ $x 5$	0 0 0 0 0 segetation	on supporting
Alnus incana Al. 50%=27.5 20%=11 Total Cov Herb Stratum (Plot Size: 5 ft Viola glabella Stachys ajugoides Equisetum arvense Achillea millefolium Scirpus microcarpus 7. 8.	//er: 55 % Cover 10 10 5 5 2	Species? Y Y N N N	Status FACW OBL FAC FACU OBL	FAC Species FACU Species UPL Species Column Totals Prevalence Index = Hydrophytic Vege Rapid Test (Dominance Prevalence Morphologic data in Rem Wetland No Problematic	x 2 = x 3 = x 4 = x 5 = 0 (A) = B/A = etation Indicator for Hydrophytic V Test is >50% Index is < 3.01 cal Adaptations 1 (aarks or on a sepan-Vascular Plants Hydrophytic Veg	o o o o o s egetatio	on e supporting neet) 1 (Explain)
Alnus incana Allus incana Al	// 15 // 2 // 2 // 2 // 32 // 2 // 32	Species? Y Y N N N	Status FACW OBL FAC FACU OBL	FAC Species FACU Species UPL Species Column Totals Prevalence Index = Hydrophytic Vege Rapid Test I Dominance Prevalence Morphologic data in Rem Wetland No Problematic Indicators of hydro	x 2 = x 3 = x 4 = x 5 = 0 (A) = B/A = etation Indicator for Hydrophytic V Test is >50% Index is < 3.01 cal Adaptations 1 (aarks or on a sepan-Vascular Plants Hydrophytic Veg	o o o o o s egetatio	on e supporting neet)
Alnus incana Allus incana Al	// 15 // 2 // 2 // 2 // 32 // 2 // 32	Species? Y Y N N N	Status FACW OBL FAC FACU OBL	FAC Species FACU Species UPL Species Column Totals Prevalence Index = Hydrophytic Vege Rapid Test (Dominance Prevalence Morphologic data in Rem Wetland No Problematic	x 2 = x 3 = x 4 = x 5 = 0 (A) = B/A = etation Indicator for Hydrophytic V Test is >50% Index is < 3.01 cal Adaptations 1 (aarks or on a sepan-Vascular Plants Hydrophytic Veg	o o o o o s egetatio	on e supporting neet)
Alnus incana Al. 50%=27.5 20%=11 Total Cov Herb Stratum (Plot Size: 5 ft Viola glabella Stachys ajugoides Equisetum arvense Achillea millefolium Scirpus microcarpus 7. 8.	/ver: 55 % Cover 10 10 5 5 2 /ver: 32 % Cover	Species? Y Y N N N Species?	Status FACW OBL FAC FACU OBL	FAC Species FACU Species UPL Species Column Totals Prevalence Index = Hydrophytic Vege Rapid Test I Dominance Prevalence Morphologic data in Rem Wetland No Problematic Indicators of hydro	x 2 = x 3 = x 4 = x 5 = 0 (A) Estation Indicator for Hydrophytic V Test is >50% Index is < 3.01 cal Adaptations (a) arks or on a sepan-Vascular Plants Hydrophytic Vegic soil and wetland	o o o o o o segetation provide arate sh s1 getation d hydro	e supporting neet) 1 (Explain) alogy must
Alnus incana A	/ver:	Species? Y Y N N N Species?	Status FACW OBL FAC OBL Status	FAC Species FACU Species UPL Species Column Totals Prevalence Index = Hydrophytic Vege Rapid Test i Dominance Prevalence Morphologic data in Rem Wetland No Problematic Indicators of hydrobe present.	x 2 = x 3 = x 4 = x 5 = 0 (A) Estation Indicator for Hydrophytic V Test is >50% Index is < 3.01 cal Adaptations (a) arks or on a sepan-Vascular Plants Hydrophytic Vegic soil and wetland	o o o o o o segetation provide arate sh s1 getation d hydro	e supporting neet) 1 (Explain) alogy must

ches)	Color (moist)	<u>%</u>	Cole	or (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	_	Remarks
1	10YR 2/1	100	7.5VD	2/4				<u>P</u>	Peat	
12	7.5YR 2.5/3	58	7.5YR		30	<u>C</u>	<u>M</u>	SL	Sandy I	oam
			7.5YR		10	<u>C</u>	PL			
			10YR 6	0/2	2		<u>M</u>			
pes: (C = Concentration D =	Depletion	RM = Red	duced Matrix		² Location: P	L = Pore Lin	ing M = Ma	trix	
	oil Indicators: (App	licable to a	II LRRs, u							olematic Hydric Soils
	Histosol (A1)		_	,	Redox (S	-			cm Muck	
	Histic Epipedon (A2)		_		ed Matrix					Materials (TF21)
	Black Histic (A3)		_	,	•	Mineral (ex c	ept		3	w Dark Surface (TF12)
	Hydrogen Sulfide (A4	-			1) (F1)				-	Sand/Gravel Bars
	Depleted Below Dark	-	411) _	,	•	Matrix (F2)		0	ther (Expla	ain in Remarks)
	Thick Dark Surface (-	-		ed Matrix			21 11 .	61. 1	
	Sandy Mucky Minera		_			rface (F6)	`		,	ophytic vegetation and
`	Sandy Gleyed Matrix	(54)	_			Surface (F7)	welland	nyarology	must be present.
			_	Redox	Depress	1011S (F8)				
estrict	ive Layer (if present): Type: F	Rock		Depth (I	Inches) 2	Hvdi	ric Soil Pres	ent? ✓ /	
our ir	nch layer of coars	sely deco	mposed	organic la	ayer ove	er mineral	soil. Oxid	dized rhiz	oshphere	es indicate aquic c
our in ydro	nch layer of coars	•	•			er mineral	soil. Oxid		•	es indicate aquic constants
our ir lydro /etlan rimary	logy d Indicators Indicators (Minimun	•	•	Check all that	at apply.)			Secondar	y Indicator	rs (2 or more required)
ydro ydro etlan imary	logy d Indicators Indicators (Minimun	n of one is	•	Check all that	at apply.) Stained L	Leaves (B9)		Secondar	y Indicator /ater Stain	rs (2 or more required) ed Leaves (B9) excep
our in	logy d Indicators Indicators (Minimun Surface Water (A1) High Water Table (A2)	n of one is	•	Check all the Water MLRA	at apply.) Stained L	Leaves (B9) and 4B)		Secondar W	y Indicator /ater Stain ILRA 1,2,4	rs (2 or more required) ed Leaves (B9) excep 4A, and 4B)
lydro /etlan- rimary	logy d Indicators Indicators (Minimun	n of one is	•	Check all that Water MLRA Salt C	at apply.) Stained L A 1,2,4A, rust (B11)	Leaves (B9) and 4B)	except	Secondar W N	y Indicator /ater Stain ILRA 1,2,4 rainage Pa	rs (2 or more required) ed Leaves (B9) excep
lydro /etlan rimary	logy d Indicators Indicators (Minimun Surface Water (A1) High Water Table (A2 Saturation (A3)	n of one is	•	Check all that Water MLRA Salt C Aquati	at apply.) Stained L A 1,2,4A, rust (B11) c Invertel	_eaves (B9) and 4B)	except	Secondar W D D	y Indicator /ater Stain ILRA 1,2,4 rainage Pa	rs (2 or more required) ed Leaves (B9) excep 4A, and 4B) atterns (B10) Water Table (C2)
our ir	logy d Indicators Indicators (Minimun Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1)	n of one is	•	Check all the Water MLRA Salt C Aquati	at apply.) Stained L A 1,2,4A, rust (B11) c Inverted	_eaves (B9) and 4B)) brates (B13	except	Secondar 	y Indicator /ater Stain /ILRA 1,2, rainage Pa ry-Season	ed Leaves (B9) excep 4A, and 4B) atterns (B10) Water Table (C2)
our in	logy d Indicators Indicators (Minimun Surface Water (A1) High Water Table (A2 Saturation (A3) Vater Marks (B1) Sediment Deposits (B	n of one is 2) 32)	•	Check all that Water MLRA Salt C Aquati Hydrog ✓ Oxidiz	at apply.) Stained L A 1,2,4A, rust (B11) c Invertel gen Sulfic	Leaves (B9) and 4B)) brates (B13 de Odor (C1	except))	Secondar W D D D	y Indicator /ater Stain /ILRA 1,2, rainage Pa ry-Season aturation V erial Imag	ed Leaves (B9) excep 4A, and 4B) atterns (B10) Water Table (C2)
our in	logy d Indicators Indicators (Minimun Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3)	n of one is 2) 32)	•	Check all that Water MLRA Salt C Aquati Hydrog ✓ Oxidiz Preser	at apply.) Stained I A 1,2,4A, rust (B11) c Invertel gen Sulfic ed Rhizos nce of Re	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3	except))	Secondar W D D S A	y Indicator /ater Stain /ILRA 1,2,4 rainage Pa ry-Season aturation Valerial Image	ed Leaves (B9) excep 4A, and 4B) atterns (B10) Water Table (C2) /isible on ery (C9)
lydro letlan rimary	logy d Indicators Indicators (Minimun Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B Orift Deposits (B3) Algal Mat or Crust (B	n of one is 2) 32) 4)	•	Check all that Water MLRA Salt C Aquati Hydro ✓ Oxidiz Presea	at apply.) Stained I A 1,2,4A, rust (B11) c Invertel gen Sulfic ed Rhizos nce of Re	Leaves (B9) and 4B) brates (B13 de Odor (C1 spheres (C3 duced Iron duction in	except))	Secondar — W M — D — D — Sc A ✓ G — SI	y Indicator /ater Stain /ILRA 1,2,4 rainage Pa ry-Season aturation V erial Imag eomorphic hallow Aqu	ed Leaves (B9) excep 4A, and 4B) atterns (B10) Water Table (C2) Visible on ery (C9) C Position (D2)
Jydro Jetlan rimary	logy d Indicators Indicators (Minimun Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B ron Deposits (B5)	n of one is 2) 32) 4) B6)	•	Check all the Water MLRA Salt C Aquati Hydrog ✓ Oxidiz Preser Recen Tilled	Stained L A 1,2,4A, rust (B11) c Invertel gen Sulfic ed Rhizos nce of Re t Iron Rec Soils (C6	Leaves (B9) and 4B) brates (B13 de Odor (C1 spheres (C3 duced Iron duction in)))) (C4)	Secondar — W M — D — D — Sc A — G — SI — F	y Indicator /ater Stain /ILRA 1,2,4 rainage Pa ry-Season aturation Valerial Image eomorphichallow Aquacon	ed Leaves (B9) excep 4A, and 4B) atterns (B10) Water Table (C2) Visible on ery (C9) E Position (D2)
our in	logy d Indicators Indicators (Minimun Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Fron Deposits (B5) Surface Soil Cracks (n of one is 2) 32) 4) B6)	•	Check all that Water MLRA Salt C Aquati Hydro ✓ Oxidiz Presea Recen Tilled Stunte	Stained L A 1,2,4A, rust (B11) c Invertel gen Sulfic ed Rhizos nce of Re t Iron Rec Soils (C6	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3 duced Iron duction in)))) (C4)	Secondar —— W M —— D —— Si —— G —— Si —— Fi —— R	y Indicator /ater Stain /ILRA 1,2, rainage Pa ry-Season aturation Varial Image eomorphic hallow Aqu AC-Neutra aised Ant	ed Leaves (B9) excep 4A, and 4B) atterns (B10) Water Table (C2) Visible on ery (C9) c Position (D2) uitard (D3) I Test (D5)
our in	logy d Indicators Indicators (Minimum Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Fron Deposits (B5) Surface Soil Cracks (Inundation Visible on Imagery (B7) Sparsely Vegetated (Incomplete Imagery (B7) Sparsely Vegetated (Incomplete Imagery (B7) Sparsely Vegetated (Incomplete Imagery (B7)	n of one is 2) 32) 4) B6) Aerial	•	Check all that Water MLRA Salt C Aquati Hydrog ✓ Oxidiz Presen Tilled Stunte (D1) (Stained LA 1,2,4A, rust (B11) c Invertel gen Sulfice of Ret Iron Rec Soils (C6 d or Street LRR A)	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3 duced Iron duction in)))) (C4)	Secondar —— W M —— D —— Si —— G —— Si —— Fi —— R	y Indicator /ater Stain /ILRA 1,2, rainage Pa ry-Season aturation Varial Image eomorphic hallow Aqu AC-Neutra aised Ant	ed Leaves (B9) excep 4A, and 4B) atterns (B10) Water Table (C2) Visible on ery (C9) c Position (D2) uitard (D3) I Test (D5) Mounds (D6) (LRR A)
lydro /etlandrimary	logy d Indicators Indicators (Minimun Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B ron Deposits (B5) Surface Soil Cracks (nundation Visible on Imagery (B7)	n of one is 2) 32) 4) B6) Aerial	•	Check all that Water MLRA Salt C Aquati Hydrog ✓ Oxidiz Presen Tilled Stunte (D1) (Stained LA 1,2,4A, rust (B11) c Invertel gen Sulfice of Ret Iron Rec Soils (C6 d or Street LRR A)	Leaves (B9) and 4B) brates (B13 de Odor (C1 spheres (C3 duced Iron duction in b) ssed Plants)))) (C4)	Secondar —— W M —— D —— Si —— G —— Si —— Fi —— R	y Indicator /ater Stain /ILRA 1,2, rainage Pa ry-Season aturation Varial Image eomorphic hallow Aqu AC-Neutra aised Ant	ed Leaves (B9) excep 4A, and 4B) atterns (B10) Water Table (C2) Visible on ery (C9) c Position (D2) uitard (D3) I Test (D5) Mounds (D6) (LRR A)
Jour in lydro	logy d Indicators Indicators (Minimum Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B Fron Deposits (B5) Surface Soil Cracks (Inundation Visible on Imagery (B7) Sparsely Vegetated (Incomplete Imagery (B7) Sparsely Vegetated (Incomplete Imagery (B7) Sparsely Vegetated (Incomplete Imagery (B7)	n of one is 2) 32) 4) B6) Aerial Concave	required.	Check all that Water MLRA Salt C Aquati Hydrog ✓ Oxidiz Presen Tilled Stunte (D1) (Stained LA 1,2,4A, rust (B11) c Invertel gen Sulfice of Ret Iron Rec Soils (C6 d or Street LRR A) (Explain i	Leaves (B9) and 4B) brates (B13 de Odor (C1 spheres (C3 duced Iron duction in b) ssed Plants	except))) (C4)	Secondar — W M — D — Si A ✓ G — Si ✓ Fi — Fi	y Indicator /ater Stain /ILRA 1,2, rainage Pa ry-Season aturation Vaerial Image eomorphichallow Aqualor AC-Neutra aised Antirost-Heave	ed Leaves (B9) excep 4A, and 4B) atterns (B10) Water Table (C2) Visible on ery (C9) c Position (D2) uitard (D3) I Test (D5) Mounds (D6) (LRR A)
lydro /etlan- rimary S S S S S S S S S S S S S S S S S S	logy d Indicators Indicators (Minimun Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B3 Fron Deposits (B5) Surface Soil Cracks (Inundation Visible on Imagery (B7) Sparsely Vegetated (Incomplete (B8) bservations Water Present? Yes	n of one is 2) 32) 4) B6) Aerial Concave	required.	Check all the Water MLRA Salt C Aquati Hydro ✓ Oxidiz Presel Recen Tilled Stunte (D1) (Other	Stained LA 1,2,4A, rust (B11) c Invertel gen Sulfice of Ret Iron Rec Soils (C6 d or Strest LRR A) (Explain intes) n/a	Leaves (B9) and 4B) brates (B13 de Odor (C1 spheres (C3 duced Iron duction in b) ssed Plants	except))) (C4)	Secondar —— W M —— D —— Si —— G —— Si —— Fi —— R	y Indicator /ater Stain /ILRA 1,2, rainage Pa ry-Season aturation Vaerial Image eomorphichallow Aqualor AC-Neutra aised Antirost-Heave	ed Leaves (B9) excep 4A, and 4B) atterns (B10) Water Table (C2) Visible on ery (C9) c Position (D2) uitard (D3) I Test (D5) Mounds (D6) (LRR A)
Jetlandrimary Sield O urface /ater Ta	logy d Indicators Indicators (Minimum Surface Water (A1) High Water Table (A2 Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B3 Fron Deposits (B5) Surface Soil Cracks (Inundation Visible on Imagery (B7) Sparsely Vegetated (G3 Surface (B8) bservations	n of one is 2) 32) 4) B6) Aerial Concave	required.	Check all that Water MLRA Salt C Aquati Hydrog ✓ Oxidiz Presen Tilled Stunte (D1) (Stained LA 1,2,4A, rust (B11) c Invertel gen Sulfice of Ret Iron Rec Soils (C6 d or Street LRR A) (Explain ines) n/a	Leaves (B9) and 4B)) brates (B13 de Odor (C1 spheres (C3 duced Iron duction in b) ssed Plants in Remarks	except))) (C4)	Secondar W M D Si Si A ✓ G Si ✓ Fi R T Hydrology?	y Indicator /ater Stain /ILRA 1,2, rainage Pa ry-Season aturation Vaerial Image eomorphichallow Aqualor AC-Neutra aised Antirost-Heave	ed Leaves (B9) excep 4A, and 4B) atterns (B10) Water Table (C2) Visible on ery (C9) c Position (D2) uitard (D3) I Test (D5) Mounds (D6) (LRR A)

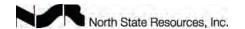
Oxidized rhizospheres indicate long duration saturation.



					Data Point		03
Wetland Determination Data Form-Western	n Mount	ains, Vall	leys, & C	Coast Region	Feature Type	Uplar	nd
Project/Site: Fountain Wind		City/County	Shasta C	County		Date:	8/15/18
Applicant/Owner: Avangrid				State: C/			_
nvestigator(s): Gabe Youngblood, Alison Loveless			_ Section	, Township, Range Se	ec. 36, T35N, F	R1E	
_andform (hillslope, terrace, etc.) Hillslope Subregion (LRR): MLRA 22B Lat: 40		_ Local relie	ef (concave	, convex, none) Conv	ex	Slope 6	_% 5
Subregion (LRR): MLRA 22B Lat: 40	.840437°		Long:_	-121.821010°	Datum	n: NA	D 83
Soil Map Unit Name: _Gasper-Scarface complex, moist,							
Are climatic/hydrologic conditions on the site typical for this til	me of year?	(If n	o, explain ii	n Remarks.)			
Are vegetation \(\sum{\subset} \subseteq soil \(\subseteq \subseteq \subseteq soil \)	-]		
Are vegetation \(\sum \subseteq \subseteq \subseteq \subseteq \lambda \) Are vegetation \(\subseteq \subseteq \subseteq \subseteq \lambda \) Are vegetation \(\subseteq \subseteq \subseteq \subseteq \lambda \) Are vegetation \(\subseteq \subseteq \l	-						
	•		· · · · · · · · · · · · · · · · · · ·	<u> </u>			
Summary of Findings (Attach site map showing sampli							
Hydrophytic vegetation? ☐ ☑Hydric soil?☐ ☑ Wetland	hydrology':		sampled are	ea a wetland? _\X	Other waters?		
Evaluation of features designated "Other Wate							
ndicators: Defined bed and bank Scour _	Ordin	ary High Wa	iter Mark M	apped Stream \	Vidth		
Feature Designation: Perennial Intermittent Ep Natural Drainage Artificial Drain	hemeral lage	Blue-lin Navigable V	e on USGS Mater	Quad Substra	ite		
Domarko		Travigable v		_			
Remarks _{Data} point documents uplands adjacent	to riparia	n wetland.					
Vegetation (Use Scientific Names)	Absolute	Dominant	Indicator	Dominance Test W	/orksheet		
ree Stratum (Plot Size: 30	% Cover	Species?		Number of dominan		4	
Salix scouleriana	10	Y	FAC	that are OBL, FACV Total number of dor			(A)
Pinus ponderosa	10	Y	FACU	across all strata:	ninani species	5	(B)
8				Percent of dominan		80	. ,
				are OBL, FACW, or	FAC:		(A/B)
50%= Total Cover:				Prevalence Index \	Norksheet		
Sapling/Shrub Stratum (Plot Size:)	% Cover	Species?		Total % Cover of:			
Salix scouleriana	40	Y	FAC	OBL Species _	x 1 =	0	
Alnus incana	10	N	FACW	FACW Species _	x 2 =	0	
Ribes roezlii (2)/ Ribes nevadense (2)	4	N	UPL/FAC	FAC Species _	x 3 =	0	_
Ceanothus integerrimus (2)/ Pseudotsuga menziesii(2)	4	N	UPL/FACU	FACU Species _	x 4 =	0	
50%= <u>27</u> 20%= <u>11.6</u> Total Cover:	58				x 5 =		
Herb Stratum (Plot Size: 5	% Cover	Species?	Status	Column Totals _			— (R)
Lysimachia latifolia	8	Y	FACW				(D)
Equisetum arvense	5	Y	FAC	Prevalence Index =	B/A =	_	
Juncus balticus	2	N	FACW	Hydrophytic Veget	ation Indicator	S	
Cynoglossum occidentale	2	N	UPL	Rapid Test fo		egetati	on
Stachys ajugoides	1	N	OBL	_ ✓ Dominance T	l est is >50% ndex is < 3.01		
Achillea millefolium	1	N	FACU	Morphologica		provide	supportir
Leucanthemum vulgare	1	N	FACU	data in Rema	arks or on a sep	arate sl	
3.					ı-Vascular Plant Hydrophytic Veç		1 (Evnlain)
50%=1020%=4 Total Cover:	20			¹ Indicators of hydric			
Noody/Vine Stratum (Plot Size:)	% Cover	Species?	Status	be present.		<i>J</i>	33
I				Hudrophytic Vocat	ation Drocont		1
2				Hydrophytic Veget	auon Present?	<u> </u>	1
50%= Total Cover:							
20%= 10tal Cover:		0					

\sim		1
\sim	ш	C
JU.	ш	

Depth	e scription : (Descr Matrix		Red	dox Features					
inches))-1	Color (moist)	<u>%</u> 100	<u>C</u>	olor (moist)	<u>%</u>	Type ¹	Loc ²	Texture P	Remarks Peat
I-12	7.5YR 3/4	100						GL	Gravelly loam
12-16	7.5YR 3/3	70	7.5YI	R 4/6	30			GCL	Gravelly clay loam
	1.6111 6/6			, 0		- —			Cravelly day loans
Гуреѕ:	C = Concentration D	= Depletion	- RM = F	Reduced Matrix		 ² Location: P	L = Pore Lir	ning M = Ma	ıtrix
ydric S	oil Indicators: (Ap	plicable to	all LRRs,	unless otherw	vise noted	d)		Indicator	s for Problematic Hydric Soil
-	Histosol (A1)			Sandy					cm Muck (A10)
	Histic Epipedon (A2	<u>'</u>)		Stripp		-			ed Parent Materials (TF21)
	Black Histic (A3)	,				Vineral (ex o	ept		ery Shallow Dark Surface (TF1:
	Hydrogen Sulfide (A	\4)		-	1) (F1)	,	•		egetated Sand/Gravel Bars
	Depleted Below Da	-	(A11)			Matrix (F2)			ther (Explain in Remarks)
	Thick Dark Surface		` ,	-	ted Matrix				, , , , , , , , , , , , , , , , , , , ,
	Sandy Mucky Mine					rface (F6)		³ Indicato	ors of hydrophytic vegetation an
	Sandy Gleyed Matr					Surface (F7)		hydrology must be present.
	, ,	,				sions (F8)	,		, 3, 1
Doctric	tive Layer (if prese	nt). Tuno:			D H. /	Inchae)	اللاط	de Cell Dece	ent? /X
1762016	live Layer (II prese	III). IYDC.							
Remar	ks dicators of hydric				Берт (Inches)	нуа	ric Soil Pres	ent. /X
Remar No ind Hydro Wetlar	ks dicators of hydric blogy d Indicators	c soils we	re obse	erved.			нуа		
No inc Hydro Wetlar Primar	ks dicators of hydric blogy d Indicators y Indicators (Minimu	c soils we	re obse	erved. I. Check all th	at apply.)			Secondar	y Indicators (2 or more required
Remar No inc Hydro Wetlar Primar	dicators of hydrical plogy and Indicators (Minimus Surface Water (A1)	c soils we	re obse	erved. I. Check all th Water	at apply.) Stained I	Leaves (B9)		Secondar	y Indicators (2 or more required Vater Stained Leaves (B9) exce
Remar No inc Hydro Wetlar Primar	dicators of hydrical or hydric	c soils we	re obse	erved. I. Check all th Water MLRA	at apply.) Stained I	Leaves (B9) and 4B)		Secondar W	y Indicators (2 or more required /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B)
Remar No inco Hydro Wetlar Primar	blogy Ind Indicators V Indicators (Minimus Surface Water (A1) High Water Table (A3)	c soils we	re obse	erved. I. Check all th Water MLRA Salt C	at apply.) Stained I A 1,2,4A, rust (B11	Leaves (B9) and 4B)) except	Secondar W MD	y Indicators (2 or more required later Stained Leaves (B9) exce ILRA 1,2,4A, and 4B) rainage Patterns (B10)
Remar No ind Hydro Wetlar Primar	dicators of hydrical plogy ad Indicators y Indicators (Minimus Surface Water (A1) High Water Table (A1) Saturation (A3) Water Marks (B1)	e soils we	re obse	I. Check all th Water MLRA Salt C	at apply.) Stained I A 1,2,4A, rust (B11) ic Inverte	Leaves (B9) and 4B)) brates (B13) except	<u>Secondar</u> W D D	y Indicators (2 or more required /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2)
Remar No inco Hydro Wetlan Primar	dicators of hydrical plogy and Indicators A Indicators (Minimulation (Minimulation)) Surface Water (A1) High Water Table (A3) Water Marks (B1) Sediment Deposits	e soils we	re obse	erved. I. Check all th Water MLR/ Salt C Aquat Hydro	at apply.) Stained I A 1,2,4A, rust (B11 ic Invertel gen Sulfic	Leaves (B9) and 4B)) brates (B13 de Odor (C7	except	Secondar W D D D	y Indicators (2 or more required /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on
Remar No ind Hydro Wetlar Primar	dicators of hydrical plogy ad Indicators y Indicators (Minimus) Surface Water (A1) High Water Table (A) Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3)	e soils we am of one is A2)	re obse	erved. Check all th Water MLR/ Salt C Aquat Hydro Oxidiz	at apply.) Stained I A 1,2,4A, rust (B11) ic Invertel gen Sulfic	Leaves (B9) and 4B)) brates (B13 de Odor (C7 spheres (C3) except	Secondar W D D S	y Indicators (2 or more required /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9)
Remar No ind Hydro Wetlar Primar	dicators of hydrical plogy ad Indicators y Indicators (Minimus Surface Water (A1) High Water Table (A) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust (e soils we am of one is A2)	re obse	I. Check all th Water MLRA Salt C Aquat Hydro Oxidiz Prese	at apply.) Stained I A 1,2,4A, rust (B11 ic Invertel gen Sulfic red Rhizo nce of Re	Leaves (B9) and 4B)) brates (B13 de Odor (C7) except	Secondar W D D D S G	y Indicators (2 or more required /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on
Remar No ind Hydro Wetlan Primary	dicators of hydrical plogy ad Indicators y Indicators (Minimus) Surface Water (A1) High Water Table (A) Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3)	e soils we am of one is (B2)	re obse	erved. I. Check all th Water MLR/ Salt C Aquat Hydro Oxidiz Prese Recer	at apply.) Stained I A 1,2,4A, rust (B11 ic Invertel gen Sulfic red Rhizo nce of Re at Iron Re	Leaves (B9) and 4B)) brates (B13 de Odor (C7 spheres (C: educed Iron duction in) except	Secondar W D D S G S	y Indicators (2 or more required /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3)
Remar No ind Hydro Wetlar Primar	dicators of hydrical plogy and Indicators A Indicators (Minimulators (Mi	e soils we am of one is A2) (B2) (B4)	re obse	erved. I. Check all th Water MLR/ Salt C Aquat Hydro Oxidiz Prese Recer Tilled	at apply.) Stained I A 1,2,4A, rust (B11) ic Invertel gen Sulfic red Rhizo nce of Re at Iron Re Soils (C6	Leaves (B9) and 4B)) brates (B13 de Odor (C7 spheres (C: educed Iron duction in) except))))) (C4)	Secondar —— W M —— D —— S —— G —— S —— F	y Indicators (2 or more required /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2)
Remar No ind Hydro Wetlar Primar	dicators of hydrical plogy ad Indicators y Indicators (Minimus Surface Water (A1) High Water Table (A1) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust (Iron Deposits (B5) Surface Soil Cracks	e soils we am of one is A2) (B2) (B4)	re obse	I. Check all the Water MLRA Salt C Aquat Hydro Oxidiz Prese Recer Tilled Stunte	at apply.) Stained I A 1,2,4A, rust (B11) ic Invertel gen Sulfic red Rhizo nce of Re at Iron Re Soils (C6	Leaves (B9) and 4B)) brates (B13 de Odor (C7 spheres (C3 educed Iron duction in) except))))) (C4)	Secondar — W _ D _ D _ S _ G _ S _ F _ R	y Indicators (2 or more required /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5)
Remar No ind Hydro Wetlan Primar	dicators of hydrical cology Indicators (Minimum Cology) Indicators (Minimum Cology) Surface Water (A1) High Water Table (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (Iron Deposits (B5) Surface Soil Cracks Inundation Visible of	e soils we mof one is A2) (B2) B4) (B6) n Aerial	re obse	erved. I. Check all th Water MLR/ Salt C Aquat Hydro Oxidiz Prese Recer Tilled Stunte (D1) (at apply.) Stained I A 1,2,4A, rust (B11) ic Invertel gen Sulficed Rhizo nce of Re nt Iron Re Soils (C6 ed or Stree (LRR A)	Leaves (B9) and 4B)) brates (B13 de Odor (C7 spheres (C3 educed Iron duction in) except) (C4)	Secondar — W _ D _ D _ S _ G _ S _ F _ R	y Indicators (2 or more required /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A
Remar No ind Hydro Wetlar Primar	dicators of hydrical colors of hydrical colors of hydrical colors of lindicators of lindicators of lindicators (Minimus Surface Water (A1) High Water Table (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (Iron Deposits (B5) Surface Soil Cracks (Inundation Visible of lindicators of lindicat	e soils we mof one is A2) (B2) B4) (B6) n Aerial	re obse	erved. I. Check all th Water MLR/ Salt C Aquat Hydro Oxidiz Prese Recer Tilled Stunte (D1) (at apply.) Stained I A 1,2,4A, rust (B11) ic Invertel gen Sulficed Rhizo nce of Re nt Iron Re Soils (C6 ed or Stree (LRR A)	Leaves (B9) and 4B)) brates (B13 de Odor (C7 spheres (C3 educed Iron duction in s) ssed Plants) except) (C4)	Secondar — W _ D _ D _ S _ G _ S _ F _ R	y Indicators (2 or more required /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A
Remar No ind Hydro Wetlan Primar	dicators of hydrical plogy ad Indicators y Indicators (Minimus Surface Water (A1) High Water Table (ASaturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B1) Brundation Visible of Imagery (B7) Sparsely Vegetated	e soils we mof one is A2) (B2) B4) (B6) n Aerial	re obse	erved. I. Check all th Water MLR/ Salt C Aquat Hydro Oxidiz Prese Recer Tilled Stunte (D1) (at apply.) Stained I A 1,2,4A, rust (B11) ic Invertel gen Sulfic ed Rhizo nce of Re nt Iron Re Soils (C6 ed or Stree (LRR A) (Explain i	Leaves (B9) and 4B)) brates (B13 de Odor (C7 spheres (C3 educed Iron duction in s) ssed Plants) except)) (C4)	Secondar WDSGSF	y Indicators (2 or more required /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR Arost-Heave Hummocks (D7)
Remar No inco Hydro Wetlar Primary	dicators of hydrical cology Indicators (Minimum Cology) Indicators (Minimum Cology) Surface Water (A1) High Water Table (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (Indicators (B5) Surface Soil Cracks (Inundation Visible of Imagery (B7) Sparsely Vegetated (B8) Observations Water Present?	E soils we soil we soil with the soil we soil with the soil we soil we soil with the so	re obse	I. Check all the Water MLR/ Salt C Aquat Hydro Oxidiz Prese Recer Tilled Stunte (D1) (Cother	at apply.) Stained I A 1,2,4A, rust (B11 ic Invertel gen Sulfic red Rhizo nce of Re at Iron Re Soils (Ca ed or Stre (LRR A) (Explain i	Leaves (B9) and 4B)) brates (B13 de Odor (C7 spheres (C3 educed Iron duction in s) ssed Plants) except)) (C4)	Secondar — W _ D _ D _ S _ G _ S _ F _ R	y Indicators (2 or more required /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A
Remar No inco Hydro Wetlan Primary	dicators of hydrical cology Indicators (Minimum Cology) Indicators (Minimum Cology) Surface Water (A1) High Water Table (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (Indicators (B5) Surface Soil Cracks (Inundation Visible of Imagery (B7) Sparsely Vegetated (B8) Observations Water Present?	c soils we man of one is the solution of the s	re obse	erved. I. Check all th Water MLR/ Salt C Aquat Hydro Oxidiz Prese Recer Tilled Stunte (D1) (at apply.) Stained I A 1,2,4A, rust (B11 ic Invertel gen Sulfic red Rhizo nce of Re at Iron Re Soils (C6 ed or Stree (LRR A) (Explain in thes) n/a thes) n/a	Leaves (B9) and 4B)) brates (B13 de Odor (C7 spheres (C3 educed Iron duction in s) ssed Plants in Remarks) except)) (C4)	Secondar W M D D S G S F R T Hydrology?	y Indicators (2 or more required /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR Arost-Heave Hummocks (D7)

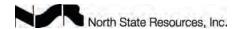


				Data Point64	
Wetland Determination Data Form-Westerr	า Mounta	ains, Vall	eys, & C	Coast Region Feature Type Vegetated diff	tch
Project/Site: Fountain Wind		City/County	Shasta C	County Date: 8/30/1	8
Applicant/Owner: Avangrid		,		State: CA	
Caba Vaunghland Alican Lavalaga			Section.	Coo OF TOEN DAT	
Landform (hillslope, terrace, etc.) Drainage ditch		Local relie	ef (concave.	convex, none) Concave Slope % 2	
Landform (hillslope, terrace, etc.) Drainage ditch Subregion (LRR): MLRA 22B Lat: 40.	.865026°	_	Lona:	-121.821162° Datum: NAD 83	_
Soil Map Unit Name: _Goulder gravelly sandy loam, 15 to	30 percei	nt slopes		VI Classification: N/A	
Are climatic/hydrologic conditions on the site typical for this tir					
Are vegetation Nasoil Nasoil National Are vegetation Nasoil Nasoil Nasoil National Are vegetation Nasoil Na	-				
Are vegetation \(\sum \text{\Soil \(\sup \) \(\text{Dor hydrology} \) \(\text{\text{\Soil attracts}} \)	,			•	
	-				
Summary of Findings (Attach site map showing sampli	• .				
Hydrophytic vegetation? Hydric soil? Wetland	hydrology?		ampled are	a a wetland? \✓NOther waters? ✓/_	
Evaluation of features designated "Other Water					
Indicators: Defined bed and bank Scour Scour	Ordin	ary High Wa	ter Mark Ma	apped Stream Width 2	_
Feature Designation: Perennial Intermittent Ep Natural Drainage Artificial Drain	nemeral age	Blue-line Navigable V	e on USGS Vater	Quad Substrate vegetated	
				•	
Remarks Data point documents a vegetated ditch.	•				
Vegetation (Use Scientific Names)	Absolute	Dominant		Dominance Test Worksheet	
Tree Stratum (Plot Size:)	% Cover	Species?	Status	Number of dominant species that are OBL, FACW, or FAC: 5 (A)	
1				Total number of dominant species	
2				across all strata:5 (B)	
3				Percent of dominant species that are OBL, FACW, or FAC: 100 (A/B)	
4 50%= Total Cover:				die GBE, Friew, GFFrie.	
Sapling/Shrub Stratum (Plot Size:)	% Cover	Species?	Status	Prevalence Index Worksheet	
1				Total % Cover of: Multiply by OBL Species x 1 =0	
2				FACW Species x 2 =0	
4.				FAC Species x 3 =0	
50%= Z0%= Total Cover:	0			FACU Species x 4 =0	
Herb Stratum (Plot Size: 5 ft)	% Cover	Species?	Status	UPL Species x 5 =0	
1. Carex amplifolia	60	Y	OBL	Column Totals 0 (A) 0 (B)	
2. Carex sp.	5	N	FAC	Prevalence Index = B/A =	
3. Holcus lanatus	5	N	FAC	Hydrophytic Vegetation Indicators	
4. Deschampsia cespitosa	5	N	FACW	Rapid Test for Hydrophytic Vegetation	
5. Rumex occidentalis	3	N	OBL	Dominance Test is >50% Prevalence Index is ≤ 3.01	
6. Galium trifidum	1	N	FACW	Morphological Adaptations ¹ (provide support	ting
7. Veronica americana	1	N	OBL	data in Remarks or on a separate sheet)	Ü
8.				 Wetland Non-Vascular Plants¹ Problematic Hydrophytic Vegetation¹ (Explain 	in)
50%=40 20%=16 Total Cover:				¹ Indicators of hydric soil and wetland hydrology mu	
Woody/Vine Stratum (Plot Size:)		Species?	Status	be present.	
1				Hydrophytic Vegetation Present?	
2				,, ,,,,,,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,	
50%=					
% Bare Ground in Herb Stratum 20 % Cover of Bio	tic Crust _	0			

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Depth Matrix <u>nches</u>) <u>Color (moist)</u>	%	Redox Features Color (moist)	<u>%</u> Ty	pe ¹ Lo	oc ²	<u>Texture</u>	Remarks
-12 7.5YR 2.5/2	100					GCL	Gravely clay loam
ypes: C = Concentration D =	Depletion R	RM = Reduced Matrix	² Locati	on: PL = Pc	re Lin	ing M = Ma	trix
/dric Soil Indicators: (Appli	cable to all L	RRs, unless otherwi					s for Problematic Hydric Soils ³
Histosol (A1)		Sandy					cm Muck (A10)
Histic Epipedon (A2)			d Matrix (S6)			R	ed Parent Materials (TF21)
Black Histic (A3)		Loamy	Mucky Minera	l (except		Ve	ery Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)		MLRA	1) (F1)			Ve	egetated Sand/Gravel Bars
Depleted Below Dark	Surface (A1	1) Loamy	Gleyed Matrix	(F2)		<u> </u>	ther (Explain in Remarks)
Thick Dark Surface (A	12)	Deplete	ed Matrix (F3)				
Sandy Mucky Mineral	(S1)	Redox	Dark Surface ((F6)		³ Indicato	rs of hydrophytic vegetation and
Sandy Gleyed Matrix ((S4)	•	ed Dark Surfac			wetland I	hydrology must be present.
		Redox	Depressions (I	F8)			
	. Tumo:		Depth (Inches	.\	Lluda	ic Soil Pres	ont? /
Restrictive Laver (if nresent)	. rypc		Deptil (illelies	9/	TTYUI	10 3011 103	CHI:
Remarks Soils were inundated du		ey. Considered H	ydric as they	/ support	dom	ninate obli	gate plants and wetland hyd
Remarks Soils were inundated du Hydrology Wetland Indicators	iring surve			/ support	dom		gate plants and wetland hyd
Remarks Soils were inundated du Hydrology Wetland Indicators Primary Indicators (Minimum	iring surve	quired. Check all tha	it apply.)			Secondar	y Indicators (2 or more required)
Remarks Soils were inundated du Hydrology Wetland Indicators Primary Indicators (Minimum Surface Water (A1)	of one is red	quired. Check all tha	t apply.) Stained Leaves	s (B9) exce		Secondar	y Indicators (2 or more required) 'ater Stained Leaves (B9) except
Remarks Soils were inundated du Hydrology Wetland Indicators Primary Indicators (Minimum Surface Water (A1) High Water Table (A2)	of one is red	quired. Check all tha Water: MLRA	t apply.) Stained Leaves 1,2,4A, and 4	s (B9) exce		Secondar W	y Indicators (2 or more required) Vater Stained Leaves (B9) except ILRA 1,2,4A, and 4B)
Remarks Soils were inundated du Hydrology Wetland Indicators Primary Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3)	of one is red	quired. Check all tha Water : MLRA Salt Cr	t apply.) Stained Leaves 1,2,4A, and 4 ust (B11)	s (B9) exce B)		Secondar W D	y Indicators (2 or more required) 'ater Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10)
Remarks Soils were inundated du Hydrology Wetland Indicators Primary Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	of one is red	quired. Check all that Water to MLRA Salt Cr Aquatic	t apply.) Stained Leaves 1,2,4A, and 4 ust (B11) c Invertebrates	s (B9) exce B)		<u>Secondar</u> W Di	y Indicators (2 or more required) Vater Stained Leaves (B9) except ILRA 1,2,4A, and 4B)
Remarks Soils were inundated du Hydrology Wetland Indicators Primary Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3)	of one is red	quired. Check all that Water: MLRA Salt Cr Aquatic	t apply.) Stained Leaves 1,2,4A, and 4 ust (B11)	s (B9) exce B) (B13) or (C1)		Secondar W M Di Si	y Indicators (2 or more required) /ater Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2)
Remarks Soils were inundated du Hydrology Wetland Indicators Primary Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B.	of one is red	quired. Check all that Water S MLRA Salt Cr Aquatic Hydrog Oxidize	t apply.) Stained Leaves 1,2,4A, and 4 ust (B11) Invertebrates en Sulfide Odd	(B13) or (C1) es (C3)		Secondar W N Di Control Secondar	y Indicators (2 or more required) Yater Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on
Remarks Soils were inundated du Hydrology Wetland Indicators Primary Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3)	of one is red	quired. Check all that Water: MLRA Salt Cr Aquatic Hydrog Oxidize Presen	st apply.) Stained Leaves 1,2,4A, and 4 ust (B11) Invertebrates Jen Sulfide Odd Rhizosphere	s (B9) exce B) (B13) or (C1) es (C3)		Secondar W M Di Si A C	y Indicators (2 or more required) l'ater Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9)
Remarks Soils were inundated du Hydrology Wetland Indicators Primary Indicators (Minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B3) Algal Mat or Crust (B4)	of one is rec	quired. Check all that Water: MLRA Salt Cr Aquatic Hydrog Oxidize Presen Recent	st apply.) Stained Leaves 1,2,4A, and 4 ust (B11) Invertebrates an Sulfide Odd ad Rhizosphere ce of Reduced	s (B9) exce B) (B13) or (C1) es (C3)		Secondar W Di Si G SI	y Indicators (2 or more required) Vater Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2)
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Surface water provides wetland hydrology.



						Data Point		65
Wetland Determination Data For	n-Westerr	n Mounta	ains, Vall	leys, & C	coast Region	Feature Type	Uplan	ıd
Project/Site: Fountain Wind			City/County	Shasta C	ounty		Date:	8/30/18
Applicant/Owner: Avangrid					State: C	CA		
Investigator(s): Gabe Youngblood, Alison	_oveless			_ Section,	Township, Range S	Sec. 25, T35N, I	R1E	
Landform (hillslope, terrace, etc.) Drainage Subregion (LRR): MLRA 22B			_ Local relie	ef (concave,	convex, none) Con	vex	Slope 9	_% 5
Subregion (LRR): MLRA 22B	Lat:40	.865027°		Long:_	-121.821220°	Datun	n: <u>NA</u>	D 83
Soil Map Unit Name: Goulder gravelly sand	ly loam, 15 to	30 percei	nt slopes	NV	VI Classification: N/A	\		
Are climatic/hydrologic conditions on the site ty	pical for this tir	me of year?	√/ (If n	o, explain ir	n Remarks.)			
Are vegetation □/⊠soil □/⊠or hydrology	□/⊠significar	ntly disturbe	d? Are norr	nal circumst	ances present?			
Are vegetation <mark>/</mark> ⊠soil ✓/ or hydrology	_/⊠haturally	problemation	c? <i>(If neede</i>	ed, explain i	n Remarks.)			
Summary of Findings (Attach site map s	howing sampli	na noint loc	ations trans	acts impor	ant features etc.)			
Hydrophytic vegetation? 🗸 🗌 Hydric soil? 🗸						hther waters 2 7	7/	
					a a welland:	pilici waicis:	<i>-</i>	
Evaluation of features designated "	Other Wate	rs of the	United St	ates"		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
Indicators: Defined bed and bank _ Feature Designation: Perennial Intermi	<u>▼</u> Scour_ ttent ▼ Fn	Ordin hemeral	ary Hign wa Blue-lin	iter Mark Ma e on USGS	apped <u>▼</u> Stream Ouad Substi	Width rate Vegetated		
Feature Designation: Perennial Intermi Natural Drainage	Artificial Drain	age	Navigable V	Vater				
Remarks Upland pair to DP64 which o	looumonto o	vogototo	d ditab					
Opiand pair to DP64 which t	ocuments a	vegetate	ea allen.					
Variation (Has Colontific Names)		A1 1 1	D ' 1	1 1 1				
Vegetation (Use Scientific Names) Free Stratum (Plot Size:)		Absolute % Cover	Dominant Species?		Dominance Test Number of domina			
·				Status	that are OBL, FAC		1	(A)
					Total number of do		1	
)					across all strata: Percent of domina	nt species that		(B)
1.					are OBL, FACW, o		100	(A/B)
50%=		_			Duning language	Manlanka at		
Sapling/Shrub Stratum (Plot Size:		% Cover	Species?	Status	Prevalence Index Total % Cover of:)V	
1				·		x 1 =	0	
2.					FACW Species		0	_
3						x 3 =		
4					FACU Species			
50%=	Total Cover:	0				x 5 =		_
Herb Stratum (Plot Size: 5		% Cover	Species?	Status	*			— (D)
Festuca arundinacea		60	Y	FAC				(D)
Poa pratensis		5	N	FAC_	Prevalence Index :	= B/A =	_	
Juncus sp.		5	N	FAC	Hydrophytic Vege			
l			N			for Hydrophytic \	egetation	on
5			N		Dominance Prevalence			
)			N		Morphologic	cal Adaptations ¹		
7			N			narks or on a sep		neet)
3					Wetland No Problemation			¹ (Explain)
50%=4020%=16					¹ Indicators of hydri			
Woody/Vine Stratum (Plot Size:)	% Cover	Species?	Status	be present.			
1			•		Hydrophytic Vege	etation Present?		1
2					,			•
50%=	Total Cover:							
% Bare Ground in Herb Stratum 30 %			0					

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Depth	escription: (De Matrix			Redox Feature	S				
inches))-12	Color (mo 7.5YR 2.5/3		<u>%</u> 00	Color (moist)	<u>%</u> 	<u>Type¹</u>	Loc ²	Texture GCL	Remarks Gravelly clay loam
				RM = Reduced Mati		² Location: PL	. = Pore Lin		
•		(Applicab	e to all	LRRs, unless othe					s for Problematic Hydric Soil
	Histosol (A1)				dy Redox (•			cm Muck (A10)
	Histic Epipedon (ped Matrix				ed Parent Materials (TF21)
	Black Histic (A3)				, ,	Mineral (exc	ept		ery Shallow Dark Surface (TF1)
	Hydrogen Sulfide				RA 1) (F1)				egetated Sand/Gravel Bars
	Depleted Below		ace (A1	•	, ,	Matrix (F2)		0	ther (Explain in Remarks)
	Thick Dark Surfa				leted Matrix			2	
	Sandy Mucky Mi)		ox Dark Su				ors of hydrophytic vegetation an
	Sandy Gleyed M	atrix (S4)				Surface (F7)		wetland I	hydrology must be present.
				Rec	ox Depress	sions (F8)			
Restric	tive Layer (if pre	esent): Ty	/pe:		Depth (Inches)	Hydi	ric Soil Pres	ent? ✓ /
					_ ' ' '				
No inc	dicators of hyd	dric soil	·						
Hydro Wetlan	dicators of hydology d Indicators		were c	bserved.					
No incomplete Hydro Wetlan Primary	ology Indicators (Mini	imum of c	were c	observed. quired. Check all	that apply.)			Secondar	y Indicators (2 or more required
Hydro Wetlan	blogy d Indicators / Indicators (Mini	imum of c	were c	observed. quired. Check all Wa	that apply.)	Leaves (B9)		Secondar	y Indicators (2 or more required Vater Stained Leaves (B9) exce
Hydro Wetlan Primary	blogy d Indicators / Indicators (Mini Surface Water (A	imum of c	were c	observed. quired. Check all Wa ML	that apply.) er Stained RA 1,2,4A,	Leaves (B9) and 4B)		Secondar W M	y Indicators (2 or more required ater Stained Leaves (B9) exce ILRA 1,2,4A, and 4B)
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Hydro Wetlan Primary	blogy d Indicators y Indicators (Mini Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Depos Drift Deposits (B: Algal Mat or Crus Iron Deposits (B: Surface Soil Crac Inundation Visibl Imagery (B7) Sparsely Vegeta	imum of co A1) e (A2) its (B2) 3) st (B4) 5) cks (B6) e on Aeria	were conneis re	quired. Check all Wa ML Salt Oxi Pre Rec Till Stut	that apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte rogen Sulfidized Rhizo sence of Re ent Iron Re ed Soils (Conted or Stre) (LRR A) er (Explain	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) educed Iron (eduction in 6) sssed Plants	except)) (C4)	Secondar	y Indicators (2 or more required /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A
No inco	blogy d Indicators / Indicators (Mini Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Depos Drift Deposits (B: Algal Mat or Crus Iron Deposits (B: Surface Soil Crae Inundation Visibl Imagery (B7) Sparsely Vegeta Surface (B8)	imum of co A1) e (A2) its (B2) 3) st (B4) 5) cks (B6) e on Aeria	were conne is re	quired. Check all —— Wa ML —— Salt —— Aqu —— Hyc —— Oxi —— Pre —— Rec —— Till —— Stur —— Oth —— Oth	that apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte rogen Sulfidized Rhizo sence of Re ent Iron Re ed Soils (Co ated or Stre) (LRR A) er (Explain	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) educed Iron (eduction in 6) sssed Plants	except)) (C4)	Secondar —— W M —— Di —— Si —— G —— G —— F/ —— F/	y Indicators (2 or more required /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A
No inco Hydro Wetlan Primary	blogy d Indicators y Indicators (Mini Surface Water (A High Water Table Saturation (A3) Water Marks (B1 Sediment Depos Drift Deposits (B1 Rogal Mat or Crus Iron Deposits (B2 Surface Soil Crac Inundation Visibl Imagery (B7) Sparsely Vegeta Surface (B8) Observations	imum of co A1) e (A2) its (B2) 3) st (B4) 5) cks (B6) e on Aeria	me is re	quired. Check all —— Wa ML —— Sali —— Aqu —— Hyc —— Oxi —— Pre —— Rec —— Stui —— Oth —— Oth —— Depth (i	that apply.) er Stained RA 1,2,4A, Crust (B11 atic Inverte rogen Sulfidized Rhizo sence of Re ent Iron Re ed Soils (Conted or Stre) (LRR A) er (Explain	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) educed Iron (eduction in 6) sssed Plants	except)) (C4)	Secondar	y Indicators (2 or more required /ater Stained Leaves (B9) exce /ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on verial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A

No indicators of wetland hydrology were observed.



Second Properties Pountain Wind ChycCounty Shasta County Shasta Co						Data Point		66
Space Applicant Owner Avangrid State: CA Interestigator(s): Gabe Youngshoot, Allson Loveless Section, Township, Range Sec. 30, 735N, R2E	Wetland Determination Data Form-Western	n Mounta	ains, Vall	leys, & C	Coast Region	Feature Type	Seas	onal wetland
ApplicantOwner_ Avangrid State: CA Investigator(s): Gabe Youngshoot, Allson Loveless Section, Township, Range Sec. 30, T35N, R2E Landform (nillstope, terrace, etc.) Hillsdopa Lot: 40.855492" Long: 1-21.796821" Datum: NAD 83 Subragion (IRR): MLRA 228 Lat: 40.855492" Long: 1-21.796821" Datum: NAD 83 Subragion (IRR): MLRA 228 Lat: 40.855492" Long: 1-21.796821" Datum: NAD 83 NAD 84 NAD 84 NAD 84 NAD 84 NAD 85 NAD 84 NAD 85	Project/Site. Fountain Wind		City/County	. Shasta (County		Date.	8/30/18
Investigator(s): Gabe Youngblood, Alison Loveless Scalin, Township, Range Sec. 30, T35N, RZE			Oityroodinty	•	State: C	Α	Duto.	
Landform (nillstope, terrace, etc.) Hillislope Lat: 40.855492* Lat: 40.855492* Long: 121.798321* Datum: NAD 83 Subregion (IRR)* MERA 22B Lat: 40.855492* Long: 121.798321* Datum: NAD 83 Soli Map Unit Name; Stuked complex, 15 to 30 percent slopes NWI Classification.* NA Are climatic hydrologic conditions on the site typical for this time of year?	Gabe Youngblood Alison Loveless			Section	T S	ec 30 T35N F	R2E	-
Sol Map Unit Name: Stute! complex, 15 to 30 percent slopes MWI Classification: M/A	Landform (hillslope, terrace, etc.) Hillslope		L ocal relie	ef (concave	convex none) Conv	/ex	Slope 6	_% 15
Sol Map Unit Name: Stute! complex, 15 to 30 percent slopes MWI Classification: M/A	Subregion (LRR): MLRA 22B	.855492°		Long.	-121.796321°	 Datur	n. NA	ND 83
Are vegetation Soul Sor hydrology Sampling point locations, transects, important features, etc.) Hydrophytic vegetation? Hydrology Hydrology Sampling point locations, transects, important features, etc.) Hydrophytic vegetation? Hydrology Hydrology Hydrology Sampling point locations, transects, important features, etc.) Hydrophytic vegetation? Soult Hydrology Hydrology Hydrology Sampling point locations, transects, important features, etc.) Hydrophytic vegetation? Soult Hydrology Hydrolog	Soil Map Unit Name: Stukel complex, 15 to 30 percent s	slopes		201191_ NV	VI Classification: N/A	Datan		
Are vegetation Soul Sor hydrology Sampling point locations, transects, important features, etc.) Hydrophytic vegetation? Hydrology Hydrology Sampling point locations, transects, important features, etc.) Hydrophytic vegetation? Hydrology Hydrology Hydrology Sampling point locations, transects, important features, etc.) Hydrophytic vegetation? Soult Hydrology Hydrology Hydrology Sampling point locations, transects, important features, etc.) Hydrophytic vegetation? Soult Hydrology Hydrolog	Are climatic/hydrologic conditions on the site typical for this ti	me of year?	(If n	o, explain ii	n Remarks.)			
Are vegetation	·_ · _ · _ · · · · · · · · · · · · · ·]		
Summary of Findings (Attach site map showing sampling point locations, transects, important features, etc.) Hydrophytic vegetation?		-				_		
Hydrophytic vegetation? Hydric soil? Wetland hydrology S is sampled area a wetland? Hydric waters? Evaluation of features designated "Other Waters of the United States" Defined bed and bank Scour Ordinary High Water Mark Mapped Stream Width Variable Feature Designation: Percential High Water Mark Mapped Stream Width Variable Feature Designation: Percential High Water Mark Mapped Stream Width Variable Feature Designation: Percential High Water Hydrophytic Vegetation Substrate Su		-		-				
Evaluation of features designated "Other Waters of the United States" Indicators: Defined bed and bank		• .				hther waters?	V	
Indicators:				-	a a welland.	pulici waters.	نعاد	
Feature Designation: Perennial Natural Drainage Antificial Drainage Natural Prainage Natura	Evaluation of features designated "Other Water	ers of the	United St	ates"	annod V Stroom	width Variable		
Remarks Data point documents a seasonal wetland on a hillslope with shallow soils over bedrock. Vegetation (Use Scientific Names) Absolute Species? Status Number of dominant species Number of dominant spec	Feature Designation: Perennial Intermittent	Ordin ohemeral	Blue-lin	e on USGS	appeu <u> </u>	ate Vegetated		
Vegetation (Use Scientific Names) Absolute Dominant Indicator Species? Status Number of dominant species Status Success Status	Natural Drainage Artificial Drain	nage	Navigable V	Vater	-			
Vegetation (Use Scientific Names) Absolute Dominant Indicator Species? Status Number of dominant species Status Success Status	Remarks Data point documents a seasonal watland	nd on a hi	llelopo witl	h challow	soils over bodrock	,		
Tree Stratum (Plot Size:	Data point documents a seasonal wettal	nu on a m	lisiope with	ii Siiaiiow	Soils over bedrock	λ.		
Tree Stratum (Plot Size:								
Tree Stratum (Plot Size:	Variation (Has Caiontific Names)	A1 1 1	D ! !	1 12 1				
1								
Total number of dominant species 2 (B)							2	(A)
3					Total number of do			
4						 at enocioe that		_ (B)
Total Cover Species Status							100	(A/B)
Sapling/Shrub Stratum (Plot Size:) % Cover Species? Status Total % Cover of: Total % Cover		_						. ,
1			Species?	Status			w	
2							_ ^	
3					· ·			
4					1			
Total Cover					· ·			
Herb Stratum (Plot Size: 5		0						
1. Triteleia hyacinthina 20 Y FAC 2. Navarretia intertexta 3. Mimulus guttatus 4. Perideridia sp. 5. Brodiaea sp. 6. Juncus sp. (dwarf sp.) 7. Epilobium campestre 8. 2 N UNK 7. Epilobium campestre 9. Total Cover: 51 Woody/Vine Stratum (Plot Size:) 50%= 20%= Total Cover: 0 Total Cover: 0 Y FAC Prevalence Index = B/A = Hydrophytic Vegetation Indicators — Rapid Test for Hydrophytic Vegetation — Rapid Test for Hydrophytic Vegetation — Dominance Test is >50% — Prevalence Index = B/A = Hydrophytic Vegetation Indicators — Rapid Test for Hydrophytic Vegetation — Dominance Test is >50% — Prevalence Index = B/A = Hydrophytic Vegetation Indicators — Rapid Test for Hydrophytic Vegetation — Nomphological Adaptations¹ (provide supporting data in Remarks or on a separate sheet) — Wetland Non-Vascular Plants¹ — Problematic Hydrophytic Vegetation¹ (Explain) † Indicators of hydric soil and wetland hydrology must be present. Hydrophytic Vegetation Present? ✓/ □			Snacias?	Status				
Navarretia intertexta 18 Y FACW Navarretia intertexta 18 Y FACW NoBL Perideridia sp. Brodiaea sp. Juncus sp. (dwarf sp.) Epilobium campestre 1 N OBL Nobles	Triteleia hyacinthina		•		Column Totals .	(A)		(B)
Mimulus guttatus 5 N OBL Perideridia sp. 3 N UNK 5 Brodiaea sp. 2 N UNK 2 N UNK Prevalence Index is ≤ 3.01 Morphological Adaptations¹ (provide supporting data in Remarks or on a separate sheet) Wetland Non-Vascular Plants¹ Problematic Hydrophytic Vegetation¹ (Explain) 1 Indicators of hydric soil and wetland hydrology must be present. Hydrophytic Vegetation Indicators Rapid Test for Hydrophytic Vegetation Morphological Cover Species N UNK Morphological Adaptations¹ (provide supporting data in Remarks or on a separate sheet) Wetland Non-Vascular Plants¹ Problematic Hydrophytic Vegetation¹ (Explain) Indicators of hydric soil and wetland hydrology must be present. Hydrophytic Vegetation Present?		18	Υ		Prevalence Index =	= B/A =	_	
4. Perideridia sp. 5. Brodiaea sp. 6. Juncus sp. (dwarf sp.) 7. Epilobium campestre 8		5			Hydrophytic Vogo	tation Indicator	c	
5. Brodiaea sp. 6. Juncus sp. (dwarf sp.) 7. Epilobium campestre 8	Perideridia en	3						on
6. Juncus sp. (dwarf sp.) 7. Epilobium campestre 8	Described and the second secon	2			_ ✓ Dominance	Test is >50%	0	
7. Epilobium campestre 1 N OBL 8. Substituting Total Cover: 51 Substituting Total Cover: 52 Substituting Total Cover: 54 Substituting Total Cover: 55 Substitutin		2					nrovida	sunnortina
8	- Enilohium campestre	1						
50%=15					Wetland No	n-Vascular Plant	S ¹	,
Woody/Vine Stratum (Plot Size:) % Cover Species? Status be present. 1 Hydrophytic Vegetation Present? ✓/□ 2								
1			Snecies?	Status		o son and wonan	a nyaro	nogy must
2	-		•		Hudrophytic Vers	tation Dracarta		1
50%=					nyuropnyuc vege	tation Present?	L Y _/	1
% Bare Ground in Herb Stratum 49 % Cover of Biotic Crust 0			0					

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\mathbf{r}	\ I	C
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Profile D Depth	escription: (Describ Matrix		needed to docume Redox Features	ent the inc	licator or co	onfirm the a	absence of ir	ndicators.
(<u>inches</u>)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	Remarks
0-4	10YR 2/1	100					MS	Mucky sand
		·						
		·						
¹ Types: (C = Concentration D =	Depletion RM	I = Reduced Matrix	2	Location: PL	_ = Pore Lir	ning M = Ma	trix
•	oil Indicators: (Appl	icable to all LR						s for Problematic Hydric Soils ³
	Histosol (A1)		•	Redox (S	-			cm Muck (A10)
	Histic Epipedon (A2)			ed Matrix		_		ed Parent Materials (TF21)
	Black Histic (A3)	`	,	•	lineral (exc	ept		ery Shallow Dark Surface (TF12)
	Hydrogen Sulfide (A4	•		1) (F1)	1-t-1 (EQ)			egetated Sand/Gravel Bars
	Depleted Below Dark Thick Dark Surface (<i>F</i>			ed Matrix	Matrix (F2)			ther (Explain in Remarks)
	Sandy Mucky Minera	*	•		face (F6)		3Indicato	rs of hydrophytic vegetation and
	Sandy Macky Millera Sandy Gleyed Matrix				Surface (F7)	١		nydrology must be present.
`	Salidy Gleyed Matrix	(34)	•	Depressi		'	Welland	rydrology must be present.
					(* 5)			
Restrict	tive Layer (if present): Type: <u>Bedr</u>	ock	Depth (I	nches) <u>4</u>	Hyd	ric Soil Prese	ent? ✓ /
Hydro Wetlan	ematic shallow so blogy d Indicators y Indicators (Minimum				ateu anu s	вирропъ		y Indicators (2 or more required)
_		•	,		(D0)			•
	Surface Water (A1)	n)			eaves (B9)	except		ater Stained Leaves (B9) except
	High Water Table (A2 Saturation (A3)	(.)		1,2,4A , a rust (B11)	-			ILRA 1,2,4A, and 4B)
	Nater Marks (B1)				orates (B13)			rainage Patterns (B10) ry-Season Water Table (C2)
	Sediment Deposits (E	32)	•		le Odor (C1		,	aturation Visible on
	Drift Deposits (B3)	,,,		,	spheres (C3	•		erial Imagery (C9)
	Algal Mat or Crust (B	4)			duced Iron (eomorphic Position (D2)
	ron Deposits (B5)	-,		t Iron Red		(- ')	_	nallow Aquitard (D3)
	Surface Soil Cracks (B6)	Tilled	Soils (C6))			AC-Neutral Test (D5)
	nundation Visible on	Aerial			ssed Plants		Ra	aised Ant Mounds (D6) (LRR A)
	Imagery (B7)		(D1) (I	LRR A)			Fr	ost-Heave Hummocks (D7)
	Sparsely Vegetated (Concave	Other ((Explain i	n Remarks)			
	Surface (B8)							
Field O	bservations		· · · · · · · · · · · · · · · · · · ·					_
Surface	Water Present? Yes	No _	Depth (inch	ies) <mark>n/a</mark>		Wetland	d Hydrology?	∜ / N
		No _	Depth (inch	_{les)} <u>n/a</u>				
	on Present? Yes		X Depth (inch			udes capilla		
	pe Recorded Data (s		•	photos, an	id previous in	spections),	if available:	
	ition visible on so	me Google l	arth imagery.					
Remarl	KS							

Salt (white) staining on rocks and soil surface indicate saturation and seepage.



					Data Point		67
Wetland Determination Data Form–Weste	ern Mount	n Mountains, Valleys, & Coast Region Feature Type					nd
Project/Site: Fountain Wind		City/County	Shasta (County		Date:	8/30/18
Applicant/Owner: Avangrid				State: <u>C</u>			_
Investigator(s): Gabe Youngblood, Alison Loveless		Section, Township, Range Sec. 30, T35N,					
Landform (hillslope, terrace, etc.) Hillslope			ef (concave	, convex, none) Conv	/ex	Slope	
Subregion (LRR): MLRA 22B Lat:	40.855504°		Long:_	-121.796347°	Datum	n: NA	AD 83
Soil Map Unit Name: Stukel complex, 15 to 30 percen	ıt slopes		N\	WI Classification: N/A			
Are climatic/hydrologic conditions on the site typical for this	s time of year?	$\sqrt{ \mathcal{J} }$ (If r	o, explain i	n Remarks.)			
Are vegetation \(\sigma\)Soil \(\sigma\)Sor hydrology \(\sigma\)Signifi]		
Are vegetation \(\sigma\) \(\sigma\) soil \(\sigma\) \(\sigma\) or hydrology \(\sigma\) \(\sigma\) hatura					_		
			· · · · · ·	<u> </u>			
Summary of Findings (Attach site map showing sam					ı .	1.57	
Hydrophytic vegetation? 🗌 🔀 Hydric soil? 🔲 🔀 Wetla	ind hydrology?		sampled are	ea a wetland? \\X	Other waters?		
Evaluation of features designated "Other Wa	iters of the	United St	ates"				
Indicators: Defined bed and bank Scoul	r Ordin	ary High Wa	iter Mark M	apped Stream	Width		
Feature Designation: Perennial Intermittent Natural Drainage Artificial Dr	Ephemeral	Blue-lin	e on USGS Nater	Quad Substr	ate		
Paranta	amaye	ivavigable v					
Remarks _{Upland} pair to DP66 which documents	s a seasona	I wetland.					
Vegetation (Use Scientific Names)	Absolute	Dominant	Indicator	Dominance Test V	Vorksheet		
Free Stratum (Plot Size:)	% Cover	Species?	Status	Number of dominal	nt species	•	
·				that are OBL, FAC		0	_ (A)
2.				Total number of do across all strata:	minant species	3	_ (B)
3				Percent of dominar	nt species that		_ (D)
4				are OBL, FACW, o	r FAC:	0	_ (A/B)
50%= Total Cove	er:0			Prevalence Index	Worksheet		
Sapling/Shrub Stratum (Plot Size:)	% Cover	Species?	Status	Total % Cover of:		Ŋ	
1. Arctostaphylos patula	45	Y	UPL	OBL Species	x 1 =	0	
Quercus garryana	40	Y	FACU	FACW Species		_	
2. Ceanothus integarmus	5	N	UPL_		x 3 =	_	
1				FACU Species			
50%=_45 20%=_18 Total Cove	er: 90			LIDI Caralia	X 4 =		
Herb Stratum (Plot Size: 5		Species?	Status	UPL Species			—
Galium aparine	2	2	FACU	Column Totals			(B)
2.				Drovolopoo Indov	D/A		
				Prevalence Index =	D/A =		
3				Hydrophytic Vege	tation Indicator	S	on
3 1				Hydrophytic Vege Rapid Test f	tation Indicator or Hydrophytic V Test is >50%	S	on
3 4 5				Hydrophytic Vege Rapid Test f Dominance Prevalence	station Indicator for Hydrophytic V Test is >50% Index is <u><</u> 3.01	s 'egetati	
3				Hydrophytic Vege Rapid Test f Dominance Prevalence Morphologic	station Indicator for Hydrophytic V Test is >50% Index is <u><</u> 3.01	s 'egetati 'provide	e supportin
3				Hydrophytic Vege Rapid Test f Dominance Prevalence Morphologic data in Rem Wetland No	tation Indicator or Hydrophytic V Test is >50% Index is < 3.01 cal Adaptations1 (arks or on a sep n-Vascular Plant	s 'egetati 'provide arate s	e supportin heet)
3				Hydrophytic Vege Rapid Test f Dominance Prevalence Morphologic data in Rem Wetland No Problematic	etation Indicator for Hydrophytic V Test is >50% Index is ≤ 3.0¹ cal Adaptations¹ (arks or on a sep- n-Vascular Plant: Hydrophytic Veg	s legetati lprovide arate s s ¹ getatior	e supportin heet) n¹ (Explain)
3	er:			Hydrophytic Vege Rapid Test f Dominance Prevalence Morphologic data in Rem Wetland No Problematic	etation Indicator for Hydrophytic V Test is >50% Index is ≤ 3.0¹ cal Adaptations¹ (arks or on a sep- n-Vascular Plant: Hydrophytic Veg	s legetati lprovide arate s s ¹ getatior	e supportin heet) n¹ (Explain)
3	er: 2 % Cover		Status	Hydrophytic Vege Rapid Test f Dominance Prevalence Morphologic data in Rem Wetland No Problematic	etation Indicator for Hydrophytic V Test is >50% Index is ≤ 3.0¹ cal Adaptations¹ (arks or on a sep- n-Vascular Plant: Hydrophytic Veg	s legetati lprovide arate s s ¹ getatior	e supportin heet) n¹ (Explain)
3	er: 2 % Cover	Species?	Status	Hydrophytic Vege Rapid Test f Dominance Prevalence Morphologic data in Rem Wetland No Problematic	etation Indicator for Hydrophytic V Test is >50% Index is ≤ 3.0¹ cal Adaptations¹ (arks or on a sep- n-Vascular Plant- Hydrophytic Vec- c soil and wetlant	s fegetati fprovide arate s s ¹ getation d hydra	e supportin heet) n¹ (Explain) plogy must
3	er: 2 % Cover	Species?	Status	Hydrophytic Vege Rapid Test f Dominance Prevalence Morphologic data in Rem Wetland No Problematic Indicators of hydribe present.	etation Indicator for Hydrophytic V Test is >50% Index is ≤ 3.0¹ cal Adaptations¹ (arks or on a sep- n-Vascular Plant- Hydrophytic Vec- c soil and wetlant	s fegetati fprovide arate s s ¹ getation d hydra	e supportin heet) n¹ (Explain) ology must

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Profile D Depth	escription: (Des	cribe to the d		ed to docume ox Features	ent the inc	dicator or co	nfirm the a	bsence of in	ndicators.
(<u>inches</u>)	Color (mois			lor (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	<u>Remarks</u>
0-8	10YR 2/2	100	_					<u>L</u>	Loam
			_						
Types: (C = Concentration	D = Depletion	RM = Re	educed Matrix	2	Location: PL	= Pore Lin	ing M = Ma	trix
lydric S	oil Indicators: (A	applicable to	all LRRs, ι	unless otherw	ise noted)		Indicator	s for Problematic Hydric Soils ³
	Histosol (A1)		-	Sandy	Redox (S	S5)		2	cm Muck (A10)
	Histic Epipedon (A	12)	-	Strippe	ed Matrix	(S6)		R	ed Parent Materials (TF21)
	Black Histic (A3)		-	Loamy	Mucky M	/lineral (exce	ept	Ve	ery Shallow Dark Surface (TF12)
	Hydrogen Sulfide	(A4)		MLRA	1) (F1)			Ve	egetated Sand/Gravel Bars
	Depleted Below D	ark Surface	(A11) ₋	Loamy	Gleyed N	Matrix (F2)		0	ther (Explain in Remarks)
	Thick Dark Surfac	, ,	-	Deplet					
	Sandy Mucky Mine	eral (S1)	-	Redox	Dark Sur	rface (F6)		³ Indicato	rs of hydrophytic vegetation and
	Sandy Gleyed Ma	trix (S4)	-	Deplet	ed Dark S	Surface (F7)		wetland I	nydrology must be present.
			-	Redox	Depressi	ions (F8)			
Restrict	tive Layer (if pres	ent): Type:	Bedrock		Depth (I	nches) 8	Hydr	ic Soil Pres	ent? /X
	<i>y</i> 、 ı	, ,, ,, -			1 \	,			<u> </u>
Remark No inc	dicators of hydr	ic soil wer	e observ	ed.					
No inc	dicators of hydrology				at apply)			Secondar	v Indicators (2 or more required)
No inco	dicators of hydrology Indicators (Minim	num of one is		Check all that		navos (RO)			y Indicators (2 or more required)
No incomplete No	dicators of hydrology Indicators Indicators (Minim	num of one is		Check all tha	Stained L	Leaves (B9)	except	W	ater Stained Leaves (B9) except
No inco	blogy d Indicators / Indicators (Minim Surface Water (A1 High Water Table	num of one is		Check all that	Stained L	and 4B)	except	W	ater Stained Leaves (B9) exceptilLRA 1,2,4A, and 4B)
No incomplete Hydro Wetlan Primary	blogy Id Indicators Indicators (Minim Surface Water (A1 High Water Table Saturation (A3)	num of one is		Check all that Water MLRA Salt Cr	Stained L 1,2,4A, a rust (B11)	and 4B)	·	W Di	ater Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10)
No inco	dicators of hydrology d Indicators / Indicators (Minim Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1)	num of one is		Check all that Water MLRA Salt Cr	Stained L 1,2,4A, a rust (B11) c Inverteb	and 4B) orates (B13)		W N Di	later Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2)
No inco	dicators of hydrology Id Indicators Indicators (Minim Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits	num of one is) (A2) s (B2)		Check all that Water MLRA Salt Cr Aquati	Stained L 1,2,4A, a rust (B11) c Inverteb gen Sulfid	and 4B) brates (B13) de Odor (C1)		W Di Di Si	later Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on
Hydro Wetlan Primary	blogy Id Indicators Indicators (Minim Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3)	num of one is (A2) s (B2)		Check all that Water MLRA Salt Cr Aquati Hydrog Oxidize	Stained L A 1,2,4A, a rust (B11) c Inverteb gen Sulfid ed Rhizos	and 4B) prates (B13) de Odor (C1) spheres (C3)))	W Di Di Sa	later Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9)
Hydro Wetlan Primary	dicators of hydrology Indicators Indicators (Minime) Surface Water (A1) High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust	num of one is) (A2) s (B2) (B4)		Check all that Water MLRA Salt Cr Aquati Hydrog Oxidize Preser	Stained L 1,2,4A, and the standard sta	and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron ())	W Di Di Si A	later Stained Leaves (B9) exception (B9) exception (B10) rainage Patterns (B10) ry-Season Water Table (C2) attraction Visible on erial Imagery (C9) ecomorphic Position (D2)
Remark No inco	blogy Id Indicators Indicators (Minim Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5)	num of one is (A2) (S (B2) (B4)		Check all that Water MLRA Salt Cr Aquatir Hydrog Oxidize Preser Recen	Stained L A 1,2,4A, a rust (B11) c Inverteb gen Sulfid ed Rhizos nce of Rea t Iron Rea	and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in))	W Di Di Si G	later Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) nallow Aquitard (D3)
No incomplete Mydro	Dlogy Id Indicators Indicators (Minim Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Surface Soil Crack	num of one is (A2) (S (B2) (B4) (S (B6)		Check all that Water MLRA Salt Cr Aquati Hydrog Oxidize Preser Recen Tilled	Stained L 1,2,4A, a rust (B11) c Inverteb gen Sulfid ed Rhizos nce of Rea t Iron Rea Soils (C6)	and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in))	W Di Si Si Si	later Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) nallow Aquitard (D3) AC-Neutral Test (D5)
Remark No inco Hydro Wetlan Primary	blogy Id Indicators Indicators (Minim Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Surface Soil Crack	num of one is (A2) (S (B2) (B4) (S (B6)		Check all that Water MLRA Salt Cr Aquati Hydrog Oxidize Preser Recen Tilled Stunte	Stained L A 1,2,4A, a rust (B11) c Inverteb gen Sulfid ed Rhizos nce of Red t Iron Red Soils (C6) d or Stres	and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in))	W Di Si G SI F/	later Stained Leaves (B9) exception (B10) exception (C2) exception (C3) exception (C4) exception (D4) exception (D5) exception (D5) exception (D5) exception (D6) (LRR A) exception (LRR A)
Remark No incomplete Methan Primary	dicators of hydrology Indicators Indicators (Minim Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Surface Soil Crack Inundation Visible Imagery (B7)	num of one is (A2) (S (B2) (B4) (S (B6) on Aerial		Check all that Water MLRA Salt Cr Aquati Hydrog Oxidize Preser Recen Tilled Stunte (D1) (Stained L A 1,2,4A, a rust (B11) c Inverteb gen Sulfid ed Rhizos nce of Red t Iron Red Soils (C6) d or Stres LRR A)	and 4B) prates (B13) de Odor (C1) spheres (C3) duced Iron (duction in) ssed Plants))	W Di Si G SI F/	later Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) nallow Aquitard (D3) AC-Neutral Test (D5)
Hydro Wetlan Primary	blogy Id Indicators Indicators (Minim Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Surface Soil Crack	num of one is (A2) (S (B2) (B4) (S (B6) on Aerial		Check all that Water MLRA Salt Cr Aquati Hydrog Oxidize Preser Recen Tilled Stunte (D1) (Stained L A 1,2,4A, a rust (B11) c Inverteb gen Sulfid ed Rhizos nce of Red t Iron Red Soils (C6) d or Stres LRR A)	and 4B) orates (B13) de Odor (C1) spheres (C3) duced Iron (duction in))	W Di Si G SI F/	later Stained Leaves (B9) exception (B10) exception (C2) exception (C3) exception (C4) exception (D4) exception (D5) exception (D5) exception (D5) exception (D6) (LRR A) exception (LRR A)
Remark No incomplete Methan Primary	Dlogy Id Indicators Indicators (Minim Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Surface Soil Crack Inundation Visible Imagery (B7) Sparsely Vegetate	num of one is (A2) (S (B2) (B4) (S (B6) on Aerial		Check all that Water MLRA Salt Cr Aquati Hydrog Oxidize Preser Recen Tilled Stunte (D1) (i	Stained L A 1,2,4A, a rust (B11) c Inverteb gen Sulfid ed Rhizos nce of Rea t Iron Rea Soils (C6) d or Stres LRR A) (Explain in	and 4B) prates (B13) de Odor (C1) spheres (C3) duced Iron (duction in) ssed Plants))	W Di Si G SI F/	later Stained Leaves (B9) exceptile (B10) exceptile (B10) exception (B10) exce
Remark No inco Hydro Wetlan Primary	Dlogy Id Indicators Indicators (Minim Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Surface Soil Crack Inundation Visible Imagery (B7) Sparsely Vegetate Surface (B8) Disservations	num of one is (A2) (S (B2) (B4) (S (B6) on Aerial		Check all that Water MLRA Salt Cr Aquati Hydrog Oxidize Preser Recen Tilled Stunte (D1) (i	Stained L A 1,2,4A, a rust (B11) c Inverteb gen Sulfid ed Rhizos nce of Rea t Iron Rea Soils (C6) d or Stres LRR A) (Explain in	and 4B) prates (B13) de Odor (C1) spheres (C3) duced Iron (duction in) ssed Plants	C4)	W Di Si G SI F/	later Stained Leaves (B9) exception (B10) exce
Remark No inco Hydro Wetlan Primary	dicators of hydrology d Indicators y Indicators (Minim Surface Water (A1 High Water Table Saturation (A3) Water Marks (B1) Sediment Deposits Drift Deposits (B3) Algal Mat or Crust Iron Deposits (B5) Surface Soil Crack Inundation Visible Imagery (B7) Sparsely Vegetate Surface (B8) Observations Water Present?	num of one is (A2) (S (B2) (B4) (SS (B6) on Aerial	s required.	Check all that Water MLRA Salt Cr Aquati Hydrog Oxidize Preser Recen Tilled Stunte (D1) (Stained L A 1,2,4A, a rust (B11) c Inverteb gen Sulfid ed Rhizos nce of Rec t Iron Rec Soils (C6) d or Stres LRR A) (Explain in	and 4B) prates (B13) de Odor (C1) spheres (C3) duced Iron (duction in) ssed Plants	C4)	W Di Si G SI Fr Fr	later Stained Leaves (B9) except ILRA 1,2,4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on erial Imagery (C9) eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)

No indicators of wetland hydrology were observed.



Wetland Determination Data Form-West	ern Mounta	ains, Vall	leys, & (Coast Region	Data Point Feature Type!	68 ntermittent Strean
			•	•	. n	ate: <u>8/15/18</u>
Applicant/Owner: Avangrid		Onlyrodunty	•	State: C		dio
Investigator(s): Gabe Youngblood, Alison Loveless			Section	, Township, Range Se	ec. 26, T35N, R1	 E
Landform (hillslope, terrace, etc.) Drainage	40.856761°	_ Local relie	ef (concave	, convex, none) Conc	ave SI	ope %5
Soil Map Unit Name: Windy and McCarthy stony sand	dy loams, 0 to	30 percent			BBC	
Are climatic/hydrologic conditions on the site typical for th Are vegetation ☐/☒soil ☐/☒or hydrology☐/☒signif Are vegetation ☐/☒soil ☐/☒or hydrology☐/☒hatur	ficantly disturbe	d? Are norn	nal circums	tances present?	checkmark	the X (right
Summary of Findings (Attach site map showing san Hydrophytic vegetation? Hydric soil? Wetl					Other waters? <mark>√</mark> /[
Evaluation of features designated "Other Wallindicators: Defined bed and bank Scout Seature Designation: Perennial Intermittent Natural Drainage Artificial D	ur <u> </u>	ary High Wa Blue-lin	iter Mark M e on USGS	Quad Substra	Width <u>2</u> ate ^{soil}	
Remarks _{DP} documents a small intermittent sti	ream.					
Vegetation (Use Scientific Names) Tree Stratum (Plot Size:)	Absolute % Cover	Dominant Species?		Dominance Test W Number of dominar	nt species	(0)
1				that are OBL, FACV Total number of dor		(A)
2				across all strata:	·	(B)
3				Percent of dominan are OBL, FACW, or		(A/B)
4						(/ 1/2)
Sapling/Shrub Stratum (Plot Size:)	% Cover	Species?	Status	Prevalence Index Total % Cover of:	Multiply by	0
1				· -	x 1 = _	0
3				FACW Species		0
4				FAC Species _		
50%= Total Cov				FACU Species _		
Herb Stratum (Plot Size:)		Species?	Status	UPL Species _		
1				Column Totals _ Prevalence Index =		
3 4				Hydrophytic Vege		uetation
				Dominance	Test is >50%	,
5				Prevalence I Morphologic		ovido supporting
6					arks or on a separa	
7				Wetland Nor	n-Vascular Plants ¹	·
8				Problematic ¹ Indicators of hydric	Hydrophytic Veget	
50%= 20%= Total Cov Woody/Vine Stratum (Plot Size:)		Species?	Status	be present.	, son anu wellanu l	iyarology illust
		•				7.
1 2				Hydrophytic Vege	tation Present? L	
	/er:0					
% Bare Ground in Herb Stratum % Cover of						

\sim		1
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w	ш	. 7

Depth	Matrix	(Redox Features					
nches)	Color (m	<u>%</u>	•	Color (moist)	%	Type ¹	Loc ²	<u>Texture</u>	<u>Remarks</u>
vnes: C	- Concentration	D – Denletic	— — n RM	= Reduced Matrix			– Pore Lin	ning M = Matrix	
J.				Rs, unless otherw			- TOIC LIII		Problematic Hydric Soils
•	istosol (A1)	(Applicable to	o dii Liv	Sandy				2 cm N	•
	istic Epipedon	(A2)		Strippe	•	•			arent Materials (TF21)
	lack Histic (A3					Mineral (exc e	≏nt		hallow Dark Surface (TF12
	ydrogen Sulfid			,	1) (F1)	viirierai (exec	op:	•	ated Sand/Gravel Bars
	epleted Below		- (A11)		, , ,	Matrix (F2)		-	(Explain in Remarks)
	hick Dark Surf		5 (7111)	Deplet	-			Other ((Explain in Remarks)
	andy Mucky M			•		ırface (F6)		³ Indicators of	hydrophytic vegetation and
	andy Gleyed N					Surface (F7)			ology must be present.
	anaj ciojoan	idilix (O i)		•		sions (F8)			nogy much be precent
Restrictiv	ve Layer (if pr	esent): Type	:		Depth (Inches)	Hydı	ric Soil Present?	1
No soil	s pit scoure	d channel							
Hydrol Wetland	s pit scoure ogy Indicators		is requ	ired. Check all tha	at apply.)			Secondary Ind	icators (2 or more required)
No soils Hydrol Wetland Primary	s pit scoured Ogy Indicators Indicators (Mir	imum of one	is requ	ired. Check all tha			oveent	-	
No soil: Hydrol Wetland Primary S	ogy Indicators Indicators (Mir	imum of one	is requ	Water	Stained	Leaves (B9)	except	Water	icators (2 or more required) Stained Leaves (B9) excep
No soil: Hydrol Wetland Primary Si H	ogy Indicators Indicators (Mir urface Water (igh Water Tab	imum of one	is requ	Water	Stained 1,2,4A,	Leaves (B9) and 4B)	except	Water MLRA	Stained Leaves (B9) except 1,2,4A, and 4B)
No soil: Hydrol Wetland Primary S H S	ogy Indicators Indicators (Mir urface Water (igh Water Tab aturation (A3)	imum of one A1) le (A2)	is requ	Water MLRA Salt C	Stained 1,2,4A , rust (B11	Leaves (B9) and 4B)		Water MLRA Draina	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10)
No soil: Hydrol Wetland Primary Si H Si	ogy Indicators Indicators (Mir urface Water (igh Water Tab aturation (A3) /ater Marks (B	imum of one A1) le (A2)	is requ	Water MLRA Salt Co	Stained 1,2,4A, rust (B11 c Inverte	Leaves (B9) and 4B)) brates (B13)	·	Water MLRA Draina Dry-Se	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2)
No soil: Hydrol Wetland Primary Si H Si Si W	ogy Indicators Indicators (Mir urface Water (igh Water Tab aturation (A3) /ater Marks (B ediment Depos	imum of one A1) le (A2) 1) sits (B2)	is requ	Water MLRA Salt C Aquati	Stained A 1,2,4A, rust (B11 c Inverte gen Sulfice	Leaves (B9) and 4B)) brates (B13) de Odor (C1))	Water MLRA Draina Dry-Se Satura	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on
No soil: Hydrol Wetland Primary S H S V D D	ogy Indicators Indicators (Mir urface Water (igh Water Tab aturation (A3) /ater Marks (B ediment Deposits (E	imum of one A1) le (A2) 1) sits (B2)	is requ	Water MLRA Salt Co Aquati Hydroo	Stained A 1,2,4A, rust (B11 c Inverte gen Sulficed Rhizo	Leaves (B9) and 4B)) brates (B13) de Odor (C1) espheres (C3)))	Water MLRA Draina Dry-Se Satura Aerial	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9)
Hydrol Wetland Primary Si H Si Si V D A	ogy Indicators Indicators (Mir urface Water (igh Water Tab aturation (A3) /ater Marks (B ediment Deposits (E Igal Mat or Cru	imum of one A1) le (A2) 1) sits (B2) a3) sst (B4)	is requ	Water MLRA Salt Ci Aquati Hydrog Oxidiz	Stained 1,2,4A, rust (B11 c Inverte gen Sulficed Rhizo	Leaves (B9) and 4B)) brates (B13) de Odor (C1) espheres (C3) educed Iron ())	Water MLRA Draina Dry-Se Satura Aerial ✓ Geome	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2)
Hydrol Wetland Primary Si H Si Si A	ogy Indicators Indicators (Mir urface Water (igh Water Tab aturation (A3) /ater Marks (B ediment Deposits (E Igal Mat or Cru on Deposits (B	imum of one A1) le (A2) 1) sits (B2) s3) st (B4) 5)	is requ	Water MLRA Salt Cl Aquati Hydrog Oxidiz Preser Recen	Stained A 1,2,4A, rust (B11 c Inverte gen Sulficed Rhizo nce of Re t Iron Re	Leaves (B9) and 4B)) brates (B13) de Odor (C1) espheres (C3) educed Iron ())	Water MLRA Draina Dry-Se Satura Aerial ✓ Geome	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3)
No soil: Hydrol Wetland Primary Si H Si V D Ai Iri	ogy Indicators Indicators (Mir urface Water (igh Water Tab aturation (A3) /ater Marks (B ediment Deposits (E Igal Mat or Cru on Deposits (E urface Soil Cra	imum of one A1) le (A2) 1) sits (B2) s3) lst (B4) 5) lcks (B6)	is requ	Water MLRA Salt Ci Aquati Hydrog Oxidiz Preser Recen Tilled	Stained A 1,2,4A, rust (B11 c Inverte gen Sulficed Rhizonce of Ret Iron ReSoils (Cé	Leaves (B9) and 4B)) brates (B13) de Odor (C1) espheres (C3) educed Iron (eduction in))	Water MLRA Draina Dry-Se Satura Aerial ✓ Geome Shallov FAC-N	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5)
Hydrol Wetland Primary Si H Si Al Iri Si	ogy I Indicators Indicators (Mir urface Water (igh Water Tab aturation (A3) /ater Marks (B ediment Deposits (E lgal Mat or Cru on Deposits (E urface Soil Cra undation Visib	imum of one A1) le (A2) 1) sits (B2) s3) lst (B4) 5) lcks (B6)	is requ	Water MLRA Salt Cl Aquati Hydrog Oxidiz Preser Recen Tilled Stunte	Stained A 1,2,4A, rust (B11 c Inverte gen Sulficed Rhizonce of Ret Iron Re Soils (Ced d or Stre	Leaves (B9) and 4B)) brates (B13) de Odor (C1) espheres (C3) educed Iron ())	Water MLRA Draina Dry-Se Satura Aerial ✓ Geome Shallov FAC-N Raised	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) If Ant Mounds (D6) (LRR A)
No soil: Hydrol Wetland Primary Solution Solution All Interpretation I	ogy Indicators Indicators (Mir urface Water (igh Water Tab aturation (A3) /ater Marks (B ediment Deposits (E Igal Mat or Cru on Deposits (E urface Soil Cra undation Visib magery (B7)	imum of one A1) le (A2) 1) sits (B2) st (B4) 5) acks (B6) le on Aerial		Water MLRA Salt Cl Aquati Hydrog Oxidiz Preser Recen Tilled Stunte (D1) (Stained A 1,2,4A, rust (B11 c Inverte gen Sulfice of Ret Iron Re Soils (Céd or Stre LRR A)	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) educed Iron (eduction in 6) sssed Plants))	Water MLRA Draina Dry-Se Satura Aerial ✓ Geome Shallov FAC-N Raised	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5)
No soil: Hydrol Wetland Primary So H So In Ir So Ir	ogy I Indicators Indicators (Mir urface Water (igh Water Tab aturation (A3) /ater Marks (B ediment Deposits (E lgal Mat or Cru on Deposits (E urface Soil Cra undation Visib	imum of one A1) le (A2) 1) sits (B2) st (B4) 5) acks (B6) le on Aerial		Water MLRA Salt Cl Aquati Hydrog Oxidiz Preser Recen Tilled Stunte (D1) (Stained A 1,2,4A, rust (B11 c Inverte gen Sulfice of Ret Iron Re Soils (Céd or Stre LRR A)	Leaves (B9) and 4B)) brates (B13) de Odor (C1) espheres (C3) educed Iron (eduction in))	Water MLRA Draina Dry-Se Satura Aerial ✓ Geome Shallov FAC-N Raised	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) If Ant Mounds (D6) (LRR A)
No soil: Hydrol Wetland Primary S H S V A Irr Irr S S S S S S S S S S S S	ogy Indicators Indicators (Mir urface Water (igh Water Tab aturation (A3) /ater Marks (B ediment Deposits (B Igal Mat or Cru on Deposits (B urface Soil Cra nundation Visib magery (B7) parsely Vegeta	imum of one A1) le (A2) 1) sits (B2) st (B4) 5) acks (B6) le on Aerial	•	Water MLRA Salt Ci Aquati Hydrog Oxidiz Preser Recen Tilled Stunte (D1) (Stained A 1,2,4A, rust (B11 c Inverte gen Sulfic ed Rhizo nce of Re t Iron Re Soils (Ce d or Stre LRR A) (Explain	Leaves (B9) and 4B)) brates (B13) de Odor (C1) espheres (C3) educed Iron (eduction in 6) essed Plants in Remarks)) (C4)	Water MLRA Draina Dry-Se Satura Aerial ✓ Geome Shallov FAC-N Raised Frost-F	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) I Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
No soil: Hydrol Wetland Primary Solution A Ir Solution Ir Solution Field Ob Surface V	ogy Indicators Indicators (Mir urface Water (igh Water Tab aturation (A3) /ater Marks (B ediment Deposits (E Igal Mat or Cru on Deposits (B urface Soil Cra nundation Visib magery (B7) parsely Vegeta urface (B8) oservations Vater Present?	imum of one A1) le (A2) 1) sits (B2) st (B4) 5) acks (B6) le on Aerial	No _	Water MLRA Salt Cl Aquati Hydrog Oxidiz Preser Recen Tilled Stunte (D1) (Other	Stained A 1,2,4A, rust (B11 c Inverte gen Sulficed Rhizo nce of Re t Iron Re Soils (Ca d or Stre LRR A) (Explain	Leaves (B9) and 4B)) brates (B13) de Odor (C1) espheres (C3) educed Iron (eduction in 6) essed Plants in Remarks)) (C4)	Water MLRA Draina Dry-Se Satura Aerial ✓ Geome Shallov FAC-N Raised	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) I Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
No soil: Hydrol Wetland Primary Solution A Iro Solution Iro Solution Field Obs Surface V Water Tal	ogy Indicators Indicators (Mir urface Water (igh Water Tab aturation (A3) /ater Marks (B ediment Deposits (B Igal Mat or Cru on Deposits (B urface Soil Cra nundation Visib magery (B7) parsely Vegeta urface (B8) oservations	imum of one A1) le (A2) 1) sits (B2) ist (B4) 5) acks (B6) le on Aerial	•	Water MLRA Salt Ci Aquati Hydrog Oxidiz Preser Recen Tilled Stunte (D1) (Stained A 1,2,4A, rust (B11 c Inverte gen Sulfie ed Rhizo nce of Re t Iron Re Soils (Cé d or Stre LRR A) (Explain	Leaves (B9) and 4B)) brates (B13) de Odor (C1) spheres (C3) educed Iron (eduction in 6) sssed Plants in Remarks)) (C4)	Water MLRA Draina Dry-Se Satura Aerial ✓ Geomo Shallov FAC-N Raised Frost-H	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) I Ant Mounds (D6) (LRR A) Heave Hummocks (D7)

Drift deposits indicate frequent flooding.



Wetland Determination Data For	m-Westerr	n Mounta	ains, Vall	leys, & (Coast Region	Data Point Feature Type _F	69 Perennial Stream
				•	•	Γ.	ate: 8/30/18
Applicant/Owner: Avangrid			onlyrodding	•	State: C		uto
Investigator(s): Gabe Youngblood, Alison	Loveless			Section	, Township, Range S	ec. 26, T35N, R1	E
Landform (hillslope, terrace, etc.) Drainage Subregion (LRR): MLRA 22B			_ Local relie	ef (concave	, convex, none) Cond	cave SI	ope %5
Soil Map Unit Name: Nanny gravelly sand	loam, 0 to 8	percent sl	opes			JBH	
Are climatic/hydrologic conditions on the site t Are vegetation □/☒soil □/☒or hydrology Are vegetation □/☒soil □/☒or hydrology	■ Significar	ntly disturbe	d? Are norr	nal circums	stances present? 🗸/	checkmark	the X (right
Summary of Findings (Attach site map Hydrophytic vegetation? Hydric soil?						Other waters?	
Evaluation of features designated ' Indicators: Defined bed and bank _ Feature Designation: Perennial Interm Natural Drainage	✓ Scour _ hittent Ep	✓_ Ordin hemeral	ary High Wa Blue-lin	iter Mark M e on USGS	Quad Substr	Width Variable ate Cobble	
Remarks _{DP} documents Hatchet Cre	ek.						
Vegetation (Use Scientific Names) Tree Stratum (Plot Size:)		Absolute % Cover	Dominant Species?		Dominance Test V	nt species	(0)
1					that are OBL, FAC' Total number of do		(A)
2					across all strata:	·	(B)
3					Percent of dominar are OBL, FACW, o		(A/B)
4 20%=		0					(1110)
Sapling/Shrub Stratum (Plot Size:		% Cover	Species?	Status	Prevalence Index Total % Cover of:	Multiply by	0
1					'	x 1 = _	0
3					FACW Species		0
4					FAC Species		
50%=					FACU Species		
Herb Stratum (Plot Size:)			Species?	Status	UPL Species		
1					Column Totals Prevalence Index =		
34					Hydrophytic Vege	or Hydrophytic Veg	jetation
5					Dominance Prevalence	Test is >50% Index is < 3.01	
6					Morphologic	al Adaptations ¹ (pr	
7					data in Rem	arks or on a separa	ate sheet)
8						Hydrophytic Veget	ation1 (Explain)
50%=	Total Cover:	0			¹ Indicators of hydri		
Woody/Vine Stratum (Plot Size:)	% Cover	Species?	Status	be present.		
1					Hydrophytic Vege	tation Present?	
2							
50%=							
% Bare Ground in Herb Stratum %	Cover of Bio	tic Crust _					

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Depth (<u>inches</u>)	Matrix		Redox Features				absence of indica	
	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	<u>Texture</u>	<u>Remarks</u>
J.	Concentration D = [. = Pore Lir	ning M = Matrix	
•		cable to all L	RRs, unless otherw					Problematic Hydric Soils
	tosol (A1)		Sandy				2 cm N	
	tic Epipedon (A2)		Strippe					arent Materials (TF21)
	ck Histic (A3)		-	-	ineral (exc	ept	-	hallow Dark Surface (TF12)
,	drogen Sulfide (A4)			1) (F1)				ated Sand/Gravel Bars
	pleted Below Dark S	•	,	,			Other	(Explain in Remarks)
	ck Dark Surface (A	•	Deplet				2	
	ndy Mucky Mineral			Dark Surf				hydrophytic vegetation and
Sar	ndy Gleyed Matrix (S4)	Deplet				wetland hydro	plogy must be present.
			Redox	Depression	ons (F8)			
Restrictive	Layer (if present):	Туре:		Depth (Ir	nches)	Hyd	ric Soil Present?	1
Remarks								
No soils	pit scoured cha	nnel.						
Hydrolo	an i							
Tiyarolo	У							
Wetland I	ndicators	of one is red	juired. Check all tha	nt apply.)			Secondary Ind	icators (2 or more required)
Wetland I Primary In	ndicators dicators (Minimum	of one is rec	•		eaves (B9)	excent		
Wetland I Primary In Sur	ndicators dicators (Minimum face Water (A1)		Water	Stained Le	eaves (B9)	except	Water	Stained Leaves (B9) excep
Wetland I Primary In Sur Hig	ndicators dicators (Minimum face Water (A1) h Water Table (A2)		Water MLRA	Stained Le		except	Water	Stained Leaves (B9) except 1,2,4A, and 4B)
Wetland I Primary In Sur Hig	ndicators dicators (Minimum face Water (A1) th Water Table (A2) duration (A3)		Water MLRA Salt Cr	Stained Le 1,2,4A, a rust (B11)	and 4B)		Water MLRA Draina	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10)
Wetland I Primary In ✓ Sur ✓ Hig ✓ Sat — Wa	ndicators dicators (Minimum face Water (A1) h Water Table (A2) turation (A3) ter Marks (B1)		Water MLRA Salt Cr Aquati	Stained Le 1,2,4A, a rust (B11) c Inverteb	and 4B) rates (B13)	·	Water MLRA Draina Dry-Se	Stained Leaves (B9) except A 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2)
Wetland I Primary In ✓ Sur ✓ Hig ✓ Sat ✓ Wa	ndicators dicators (Minimum face Water (A1) th Water Table (A2) turation (A3) ter Marks (B1) diment Deposits (B2)		Water MLRA Salt Cr Aquation Hydrog	Stained Lo 1,2,4A, a rust (B11) c Invertebi gen Sulfide	and 4B) rates (B13) e Odor (C1))	Water MLRA Draina Dry-Se Satura	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on
Wetland I Primary In ✓ Sur ✓ Hig ✓ Sat ✓ Sec ✓ Drift	ndicators dicators (Minimum face Water (A1) h Water Table (A2) turation (A3) ter Marks (B1) diment Deposits (B2) ft Deposits (B3)	2)	Water MLRA Salt Cr Aquati Hydrog	Stained Least 1,2,4A, as ust (B11) constitution in Sulfide gen Sulfide ed Rhizos	rates (B13) e Odor (C1) pheres (C3))	Water MLRA Draina Dry-Se Satura Aerial	Stained Leaves (B9) except A 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9)
Wetland I Primary In ✓ Sur ✓ Hig ✓ Sat ✓ Wa ✓ Sec ✓ Drif	ndicators dicators (Minimum face Water (A1) th Water Table (A2) turation (A3) ter Marks (B1) diment Deposits (B2) ft Deposits (B3) al Mat or Crust (B4)	2)	Water MLRA Salt Cr Aquatio Hydrog Oxidize	Stained Le 1,2,4A, a rust (B11) c Invertebrigen Sulfide ed Rhizos	rates (B13) e Odor (C1) pheres (C3) luced Iron ())	Water MLRA Draina Dry-Se Satura Aerial ✓ Geome	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2)
Wetland I Primary In ✓ Sur ✓ Hig ✓ Sat ✓ Wa ✓ Sec ✓ Drif — Alg — Iror	ndicators dicators (Minimum face Water (A1) th Water Table (A2) furation (A3) ter Marks (B1) diment Deposits (B2) ft Deposits (B3) al Mat or Crust (B4) the Deposits (B5)	2)	Water MLRA Salt Cr Aquation Hydrog Oxidize Preser Recen	Stained Le 1,2,4A, a rust (B11) c Invertebr gen Sulfide ed Rhizos nce of Red t Iron Red	rates (B13) e Odor (C1 pheres (C3 duced Iron (uction in))	Water MLRA Draina Dry-Se Satura Aerial ✓ Geome	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3)
Wetland I Primary In ✓ Sur ✓ Hig ✓ Sat	ndicators dicators (Minimum face Water (A1) h Water Table (A2) turation (A3) ter Marks (B1) diment Deposits (B2) ft Deposits (B3) al Mat or Crust (B4) h Deposits (B5) fface Soil Cracks (B	2)) (6)	Water MLRA Salt Cr Aquatir Hydrog Oxidizer Preser Recen Tilled	Stained Least 1,2,4A, a rust (B11) convertebring Sulfide ed Rhizospace of Redat Iron Redat (C6)	rates (B13) e Odor (C1) pheres (C3) luced Iron (uction in))	Water MLRA Draina Dry-Se Satura Aerial ✓ Geome Shallor FAC-N	Stained Leaves (B9) exception 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5)
Wetland I Primary In ✓ Sur ✓ Hig ✓ Sat ✓ Wa ✓ Sec ✓ Drii — Alg — Iror — Sur — Inu	ndicators dicators (Minimum face Water (A1) th Water Table (A2) turation (A3) ter Marks (B1) diment Deposits (B2) ft Deposits (B3) al Mat or Crust (B4) the Deposits (B5) face Soil Cracks (B1) and dation Visible on A	2)) (6)	Water MLRA Salt Cr Aquatir Hydrog Oxidizer Preser Recen Tilled Stunte	Stained Lo 1,2,4A, a rust (B11) c Invertebration gen Sulfide ed Rhizos nce of Red t Iron Red Soils (C6) d or Stress	rates (B13) e Odor (C1 pheres (C3 duced Iron (uction in))	Water MLRA Draina Dry-Se Satura Aerial ✓ Geome Shalloe FAC-N Raiseo	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) I Ant Mounds (D6) (LRR A)
Wetland I Primary In ✓ Sur ✓ Hig ✓ Sat ✓ Sec ✓ Drif Alg Iror Sur Inu	rdicators dicators (Minimum face Water (A1) th Water Table (A2) turation (A3) ter Marks (B1) diment Deposits (B2) ft Deposits (B3) al Mat or Crust (B4) th Deposits (B5) face Soil Cracks (B) agery (B7)	2)) (6) Aerial	Water MLRA Salt Cr Aquation Hydrog Oxidized Preser Recen Tilled Stunte (D1) (I	Stained Le A 1,2,4A, a rust (B11) C Invertebr gen Sulfide ed Rhizos nce of Red t Iron Red Soils (C6) d or Stress LRR A)	rates (B13) e Odor (C1 pheres (C3 luced Iron (uction in sed Plants))	Water MLRA Draina Dry-Se Satura Aerial ✓ Geome Shalloe FAC-N Raiseo	Stained Leaves (B9) exception 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5)
Wetland I Primary In ✓ Sur ✓ Hig ✓ Sat	ndicators dicators (Minimum face Water (A1) th Water Table (A2) turation (A3) ter Marks (B1) diment Deposits (B2) ft Deposits (B3) al Mat or Crust (B4) th Deposits (B5) face Soil Cracks (B1) ndation Visible on A	2)) (6) Aerial	Water MLRA Salt Cr Aquation Hydrog Oxidized Preser Recen Tilled Stunte (D1) (I	Stained Le A 1,2,4A, a rust (B11) C Invertebr gen Sulfide ed Rhizos nce of Red t Iron Red Soils (C6) d or Stress LRR A)	rates (B13) e Odor (C1) pheres (C3) luced Iron (uction in))	Water MLRA Draina Dry-Se Satura Aerial ✓ Geome Shalloe FAC-N Raiseo	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) I Ant Mounds (D6) (LRR A)
Wetland I Primary In ✓ Sur ✓ Hig ✓ Sat	ndicators dicators (Minimum face Water (A1) th Water Table (A2) turation (A3) ter Marks (B1) diment Deposits (B2) ft Deposits (B3) al Mat or Crust (B4) th Deposits (B5) face Soil Cracks (B ndation Visible on A agery (B7) arsely Vegetated Co face (B8)	2)) (6) Aerial	Water MLRA Salt Cr Aquatic Hydrog Oxidize Preser Recen Tilled Stunte (D1) (I	Stained Le 1,2,4A, a rust (B11) c Invertebr gen Sulfide ed Rhizos nce of Red t Iron Red Soils (C6) d or Stress LRR A) (Explain in	rates (B13) e Odor (C1 pheres (C3 luced Iron (uction in sed Plants))	Water MLRA Draina Dry-Se Satura Aerial ✓ Geome Shalloe FAC-N Raiseo	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) I Ant Mounds (D6) (LRR A)
Wetland I Primary In ✓ Sur ✓ Hig ✓ Sat ✓ Sec ✓ Drit — Alg — Iror — Sur — Inu — Im — Spa — Sur Field Obs	ndicators dicators (Minimum face Water (A1) th Water Table (A2) turation (A3) ter Marks (B1) diment Deposits (B2) ft Deposits (B3) al Mat or Crust (B4) th Deposits (B5) face Soil Cracks (B ndation Visible on A agery (B7) arsely Vegetated Co face (B8)	2) 66) Aerial oncave	Water MLRA Salt Cr Aquatic Hydrog Oxidize Preser Recen Tilled Stunte (D1) (I	Stained Le 1,2,4A, a rust (B11) c Invertebr gen Sulfide ed Rhizos nce of Red t Iron Red Soils (C6) d or Stress LRR A) (Explain in	rates (B13) e Odor (C1 pheres (C3 luced Iron (uction in sed Plants) C4)	Water MLRA Draina Dry-Se Satura Aerial ✓ Geome Shalloe FAC-N Raiseo	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) I Ant Mounds (D6) (LRR A) Heave Hummocks (D7)
Wetland I Primary In ✓ Sur ✓ Hig ✓ Sat ✓ Sec ✓ Drit — Alg — Iror — Sur — Inu — Im — Spa — Sur Field Obs	ndicators dicators (Minimum face Water (A1) th Water Table (A2) turation (A3) ter Marks (B1) diment Deposits (B2) ft Deposits (B3) al Mat or Crust (B4) the Deposits (B5) face Soil Cracks (B) ndation Visible on A agery (B7) tarsely Vegetated Co face (B8) tervations dier Present? Yes	2) 66) Aerial oncave	Water MLRA Salt Cr Aquatir Hydrog Oxidizer Preser Recen Tilled Stunter (D1) (I	Stained Least 1,2,4A, a rust (B11) or Invertebrated Rhizos and Red Rhizos (C6) dor Stress LRR A) (Explain in Least 1,2 Les) 12	rates (B13) e Odor (C1) pheres (C3) duced Iron (uction in sed Plants) C4)	Water MLRA Draina Dry-Se Satura Aerial ✓ Geome Shalloe FAC-N Raisec Frost-F	Stained Leaves (B9) except 1,2,4A, and 4B) ge Patterns (B10) eason Water Table (C2) tion Visible on Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5) I Ant Mounds (D6) (LRR A) Heave Hummocks (D7)

Surface water provides wetland hydrology.

Project/Site: Fountain Wind Project		City/County:	:	Burney/Shasta	San	npling Date:	10/14	4/2019
Applicant/Owner: Fountain Wind, L		ony, oounny.		State: Cali				1 up
Investigator(s): S. Creer & S. Cortez & B. Cohen		Section, Tov						
				ex, none):			Slope (%	6): 3
Subregion (LRR): MLRA 22B	Lat:				1.782373	Datu	m: W	/GS84
Soil Map Unit Name: Gasper-Scarface complex	, moist, 30	to 50 perce	nt slopes	NWI cla	ssification:			
Are climatic / hydrologic conditions on the site typical for this time $\boldsymbol{\cdot}$			No	(If no, explain in	Remarks.)			
Are Vegetation, Soil, or Hydrologysi	gnificantly	disturbed?	Are "N	Normal Circumstance	es" present?	Yes	X N	o
				eded, explain any ans		•		
SUMMARY OF FINDINGS - Attach site map showi	ng sam	pling poir	nt locations,	, transects, impo	ortant feat	ures, etc.		
Hydrophytic Vegetation Present? Yes No	X	_						
Hydric Soil Present? Yes No	X	ls	the Sampled	Area				
Wetland Hydrology Present? Yes No	X	_ w	ithin a Wetlan	d? Yes	<u> </u>	No X	_	
Domorko								
Remarks:								
VEGETATION - Use scientific names of plants.								
				Dominance Test	worksheet:			
	Absolute	Dominant	Indicator	Number of Domin	nant Species			
Tree Stratum (Plot size: 30 foot radius)	% Cover	Species?	Status	That Are OBL, FA	ACW, or FAC:		2	_ (A)
1. Pinus ponderosa / Yellow pine, Ponderosa pine, Western yel		Yes	FACU					
Pseudotsuga menziesii / Douglas fir	10	Yes	FACU_	Total Number of D			_	<i>-</i> .
3				Species Across A	All Strata:		6	_ (B)
4				Doroont of Domin	ant Chasias			
Continue/Object Objects (Distriction AFF	20	_ = Total Co	over	Percent of Domin That Are OBL, FA	•	2	3.3	(A/B)
Sapling/Shrub Stratum (Plot size: 15ft)	40	V	FACIAL	That Are OBL, FA	ACVV, OI FAC.		5.5	_ (A/D)
Alnus incana / Gray alder Salix scouleriana / Scouler willow, Scouler's willow	<u>40</u> 35	Yes Yes	<u>FACW</u> FAC	Prevalence Inde	x worksheet	:		
Acer macrophyllum / Bigleaf maple, Big-leaf maple	30	Yes	FACU	Total % Cov	er of:	Multi	ply by:	
Symphoricarpos albus / Common snowberry	15	No	FACU	OBL species	0	x 1 =	0	
5.				FACW species	60	x 2 =	120	
	120	= Total Co	over	FAC species	35	x 3 =	105	
Herb Stratum (Plot size: 6 foot radius)		_		FACU species	130	_ x 4 =	520	
1. Elymus glaucus / Blue wildrye, Blue or western wild-rye	65	Yes	FACU	UPL species	0	_ x 5 =	0	
2. Equisetum hyemale / Scouringrush horsetail	13	No	FACW	Column Totals:	225	_ (A)	745	(B)
3. Woodwardia fimbriata / Western chain fern, Giant chain fern	7	No	FACW				0.4	
4				Prevalence	Index = B/A	= 3	.31	
5				Hydrophytic Veg	etation Indi	cators:		
6					st for Hydropl		on	
7					ce Test is >50	-		
8				3 - Prevalence	ce Index ≤3.0	1		
9		_		4 - Morpholo	gical Adaptat	tions¹ (Provid	e suppor	ting
10.				5 - Wetland I	Non-Vascular	Plants¹		
11	85	= Total Co		Problematic	Hydrophytic '	Vegetation¹ (l	Explain)	
Woody Vine Stratum (Plot size: N/A)		_ = 10(a) CC	ovei					
1				¹ Indicators of hyd		•	0,	t
2.	-			be present, unles	s disturbed o	r problematic	-	
	0	= Total Co	over	Hydrophytic				
% Bare Ground in Herb Statum 5				Vegetation				
				Present?	Yes	No	Χ	
				1		 _		
Remarks:								

								001 up
Profile Desc	ription: (Describe to t	the depth nee	eded to document to	ne indicator or confi	rm the abser	ce of indicator	s.)	
Depth	Matrix			x Features			,	
(inches)	Color (moist)	%	Color (moist)	% Type¹	Loc²	Texture	Remarks	
0-8	5 YR 3/2	100				Sandy loam	Shovel refusal rocks at 8	
		_						
							-	
		_						
¹Type: C=Co	ncentration, D=Depletion	on, RM=Redu	ced Matrix, CS=Cove	ered or Coated Sand	 Grains.	²Loca	ation: PL=Pore Lining, M=Matri	X.
	Indicators: (Applicabl						s for Problematic Hydric Soil	
Histosol		e to all Living	Sandy Red	-			cm Muck (A10)	э.
	pipedon (A2)		Stripped M	• •			ed Parent Material (TF2)	
	istic (A3)			cky Mineral (F1) (ex o	ept MLRA 1)		ery Shallow Dark Surface (TF1	2)
—	en Sulfide (A4)			eyed Matrix (F2)	, , , , , , , , , , , , , , , , , , , 		ther (Explain in Remarks)	_,
· ·	d Below Dark Surface ((A11)	Depleted N	• • •			·····/	
	ark Surface (A12)	,		k Surface (F6)		³Indica	tors of hydrophytic vegetation	and
	Mucky Mineral (S1)			Dark Surface (F7)			etland hydrology must be prese	
	Gleyed Matrix (S4)		 -	oressions (F8)		ur	nless disturbed or problematic.	
			<u>—</u>					
_	Layer (if present):							
Type:	\·					Undeia Cail D	waaawt2 Vaa	NI- V
Depth (ir	iches).					Hydric Soil P	resent? Yes	No X
	Large rocks present th							
VDDOL O								
	3Y							
Wetland Hyd	GY drology Indicators:							
Wetland Hyd Primary Indic	GY drology Indicators: cators (minimum of one						dary Indicators (minimum of tw	
Wetland Hyd Primary Indic Surface	drology Indicators: cators (minimum of one Water (A1)		Water-Stai	(xcept		ater-Stained Leaves (B9) (M	
Wetland Hyd Primary Indic Surface High Wa	drology Indicators: cators (minimum of one Water (A1) ater Table (A2)		Water-Stai	1, 2, 4A, and 4B)	xcept	W	ater-Stained Leaves (B9) (M	
Wetland Hyd Primary Indic Surface High Wa	drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3)		Water-Stai MLRA Salt Crust	1, 2, 4A, and 4B) (B11)	xcept	W	ater-Stained Leaves (B9) (M 4A, and 4B) rainage Patterns (B10)	
Wetland Hyd Primary Indic Surface High Wa Saturati Water M	drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1)		Water-Stai MLRA Salt Crust Aquatic Inv	1, 2, 4A, and 4B) (B11) vertebrates (B13)	xcept	W	ater-Stained Leaves (B9) (M 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2)	LRA 1, 2,
Wetland Hyd Primary Indic Surface High Wa Saturati Water M Sedime	drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) farks (B1) nt Deposits (B2)		Water-Stai MLRA Salt Crust Aquatic In	1, 2, 4A, and 4B) (B11) vertebrates (B13) Sulfide Odor (C1)	·	W Di Si	ater-Stained Leaves (B9) (M 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imag	LRA 1, 2,
Wetland Hyd Primary Indic Surface High Wa Saturati Water M Sedime Drift De	drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3)		Water-Stai MLRA Salt Crust Aquatic In Hydrogen Oxidized F	1, 2, 4A, and 4B) (B11) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along Li	·	W Di Si Si 3) X G	ater-Stained Leaves (B9) (M 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Image	LRA 1, 2,
Wetland Hyd Primary Indic Surface High Wa Saturati Water M Sedime Drift De Algal Ma	drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4)		Water-Stai MLRA Salt Crust Aquatic In Hydrogen Oxidized F Presence	1, 2, 4A, and 4B) (B11) vertebrates (B13) Sulfide Odor (C1) thizospheres along Li of Reduced Iron (C4)	ving Roots (C	W Di Si 3) X G Si	ater-Stained Leaves (B9) (M 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Image eomorphic Position (D2) nallow Aquitard (D3)	LRA 1, 2,
Primary Indic Surface High Wa Saturati Water M Sedime Drift De Algal Ma	drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5)		Water-Stai MLRA Salt Crust Aquatic In Hydrogen Oxidized F Presence G Recent Iro	1, 2, 4A, and 4B) (B11) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along Li of Reduced Iron (C4) n Reduction in Tilled 3	ving Roots (C Soils (C6)	W Di Si 3) X G Si Fi	ater-Stained Leaves (B9) (M 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Image eomorphic Position (D2) nallow Aquitard (D3) AC-Neutral Test (D5)	LRA 1, 2,
Wetland Hyd Primary Indic Surface High Wa Saturati Water M Sedime Drift De Algal Ma Iron Dep Surface	drology Indicators: cators (minimum of one) Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6)	required; che	Water-Stai MLRA Salt Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Stunted or	1, 2, 4A, and 4B) (B11) vertebrates (B13) Sulfide Odor (C1) khizospheres along Li of Reduced Iron (C4) n Reduction in Tilled 3 Stressed Plants (D1)	ving Roots (C Soils (C6)	W Di Si 3) X G Si F/ Ri	ater-Stained Leaves (B9) (M 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Image eomorphic Position (D2) nallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR	LRA 1, 2,
Wetland Hyd Primary Indic Surface High Wa Saturati Water M Sedime Drift De Algal Ma Iron Dep Surface	drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5)	required; che	Water-Stai MLRA Salt Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Stunted or	1, 2, 4A, and 4B) (B11) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along Li of Reduced Iron (C4) n Reduction in Tilled 3	ving Roots (C Soils (C6)	W Di Si 3) X G Si F/ Ri	ater-Stained Leaves (B9) (M 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Image eomorphic Position (D2) nallow Aquitard (D3) AC-Neutral Test (D5)	LRA 1, 2,
Wetland Hyd Primary Indic Surface High Wa Saturati Water M Sedime Drift De Algal Ma Iron Dep Surface Inundati Sparsel	drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) ion Visible on Aerial Image y Vegetated Concave S	required; che	Water-Stai MLRA Salt Crust Aquatic In Hydrogen Oxidized F Presence Recent Iro Stunted or	1, 2, 4A, and 4B) (B11) vertebrates (B13) Sulfide Odor (C1) khizospheres along Li of Reduced Iron (C4) n Reduction in Tilled 3 Stressed Plants (D1)	ving Roots (C Soils (C6)	W Di Si 3) X G Si F/ Ri	ater-Stained Leaves (B9) (M 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Image eomorphic Position (D2) nallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR	LRA 1, 2,
Wetland Hyd Primary Indic Surface High Wa Saturati Water M Sedime Drift De Algal Ma Iron De Surface Inundati Sparsel	drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) ion Visible on Aerial Image y Vegetated Concave Sevations:	required; che	Water-Stai MLRA Salt Crust Aquatic In Hydrogen Oxidized F Presence G Recent Iro Stunted or Other (Exp	1, 2, 4A, and 4B) (B11) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along Li of Reduced Iron (C4) In Reduction in Tilled 3 Stressed Plants (D1) Islain in Remarks)	ving Roots (C Soils (C6)	W Di Si 3) X G Si F/ Ri	ater-Stained Leaves (B9) (M 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Image eomorphic Position (D2) nallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR	LRA 1, 2,
Primary Indic Surface High Wa Saturati Water M Sedime Drift De Algal Ma Iron De Surface Inundati Sparsel	drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) ion Visible on Aerial Im- y Vegetated Concave Sevations: er Present?	e required; che agery (B7) Surface (B8)	Water-Stai MLRA Salt Crust Aquatic In Hydrogen Oxidized F Presence of Recent Iro Stunted or Other (Exp	1, 2, 4A, and 4B) (B11) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along Li of Reduced Iron (C4) n Reduction in Tilled 3 Stressed Plants (D1) olain in Remarks)	ving Roots (C Soils (C6)	W Di Si 3) X G Si F/ Ri	ater-Stained Leaves (B9) (M 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Image eomorphic Position (D2) nallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR	LRA 1, 2,
Wetland Hyd Primary Indic Surface High Wa Saturati Water M Sedime Drift De Algal Ma Iron Dep Surface Inundati	drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) ion Visible on Aerial Improved the services of the service	agery (B7) Surface (B8)	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F Presence Recent Iro Stunted or Other (Exp	1, 2, 4A, and 4B) (B11) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along Li of Reduced Iron (C4) n Reduction in Tilled 3 Stressed Plants (D1) olain in Remarks) ches):	ving Roots (C Soils (C6) (LRR A)	W Di Si 3) X G Si F/ Ri	ater-Stained Leaves (B9) (M 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Image eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR rost-Heave Hummocks (D7)	LRA 1, 2,
Wetland Hyde Primary Indice Surface High Water Mater Table	drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) ion Visible on Aerial Image y Vegetated Concave Ser Present? Present?	agery (B7) Surface (B8) Ves N	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F Presence of Recent Iro Stunted or Other (Exp	1, 2, 4A, and 4B) (B11) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along Li of Reduced Iron (C4) n Reduction in Tilled 3 Stressed Plants (D1) olain in Remarks) ches):	ving Roots (C Soils (C6) (LRR A)	W Di Si Si Si Si Si Fi Fi	ater-Stained Leaves (B9) (M 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Image eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR rost-Heave Hummocks (D7)	LRA 1, 2, gery (C9) A)
Wetland Hyder Primary Indices Surface High Water Manager Surface Inundation Sparsely Field Observation Procession of the Surface Water Table Saturation Procession of the Surface Surface Surface Saturation Procession of the Surface	drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) ion Visible on Aerial Image y Vegetated Concave Ser Present? Present?	agery (B7) Surface (B8) /es N /es N	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F Presence of Recent Iro Stunted or Other (Exp	1, 2, 4A, and 4B) (B11) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along Li of Reduced Iron (C4) n Reduction in Tilled 3 Stressed Plants (D1) olain in Remarks) ches): ches):	ving Roots (C Soils (C6) (LRR A)	W	ater-Stained Leaves (B9) (M 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Image eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR rost-Heave Hummocks (D7)	LRA 1, 2, gery (C9) A)
Wetland Hyd Primary Indic Surface High Wa Saturati Water M Sedime Drift De Algal Ma Iron Dep Surface Inundati Sparsel Field Observ Surface Water Table Saturation Pr (includes cap	drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) ion Visible on Aerial Importance y Vegetated Concave Servations: er Present? Present? Yesent? Yesent? Yesent?	agery (B7) Surface (B8) /es N /es N	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F Presence of Recent Iro Stunted or Other (Exp	1, 2, 4A, and 4B) (B11) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along Li of Reduced Iron (C4) n Reduction in Tilled 3 Stressed Plants (D1) olain in Remarks) ches): ches):	ving Roots (C Soils (C6) (LRR A)	W	ater-Stained Leaves (B9) (M 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Image eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR rost-Heave Hummocks (D7)	LRA 1, 2, gery (C9) A)
Wetland Hyder Primary Indices Surface High Water Manager Surface Inundation Sparsely Field Observation Procession of the Surface Water Table Saturation Procession of the Surface Surface Saturation Procession of the Surface Surface Saturation Procession of the Surface Su	drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) ion Visible on Aerial Importance y Vegetated Concave Servations: er Present? Present? Yesent? Yesent? Yesent?	agery (B7) Surface (B8) /es N /es N	Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F Presence of Recent Iro Stunted or Other (Exp	1, 2, 4A, and 4B) (B11) vertebrates (B13) Sulfide Odor (C1) Rhizospheres along Li of Reduced Iron (C4) n Reduction in Tilled 3 Stressed Plants (D1) olain in Remarks) ches): ches):	ving Roots (C Soils (C6) (LRR A)	W	ater-Stained Leaves (B9) (M 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Image eomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR rost-Heave Hummocks (D7)	LRA 1, 2, gery (C9) A)

Project/Site: F	Fountain Wind Project		Citv/Countv:		Burney/Shasta	Sam	pling Date	: 10/	14/2019
Applicant/Owner:			- , - ,		State: Calif				01 wet
Investigator(s):			Section, Tow						
Landform (hillslope, terrace, etc):					ex, none):			Slope ((%): 3
Subregion (LRR):	MLRA 22B	Lat:	40.83	333298	Long: -12			tum:	_
Soil Map Unit Name:	Gasper-Scarface comple	x, moist, 30	to 50 perce	nt slopes	NWI clas				
Are climatic / hydrologic conditions	s on the site typical for this time	of year?	Yes X	No	(If no, explain in	Remarks.)			
Are Vegetation, Soil _ Are Vegetation , Soil	, or Hydrology	significantly	disturbed?	Are "N	Normal Circumstances	s" present?	Yes _	X	No
Are Vegetation, Soil _	, or Hydrology	naturally pro	oblematic?	(If nee	eded, explain any ans	wers in Rema	arks.)		
SUMMARY OF FINDINGS	- Attach site map show	ing samp	pling poin	nt locations,	transects, impo	rtant featu	ures, etc)	
Hydrophytic Vegetation Present	? Yes <u>X</u> N	о							
Hydric Soil Present?		lo		the Sampled	Area				
Wetland Hydrology Present?				rithin a Wetland	d? Yes	X	No		
Remarks: VEGETATION - Use scien	tific names of plants.								
	•				Dominance Test	worksheet:			
		Absolute	Dominant	Indicator	Number of Domin				
Tree Stratum (Plot size:	N/A)	% Cover	Species?	Status	That Are OBL, FA	•		4	(A)
1.							-		<u> </u>
2.		-			Total Number of D	ominant			
3.					Species Across A	ll Strata:		5	(B)
4.									
		0	= Total Co	over	Percent of Domina	•			
Sapling/Shrub Stratum (Plot	size: 15 foot radius)				That Are OBL, FA	CW, or FAC:		80.0	(A/B)
1. Acer circinatum / Vine maple		30	Yes	FAC	Prevalence Index	workshoot:			
2. Salix scouleriana / Scouler w	villow, Scouler's willow	20	Yes	FAC	Total % Cove			Itiply by:	
3. Alnus incana / Gray alder		20	Yes	FACW	OBL species	75	x 1 =	75	
4.					FACW species	20	x 2 =	40	
5		70	= Total Co		FAC species	50	x 3 =	150	
Herb Stratum (Plot size: 6	(foot radius		_ = 10(a) C0	ivei	FACU species	20	x 4 =	80	
Carex utriculata / Beaked se		70	Yes	OBL	UPL species	0	x 5 =	0	
Elymus glaucus / Blue wildry		20	Yes	FACU	Column Totals:	165	(A)	345	(B)
Scirpus microcarpus / Mount		5	No	OBL					
4.	<u> </u>				Prevalence	Index = B/A =	=	2.09	
5.					Hydrophytic Veg	otation India	atoro:		
6.						st for Hydroph		ation	
7					X 2 - Dominano			20011	
8			_		X 3 - Prevalence				
9					4 - Morpholog			ide supp	orting
10		_	_		5 - Wetland N				Ü
11					Problematic I	Hydrophytic V	egetation ¹	(Explain)
	A1/A	95	_ = Total Co	over					
	ze: <u>N/A</u>)				¹ Indicators of hydr	ic soil and we	etland hydr	ology mu	ıst
1					be present, unless	disturbed or	problemat	tic.	
2		0	= Total Co	over	Hydrophytic				
% Bare Ground in Herb Statum			5.0.		Vegetation				
					Present?	Yes	X No		
					1.55				-
Remarks:									

SOIL								Sampling Point:	001 wet
Profile Desc	cription: (Describe to t	he depth nee	eded to document the	ne indicator	or confirm	the absei	nce of indicators.)		
Depth	Matrix	•		x Features			•		
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks	
0-12	7.5 YR 4/1	90	5 YR 4/6	10	C	M	sandy loam		
									_
	_								
	_								
	-								
¹Type: C=Co	oncentration, D=Depletion	n, RM=Redu	ced Matrix, CS=Cove	ered or Coate	d Sand Gr	ains.	² Location	n: PL=Pore Lining, M=Mat	trix.
Hydric Soil	Indicators: (Applicable	to all LRRs	, unless otherwise ı	noted.)			Indicators fo	r Problematic Hydric So	oils³:
Histoso	l (A1)		Sandy Red	dox (S5)			2 cm	Muck (A10)	
Histic E	pipedon (A2)		Stripped M	latrix (S6)			Red F	Parent Material (TF2)	
Black H	listic (A3)		Loamy Mu	cky Mineral (I	F1) (exce _l	pt MLRA 1) Very	Shallow Dark Surface (TF	12)
Hydrog	en Sulfide (A4)		Loamy Gle	yed Matrix (F	⁻ 2)		Other	(Explain in Remarks)	
Deplete	ed Below Dark Surface (A11)	X Depleted N	//atrix (F3)					
Thick D	ark Surface (A12)		Redox Dar	k Surface (F6	3)		³ Indicators	of hydrophytic vegetation	n and
Sandy I	Mucky Mineral (S1)		Depleted D	Oark Surface	(F7)		wetla	nd hydrology must be pre	sent,
Sandy (Gleyed Matrix (S4)		Redox Dep	oressions (F8)		unles	s disturbed or problemation	C.
Restrictive	Layer (if present):								
Depth (ir	nches):						Hydric Soil Pres	ent? Yes X	No
	, <u> </u>						,		
HYDROLOG									
	drology Indicators:		alcall that amply				Casandan	· la dia atawa (wainiwa.wa af t	
	cators (minimum of one	required; che		ned Leaves (P0) (ava	ont		· Indicators (minimum of t ·-Stained Leaves (B9) (I	
	e Water (A1) ater Table (A2)			ned Leaves(1, 2, 4A, and	, .	ері		-stained Leaves (B9) (I	WILKA 1, 2,
	ion (A3)		Salt Crust		40)			age Patterns (B10)	
	Marks (B1)			(ВТТ) /ertebrates (Е	213)			eason Water Table (C2)	
	ent Deposits (B2)			Sulfide Odor				ation Visible on Aerial Ima	agery (C9)
	eposits (B3)			Rhizospheres	. ,	na Roots (C		norphic Position (D2)	agory (oo)
	at or Crust (B4)			of Reduced Ir	-	.9 (0		ow Aquitard (D3)	
	posits (B5)			n Reduction i	. ,	ils (C6)		Neutral Test (D5)	
	Soil Cracks (B6)			Stressed Pla		` ,		d Ant Mounds (D6) (LRI	R A)
	tion Visible on Aerial Ima	agery (B7)		lain in Rema		(=:::-,		Heave Hummocks (D7)	,,
	ly Vegetated Concave S	. ,			,			(= , ,	
Field Obser	vations:								
Surface Wat	er Present? Y	es X N	o Depth (in	ches):	.5				
Water Table	Present? Y	es N	o Depth (in	· —		-			
Saturation P	resent? Y	es X N			0	Wetla	nd Hydrology Pres	ent? Yes X	No
(includes cap	pillary fringe)		,	,					
Describe Re	corded Data (stream ga	uge, monitori	ng well, aerial photos	s, previous in	spections),	, if available	ə:		
Remarks:									

Project/Site:	Fountain Wind Project		City/Count			Purnov/Shoeta		Compline	a Data:	10/1	5/2010
Project/Site: I Applicant/Owner:			City/County	.y		Burney/Shasta State:					
Investigator(s):			Section To	ownehin				T34N R2E			z up
Landform (hillslope, terrace, etc):							CAZI	010	2 3110	lone (%	(1) 3
Subregion (LRR): Soil Map Unit Name:										1. <u>V</u>	VG304
Are climatic / hydrologic condition	is on the site typical for this time	or year?	Yes X		NO	(If no, expla	ain in Remark	S.)	V \	/ NI	_
Are Vegetation, Soil _	, or Hydrology	significantiy	/ aisturbea?	?	Are "N	iormai Circumsi	ances" prese	nt?	Yes X	<u> </u>	o
Are Vegetation, Soil _											
SUMMARY OF FINDINGS	-			int loc	ations,	transects, i	mportant	reature	s, etc.		
Hydrophytic Vegetation Presen											
Hydric Soil Present?	Yes N	o <u>X</u>	_	Is the S	Sampled A	Area					
Wetland Hydrology Present?	Yes N	o <u>X</u>	_	within a	a Wetland	l?	Yes	No	X	_	
Remarks:			1								
VEGETATION - Use scien	tific names of plants.					1					
						Dominance	Test worksh	eet:			
		Absolute	Dominar	nt Ind	licator	Number of D	ominant Spe	cies			
Tree Stratum (Plot size:	N/a)	% Cover	Species'	? Sta	atus	That Are OB	L, FACW, or	FAC:	0)	(A)
2.						Total Numbe	r of Dominan	t			
						Species Acro	oss All Strata	:	2	2	(B)
4.									·		_
		0	= Total C	Cover		Percent of D	ominant Spe	cies			
Sapling/Shrub Stratum (Plot	size: N/a)		_			That Are OB	L, FACW, or	FAC:	0.	0	(A/B)
1											_
						Prevalence	Index works	heet:			
2. 3.						Total %	Cover of:		Multipl	y by:	
4						OBL species	. 0	x	1 =	0	
5						FACW speci	es0	x	2 =	0	
o			= Total C	Cover		FAC species	. 0	x	3 =	0	
Herb Stratum (Plot size: 6	S feet radius)			50101		FACU specie	es60	x	4 =	240	
Hypericum perforatum / Klar		25	Yes		FACU	UPL species	0		5 =	0	
Plantago lanceolata / Ribwo		15	Yes		FACU	Column Tota	ıls: 60	(<i>F</i>	A)	240	(B)
Achillea millefolium / Yarrow	, 	10	No		FACU						
4. Anthoxanthum odoratum / S		10	No		FACU	Preval	ence Index =	B/A =	4.	0	
5.	weet vernal grass				ACO						<u></u>
6.							c Vegetation				
-							id Test for Hy		Vegetatio	n	
8.						2 - Dom	ninance Test i	s >50%			
9.						3 - Prev	alence Index	≤3.0¹			
							ohological Ad			suppor	ting
		_				5 - Wetl	and Non-Vas	cular Plar	nts¹		
11.						Problem	natic Hydroph	ytic Vege	tation¹ (E	xplain)	
		60	= Total C	Jover							
Woody Vine Stratum (Plot si						¹Indicators o	f hydric soil a	nd wetlan	ıd hydrolo	gy mus	t
1		_				be present, ι	unless disturb	ed or pro	blematic.		
2											
		0	= Total C	Cover		Hydrophytic	C				
% Bare Ground in Herb Statum	45					Vegetation					
						Present?	Yes	s	_ No	X	
						1					
Remarks:											

SOIL								Sampling Point:	002 up
Profile Desc	cription: (Describe to	the depth need	ed to document th	ne indicator or co	onfirm	the absen	ce of indicators.)		
Depth	Matrix			c Features			· · · · · · · · · · · · · · · · · · ·		
(inches)	Color (moist)	%	Color (moist)	% Ty	/pe¹	Loc²	Texture	Remarks	
0-6	10 YR 3/2	100	•	- <u> </u>			loam		
6-12	10 YR 5/2	70		- <u> </u>			Loam		
6-12	10 YR 4/2	30		- <u> </u>			Loam		
_				- <u></u>					
				·					
¹Type: C=Co	ncentration, D=Depleti	ion, RM=Reduce	ed Matrix, CS=Cove	ered or Coated Sa	nd Grai	ins.	²Location:	PL=Pore Lining, M=Matr	ix.
Hydric Soil	Indicators: (Applicab	le to all LRRs, ເ	unless otherwise r	noted.)			Indicators for	Problematic Hydric Soi	ls³:
Histosol	I (A1)		Sandy Red	lox (S5)			2 cm N	Лuck (A10)	
Histic E	pipedon (A2)		Stripped M	atrix (S6)			Red P	arent Material (TF2)	
Black H	istic (A3)		Loamy Mu	cky Mineral (F1)	(except	MLRA 1)	Very S	hallow Dark Surface (TF1	12)
Hydroge	en Sulfide (A4)		Loamy Gle	yed Matrix (F2)			Other	(Explain in Remarks)	
Deplete	d Below Dark Surface	(A11)	Depleted M	latrix (F3)					
Thick D	ark Surface (A12)		Redox Dar	k Surface (F6)			³ Indicators	of hydrophytic vegetation	and
Sandy N	Mucky Mineral (S1)		Depleted D	ark Surface (F7)			wetlan	d hydrology must be pres	ent,
Sandy 0	Gleyed Matrix (S4)		Redox Dep	ressions (F8)			unless	disturbed or problematic	•
Restrictive I	Layer (if present):								
Type:									
Depth (ir	nches):						Hydric Soil Prese	ent? Yes	No X
	, <u> </u>								
Remarks:									
HYDROLOG	3Y								
Wetland Hvo	drology Indicators:								
_	cators (minimum of one	e required: check	k all that apply)				Secondary	Indicators (minimum of tw	o required)
	Water (A1)			ned Leaves (B9)	(exce	pt		Stained Leaves (B9) (N	
	ater Table (A2)			1, 2, 4A, and 4B)				, and 4B)	, ,
Saturati	, ,		Salt Crust (•				ge Patterns (B10)	
Water M	Marks (B1)			rertebrates (B13)				eason Water Table (C2)	
	nt Deposits (B2)		Hydrogen S	Sulfide Odor (C1)			Satura	tion Visible on Aerial Ima	gery (C9)
	posits (B3)		Oxidized R	hizospheres alon	g Living	Roots (C3	B) Geom	orphic Position (D2)	
	at or Crust (B4)			of Reduced Iron (C				w Aquitard (D3)	
Iron De	posits (B5)			n Reduction in Till		s (C6)	FAC-N	leutral Test (D5)	
Surface	Soil Cracks (B6)		Stunted or	Stressed Plants (D1) (LRR A)	Raised	d Ant Mounds (D6) (LRR	A)
 Inundati	ion Visible on Aerial Im	nagery (B7)	Other (Exp	lain in Remarks)			Frost-l	Heave Hummocks (D7)	
Sparsel	y Vegetated Concave	Surface (B8)					<u>—</u>		
F: 1101									
Field Observ		V N-	V D	-11- 4					
Surface Water		Yes No	X Depth (in	·					
Water Table Saturation P		Yes No	X Depth (in	, 		\N/a4la-	d Hydrology Drass	ont? Voc	No. V
		Yes No	X Depth (in	ches): 12		vvetian	d Hydrology Prese	ent? Yes	No X
(includes cap	omary minge)								
Describe Red	corded Data (stream g	auge, monitoring	g well, aerial photos	, previous inspect	tions), i	f available:			
			-	-	•				
Dame !									
Remarks:									

Project/Site: Fo	ountain Wind Project	(Citv/Countv:		Burney/Shasta	Sam	pling Date:	10/	15/2019
Applicant/Owner:		LC	, ,		State: Califo				2 wet
			Section, Tow			CA21 T34N	-		
Landform (hillslope, terrace, etc):									%): 3
Subregion (LRR):		Lat:	40.828	80169	Long: -121	.787656		tum:	
Soil Map Unit Name:		m, 0 to 8 pe	rcent slopes	(NbB)	NWI clas	sification:			
Are climatic / hydrologic conditions					(If no, explain in F				
Are Vegetation, Soil	, or Hydrologys	significantly	disturbed?	Are "l	Normal Circumstances	" present?	Yes _	1 X	No
Are Vegetation, Soil	X , or Hydrologyr	naturally pro	blematic?	(If nee	eded, explain any ansv	wers in Rema	arks.)		
SUMMARY OF FINDINGS	 Attach site map show 	ing samp	oling poin	t locations,	, transects, impo	rtant featı	ures, etc	<u>}-</u>	
Hydrophytic Vegetation Present?	Yes X N	o							
Hydric Soil Present?		0		the Sampled	Area				
Wetland Hydrology Present?				ithin a Wetland	d? Yes	X	No		
Remarks: VEGETATION - Use scient	ific names of plants.		•						
	•				Dominance Test v	worksheet:			
		Absolute	Dominant	Indicator	Number of Domina				
Tree Stratum (Plot size:	N/a)	% Cover	Species?	Status	That Are OBL, FAC	•		1	(A)
1.									
2.					Total Number of Do	ominant			
3.					Species Across All	Strata:		1	(B)
4									
		0	= Total Co	ver	Percent of Domina	•			
Sapling/Shrub Stratum (Plot s					That Are OBL, FAC	CW, or FAC:		100.0	(A/B)
1.					Prevalence Index	worksheet:			
2.					Total % Cove			Itiply by:	
3.					OBL species	80	x 1 =	80	
					FACW species	15	x 2 =	30	
5		0	= Total Co	wer	FAC species	0	x 3 =	0	
Herb Stratum (Plot size: 6	feet radius \		_ = 10tai 00	vei	FACU species	10	x 4 =	40	
Carex utriculata / Beaked sed		80	Yes	OBL	UPL species	0	x 5 =	0	
Juncus effusus / Common bo		15	No	FACW	Column Totals:	105	(A)	150	(B)
Anthoxanthum odoratum / Sw	• •	10	No	FACU					
4.	<u> </u>	- ·			Prevalence I	ndex = B/A =	·	1.43	
5.					Hydrophytic Vege	-tation India			
6.					1 - Rapid Test			ation	
7.					X 2 - Dominance			шоп	
8					X 3 - Prevalence				
9					4 - Morpholog			ide suppo	ortina
10					5 - Wetland N				Ü
11.					Problematic H	lydrophytic V	′egetation¹	(Explain))
		105	_ = Total Co	ver					
Woody Vine Stratum (Plot size					¹ Indicators of hydri	c soil and we	tland hydr	ology mu	st
1.					be present, unless	disturbed or	problemat	ic.	
2			= Total Co		Unada a bastia				
% Bare Ground in Herb Statum	0		10(a) 00	v CI	Hydrophytic Vegetation				
Daio Ground III Florid Oldium					Present?	Yes	X No		
					110361111	103			
Remarks:									

OIL								Sampling Point: 002 wet
Profile Desc	cription: (Describe to t	the depth ne	eded to document th	e indicator	or confirm	the abse	nce of indicator	s.)
Depth	Matrix		Redox	Features			-	
(inches)	Color (moist)	<u></u> %	Color (moist)	<u></u> %	Type ¹	Loc²	Texture	Remarks
0-5	7.5 YR 3/3	100			- ——		Silty clay loam	
5-12	10 YR 4/1	58	5 YR 5/8	2	C	M	Silty clay loam	
5-12	10 YR 5/2	40			·		Silty clay loam	Soft manganese masses at 3%
							·	
¹Type: C=Co	ncentration, D=Depletic	on, RM=Redu	ced Matrix, CS=Cove	red or Coat	ed Sand Gra	ains.	²Loca	tion: PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators: (Applicable	e to all LRRs	, unless otherwise n	oted.)			Indicators	s for Problematic Hydric Soils ³ :
Histoso	I (A1)		Sandy Red	ox (S5)			2	cm Muck (A10)
Histic E	pipedon (A2)		Stripped M	atrix (S6)				ed Parent Material (TF2)
	istic (A3)		Loamy Mud	cky Mineral	(F1) (excep	ot MLRA 1	1) Ve	ery Shallow Dark Surface (TF12)
Hydroge	en Sulfide (A4)			yed Matrix ((F2)		<u>X</u> Of	ther (Explain in Remarks)
Deplete	d Below Dark Surface ((A11)	Depleted M	` ,				
	ark Surface (A12)			k Surface (F	,			tors of hydrophytic vegetation and
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7)						wetland hydrology must be present,		
Sandy 0	Gleyed Matrix (S4)		Redox Dep	ressions (F	8)		ur	nless disturbed or problematic.
Restrictive	aver (if precent).							
Type:	Layer (if present):		<u></u>				Hydric Soil P	resent? Yes X No
Type: Depth (ir	nches):			seasonally	ponded soil:	s. Positive		resent? Yes X No
Type: Depth (ir Remarks:	Problematic soil; as pe presence of hydrology			seasonally	ponded soil:	s. Positive		
Type:	Problematic soil; as pe presence of hydrology			seasonally	ponded soil	s. Positive		
Type:	Problematic soil; as pe presence of hydrology GY drology Indicators: cators (minimum of one	and hydroph	ytic veg.				e for alpha-alpha l	Dipyridyl test. Assume Hydric soils due to
Type:	Problematic soil; as pe presence of hydrology GY drology Indicators: cators (minimum of one Water (A1)	and hydroph	ytic veg. eck all that apply) Water-Stair	ned Leaves	(B9) (exc		e for alpha-alpha l	Dipyridyl test. Assume Hydric soils due to dary Indicators (minimum of two required) fater-Stained Leaves (B9) (MLRA 1, 2,
Type:	Problematic soil; as pe presence of hydrology GY drology Indicators: cators (minimum of one Water (A1) ater Table (A2)	and hydroph	eck all that apply) Water-Stair MLRA 1	ned Leaves I, 2, 4A, and	(B9) (exc		e for alpha-alpha l	Dipyridyl test. Assume Hydric soils due to dary Indicators (minimum of two required) ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)
Type:	Problematic soil; as pe presence of hydrology GY drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3)	and hydroph	eck all that apply) Water-Stair MLRA 1 Salt Crust (ned Leaves I, 2, 4A, an d B11)	(B9) (exc o		e for alpha-alpha l	Dipyridyl test. Assume Hydric soils due to dary Indicators (minimum of two required) fater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10)
Type:	Problematic soil; as pe presence of hydrology GY drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1)	and hydroph	eck all that apply) Water-Stair MLRA 1 Salt Crust (Aquatic Inv	ned Leaves I, 2, 4A, an B11) ertebrates ((B9) (exc od 4B)		Second W Dr	Dipyridyl test. Assume Hydric soils due to dary Indicators (minimum of two required) fater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) frainage Patterns (B10) fry-Season Water Table (C2)
Type:	Problematic soil; as pe presence of hydrology GY drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2)	and hydroph	eck all that apply) Water-Stair MLRA 1 Salt Crust (Aquatic Inv Hydrogen S	ned Leaves I, 2 , 4A , an B11) ertebrates (Sulfide Odol	(B9) (excd d 4B) B13)	ept	Second W Dr X Sa	Dipyridyl test. Assume Hydric soils due to dary Indicators (minimum of two required) rater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9)
Type:	Problematic soil; as pe presence of hydrology GY drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3)	and hydroph	eck all that apply) Water-Stain MLRA 1 Salt Crust (Aquatic Inv Hydrogen S X Oxidized R	ned Leaves I, 2, 4A, and B11) ertebrates (Sulfide Odor hizospheres	(B9) (excd 4B) B13) r (C1) s along Livin	ept	Second W	Dipyridyl test. Assume Hydric soils due to dary Indicators (minimum of two required) rater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) eomorphic Position (D2)
Type:	Problematic soil; as perpresence of hydrology GY drology Indicators: cators (minimum of one) Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4)	and hydroph	eck all that apply) Water-Stain MLRA 1 Salt Crust (Aquatic Inv Hydrogen S X Oxidized R X Presence of	ned Leaves I, 2, 4A, and B11) ertebrates (Sulfide Odor hizospheres	(B9) (exce d 4B) B13) r (C1) s along Livin Iron (C4)	ept ng Roots (0	Second W	Dipyridyl test. Assume Hydric soils due to dary Indicators (minimum of two required) ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) eemorphic Position (D2) nallow Aquitard (D3)
Type:	Problematic soil; as pe presence of hydrology GY drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5)	and hydroph	eck all that apply) Water-Stain MLRA 1 Salt Crust (Aquatic Inv Hydrogen S X Oxidized R X Presence co Recent Iror	ned Leaves I, 2, 4A, and B11) ertebrates (Sulfide Odor hizospheres of Reduced in Reduction	(B9) (exceed 4B) (B13) (C1) s along Livin Iron (C4) in Tilled Soi	ept ng Roots (0	Second W	dary Indicators (minimum of two required) ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) ecomorphic Position (D2) nallow Aquitard (D3) AC-Neutral Test (D5)
Type:	Problematic soil; as pe presence of hydrology GY drology Indicators: cators (minimum of one Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6)	required; che	eck all that apply) Water-Stair MLRA 1 Salt Crust (Aquatic Inv Hydrogen S X Oxidized R X Presence of Recent Iror Stunted or	ned Leaves I, 2, 4A, and B11) ertebrates (Gulfide Odor hizospheres of Reduced n Reduction Stressed Pl	(B9) (exceed 4B) (B13) (C1) (B13) (C1) (B13) (C2) (B13) (C1) (C3) (C4) (C4) (C4) (C4) (C5) (C6) (C6) (C6) (C6) (C7) (C7)	ept ng Roots (0	Second W	Dipyridyl test. Assume Hydric soils due to dary Indicators (minimum of two required) fater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) faturation Visible on Aerial Imagery (C9) feomorphic Position (D2) fallow Aquitard (D3) fac-Neutral Test (D5) faised Ant Mounds (D6) (LRR A)
Type:	Problematic soil; as perpresence of hydrology GY drology Indicators: cators (minimum of one water (A1) eter Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) ion Visible on Aerial Image	required; che	eck all that apply) Water-Stair MLRA 1 Salt Crust (Aquatic Inv Hydrogen S X Oxidized R X Presence of Recent Iror Stunted or	ned Leaves I, 2, 4A, and B11) ertebrates (Sulfide Odor hizospheres of Reduced in Reduction	(B9) (exceed 4B) (B13) (C1) (B13) (C1) (B13) (C2) (B13) (C1) (C3) (C4) (C4) (C4) (C4) (C5) (C6) (C6) (C6) (C6) (C7) (C7)	ept ng Roots (0	Second W	dary Indicators (minimum of two required) ater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) ecomorphic Position (D2) nallow Aquitard (D3) AC-Neutral Test (D5)
Type:	Problematic soil; as perpresence of hydrology GY drology Indicators: cators (minimum of one water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) ion Visible on Aerial Imagy Vegetated Concave S	required; che	eck all that apply) Water-Stair MLRA 1 Salt Crust (Aquatic Inv Hydrogen S X Oxidized R X Presence of Recent Iror Stunted or	ned Leaves I, 2, 4A, and B11) ertebrates (Gulfide Odor hizospheres of Reduced n Reduction Stressed Pl	(B9) (exceed 4B) (B13) (C1) (B13) (C1) (B13) (C2) (B13) (C1) (C3) (C4) (C4) (C4) (C4) (C5) (C6) (C6) (C6) (C6) (C7) (C7)	ept ng Roots (0	Second W	Dipyridyl test. Assume Hydric soils due to dary Indicators (minimum of two required) fater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) faturation Visible on Aerial Imagery (C9) feomorphic Position (D2) fallow Aquitard (D3) fac-Neutral Test (D5) faised Ant Mounds (D6) (LRR A)
Type:	Problematic soil; as perpresence of hydrology GY drology Indicators: cators (minimum of one) Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) ion Visible on Aerial Imagy Vegetated Concave Sevations:	required; che	eck all that apply) Water-Stair MLRA 1 Salt Crust (Aquatic Inv Hydrogen S X Oxidized R X Presence of Recent Iror Stunted or Other (Exp	ned Leaves I, 2, 4A, and B11) ertebrates (Sulfide Odol hizospheres of Reduced in Reduction Stressed Pl Jain in Rema	(B9) (exceed 4B) (B13) (C1) (C1) (C2) (C4) (C4) (C4) (C7) (C4) (C7) (C7) (C7) (C8)	ept ng Roots (0	Second W	Dipyridyl test. Assume Hydric soils due to dary Indicators (minimum of two required) fater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) faturation Visible on Aerial Imagery (C9) feomorphic Position (D2) fallow Aquitard (D3) fac-Neutral Test (D5) faised Ant Mounds (D6) (LRR A)
Type:	Problematic soil; as perpresence of hydrology GY drology Indicators: cators (minimum of one) Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) ion Visible on Aerial Imagy Vegetated Concave Servations: er Present?	and hydrophy required; che agery (B7) Surface (B8)	eck all that apply) Water-Stair MLRA 1 Salt Crust (Aquatic Inv Hydrogen S X Oxidized R X Presence of Recent Iror Stunted or Other (Exp	ned Leaves I, 2, 4A, and B11) ertebrates (Sulfide Odol hizospheres of Reduced in Reduction Stressed Pl lain in Rema	(B9) (exceed 4B) (B13) (C1) (B13) (C1) (B13) (C2) (B13) (C1) (C3) (C4) (C4) (C4) (C4) (C5) (C6) (C6) (C6) (C6) (C7) (C7)	ept ng Roots (0	Second W	Dipyridyl test. Assume Hydric soils due to dary Indicators (minimum of two required) fater-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) faturation Visible on Aerial Imagery (C9) feomorphic Position (D2) fallow Aquitard (D3) fac-Neutral Test (D5) faised Ant Mounds (D6) (LRR A)
Type:	Problematic soil; as perpresence of hydrology GY drology Indicators: cators (minimum of one) Water (A1) ater Table (A2) on (A3) Marks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) ion Visible on Aerial Imagy Vegetated Concave Servations: er Present? Y	and hydrophy required; che agery (B7) Surface (B8) YesN	eck all that apply) Water-Stair MLRA 1 Salt Crust (Aquatic Inv Hydrogen S X Oxidized R X Presence of Recent Iror Stunted or Other (Exp	ned Leaves I, 2, 4A, and B11) ertebrates (Sulfide Odor hizospheres of Reduction Stressed Pl lain in Rema	(B9) (exceed 4B) (B13) (C1) (C1) (C2) (C4) (C4) (C4) (C7) (C4) (C7) (C7) (C7) (C8)	ept ig Roots (fils (C6) (LRR A)	Second W	Dipyridyl test. Assume Hydric soils due to dary Indicators (minimum of two required) atter-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imagery (C9) eemorphic Position (D2) nallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)

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

Remarks:

Project/Site:	Fountain Wind Project		Citv/County	:	Burney/Shasta	Sam	pling Date:	10/1	5/2019
Applicant/Owner:			on,, oounn,	·	State: Calif				62 up
Investigator(s):			Section, Tov			CA21 T34N			
Landform (hillslope, terrace, etc):					ex, none):	concave		Slope (%	6): 1
Subregion (LRR):		Lat:			Long: -12°			m: <u>V</u>	
Soil Map Unit Name:		y sandy loa							
Are climatic / hydrologic condition	is on the site typical for this time	e of year?	Yes X	No	(If no, explain in	Remarks.)			
Are Vegetation, Soil _	or Hydrology	significantly	disturbed?	Are "N	Normal Circumstances		Yes	<u>X</u> N	lo
Are Vegetation, Soil _		-		•	eded, explain any ans		,		
SUMMARY OF FINDINGS	- Attach site map show	ving sam	pling poir	nt locations,	transects, impo	rtant feat	ures, etc.		
Hydrophytic Vegetation Presen									
Hydric Soil Present?	Yes N	10 X	_ !:	s the Sampled					
Wetland Hydrology Present?	Yes N	√o X	_	vithin a Wetland	d? Yes		No X	_	
Remarks:									
remarks.									
VECETATION . Her seiem	tific names of plants								
VEGETATION - Use scien	itine names of plants.				1				
					Dominance Test				
		Absolute	Dominant		Number of Domin	•			
Tree Stratum (Plot size: 3		% Cover	Species?		That Are OBL, FA	CW, or FAC:		1	_ (A)
1. Pseudotsuga menziesii / Do		50	Yes Yes	FACU	Tatal Nameh an of D				
2. Populus tremuloides / Quak	· '	40	Yes	FACU	Total Number of D			7	(D)
				<u> </u>	Species Across A	ıı Sırata:	-	7	_ (B)
4		90	- Total Co		Percent of Domina	ant Snacies			
Sapling/Shrub Stratum (Plot	sizo: 15 foot radius \	90	_ = Total Co	over	That Are OBL, FA	•	1	4.3	(A/B)
1. Cornus nuttallii / Mountain d		25	Yes	FACU	THAT THE OBE, 170			1.0	_ (/ (/)/
Acer circinatum / Vine maple			Yes	FAC	Prevalence Index	worksheet:			
Rubus parviflorus / Thimble		10	Yes	FACU	Total % Cove	er of:	Multi	ply by:	
4.					OBL species	0	x 1 =	0	
5.		—			FACW species	0	x 2 =	0	
		50	= Total Co	over	FAC species	15	x 3 =	45	
Herb Stratum (Plot size:	6 foot radius)				FACU species	125	_ x 4 =	500	
Lathyrus latifolius / Sweet per	ea, Perennial sweet pea	2	Yes		UPL species	0	_ x 5 =	0	
2. Bromus carinatus / Californi	a bromegrass	1	Yes		Column Totals:	140	_ (A)	545	(B)
3					Dravalanaa	Indox - D/A -		00	
4					Prevalence	Index = B/A =	- 3	.89	_
5					Hydrophytic Veg	etation Indic	ators:		
					1 - Rapid Tes			on	
7					2 - Dominano	e Test is >50	%		
8.				<u> </u>	3 - Prevalenc	e Index ≤3.0°	1		
9.					4 - Morpholog	gical Adaptati	ons¹ (Provid	e suppor	rting
10.		_	_		5 - Wetland N	lon-Vascular	Plants ¹		
11		3	= Total Co		Problematic I	Hydrophytic \	/egetation1 (F	Explain)	
Woody Vine Stratum (Plot si	ze:)		_ = 10tai Ct	ovei					
1	· · · · · · · · · · · · · · · · · · ·				¹ Indicators of hydr		•	0,	st
2.				<u> </u>	be present, unless	s disturbed or	problematic	-	
		0	= Total Co	over	Hydrophytic				
% Bare Ground in Herb Statum	n 95		_		Vegetation				
					Present?	Yes	No	Χ	
					1				
Remarks:									

SOIL							Sampling Point	:052 up
Profile Desc	cription: (Describe	to the depth nee	ded to document ti	ne indicator or confir	m the abser	nce of indicato	rs.)	
Depth	Matrix			x Features			,	
(inches)	Color (moist)	%	Color (moist)	% Type¹	Loc²	Texture	Remarks	
0-4	5 YR 3/1	100	, ,			Loamy sand		
4-16	5 YR 3/3	100				Sand	Small gravel throughout.	
	- 	 -		- 	 		·. 	
Type: C=Co	ncentration, D=Depl	etion, RM=Reduc	ced Matrix, CS=Cove	ered or Coated Sand (erains.	-Loca	ation: PL=Pore Lining, M=N	/latrix.
Hydric Soil	Indicators: (Application	able to all LRRs,	unless otherwise	noted.)		Indicator	s for Problematic Hydric	Soils³:
Histoso	• •		Sandy Red	` '			cm Muck (A10)	
Histic E	pipedon (A2)		Stripped M				Red Parent Material (TF2)	
	listic (A3)			cky Mineral (F1) (exc	ept MLRA 1		ery Shallow Dark Surface (TF12)
	en Sulfide (A4)			eyed Matrix (F2)		0	Other (Explain in Remarks)	
	ed Below Dark Surface	ce (A11)	Depleted N	, ,				
	ark Surface (A12)			k Surface (F6)			ators of hydrophytic vegetat	
	Mucky Mineral (S1)			Dark Surface (F7)			etland hydrology must be p	
Sandy (Gleyed Matrix (S4)		Redox Dep	oressions (F8)		u	nless disturbed or problema	atic.
Restrictive	Layer (if present):							
Type:								
Depth (ir	nches):					Hydric Soil F	Present? Yes	No X
Remarks:								
HYDROLOG	GY							
	drology Indicators:							
	cators (minimum of c		ck all that apply)			Secon	dary Indicators (minimum c	of two required)
	Water (A1)	ono roquirou, ono		ned Leaves (B9) (ex	cept		Vater-Stained Leaves (B9)	
	ater Table (A2)			1, 2, 4A, and 4B)	ССР		4A, and 4B)	(, _,
	ion (A3)		Salt Crust	· · · · · · · · · · · · · · · · · · ·		D	Prainage Patterns (B10)	
	Marks (B1)			vertebrates (B13)			0ry-Season Water Table (C2	2)
Sedime	ent Deposits (B2)			Sulfide Odor (C1)			saturation Visible on Aerial I	,
	posits (B3)			Rhizospheres along Liv	ing Roots (C	(3) X G	Geomorphic Position (D2)	5 , ()
Algal M	at or Crust (B4)		Presence of	of Reduced Iron (C4)	,		shallow Aquitard (D3)	
Iron De	posits (B5)		Recent Iro	n Reduction in Tilled S	Soils (C6)	F.	AC-Neutral Test (D5)	
Surface	Soil Cracks (B6)		Stunted or	Stressed Plants (D1)	(LRR A)	R	Raised Ant Mounds (D6) (L	RR A)
 Inundat	ion Visible on Aerial	Imagery (B7)	Other (Exp	lain in Remarks)		F	rost-Heave Hummocks (D7	")
Sparsel	ly Vegetated Concav	re Surface (B8)				_		
Field Obser	vations:							
Surface Water	er Present?	Yes No	X Depth (in	ches):				
Water Table	Present?	Yes No		· 	_			
Saturation P		Yes No		· 	Wetla	nd Hydrology I	Present? Yes	No X
(includes cap		· 	`	• -	_	,		
Describe Re	corded Data (stream	gauge monitorin	ng well aerial photos	s, previous inspections) if available	j.		
2 3331100 110		. 3.4.30, momon	.g .re, aeriai priotoc	., _F . 5	,,			
- Domorko:								
Remarks:								

Project/Site: F	Fountain Wind Project		Citv/Countv:	: 1	Burney/Shasta	Sarr	npling Date:	: 10/	16/2019
Applicant/Owner:	Fountain Wind,		, ,		State: Cali				153 up
Investigator(s):	JI Holson & B. Cohen		Section, Tow					_	
Landform (hillslope, terrace, etc):					ex, none):			Slope ((%): 30
Subregion (LRR):		Lat:	40.78	578697	Long: -12			tum:	
Soil Map Unit Name:	Windy and McCarthy very stor	ny sandy loai	ms, 30 to 50	percent slopes	NWI cla	assification:			
Are climatic / hydrologic condition	s on the site typical for this tim	e of year?	Yes X	No	(If no, explain in	Remarks.)			
Are climatic / hydrologic condition. Are Vegetation , Soil Are Vegetation , Soil	, or Hydrology	significantly	disturbed?	Are "l	Normal Circumstance	es" present?	Yes _	Χ	No
Are Vegetation, Soil _	, or Hydrology	naturally pro	oblematic?	(If nea	eded, explain any an	swers in Rem	arks.)		
SUMMARY OF FINDINGS	- Attach site map show	ving sam _l	pling poir	nt locations,	, transects, imp	ortant feat	ures, etc	· *-	
Hydrophytic Vegetation Present	? Yes 1	No X	_						
Hydric Soil Present?	Yes 1	No X	Is	the Sampled	Area				
Wetland Hydrology Present?	Yes 1	No X	_ w	ithin a Wetlan	d? Yes	s	No X		
Remarks:			1						
VEGETATION - Use scien	tific names of plants.								
					Dominance Test	t worksheet:			
		Absolute	Dominant	Indicator	Number of Domir	nant Species			
Tree Stratum (Plot size: 3		% Cover	Species?	Status	That Are OBL, FA	ACW, or FAC:		1	(A)
1. Pseudotsuga menziesii / Do	0	45	Yes	FACU					
2. Calocedrus decurrens / Ince		15	Yes		Total Number of I				
3. <u>Cornus nuttallii / Mountain de</u>	ogwood	5	No	FACU	Species Across A	शा Strata:		4	(B)
4		65			Percent of Domir	ant Species			
Sapling/Shrub Stratum (Plot	eize: 15 foot radius \	03	_ = Total Co	ovei	That Are OBL, FA	•		25.0	(A/B)
1. Acer circinatum / Vine maple		20	Yes	FAC					_ (,,,,,
Cornus nuttallii / Mountain de		20	Yes	FACU	Prevalence Inde	x worksheet	:		
3.	<u> </u>			17.00	Total % Cov	ver of:	Mul	Itiply by:	
			-		OBL species	0	x 1 =	0	
5.					FACW species	0	x 2 =	0	
		40	= Total Co	over	FAC species	20	_ x 3 =	60	
Herb Stratum (Plot size:	N/A)		_		FACU species	70	_ x 4 =	280	
1.			_		UPL species	0	_ x5=	0	(5)
2					Column Totals:	90	_ (A)	340	(B)
3					Drevelence	leday = D/A	_	2.70	
4					Prevalence	e Index = B/A :		3.78	
5					Hydrophytic Veg	getation Indic	cators:		
					1 - Rapid Te	st for Hydroph	nytic Vegeta	ation	
7					2 - Dominan	nce Test is >50)%		
8.					3 - Prevalen	ice Index ≤3.0	,1		
9.						ogical Adaptat		ide supp	orting
10.						Non-Vascular			
11			= Total Co		Problematic	Hydrophytic \	legetation¹	(Explain))
Woody Vine Stratum (Plot size	ze: N/A)			, vci					
1					¹Indicators of hyd		•	٠,	ıst
2.					be present, unles	s disturbed of	r problemat	IC.	
		0	= Total Co	over	Hydrophytic				
% Bare Ground in Herb Statum	100		_		Vegetation Present?	Yes	No	X	_
Damanica									
Remarks:									

SOIL								S	ampling Point: _	053 น	qı
Profile Desc	ription: (Describe to	the depth nee	ded to document t	he indicator o	r confirm	the absen	ce of indicato	ors.)			
Depth	Matrix			x Features				,			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks		
0-16	7.5 YR 3/3	100	Color (molet)		1900		Loam	Cobbles pr			
0.10	7.0 110						Loam	<u>Conside pi</u>	000111		
								_			
	-							_			
								_			
¹Type: C=Co	ncentration, D=Deplet	ion RM=Reduc	ed Matrix CS=Cov	ered or Coated	Sand Gra	ains	2l 00	ation: PI =Po	re Lining, M=Mat	rix	
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,							. og,a.		
Hydric Soil I	Indicators: (Applicab	le to all LRRs,	unless otherwise	noted.)			Indicato	rs for Proble	matic Hydric Soi	ils³:	
Histosol	(A1)		Sandy Re	dox (S5)			2	2 cm Muck (A	10)		
Histic E _l	pipedon (A2)		Stripped N	/latrix (S6)			F	Red Parent Ma	aterial (TF2)		
Black H	istic (A3)		Loamy Μι	ıcky Mineral (F´	1) (excep	t MLRA 1)	\	/ery Shallow I	Dark Surface (TF	12)	
Hydroge	en Sulfide (A4)		Loamy Gl	eyed Matrix (F2	2)		(Other (Explain	in Remarks)		
Deplete	d Below Dark Surface	(A11)	Depleted	Matrix (F3)							
Thick Da	ark Surface (A12)		Redox Da	rk Surface (F6)			³Indic	ators of hydro	phytic vegetation	and	
Sandy N	Mucky Mineral (S1)		Depleted	Dark Surface (F	7)		V	vetland hydro	logy must be pres	sent,	
Sandy C	Gleyed Matrix (S4)		Redox De	pressions (F8)			ι	ınless disturb	ed or problematio		
Do odniodivo I	over (if present).										
	_ayer (if present):										
Type: Depth (in	oppos).						Hydric Soil	Drocont?	Yes	No X	,
Deptii (iii			<u></u>				Hydric 30ii	rieseiiti		No X	<u> </u>
Remarks:											
HYDROLOG	3Y										
-	drology Indicators:		-111-4141				0		/ii		1\
	cators (minimum of one	e requirea; chec		:	0) (4			rs (minimum of ty	•	
	Water (A1)			ined Leaves (B	, .	ept	`		Leaves (B9) (N	/ILKA 1, 2	<u>-</u> ,
	ater Table (A2)			1, 2, 4A, and 4	IB)			4A, and 4E	-		
Saturati			Salt Crust	• •	0)			Orainage Patte	, ,		
_	farks (B1)			vertebrates (B1	,				/ater Table (C2)	· (CO)	
	nt Deposits (B2)		, ,	Sulfide Odor (C	,	- Doots (C			ible on Aerial Ima	igery (C9)	
	posits (B3)			Rhizospheres al		g Roots (C.		Geomorphic P			
	at or Crust (B4) posits (B5)			of Reduced Iron	, ,	lo (CG)		Shallow Aquita	` '		
	, ,			on Reduction in r Stressed Plant		` '		FAC-Neutral T	, ,		
	Soil Cracks (B6)	20gon/ (P7)			. ,	(LKK A)			ounds (D6) (LRF	(A)	
	on Visible on Aerial Im y Vegetated Concave	, ,	Other (Ex	plain in Remark	.5)		'	-iosi-neave r	lummocks (D7)		
Oparser	y vegetated Concave	Surface (Bo)									
Field Observ	vations:										
Surface Water	er Present?	Yes No	X Depth (ir	nches):							
Water Table	Present?	Yes No	X Depth (ir	nches):							
Saturation Pr	resent?	Yes No	X Depth (ir	nches):		Wetlan	nd Hydrology	Present?	Yes	No X	<
(includes cap	oillary fringe)									' <u></u>	
Describe Red	corded Data (stream g	auge, monitorir	ng weii, aerial photo	s, previous insp	pections),	ıt avaılable:	:				
Remarks:											

Project/Site:	Fountain Wind Project		Citv/Countv:		Burney/Shasta	Sam	pling Date:	10/	16/2019
Applicant/Owner:			, , ,		State: Califo				53 wet
Investigator(s):			Section, Tow			CA21 T34N F			
Landform (hillslope, terrace, etc):					ex, none):				%): 1
Subregion (LRR):					Long: -121			um:	
Soil Map Unit Name:									
Are climatic / hydrologic condition	ns on the site typical for this tim	e of year?	Yes X	No	(If no, explain in F	Remarks.)			
Are Vegetation, Soil _	, or Hydrology	significantly	disturbed?	Are "I	Normal Circumstances	" present?	Yes _	X 1	No
Are Vegetation, Soil _	X, or Hydrology	naturally pro	blematic?		eded, explain any ans	wers in Rema	arks.)		
SUMMARY OF FINDINGS	- Attach site map show	ving samp	oling poin	t locations,	, transects, impo	rtant featu	ıres, etc		
Hydrophytic Vegetation Preser	nt? Yes X N	No							
Hydric Soil Present?		No		the Sampled	Area				
Wetland Hydrology Present?				ithin a Wetlan	d? Yes	Χ	No		
Remarks:			<u> </u>						
VEGETATION - Use scier	ntific names of plants.								
	inio namos or pranto.				Dominance Test	workshoot:			
		Absolute	Dominant	Indicator	Number of Domina				
Tree Stratum (Plot size: 3	(0 foot radius)	% Cover	Species?	Status	That Are OBL, FA	•		3	(A)
		-		Otatus		J.1., G. 171G.	-		_ ('')
					Total Number of D	ominant			
3.			·		Species Across Al	l Strata:		3	(B)
4.		_	:						_ ` ′
			= Total Co	ver	Percent of Domina	ant Species			
Sapling/Shrub Stratum (Plot	size: 15 foot radius)		=		That Are OBL, FAG	CW, or FAC:	,	100.0	(A/B)
1. Alnus rhombifolia / White ale		40	Yes	FACW					
2. Acer circinatum / Vine maple	e	20	Yes	FAC	Prevalence Index	worksheet:			
3. Salix scouleriana / Scouler	willow, Scouler's willow	10	No	FAC	Total % Cove	er of:		tiply by:	
4.					OBL species	8	_ x1=	8	
5					FACW species	40	_ x 2 =	80	
		70	_ = Total Co	ver	FAC species	105 0	_ x 3 =	315	
Herb Stratum (Plot size:	6 foot radius)				FACU species UPL species	0	_ x 4 =	0	
1. Carex / Sedge		75	Yes	FAC	Column Totals:	153	x 5 =	403	(D)
2. Stachys ajugoides / Hedge		8	No	OBL	Column Totals.	100	(A)	403	(B)
3			_		Prevalence I	Index = B/A =	_	2.63	
4					Fievalence	TIGEX - D/A -	·	2.00	
5					Hydrophytic Vege	etation Indic	ators:		
					1 - Rapid Test	t for Hydroph	ytic Vegeta	ıtion	
7.		_			X 2 - Dominano	e Test is >50°	%		
8.					X 3 - Prevalence	e Index ≤3.0¹			
9.			_		4 - Morpholog	jical Adaptati	ons¹ (Provi	de suppo	orting
10.			_		5 - Wetland N				
11		83	= Total Co		Problematic F	łydrophytic V	egetation1	(Explain))
Woody Vine Stratum (Plot s	ize: N/A)		_ = 10tal C0	vei					
					¹Indicators of hydri		•	٠,	st
1					be present, unless	disturbed or	problemati	iC.	
			= Total Co	ver	Hydrophytic			-	
% Bare Ground in Herb Statum	10			VOI	Vegetation Present?	Yes	X No		
							<u> </u>		•
Remarks: Carex is not ident	ifiable to species at this time bu	ut is assumed	d to be FAC	due to presence	e of other hydrophytic	species.			

	ription: (Describe to	o the depth ne	eded to document t	ne indicato	r or confirn	n the abser	nce of indicator	rs.)	
Depth	Matrix			x Features					
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks	
0-16	10 YR 3/2						Loamy sand	Higher levels of loam in upper la	ayers abo
¹Type: C=Coı	ncentration, D=Deple	etion, RM=Redu	ced Matrix, CS=Cove	ered or Coa	ted Sand Gr	rains.	²Loca	ation: PL=Pore Lining, M=Matrix.	
Hydric Soil I	ndicators: (Applica	ble to all LRRs	, unless otherwise	noted.)			Indicators	s for Problematic Hydric Soils ³ :	
Histosol	(A1)		Sandy Red	dox (S5)			2	cm Muck (A10)	
Histic Ep	pipedon (A2)		Stripped M	latrix (S6)			R	ed Parent Material (TF2)	
Black Hi	stic (A3)		Loamy Mu	cky Mineral	(F1) (exce	pt MLRA 1) <u> </u>	ery Shallow Dark Surface (TF12)	
Hydroge	en Sulfide (A4)		Loamy Gle	yed Matrix	(F2)		_ 0	ther (Explain in Remarks)	
Depleted	d Below Dark Surfac	e (A11)	Depleted N	/latrix (F3)					
Thick Da	ark Surface (A12)		Redox Dai	k Surface (l	- 6)		³Indica	tors of hydrophytic vegetation an	d
Sandy M	lucky Mineral (S1)		Depleted [Oark Surface	e (F7)		W	etland hydrology must be presen	.,
Sandy G	Gleyed Matrix (S4)		Redox De	oressions (F	8)		uı	nless disturbed or problematic.	
Restrictive I	.ayer (if present):								
Type:	,								
Type: Depth (in Remarks:	ches): Soils are problemation			a is in veget	ated sand a	nd gravel b	Hydric Soil F	Present? Yes X No	
Type: Depth (in Remarks:	ches): Soils are problemative by Drainage patterns			a is in veget	ated sand a	nd gravel b			
Type:	ches): Soils are problemative by Drainage patterns SY Irology Indicators:	s and are oxyge	nated.	a is in veget	ated sand a	nd gravel b	ar within top of b	pank and redox features may be v	vashed ou
Type:	ches): Soils are problemation by Drainage patterns Y Irology Indicators: ators (minimum of or	s and are oxyge	nated.				ar within top of b	pank and redox features may be very service of the very large service	vashed ou
Type:	Soils are problemation by Drainage patterns SY Irology Indicators: ators (minimum of or Water (A1)	s and are oxyge	nated. eck all that apply) Water-Stai	ned Leaves	(B9) (exc		ar within top of b	dary Indicators (minimum of two later-Stained Leaves (B9)	vashed ou
Type:	Soils are problemation by Drainage patterns SY Irology Indicators: ators (minimum of on Water (A1) the Table (A2)	s and are oxyge	eck all that apply) Water-Stai	ned Leaves 1, 2, 4A, an	(B9) (exc		ar within top of b	dary Indicators (minimum of two rater-Stained Leaves (B9) (MLF	vashed or
Type:	Soils are problemation by Drainage patterns SY Irology Indicators: ators (minimum of or Water (A1) atter Table (A2) on (A3)	s and are oxyge	eck all that apply) Water-Stai MLRA Salt Crust	ned Leaves 1, 2, 4A, an (B11)	(B9) (exc d 4B)		ar within top of b	dary Indicators (minimum of two rater-Stained Leaves (B9) (MLF 4A, and 4B) rainage Patterns (B10)	vashed or
Type:	Soils are problemation by Drainage patterns SY Irology Indicators: ators (minimum of or Water (A1) atter Table (A2) on (A3) larks (B1)	s and are oxyge	eck all that apply) Water-Stai MLRA Salt Crust Aquatic Inv	ned Leaves 1, 2, 4A, an (B11) vertebrates	(B9) (exc d 4B)		ar within top of b	dary Indicators (minimum of two of two of taken Stained Leaves (B9) (MLF 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2)	equired)
Type:	Soils are problemation by Drainage patterns SY Irology Indicators: ators (minimum of or Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2)	s and are oxyge	eck all that apply) Water-Stai MLRA Salt Crust Aquatic Int Hydrogen	ned Leaves 1, 2, 4A, an (B11) /ertebrates Sulfide Odo	(B9) (exc d 4B) (B13) r (C1)	eept	Secon	dary Indicators (minimum of two rater-Stained Leaves (B9) (MLF 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imager	equired)
Type:	Soils are problemation by Drainage patterns GY Irology Indicators: ators (minimum of or Water (A1) ther Table (A2) on (A3) larks (B1) nt Deposits (B2) posits (B3)	s and are oxyge	eck all that apply) Water-Stai MLRA Salt Crust Aquatic Int Hydrogen Oxidized F	ned Leaves 1, 2, 4A, an (B11) /ertebrates Sulfide Odo	(B9) (exc d 4B) (B13) r (C1) s along Livir	eept	Secon X D X D S	dary Indicators (minimum of two of stater-Stained Leaves (B9) (MLF 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imager ecomorphic Position (D2)	equired)
Type:	Soils are problemation by Drainage patterns SY Irology Indicators: ators (minimum of or Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2)	s and are oxyge	eck all that apply) Water-Stai MLRA Salt Crust Aquatic Int Hydrogen Oxidized F Presence	ned Leaves 1, 2, 4A, an (B11) vertebrates Sulfide Odo khizosphere of Reduced	(B9) (exc d 4B) (B13) r (C1) s along Livir	cept	Secon W X D S S S S S S S S S	dary Indicators (minimum of two rater-Stained Leaves (B9) (MLF 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imager	equired)
Type:	Soils are problematic by Drainage patterns GY Irology Indicators: ators (minimum of or Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) at or Crust (B4)	s and are oxyge	eck all that apply) Water-Stai MLRA Salt Crust Aquatic Int Hydrogen Oxidized F Presence G Recent Iro	ned Leaves 1, 2, 4A, an (B11) /ertebrates Sulfide Odo Rhizosphere of Reduced n Reduction	(B9) (exc d 4B) (B13) r (C1) s along Livir Iron (C4)	rept ng Roots (C	Secon W X D S S X G S X F F F S T T	dary Indicators (minimum of two of //dary-Stained Leaves (B9) (MLF 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imager recomorphic Position (D2) hallow Aquitard (D3)	equired) AA 1, 2,
Type:	Soils are problematic by Drainage patterns GY Irology Indicators: ators (minimum of or Water (A1) ater Table (A2) on (A3) arks (B1) nt Deposits (B2) posits (B3) at or Crust (B4) posits (B5)	s and are oxyge	eck all that apply) Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F Presence G Recent Iro Stunted or	ned Leaves 1, 2, 4A, an (B11) /ertebrates Sulfide Odo Rhizosphere of Reduced n Reduction	(B9) (exc d 4B) (B13) r (C1) s along Livir Iron (C4) in Tilled So lants (D1)	rept ng Roots (C	Secon W X D S S X G X F R R R R	dary Indicators (minimum of two of stater-Stained Leaves (B9) (MLF 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imager seomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5)	equired) AA 1, 2,
Type:	Soils are problematic by Drainage patterns BY Irology Indicators: ators (minimum of or Water (A1) ater Table (A2) on (A3) larks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6)	ne required; che	eck all that apply) Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F Presence G Recent Iro Stunted or	ned Leaves 1, 2, 4A, an (B11) vertebrates Sulfide Odo Rhizosphere of Reduced n Reductior Stressed P	(B9) (exc d 4B) (B13) r (C1) s along Livir Iron (C4) in Tilled So lants (D1)	rept ng Roots (C	Secon W X D S S X G X F R R R R	dary Indicators (minimum of two rater-Stained Leaves (B9) (MLF 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imager recomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A)	equired) AA 1, 2,
Type:	Soils are problematic by Drainage patterns GY Irology Indicators: ators (minimum of or Water (A1) ther Table (A2) on (A3) larks (B1) the Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aerial I or Vegetated Concave	ne required; che	eck all that apply) Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F Presence G Recent Iro Stunted or	ned Leaves 1, 2, 4A, an (B11) vertebrates Sulfide Odo Rhizosphere of Reduced n Reductior Stressed P	(B9) (exc d 4B) (B13) r (C1) s along Livir Iron (C4) in Tilled So lants (D1)	rept ng Roots (C	Secon W X D S S X G X F R R R R	dary Indicators (minimum of two rater-Stained Leaves (B9) (MLF 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imager recomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A)	equired) AA 1, 2,
Type:	Soils are problematic by Drainage patterns GY Irology Indicators: ators (minimum of or Water (A1) ther Table (A2) on (A3) tarks (B1) the Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aerial I or Vegetated Concaverations:	magery (B7) e Surface (B8)	eck all that apply) Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F Presence G Recent Iro Stunted or	ned Leaves 1, 2, 4A, an (B11) /ertebrates Sulfide Odo Rhizosphere of Reduced n Reductior Stressed P olain in Rem	(B9) (exc d 4B) (B13) r (C1) s along Livir Iron (C4) in Tilled So lants (D1)	rept ng Roots (C	Secon W X D S S X G X F R R R R	dary Indicators (minimum of two rater-Stained Leaves (B9) (MLF 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imager recomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A)	equired) AA 1, 2,
Type:	Soils are problematic by Drainage patterns GY Irology Indicators: ators (minimum of or Water (A1) atter Table (A2) on (A3) larks (B1) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aerial I or Vegetated Concaverations: ar Present?	magery (B7) e Surface (B8)	weck all that apply) Water-Stai MLRA Salt Crust Aquatic Int Hydrogen Oxidized F Presence of Recent Iro Stunted or Other (Exp	ned Leaves 1, 2, 4A, an (B11) /ertebrates Sulfide Odo Rhizosphere of Reduced in Reduction Stressed P elain in Rem	(B9) (exc d 4B) (B13) r (C1) s along Livir Iron (C4) in Tilled So lants (D1)	rept ng Roots (C	Secon W X D S S X G X F R R R R	dary Indicators (minimum of two rater-Stained Leaves (B9) (MLF 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imager recomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A)	equired) AA 1, 2,
Type:	Soils are problematic by Drainage patterns GY Irology Indicators: ators (minimum of or Water (A1) ater Table (A2) on (A3) arks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aerial I vivegetated Concaverations: ar Present? Present?	magery (B7) e Surface (B8) YesN	cck all that apply) Water-Stai MLRA Salt Crust Aquatic Int Hydrogen Oxidized F Presence of Recent Iro Stunted or Other (Exp	ned Leaves 1, 2, 4A, an (B11) /ertebrates Sulfide Odo Rhizosphere of Reduced n Reductior Stressed P olain in Rem ches):	(B9) (exc d 4B) (B13) r (C1) s along Livir Iron (C4) in Tilled So lants (D1)	rept rept	Secon W X D S S X G X F R R R R	dary Indicators (minimum of two in Vater-Stained Leaves (B9) (MLF 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imager in the ecomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)	equired) tA 1, 2,
Type:	Soils are problematic by Drainage patterns GY Irology Indicators: ators (minimum of or Water (A1) ater Table (A2) on (A3) arks (B1) at Deposits (B2) posits (B3) at or Crust (B4) posits (B5) Soil Cracks (B6) on Visible on Aerial I vivegetated Concaverations: ar Present? Present?	magery (B7) e Surface (B8) YesN	eck all that apply) Water-Stai MLRA Salt Crust Aquatic Inv Hydrogen Oxidized F Presence of Recent Iro Stunted or Other (Exp	ned Leaves 1, 2, 4A, an (B11) /ertebrates Sulfide Odo Rhizosphere of Reduced n Reductior Stressed P olain in Rem ches):	(B9) (exc d 4B) (B13) r (C1) s along Livir Iron (C4) in Tilled So lants (D1) arks)	rept rept	Secon W X D S S X F F F S S T F S S T F S S T F S S T F S T T S T T T T T T	dary Indicators (minimum of two in Vater-Stained Leaves (B9) (MLF 4A, and 4B) rainage Patterns (B10) ry-Season Water Table (C2) aturation Visible on Aerial Imager recomorphic Position (D2) hallow Aquitard (D3) AC-Neutral Test (D5) aised Ant Mounds (D6) (LRR A) rost-Heave Hummocks (D7)	equired) tA 1, 2,

Area is adjacent to ohwm or drainage and within top of bank. Drainage patterns and saturation present.

Applicant/Owner:	n Wind Project Fountain Wind, nger & B. Cohen	LLC	, ,		Burney/Shasta State:	California	Sampling D		/16/2019
							Sambling P	oint: ()54 up
	Ideliaid. Collell							N23	
Landform (hillslope, terrace, etc):									(%): 1
Subregion (LRR): MLI									
Soil Map Unit Name: Win									
Are climatic / hydrologic conditions on the	e site typical for this tim	e of year?	Yes X	No	(If no, explai	in in Remarks	.)		
Are Vegetation, Soil	, or Hydrology	significantly	disturbed?	Are "N	Normal Circumsta			s <u>X</u>	No
Are Vegetation, Soil	, or Hydrology	naturally pro	oblematic?	(If nee	eded, explain any	y answers in F	Remarks.)		
SUMMARY OF FINDINGS - Atta	ach site map show	ving sam _l	pling poin	t locations,	transects, in	mportant f	eatures,	etc.	
Hydrophytic Vegetation Present?	Yes X 1	No							
Hydric Soil Present?	Yes			the Sampled A	Area				
Wetland Hydrology Present?		No X	w	ithin a Wetland	1?	Yes	No _	X	
Remarks:			1						
VEGETATION - Use scientific r	names of plants.				1				
						Test workshe			
		Absolute	Dominant			ominant Spec			(4)
Tree Stratum (Plot size: 30 foot r		% Cover	Species?	Status	That Are OBL	_, FACW, or F	AC:	3	(A)
1. Calocedrus decurrens / Incense ce	dar	15	Yes	UPL	Total Number	. of Dominout			
2. Abies / Fir		5	Yes	UPL	Species Acro	of Dominant		E	(D)
3.			_		Species Acid	155 Ali Stiata.	_	5	(B)
4		20	= Total Co	wer	Percent of Do	ominant Speci	ies		
Sapling/Shrub Stratum (Plot size:	15 foot radius \		_ = 10tai C0	vei	That Are OBI	•		60.0	(A/B)
1. Alnus rhombifolia / White alder	15 loot radius)	30	Yes	FACW					(,,,,,,
Acer circinatum / Vine maple		30	Yes	FAC	Prevalence I	ndex worksh	eet:		
3						Cover of:		Multiply by:	
4.			_		OBL species		x 1 =	. 0	
5.					FACW specie		x 2 =		
		60	= Total Co	ver	FAC species		x 3 =		
Herb Stratum (Plot size: 6 foot ra	adius)				FACU specie		x 4 =		
1. Maianthemum racemosum / Feathe	ery false lily of the valley	2	Yes	FAC	UPL species	-	x 5 =		(D)
2			_		Column Total	s: 82	(A)	256	(B)
3					Prevale	ence Index = E	R/Λ -	3.12	
4			_		Fievale	siice iiidex – i		J.12	
5		_	_		Hydrophytic	Vegetation I	ndicators:		
6.					1 - Rapid	d Test for Hyd	rophytic Ve	getation	
7. 8.			_		X 2 - Domi	inance Test is	>50%		
9.				<u> </u>		alence Index :			
			_			hological Ada			orting
10. 11.						and Non-Vasc			
• • •			= Total Co	ver	Problem	atic Hydrophy	tic Vegetati	on¹ (Explair)
Woody Vine Stratum (Plot size:	N/A)		_		11mdianton of	والممالية والمالية	ما لمصملة عنديات		4
1.					¹Indicators of	njunc son an nless disturbe			ısı
2.					be present, u	illess distuibe	d of proble	mauc.	
		0	= Total Co	ver	Hydrophytic	;			
% Bare Ground in Herb Statum	98				Vegetation Present?	Yes	X	No	_
Remarks:					ı				
Abies concolor									

SOIL								Sampling Poin	t: 054 up
Profile Desc	cription: (Describe to	the depth nee	ded to document t	he indicator o	or confirm	the absen	ce of indicato	rs.)	
Depth	Matrix			x Features				. •.,	
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture	Remarks	
0-18	7.5 YR 2.5/3	100	Color (molet)		1990		Silty loam	Gravel present, more as	vou ao deeper
0 10	7.0 11(2.0/0						City loan	Graver present, more as	you go uccpei
								-	
-	·								
								-	
-	·								
-	·								
-	·								
1Type: C=Co	ncentration, D=Deplet	ion PM-Pedu	sed Matrix CS-Cov	ered or Coated	d Sand Gra	nine	21.00	ation: PL=Pore Lining, M=	Matrix
Турс. 0-00	meentiation, b-bepiet	ion, rawi–racada	Cu Matrix, 00-00V	Cica or Coalco	J Garia Gre		LOG	ation: 1 L=1 orc Liming, IVI=	viatrix.
Hydric Soil	Indicators: (Applicab	le to all LRRs,	unless otherwise	noted.)			Indicator	s for Problematic Hydric	Soils3:
Histoso	I (A1)		Sandy Re	dox (S5)			2	cm Muck (A10)	
Histic E	pipedon (A2)		Stripped N	/latrix (S6)			R	Red Parent Material (TF2)	
Black H	listic (A3)		Loamy Mu	ıcky Mineral (F	1) (excep	t MLRA 1)		ery Shallow Dark Surface	(TF12)
Hydroge	en Sulfide (A4)		Loamy Gl	eyed Matrix (F	2)		<u> </u>	Other (Explain in Remarks)	
Deplete	d Below Dark Surface	(A11)	Depleted I	Matrix (F3)			· 		
Thick D	ark Surface (A12)		Redox Da	rk Surface (F6)		³Indica	ators of hydrophytic vegeta	ition and
Sandy N	Mucky Mineral (S1)		Depleted I	Dark Surface (F7)		W	vetland hydrology must be	present,
Sandy 0	Gleyed Matrix (S4)		Redox De	pressions (F8))		u	nless disturbed or problem	natic.
						1			
	Layer (if present):								
Type:									
Depth (ir	nches):						Hydric Soil F	Present? Yes	NoX
Remarks:									
l									
111/2221	22/								
HYDROLOG	Ϋ́								
Wetland Hy	drology Indicators:								
Primary Indic	cators (minimum of one	e required; che	ck all that apply)				Secon	dary Indicators (minimum	of two required)
Surface	Water (A1)		Water-Sta	ined Leaves (E	39) (exc e	ept	v	Vater-Stained Leaves (B9)	(MLRA 1, 2,
	ater Table (A2)		MLRA	1, 2, 4A, and	4B)			4A, and 4B)	
Saturati	ion (A3)		Salt Crust	(B11)			□	Prainage Patterns (B10)	
Water M	/larks (B1)		Aquatic In	vertebrates (B	13)		D	Ory-Season Water Table (C	2)
Sedime	nt Deposits (B2)		Hydrogen	Sulfide Odor (C1)			Saturation Visible on Aerial	Imagery (C9)
Drift De	posits (B3)		Oxidized F	Rhizospheres a	along Livin	g Roots (C	3) <u> </u>	Geomorphic Position (D2)	
Algal M	at or Crust (B4)		Presence	of Reduced Iro	on (C4)		s	Shallow Aquitard (D3)	
Iron De	posits (B5)		Recent Iro	n Reduction in	n Tilled Soi	ls (C6)	F	AC-Neutral Test (D5)	
Surface	Soil Cracks (B6)		Stunted or	Stressed Plar	nts (D1)	(LRR A)	R	Raised Ant Mounds (D6) (LRR A)
Inundat	ion Visible on Aerial Im	nagery (B7)	Other (Ex	plain in Remar	ks)		F	rost-Heave Hummocks (D	7)
Sparsel	y Vegetated Concave	Surface (B8)							
Field Observ	· · atia wa ·								
Field Obser		Voc. N	o V Donth (in	achoo):					
		Yes N		· -					
Water Table				· -		Modle		Dranamia Van	Na V
Saturation P		Yes N	Depth (ir	icnes):		vvetiar	nd Hydrology I	Present? Yes	No <u>X</u> _
(includes cap	olliary iringe)								
Describe Re	corded Data (stream g	auge, monitorii	ng well, aerial photo	s, previous ins	pections).	if available	:		
	, ,	•	- '	•	. "				
Remarks:									

Project/Site:	Fountain Wind Project		City/County	/: <u> </u>	Burney/Shasta		Sampling D)ate: 10	0/17/2019
Applicant/Owner:		LLC	,,		State:				055 up
Investigator(s):			Section, To					N17	
Landform (hillslope, terrace, etc):							9		: (%): 1
Subregion (LRR):	MLRA 22B	Lat:	40.79	9850965	Long:	-121.876521		Datum:	
Soil Map Unit Name:	Cohasset stony lo	am. 0 to 30	percent slo	pes	NW				
Are climatic / hydrologic condition	s on the site typical for this time	e of vear?	Yes X	No	(If no, explai				
Are Vegetation, Soil _					\ \ / / / / / / / / / / / / / / / /			s <u>X</u>	No
Are Vegetation , Soil	or Hydrology	naturally pro	oblematic?	(If nee	eded, explain any				-
SUMMARY OF FINDINGS		-				•	,	etc.	
Hydrophytic Vegetation Presen	•			,	,,	portunt	54(4) 66,	<u> </u>	
Hydric Soil Present?	Yes N			ls the Sampled	Δroa				
Wetland Hydrology Present?		lo X	- ;	within a Wetland		Yes	No	Y	
Wettarid Hydrology Fresent:	165			within a wetland	u:	103			
Remarks:									
VEGETATION - Use scien	tific names of plants.								
					Dominance '	Test workshe	et:		
		Absolute	Dominan	t Indicator	Number of De	ominant Spec	ies		
Tree Stratum (Plot size: 3	0 foot radius)	% Cover	Species?	Status	That Are OBI	L, FACW, or F	AC: _	11	(A)
1. Acer macrophyllum / Bigleat	maple, Big-leaf maple	65	Yes	FACU					
2. Salix scouleriana / Scouler v	villow, Scouler's willow	15	No	FAC	Total Number	r of Dominant			
3					Species Acro	ss All Strata:	_	5	(B)
4		_							
		80	= Total C	over		ominant Spec			(4 (5)
Sapling/Shrub Stratum (Plot					That Are OBL	L, FACW, or F	AC: _	20.0	(A/B)
1. Rubus armeniacus / Himala	· · · · · · · · · · · · · · · · · · ·	15		FAC	Prevalence I	Index worksh	eet:		
2. Rubus parviflorus / Thimblel	•	10	Yes	FACU		Cover of:		Multiply by:	:
3. Ribes malvaceum / Chaparr	al currant	10	Yes	UPL	OBL species			= 0	<u> </u>
4.					FACW specie	-	x 2 =		
5		25			FAC species	30	x 3 =	= 90	
Harb Stratum (Diet size: 6	S fact radius	35	= Total C	over	FACU specie	s 82	x 4 =	= 328	
Herb Stratum (Plot size: 6 1. Pteridium aquilinum / Weste	6 foot radius)	7	Voc	FACU	UPL species	10	x 5 =	= 50	
				FACU	Column Total	ls: 122	(A)	468	(B)
2. 3.									
J		_			Prevale	ence Index = E	3/A =	3.84	
5.									
6.						Vegetation I			
7.						d Test for Hyd		getation	
8.						inance Test is			
9.		_				alence Index s			
10.						hological Ada			porting
11.						and Non-Vasc			\
		7	= Total C	over	Problem	atic Hydrophy	tic vegetat	ion (Explaii	n)
Woody Vine Stratum (Plot si	ze: N/A)				¹Indicators of	bydria sail an	d wotland l	nydrology r	auct.
1.						ınless disturbe			iust
2.					be present, u	illiess distuibe	u or proble	панс.	
		0	= Total C	over	Hydrophytic	;			
% Bare Ground in Herb Statum	90				Vegetation Present?	Yes		No X	<u> </u>
Remarks:									
. tomano.									

SOIL									Sampling Point:	055	up
Profile Desc	cription: (Describe to	the depth nee	ded to document	the indicator	r or confirm	the abser	nce of indicat	ors.)			
Depth	Matrix	ino dopin noo		dox Features	0. 00	ino about		.0.0.,			
(inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc²	Texture		Remarks		
0-16	7.5 YR 2.5/2	100	oolor (moist)		Турс		Silty loam	Small gra	vel present		
0-10	7.0 11(2.0/2						Only loans	Oman gra	ver present		
	-										
		 .									
							-				
	-	_ .					-				
	-	 .									
	-	 .									
	 							— . 			
'Type: C=Co	ncentration, D=Deplet	ion, RM=Reduc	ced Matrix, CS=Co	overed or Coat	ed Sand Gra	ains.	²Lc	cation: PL=P	ore Lining, M=Ma	atrix.	
Hydric Soil I	Indicators: (Applicat	le to all I RRs	unless otherwis	e noted)			Indicate	ors for Proble	ematic Hydric S	nile3.	
Histosol		L.		ledox (S5)			maroux	2 cm Muck (A	-		
	pipedon (A2)			Matrix (S6)				,	Material (TF2)		
	istic (A3)			Mucky Mineral	(E1) (ovcor	+ MI DA 1	. —		viaterial (11 2) v Dark Surface (Ti	E12)	
	en Sulfide (A4)			Bleyed Matrix (I WILKA I	, <u> </u>			F12)	
	` '	(444)		•	(FZ)			Otrier (Explai	in in Remarks)		
	d Below Dark Surface	(A11)		d Matrix (F3)	-0)		21 1				
	ark Surface (A12)			ark Surface (F	•			•	rophytic vegetatio		
	Mucky Mineral (S1)			Dark Surface	` '				ology must be pre		
Sandy C	Gleyed Matrix (S4)		Redox D	epressions (F	8)			unless distur	bed or problemat	ic.	
Restrictive I	Layer (if present):										
Type:	Layer (ii present).										
Depth (ir	ochee).						Hydric Soil	Drocont?	Yes	No 2	Y
Deptii (ii	iches).						Hyuric 30ii	rieseiit		110	<u> </u>
Remarks:											
HYDROLOG	GY										
Wetland Hyd	drology Indicators:										
Primary Indic	cators (minimum of on	e required; che	ck all that apply)				Seco	ondary Indicat	tors (minimum of	two requir	ed)
	Water (A1)	•		tained Leaves	(B9) (exc	ept		•	ed Leaves (B9)		
	ater Table (A2)			A 1, 2, 4A, and	. , .	•		4A, and 4	IB)	,	•
Saturati	, ,		Salt Cru		,			Drainage Pat	•		
	/larks (B1)			Invertebrates ('B13)		_	_	Water Table (C2)		
	nt Deposits (B2)			n Sulfide Odo					sible on Aerial Im		a)
	posits (B3)			Rhizospheres		a Poots (C	.3)		Position (D2)	lagery (Oo	')
_				e of Reduced		g Noots (C					
	at or Crust (B4) posits (B5)			ron Reduction	, ,	lo (C6)	_	Shallow Aqui			
	` '					` '		FAC-Neutral	, ,	D 4\	
	Soil Cracks (B6)	(D7)		or Stressed Pl		(LKK A)			Mounds (D6) (LR	(RA)	
	ion Visible on Aerial In	• , , ,	Other (E	xplain in Rema	arks)			Frost-Heave	Hummocks (D7)		
Sparsel	y Vegetated Concave	Surface (B8)									
Field Observ	vations:										
Surface Water		Yes No	o X Depth	(inches):							
Water Table				(inches):							
Saturation P				(inches):		Wetle	nd Hydrology	/ Present?	Yes	No	Y
(includes cap		IN		(11101103).		vvetiai	iia riyarolog)	, i leselli	169	No	
(includes cap	omary minge)										
Describe Red	corded Data (stream o	auge, monitorii	ng well, aerial pho	tos, previous ir	nspections).	if available	:				
		,,	5, as.iai pilo	-, _F . 5545 II							
Remarks:											

Appendix C PLANT SPECIES OBSERVED

Table C-1. Plant Species Observed

Scientific Name ¹	Common Name	Wetland Indicator Status ²	Origin
Adoxaceae (Muskroot Family)	1		
Sambucus nigra ssp. caerulea	blue elderberry	FAC	Native
Apiaceae (Umbelliferae) (Carrot Family)	•	
Angelica californica	California angelica	-	Native
Angelica capitellata	grayswamp whiteheads	FACW	Native
Heracleum maximum	common cow parsnip	FAC	Native
Apocynaceae (Dogbane Family)	· · ·	•	•
Apocynum androsaemifolium	bitter dogbane	FACU	Native
Aristolochiaceae (Pipevine Family)	, ,	•	•
Asarum caudatum	long-tail wild ginger	FACU	Native
Asarum hartwegii	Hartweg's wild ginger	-	Native
Asteraceae (Compositae) (Sunflower Fa			
Achillea millefolium	yarrow	FACU	Native
Artemisia douglasiana	California mugwort	FACW	Native
Cirsium vulgare	bullthistle	FACU	non-native (invasive)
Ericameria nauseosa	rubber rabbitbrush	-	Native
Erigeron annus	annual fleabane	FACU	non-native
Helenium bigelovii	Bigelow's sneezeweed	FACW	Native
Leucanthemum vulgare	ox-eye daisy	FACU	non-native (invasive)
Oreostemma alpigenum	tundra aster	FAC	Native
Senecio triangularis	arrowleaf ragwort	FACW	Native
Sonchus oleraceus	sow thistle	UPL	non-native
Symphyotrichum spathulatum	western mountain aster	FAC	Native
Taraxacum officinale	common dandelion	FACU	Non-native
Uropappus lindleyi	silver puffs	UPL	Native
Athyriaceae (Lady Fern Family)		<u> </u>	l
Athyrium filix-femina var. cyclosorum	western lady fern	FAC	Native
Berberidaceae (Barberry Family)	,	I	
Berberis aquifolium	mountain grape	FACU	Native
Betulaceae (Birch Family)	<u> </u>	l .	L
Alnus incana ssp. tenuifolia	creek alder	FACW	Native
Alnus rhombifolia	white alder	FACW	Native
Corylus cornuta ssp. californica	beaked hazelnut	FACU	Native
Blechnaceae (Deer Fern Family)			
Woodwardia fimbriata	western chain fern	-	Native
Boraginaceae (Borage Family)		.	
Cynoglossum grande	grand hound's tongue	UPL	Native
Cynoglossum occidentale	hound's tongue	-	Native
Eriodictyon californicum	California yerba santa	UPL	Native
Caprifoliaceae (Honeysuckle Family)		•	
Lonicera conjugialis	purpleflower honeysuckle	FAC	Native
Lonicera hispidula	pink honeysuckle	FACU	Native
Symphoricarpos albus var. laevigatus	snowberry	FACU	Native



Scientific Name ¹	Common Name	Wetland Indicator Status ²	Origin
Celastraceae (Staff-Tree Family)		1	
Paxistima myrsinites	Oregon boxwood	FACU	Native
Cornaceae (Dogwood Family)		1	-
Cornus nuttallii	mountain dogwood	FACU	Native
Cornus sericea	American dogwood	FACW	Native
Cupressaceae (Cypress Family)		•	
Calocedrus decurrens	incense cedar	-	Native
Cyperaceae (Sedge Family)		·	
Carex amplifolia	ample leaved sedge	OBL	Native
Carex brainerdii	Brainerd's sedge	UPL	Native
Carex utriculata	beaked sedge	OBL	Native
Schoenoplectus acutus	common tule	OBL	Native
Scirpus microcarpus	mountain bog bulrush	OBL	Native
Dennstaedtiaceae (Bracken Family)			
Pteridium aquilinum var. pubescens	western bracken fern	FACU	Native
Equisetaceae (Horsetail Family)		·	
Equisetum hyemale	common scouring rush	FACW	Native
Ericaceae (Heath Family)			
Arctostaphylos nevadensis	pine mat manzanita	-	Native
Arctostaphylos patula	green leaf manzanita	-	Native
Arctostaphylos viscida	whiteleaf manzanita	-	Native
Rhododendron occidentale	western azalea	FAC	Native
Vaccinium uliginosum ssp. occidentale	western blueberry	FACW	Native
Fabaceae (Leguminosae) (Legume Fa	amily)		
Acmispon wrangelianus	Chilean trefoil	UPL	Native
Cercis occidentalis	western redbud	UPL	Native
Genista monspessulana	French broom	UPL	non-native (invasive)
Hosackia oblongifolia	narrow leaved lotus	OBL	Native
Lathyrus latifolius	sweet pea	-	non-native
Trifolium dubium	little hop clover	FACU	non-native
Trifolium longipes	long-stalked clover	FAC	Native
Trifolium pratense	red clover	FACU	non-native
Trifolium repens	white clover	FAC	non-native
Fagaceae (Oak Family)			
Chrysolepis sempervirens	Sierra chinquapin	-	Native
Notholithocarpus densiflorus var. echinoides	tanoak shrub	-	Native
Quercus garryana	Oregon oak	FACU	Native
Quercus vacciniifolia	huckleberry oak	UPL	Native
Garryaceae (Silk Tassel Family)			
Garrya fremontii	Fremont's silk tassel	UPL	Native
Grossulariaceae (Goosefoot Family)			
Ribes malvaceum	chaparral currant	-	Native
Ribes nevadense	mountain pink currant	FAC	Native
Ribes roezlii	Sierra gooseberry		Native
Ribes sanguineum	flowering currant	FACU	Native



Appendix C Plant Species Observed

Scientific Name ¹	Common Name	Wetland Indicator Status ²	Origin
Hypericaceae (St. John's Wort Family)		I	
Hypericum anagalloides	Tinker's penny	OBL	Native
Hypericum perforatum ssp. perforatum	Klamathweed	FACU	non-native
Iridaceae (Iris Family)		'	•
Iris macrosiphon	ground iris	UPL	Native
Iris tenuissima	slender iris	UPL	Native
Juncaceae (Rush Family)			
Eleocharis acicularis	needle spikerush	OBL	Native
Eleocharis bella	beautiful spikerush	FACW	Native
Eleocharis macrostachya (Eleocharis palustrus)	common spikerush	OBL	Native
Juncus balticus ssp. ater	Baltic rush	FACW	Native
Juncus bufonius	toad rush	FACW	Native
Juncus effusus	common bog rush	FACW	Native
Juncus nevadensis	Sierran rush	FACW	Native
Juncus occidentalis	western rush	FACW	Native
Juncus xiphioides	iris-leaved rush	OBL	Native
Lamiaceae (Labiateae) (Mint Family)			
Mentha pulegium	pennyroyal	OBL	non-native (invasive)
Mentha spicata	spearmint	FACW	non-native
Stachys ajugoides	hedge nettle	OBL	Native
Trichostema lanceolatum	vinegar weed	FACU	Native
Liliaceae (Lily Family)			
Lilium pardalinum	California tiger lily	FACW	Native
Malvaceae (Mallow Family)			
Sidalcea gigantea	giant checkerbloom	UPL	Native
Melanthiaceae (False-hellebore Family)			
Veratrum californicum var. californicum	California corn lily	FAC	Native
Trillium albidum	giant white trillium	FACU	Native
Montiaceae (Miner's Lettuce Family)			
Calyptridium umbellatum	pussy toes	-	Native
Myrsinaceae (Myrsine Family)			
Lysimachia latifolia	Pacific starflower	FACW	Native
Nymphaeaceae (Waterlily Family)			
Nuphar polysepala	Rocky Mountain pond-lily	OBL	Native
Oleaceae (Olive Family)			
Fraxinus latifolia	Oregon ash	FACW	Native
Onagraceae (Evening-Primrose Family			
Chamerion angustifolium	fireweed	UPL	Native
Ludwigia palustris	marsh purslane	OBL	Native
Ophioglossaceae (Adder's-tongue Fam	illy)		
Sceptridium multifidum	leather grape-fern	FAC	Native
Orchidaceae (Orchid Family)			
Goodyera oblongifolia	rattlesnake-plantain	FACU	Native
Platanthera dilatata	white-flowered bog-orchid	FACW	Native



Scientific Name ¹	Common Name	Wetland Indicator Status ²	Origin
Orobanchaceae (Broomrape Family)		'	
Castilleja campestris	vernal pool paintbrush	FACW	Native
Castilleja lacera	cut leaved owl's clover	UPL	Native
Epilobium brachycarpum	tall annual willowherb	UPL	Native
Epilobium campestre	smooth willowherb	OBL	Native
Epilobium ciliatum	fringed willowherb	FACW	Native
Phrymaceae (Lopseed Family)			
Mimulus guttatus	seep monkey flower	OBL	Native
Pinaceae (Pine Family)			
Abies concolor	white silver fir	-	Native
Pinus contorta	lodgepole pine	FAC	Native
Pinus lambertiana	sugar pine	-	Native
Pinus ponderosa	yellow pine	FACU	Native
Pseudotsuga menziesii var. menziesii	Douglas fir	FACU	Native
Plantaginaceae (Plantain Family)			
Keckiella breviflora	bush beardtongue	UPL	Native
Plantago lanceolata	ribwort	FACU	non-native (invasive)
Veronica americana	American brooklime	OBL	native
Veronica anagallis-aquatica	water speedwell	OBL	non-native (invasive)
Veronica peregrina	purslane speedwell	FACW	native
Polemoniaceae (Phlox Family)			
Navarretia intertexta	needleleaf navarretia	FACW	native
Polygonaceae (Buckwheat Family)			
Rumex acetosella	sheep sorrel	FACU	non-native (invasive)
Rumex crispus	curly dock	FAC	non-native (invasive)
Rumex occidentalis	western dock	FACW	native
Poaceae (Gramineae) (Grass Family)			
Alopecurus pratensis	meadow foxtail	FAC	non-native
Anthoxanthum odoratum	sweet vernal grass	FACU	non-native (invasive)
Bromus carinatus	California bromegrass		native
Bromus hordeaceus	soft chess	FACU	non-native (invasive)
Bromus tectorum	downy chess		non-native (invasive)
Cynosurus echinatus	dogtail grass	-	non-native (invasive)
Dactylis glomerata	orchardgrass	FACU	non-native (invasive)
Danthonia californica	California oatgrass	FAC	native
Deschampsia cespitosa	tufted hair grass	FACW	native
Elymus caput-medusae	Medusa head	UPL	non-native (invasive)
Elymus glaucus	blue wildrye	FACU	native
Elymus triticoides	beardless wild rye	UPL	native
Festuca arundinacea	tall fescue	FAC	non-native (invasive)
Glyceria striata	ridged manna grass	OBL	native
Holcus lanatus	common velvetgrass	FAC	non-native (invasive)
Panicum acuminatum	western panicgrass	FAC	native
Phalaris aquatica	Harding grass	FACU	non-native (invasive)
Phalaris paradoxa	hood canary grass	FAC	non-native



Appendix C Plant Species Observed

Scientific Name ¹	Common Name	Wetland Indicator Status ²	Origin
Poa palustris	fowl blue grass	FAC	non-native
Poa pratensis ssp. pratensis	Kentucky blue grass	FAC	non-native (invasive)
Poa secunda	nevada blue grass	FACU	native
Stipa miliacea	smilo grass	UPL	non-native
Ranunculaceae (Buttercup Family)			
Aconitum columbianum	Columbian monkshood	FACW	native
Aquilegia formosa	crimson columbine	FAC	native
Ranunculus californicus	California buttercup	FAC	native
Ranunculus flammula	water buttercup	FACW	native
Ranunculus orthorhynchus	straight beaked buttercup	FACW	native
Rhamnaceae (Buckthorn Family)			
Ceanothus cordulatus	mountain whitethorn	UPL	native
Ceanothus integerrimus	deer brush	UPL	native
Ceanothus velutinus	tobacco brush	-	native
Frangula californica	California coffeeberry	-	native
Frangula purshiana	cascara sagrada	FAC	native
Rosaceae (RoseFamily)			
Drymocallis glandulosa	sticky cinquefoil	FAC	native
Heteromeles arbutifolia	toyon	-	native
Holodiscus discolor	oceanspray	FACU	native
Prunus emarginata	bitter cherry	FACU	native
Rosa californica	California wild rose	FAC	native
Rosa gymnocarpa	wood rose	FACU	native
Rubus armeniacus	Himalayan blackberry	FAC	non-native (invasive)
Rubus leucodermis	white bark raspberry	FACU	native
Rubus parviflorus	thimbleberry	FACU	native
Rubus ursinus	California blackberry	FACU	native
Sorbus scopulina	Cascade mountain ash	FACU	native
Spiraea douglasii	Douglas spiraea	FACW	native
Rubiaceae (Bedstraw Family)			
Galium trifidum	three petaled bedstraw	FACW	native
Galium triflorum	sweet scented bedstraw	FACU	native
Ruscaceae (Butcher's-Broom Famil	y)		
Maianthemum racemosum	feathery false lily of the valley	FAC	native
Salicaceae (Willow Family)			
Populus tremuloides	quaking aspen	FACU	native
Salix exigua	narrowleaf willow	FACW	native
Salix lasiandra	Pacific willow	FACW	native
Salix lasiolepis	arroyo willow	FACW	native
Salix scouleriana	Scouler willow	FAC	native
Sapindaceae (Soapberry Family)			
Acer circinatum	vine maple	FAC	native
Acer macrophyllum	bigleaf maple	FACU	native
Saxifragaceae (Saxifrage Family)			
Darmera peltata	Indian rhubarb	OBL	native



Scientific Name ¹	Common Name	Wetland Indicator Status ²	Origin
Scrophulariaceae (Figwort Family)		
Verbascum blattaria	moth mullein	UPL	non-native
Verbascum thapsus	woolly mullein	FACU	non-native (invasive)
Smilacaceae (Smilax Family)			
Smilax californica	California greenbriar	UPL	native
Taxaceae (Yez Family)	•		
Taxus brevifolia	Pacific yew	FACU	native
Themidaceae (Brodiaea Family)	•		
Triteleia hyacinthina	white brodiaea	FAC	native
Urticaceae (Nettle Family)	•		
Urtica dioica	stinging nettle	FAC	native
Verbenaceae (Verbena Family)	•		
Verbena lasiostachys	western vervain	FAC	native
Violaceae (Violet Family)		•	
Viola glabella	stream violet	FACW	native



¹ Taxonomic nomenclature for plant species follows the Jepson eFlora (2019).
² Wetland indicator status for plant species followed Lichvar, R. W., D.L. Banks, W.N. Kirchner, and N.C. Melvin. 2016. The National Wetland Plant List: 2016 wetland ratings. *Phytoneuron* 2016-30: 1-17.

Appendix D PHOTO LOG



Photo 1. Intermittent stream documented by data point



Photo 2. Fresh emergent wetland adjacent to Little Hatchet Creek.



Photo 3. Little Hatchet Creek, a perennial stream documented by data point 8.



Photo 4. Wetland seep spring along an access road.



Photo 5. Ephemeral stream documented by data point 9.



Photo 6. Fresh emergent wetland within Carberry Creek (data points 10 and 12).





Photo 7. Riparian wetland adjacent to Carberry Creek (data points 11 and 12).



Photo 8. Wetland meadow adjacent to Carberry Creek (data points 13 and 14).



Photo 9. Non-vegetated ditch (data point 15).



Photo 10. Ephemeral stream documented (data point 16). Orientation: east.



Photo 11. Non-vegetated ditch (data point 17). Orientation: southeast



Photo 12. Wetland meadow (data points 18 and 19). Orientation: west.





Photo 13. Fresh emergent wetland in a seasonally inundated pond (data points 20, 21 and 22).

Orientation: southwest.



Photo 14. Riparian wetland (data points 23 and 24). Orientation: south



Photo 15. Intermittent stream (data point 25). Orientation: south.



Photo 16. Suspect area documented as an upland (data point 26). Orientation: southwest



Photo 17. Seasonal wetland adjacent to a road (data points 27 and 28). Orientation: southwest.



Photo 18. Intermittent stream (data point 29). Orientation: southwest.





Photo 19. Wetland meadow (data points 30 and 31). Orientation: west.



Photo 20. Riparian wetland within Hatchet Creek (data points 32 and 33).



Photo 21. Seasonal wetland within a wetland meadow (data point 34).



Photo 22. Wetland meadow (data points 35 and 36). Orientation: west.



Photo 23. Non-vegetated ditch (data point 37). Orientation: noth



Photo 24. Vegetated ditch (data points 38 and 39). Orientation: east





Photo 25. Riparian wetlands adjacent to North Fork of Montgomery Creek (data points 40 and 41).

Orientation: northwest.



Photo 26. Cedar Creek, a perennial stream (data points 42-44). Adjacent riparian wetlands are recovering from a recent bridge installation. Orientation: southwest.



Photo 27. Wetland seep spring adjacent to a road (data points 45 and 46). Orientation: northwest.



Photo 28. Ephemeral stream (data point 47). Orientation: north.



Photo 29. Intermittent stream (data point 48). Orientation: north.



Photo 30. W-10, W-11. Ephemeral stream (data point 49). Orientation: north.





Photo 31. Non-vegetated ditch (data point 50). Orientation: west.



Photo 32. Riparian wetland (data points 51 and 52). Orientation: northwest.



Photo 33. Wetland seep spring (data points 53 and 54). Orientation: north.



Photo 34. Little Cow Creek and riparian wetlands (data points 55 and 56). Orientation: north.



Photo 35. Riparian wetland (data points 57 and 58). Orientation: west.



Photo 36. Wetland seep spring (data points 59 and 60). Orientation: east.





Photo 37. Fresh emergent wetland in a perennial stream (behind shovel) and riparian wetland (in front of shovel) (data points 61-63). Orientation: north.



Photo 38. Vegetated ditch (data points 64 and 65). Orientation: east.



Photo 39. Water marks on a rock in a seasonal wetland (data points 66 and 67).



Photo 40. Intermittent stream (data point 68).



Photo 41. Hatchet Creek a perennial stream documented (data point 69). Orientation: southwest.



Photo 42. Riparian wetland (wetland [W-] 1).







Photo 45. Riparian wetland (W-5 and W-6), and perennial drainage (D-) A1, Hatchet Creek.



Photo 47. Wetland seep (W-10, W-11).



Photo 44. Wetland meadow (W-3).



Photo 46. Riparian wetland (W-8, W-9), perennial drainage D-1, North Fork of Cedar Creek. Orientation: west



Photo 48. Riparian wetland (W-50).





Photo 49. Intermittent drainage (D-B).



Photo 50. Ephemeral drainage (D-C).



Photo 51. Intermittent drainage (D-D).



Photo 52. Intermittent drainage (D-G1).



Photo 53. Perennial drainage (D-H) in a wetland meadow (W-2).



Photo 54. Perennial drainage (D-J).





Photo 55. Perennial drainage (D-K).



Photo 57. Intermittent drainage (D-L).



Photo 56. Perennial drainage (D-K1), North Fork Little Cow Creek.



Photo 58. Perennial drainage (D-L1).

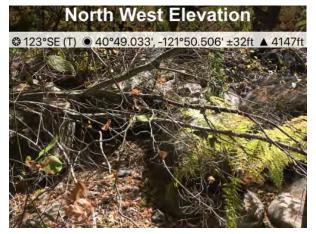


Photo 59. Perennial drainage (D-O), North Fork of Montgomery Creek.



Photo 60. Intermittent drainage (D-P1).





Photo 61. Perennial drainage (D-Q), South Fork of Montgomery Creek.



Photo 62. Perennial drainage (D-R).



Photo 63. Perennial drainage (D-S). Orientation: north



Appendix E BIOLOGIST RESUMES



John Holson

Project Biologist

For 10 years, John has managed and assisted in the field data collection for a variety of assessments and surveys, including special-status plant surveys, vegetation mapping, wetland delineations, special-status bird surveys, nesting bird surveys, and mitigation monitoring. He has written and managed special-status plant survey reports, wetland delineation reports, special-status bird survey reports, numerous environmental impact reports (EIR) in accordance to CEQA, environmental impact statements (EIS) in accordance to NEPA, biological assessments (BAs), and natural environment studies (NES) in accordance to Caltrans projects.

John has extensive botanical experience throughout California, conducting spring floristic surveys and wetland delineations for the past ten field seasons. He has also done botanical work in several other states in the US West, including Montana, Washington, Nevada, Arizona, and Utah. His experiences with wildlife biology, specifically with birds, also make him a versatile employee. He has been working with birds for the past eight years, including activities such as surveying, banding, and monitoring.

John's project management experience includes overseeing budgets, personnel, coordinating schedules, and communicating with resource agencies, California Department of Fish and Wildlife (CDFW), U.S. Fish and Wildlife Service (USFWS), Bureau of Land Management (BLM), Regional Water Quality Control Board (RWQCB), and Army Corp of Engineers (Corps).

EDUCATION

California, 2015

BS, Ecology, University of California, Santa Barbara, California, 2004

CERTIFICATIONS & TRAINING

Raptor Handling and Banding Permit, Golden Gate Raptor Observatory, San Francisco, California, 2017 Bald and Golden Eagle Workshop, San Francisco,

California Rapid Assessment Method (CRAM) Training, California Wetlands Monitoring Workgroup, Willits,

California, 2010

Basic Wetland Delineation, Wetland Training Institute, Sacramento, California, 2009

California Native Plant Society Vegetation Rapid Assessment Workshop, Sierra Nevada Aquatic Research Laboratory, Mammoth Lakes, California, 2007

Jepson Manual Workshop, Santa Barbara Botanical Garden, Santa Barbara, California, 2005

PROJECT EXPERIENCE

HIGH SPEED RAIL

DesertXpress Environmental Services EIR/EIS * | Barstow to Prim, California and Nevada | Lead Botanist/Wetland Ecologist

John conducted botanical surveys in addition to a wetland delineation in and around Las Vegas and Prim, Nevada, as well as Baker and Barstow, California. His duties included identifying local vegetation, assessing soils, and identifying hydrologic indicators. Wetland delineation information compiled was used by the Corps to verify potentially jurisdictional waters of the United States in that region.

Pacheco Pass Corridor EIR/EIS* | San Jose, California, United States | 2009-2017 | Lead Botanist/Wetland Ecologist

John managed and participated in botanical and wetland delineation surveys in support of an EIR/EIS for a new high speed rail proposed from San Jose to Merced, California. His duties included managing a crew of five botanists, plotting daily routes, conducting botanical surveys, as well as every day logistics for the project. John conducted vegetation classification, a botanical inventory, identification of special-status plant species, as well as plant identification and classification based on the wetland indicator status of the plant species. Wetland delineation information compiled was put into a wetland delineation report and used by the Corps to verify potentially jurisdictional waters of the United States in that region. Role: Lead Botanist/Wetland Ecologist | Dates involved: 2009-2017

California High Speed Rail Project Wetland Delineation* | Chowchilla, California, United States | 2013-2017 | Wetland Ecologist

John collected extensive wetland delineation field surveys in support of a delineation of waters of the United States and State for the Central Valley Wye segment of the project, in Merced and Madera Counties. These delineations encompassed a variety of habitats including riparian forest, freshwater marsh, seasonal wetland, and extensive agricultural land. Data collected also involved

mapping wetland features using ArcGIS and GPS units, vegetation classification, a botanical inventory, as well as identification and classification based on the wetland indicator status of the plant species. Wetland delineation information compiled was put into a wetland delineation report and used by the Corps to verify potentially jurisdictional waters of the United States in that region. Role: Wetland Ecologist | Dates involved: 2013-2017

RENEWABLE ENERGY

Tehachapi Renewable Transmission Project Biological Consulting Services* | Southern California | Wildlife Biologist

John conducted monitoring and surveys in support of a large-scale transmission line project through several areas of Southern California, specifically Segments 7 and 8. This involved appropriate project training, using the FRED and Sugarsync programs, and becoming familiar with SCE protocols. His duties include construction monitoring for wetlands, nesting birds, and other biological resources.

Tehachapi Renewable Transmission Project (TRTP) Wetland Delineation* | Greater Los Angeles Area and Angeles National Forest, Los Angeles County, California | Wetland Ecologist

John conducted surveys in support of large-scale wetland delineation report for a proposed transmission line through several areas of Southern California, including in the Angeles National Forest. His duties included collecting data to characterize waters of the United States, including wetlands, and adjacent vegetation types per guidance from the Corps. Data was collected and mapped using Tremble Yuma GPS units and plotted on aerial photo-based maps utilizing ARCPAD software.

BOTANICAL SURVEYS

Mokelumne River Plant Surveys* | El Dorado National Forest, California | Lead Botanist

John conducted large-scale vegetation mapping in addition to special-status plant surveys along PG&E roads near the Mokelumne River in El Dorado National Forest. His duties included mapping and reporting any special-status/forest service sensitive species or communities located and led to the observation of several protected species in the area. A subsequent report was prepared using the results of the survey.

North County Corridor EIR/EIS* | Modesto, California, United States | 2011-2017 | Lead Botanist/Wetland Ecologist

John conducted large-scale botanical surveys and wetland delineation in and around Oakhurst, Riverside, and Salida, California. John conducted vegetation classification, a botanical inventory, identification of special-status plant species, as well as plant identification and classification based on the wetland indicator status of the plant species. Wetland delineation information compiled was used by the U.S. Army Corps of Engineers to verify potential jurisdictional waters of the United States. Role: Lead Botanist/Wetland Ecologist | Dates involved: 2011-2017

BIOLOGICAL MONITORING

CP Biological Effectiveness Monitoring* | Sacramento, California | Lead Botanist

John conducted several types of vegetation mapping surveys for the Natomas Basin Conservancy, a primarily agricultural area north of Sacramento. This includes mapping land cover types, surveying for special-status plant species, surveying for noxious weed populations in the area, as well as assessing the change in land cover types over the last five years. Data was used to determine habitat for special-status species including the giant garter snake and Swainson's hawk.

Caltrans Restoration Project - Service-Approved Biological Monitoring for Red-Legged Frog and California Tige r Salamander* | Livermore, California, United States | 2017 | Wildlife Biologist

John monitored mitigation and restoration efforts near Livermore, California, which included monitoring for disturbance near bodies of water that had known occurrences for California tiger salamander and redlegged frog. This included pre-construction surveys, monitoring all ground disturbance activities, and environmental education concerning the California tiger salamander and red-Legged Frog. Role: Wildlife Biologist | Dates involved: 2017

Palermo Transmission Line Project Habitat Monitoring For Giant Garter Snake* | Marysville, California | Wildlife Biologist

John monitored mitigation and restoration efforts near Marysville, California, which include surveying wetland habitat suitability for Giant Garter Snake. His duties included mapping, sampling, and assessing wetland vegetation in areas restored as giant garter snake habitat.

STUDIES AND EVALUATIONS

Rosamond PV Solar Technical Studies* | Rosamond, California | Lead Botanist/Wetland Ecologist

John conducted botanical surveys in addition to a wetland delineation on the Rosamond PV project site in Kern County, California. John conducted vegetation classification, a botanical inventory, identification of special-status plant species, as well as plan identification and classification based on the wetland indicator status of the plant species. Wetland delineation information compiled was used by the Corps to verify potentially jurisdictional waters of the United States.

APPROVALS AND PERMITTING

Carrizo to Midway Permitting Augmentation* | San Luis Obispo and Kern Counties, California | Wetland Ecologist

John conducted a wetland delineation along a transmission line from the Carrizo Plain to Buttonwillow, California. His duties included identifying local vegetation types, assessing soils, and identifying hydrologic indicators. Wetland delineation information compiled was used by the Corps to verify potentially jurisdictional waters of the United States in that region.

WILDLIFE SURVEYS AND STUDIES

Swainson's Hawk Surveys and Monitoring - West Feather River Levee Project,* | Feather River, California | Lead

Wildlife Biologist

John conducted protocol level Swainson's Hawk surveys for four year concurrently in support of a large-scale levee improvement project along the Feather River. His duties included construction surveying for Swainson's hawks, monitoring for nesting birds and other biological resources.

Crane Valley Dam, Stockpile Expansion Bio Surveys* | Sierra National Forest, California | Lead Botanist/Wildlife Biologist

John was tasked with providing environmental surveys and documentation to support the additional quarry stockpile areas needed for the Crane Valley Dam Seismic Retrofit Project. Surveys conducted include wetland resources, special-status/forest service sensitive plant species, California spotted owl surveys, and Northern goshawk surveys. This included duties, such as mapping wetlands using Tremble GPS units, walking transects for plant species, and conducting playback surveys for the aforementioned bird species. A subsequent report was prepared using the results of the survey.

CONSTRUCTION MONITORING

Shiloh III Wind Farm Construction Monitoring for Wetlands, California Tiger Salamander* | Solano County, California, United States | 2010-2012 | Wildlife Biologist

John monitored the construction of a wind farm in Solano County, which included monitoring for disturbance near wetlands that had known occurrences for California tiger salamander. This included ensuring that wetlands and their associated buffers were not disturbed, mapping potential wetlands/habitat, and environmental education concerning the salamander. Role: Wildlife Biologist | Dates involved: 2010-2012

ENVIRONMENTAL CONSULTING

Raptor and Songbird Banding* | Northern California | 2008-2015 | Wildlife Biologist

John participated in local bird banding efforts near the Bay Area and Sacramento, California. Birds were trapped using a variety of techniques involving mist nets, dhogaza nets, and bow nets. Bird bands, both lock and butt varieties, were placed on the bird's leg, after which data was collected and the birds released. Species include numerous songbirds in addition to raptor specific banding which involves bird of prey species.

Gabe Youngblood

Project Biologist

Gabe has 15 years of experience as a professional biologist working throughout northern California. He has conducted protocol-level and targeted surveys. biotic assessments, and construction site monitoring for numerous species of special-status wildlife including benthic invertebrates, fairy shrimp, terrestrial mollusks, valley elderberry longhorn beetle, Shasta salamander, California red -legged frog, giant garter snake, northern goshawk, spotted owl, willow flycatcher, pileated woodpecker, white-headed woodpecker, and forest carnivores. He also has significant experience in conducting botanical surveys, wetland delineations, Forest Inventory Analysis, and fish population surveys. In addition to biological field surveys and monitoring, Gabe has experience with the regulatory requirements of the California Environmental Quality Act, National Environmental Policy Act, and Endangered Species Act; and he has participated in the preparation of natural environment study reports, biological assessments, environmental assessments, initial studies, and environmental impact reports.

EDUCATION

Bachelor of Science, Wildlife Management, Humboldt State University, Arcata, California, 2006

PROJECT EXPERIENCE

ENVIRONMENTAL

Big Hill Carnivore Survey* | California | 2011 | Biologist

Conducted a sensitive forest carnivore survey within Plumas National Forest. Methods involved the use of photographic bait stations to detect sensitive species.

Forest Inventory Analysis* | California | 2008-2011 | Forestry Technician

Conducted sampling of permanent vegetation plots throughout multiple National Forests in California as part of USDA Forest Service Forest Inventory Analysis.

Coleman-South Guy and Anchor Project* | California | 2009 | Biologist

Conducted a delineation of waters of the United States within a 50-foot radius around each of 40 wood poles located along an 8-mile stretch of the Coleman-South 60 kV Line.

Cottonwood–Roseville Optical Ground Wire Project Wetland Delineation* | California | 2012 | Biologist

Performed an assessment of biological and wetland resources for a large transmission line upgrade project extending from Shasta to Placer counties, California. The assessment included a wetland delineation to U.S. Army Corps of Engineers standards in the entire study area, which encompassed 2,700+ acres, extended 140+ miles through 7 counties, and involved hundreds of private landowners.

L402 ILI Upgrade Project | Redding, California | 2015-2016 | Biologist

Evaluated habitat to support special-status species and defined boundaries of waters of the United States. Developed avoidance and minimization measures to avoid impacts on sensitive resources. Conducted preconstruction nesting bird surveys.

L402 Strength Test * | Redding, California | 2016 | Biologist

Performed pre-construction nesting bird surveys and biological constraints assessments. Conducted a delineation of waters of the United States at project locations where wetlands were identified during biological constraints assessments.

Logan Creek Pole Replacement Project* | California | 2012 | Biologist

Conducted a delineation of waters of the United States in a 25-foot radius around 20 wooden utility poles along one-and-a-half miles of 12 kV Line located adjacent to County Pond 30

Mokelumne River Re-Licensing Support, Fishery Surveys * | 2009 | Biologist

Collected aquatic habitat (SWAMP) data and conducted snorkel and backpack electrofishing surveys to assess fish species composition and fish abundance on several tributaries to the Mokelumne River.

Northern Spotted Owl and Barred Owl Surveys* | California | 2010 | Biologist

Conducted protocol-level northern spotted owl surveys and experimental barred owl surveys for seven vegetation management projects located in the Mendocino National Forest.

Region 5 Sensitive Mammals Evaluation* | California | 2007 | Biologist

Prepared an ecological assessment for over 100 rare mammals within National Forest lands throughout California. The assessment included a comprehensive literature review and preparation of a summary of the biology and ecology of each species; culminating in a determination of whether each species should be considered "Sensitive" to National Forest System management actions.

Roseville–Elverta Optical Ground Wire Project* | Roseville, California | 2013 | Biologist

Performed biological surveys, worker awareness training, and environmental monitoring for Western's Roseville-Elverta Optical Ground Wire project. Environmental issues included vernal pools and other wetlands, nesting raptors, and other nesting birds.

Klamath Northern Spotted Owl Surveys* | California | 2010 | Biologist

Conducted northern spotted owl surveys supporting management activities on the Klamath National Forest. Northern spotted owl surveys were conducted following the protocol-level "nighttime surveys using roads" technique. Follow-up surveys and nest searches were also conducted following the survey protocol.

L-121 Strength Test * | Yuba City, California | 2016 | Biologist

Performed construction monitoring for giant garter snake during gas pipeline inspection and replacement.

Deschutes Road Widening Project – Phase 1* | California | 2016-2017 | Biologist

Conducted a wetland delineation survey, biological reconnaissance survey, and protocol-level valley elderberry longhorn beetle survey. Prepared wetland delineation and natural environmental study reports, and a technical memo explaining why project would have no impacts on valley elderberry longhorn beetle.

Parkville Road at Ash Creek Bridge (06C-0220) Replacement Project* | California | 2015

Conducted a wetland delineation survey and biological reconnaissance survey. Prepared a wetland delineation report and a technical memo explaining why the project would have no impacts on California red-legged frog.

Shasta Dam and Reservoir Enlargement NEPA Documentation and Technical Studies* | California | 2009-2015 | Biologist

Conducted surveys for a variety of technical studies related to the proposed enlargement of Shasta Lake. These studies include survey and manage terrestrial mollusks, amphibians, forest carnivores, botanical resources, wetland resources, and avian species.

Pileated Woodpecker and White-Headed Woodpecker Surveys* | Oregon | 2007 | Biologist

Conducted surveys for pileated woodpecker and whiteheaded woodpecker as part of the biological resource monitoring of 24,000 acres in the Sun Pass State Forest. The surveys included determination of presence/absence of these species and follow-up surveys to locate nest stands or trees.

PG&E McCloud/Pit Re-Licensing Support* | California | 2007 | Biologist

Conducted protocol surveys for northern spotted owl and Shasta salamander at McCloud Reservoir, Hawkins Bar, Iron Canyon Reservoir, Pit 5, Pit 6, and Pit 7.

Pipeline Pathways Program* | California | 2013-2015 | Biologist

Conducted environmental constraints analyses, San Joaquin Valley Habitat Conservation Plan (SJVHCP) preactivity surveys, CDFW Master Stream Alteration Agreement Verification Request Forms, preconstruction nesting bird surveys, worker environmental training, and monitoring. Work was conducted in Glenn, Yolo, Stanislaus, San Joaquin, Sutter, Colusa, Shasta, Tehama, Trinity, Fresno, and Amador counties.

Quartz Hill Road Improvement Project* | Redding, California | 2016-2017 | Biologist

Preformed reconnaissance-level biological survey, vegetation and habitat mapping, and a delineation of waters of the United States. Prepared Natural Environmental Study and wetland delineation reports.

Eastside Road at Onley Creek Bridge Replacement Project* | Redding, California | 2016 | Biologist

Preformed reconnaissance-level biological survey, vegetation and habitat mapping, and a delineation of waters of the United States.

On-Call Biological Services Western Area Power Administration | California | 2011-Present | Biologist

Currently conducting biological surveys, preparing impact assessments, and developing biological conservation measures for Western's Integrated Vegetation Management Program. Tasks also include Migratory Bird Treaty Act compliance surveys for avian species and biological monitoring for giant garter snake, California redlegged frog, and nesting birds.

Orland Sand and Gravel Delineation of Stony Creek Ordinary High Water Mark* | California | 2017

Preformed delineation of the ordinary high water mark of Stony Creek on four privately owned parcels. Prepared ordinary high water mark delineation report.

Sheryl Creer M.S.

Biologist, Botanist

Sheryl has over 10 years of experience as a field biologist and botanist in California and specializes in large-scale infrastructure and utilities projects such as electric transmission lines, gas pipelines, wind energy, and groundwater storage and recovery. She conducts rare plant surveys, wetland and drainage delineations, impacts analyses, habitat assessments, maps vegetation, and prepares habitat restoration and mitigation and monitoring plans. Sheryl also has extensive experience in environmental inspection and construction monitoring. She also prepares technical documents and permit applications for various regulatory agencies including the U.S. Army Corps of Engineers (USACE), California Department of Fish and Wildlife (CDFW), and the United States Fish and Wildlife Service (USFWS).

EDUCATION

B.S., Biology, concentration in Botany, San Francisco State University, San Francisco, California, 2010

M.S., Biology, concentration in Ecology, Evolution, and Conservation, San Francisco State University, San Francisco, California, 2013

MEMBERSHIPS

Member, former Board Member, California Botanical Society

Member, California Native Plant Society, 2009-Present

AWARDS

2013 Department of Biology Distinguished Graduate Student Award, San Francisco State University

PROJECT EXPERIENCE

BOTANICAL SURVEYS

Eldorado-Lugo-Mohave Transmission Line Upgrade Project* | Mojave Desert and Other Locations in California and Nevada, California and Nevada, United States | 2014-2016 | Field Lead

Sheryl coordinated a team of eight botanists for protocollevel rare plant surveys and vegetation mapping along a transmission line corridor spanning 245 miles from Hesperia, California, east to Laughlin, Nevada, and north to Boulder City, Nevada. She coordinated and conducted wetland and drainage delineations along the same corridor. Special-status species mapped during plant surveys included short-joint beavertail cactus (Opuntia basilaris var. brachyclada), spiny-hair blazing star (Mentzelia tricuspis), and Mojave menodora (Menodora spinescens var. mohavensis), among others. Role: Field Lead | Dates involved: 06/2014–06/2016

650 Line Rebuild Project* | Tahoe National Forest and Placer County, California, United States | 2014-2016 | Botanist/Wetland Specialist

Sheryl conducted biological surveys—including wetland delineations, vegetation mapping, and rare plant and noxious weed surveys-for the wood to steel rebuild of approximately 9 miles of electric transmission line in Tahoe National Forest and adjacent areas in Placer County. She prepared the Botanical Resources Survey Report and Preliminary Wetland Delineation Report as well as the drainage delineation and permit application package for a CDFW Lake or Streambed Alteration Agreement (LSAA). Sheryl also developed a postconstruction Habitat Restoration Plan that included the restoration of wetlands and riparian zones and monitoring of a population of a special-status plant species, Plumas ivesia (Ivesia sericoleuca). She assisted with preconstruction special-status wildlife species surveys, including pedestrian night surveys for bats, burrow mapping, and pedestrian amphibian surveys. Role: Botanist/Wetland Specialist | Dates involved: 05/2014-

Pipeline Safety & Diego Reliability Project* | San Diego County, California, United States | 2015 | Botanist

Sheryl conducted protocol-level rare plant surveys, field confirmation of vegetation mapping, and a wetland delineation for the construction of an approximately 50-mile natural gas transmission pipeline in San Diego County. She assisted in identifying and mapping host plants for Quino checkerspot butterfly (Plantago erecta and Castilleja exserta) and Hermes copper butterfly (Rhamnus crocea). Sheryl also authored the Special-Status Plant Species Report and co-authored the Biological Technical Report, the Jurisdictional Delineation Report, and the Biological Resources section of a Proponent's Environmental Assessment (PEA) for the project. Role: Botanist | Cost: unknown | Dates involved: 02/2015–06/2015

ENVIRONMENTAL INSPECTION

Groundwater Storage and Recovery Project* | San Mateo County, California | 2015-2016 | environmental inspector

Sheryl served as an environmental inspector and monitor for the construction and operation of 13 new groundwater well facilities in San Mateo County. The project involved environmental inspection, specialty monitoring, and interpretation of agency-imposed mitigation measures associated with sensitive species and water quality.

BIOLOGICAL MONITORING

Line 109 Hydrostatic Testing* | Woodside, California, United States | 2015 | Lead Biological Monitor

Sheryl conducted biological monitoring for the excavation and hydrostatic testing of a natural gas transmission pipeline located within critical habitat for Bay checkerspot butterfly. She prepared environmental compliance training materials and provided training to crew members and supervisors. Sheryl also prepared daily environmental inspection reports. Upon project completion, she assisted with habitat restoration and prepared a post-construction report for the USFWS. Role: Lead Biological Monitor | Dates involved: 07/2015-11/2015

ECOSYSTEM RESTORATION

City of Sunnyvale Primary Water Treatment Facility Upgrade* | Sunnyvale, California | 2017-2018

Sheryl managed the development of a restoration plan for a wetland and riparian mitigation site. She also implemented and monitored compliance with project permit requirements including coordinating nesting bird and burrowing owl surveys and developing and providing worker environmental awareness training.

VEGETATION ASSESSMENTS

Hollister 115 Kilovolt Power Line Reconductoring Project* | San Benito County, California, United States | 2014-2016 | Bontanist

Sheryl conducted 3 years of annual vegetation restoration monitoring and reporting for the reconductoring and replacement of structures along approximately 16 miles of 115 kilovolt power lines. Vegetation monitoring included sampling vegetation within rangeland, chaparral planting monitoring, and wetland monitoring including soils, hydrology, and vegetation. She also prepared annual reports for agency submittal. Role: Botanist | Dates involved: 04/2014-04/2016

North-South Interconnect Project* | San Bernardino and Riverside Counties, California | 2014-2016

Sheryl complied and analyzed revegetation monitoring data collected during post-construction monitoring for the conversion of approximately 76 miles of petroleum pipeline to natural gas, as well as the construction of approximately 1.2 miles of new pipeline in San Bernardino and Riverside counties. She also authored the Year 3 Restoration and Revegetation Annual Report.

PUBLICATIONS

Creer, S. and R. Patterson. Book Review: The Drunken Botanist, by Amy Stewart.. *Madroño*, 2014, pp. 61(1):144-145.

PRESENTATIONS

Sub-Family Reunion: Will the North American Arbutoids be Invited?. *California Botanical Society Symposium*, 2013.

Addressing Paraphyly in Arbutus (Ericaceae). *Northern California Botanists Symposium*, 2014.

Brendan Cohen

Biologist/Environmental Scientist

Brendan is a professional biologist and associate environmental planner with experience evaluating biological and environmental impacts in California. He has conducted special-status species surveys, habitat site assessments, wetland delineations, and prepared biological sections for CEQA/NEPA environmental documents. He routinely implements Worker Environmental Awareness Programs (WEAP), conducts preconstruction surveys, and performs biological construction monitoring. He has experience drafting Biological Resource Assessments, Biological Assessments, Jurisdictional Determinations/Wetland Delineations, and Caltrans Natural Environment Studies. Brendan has experience with GPS equipment for arborist surveys, wetland delineations, and other natural resource analyses.

Brendan also drafts CEQA/NEPA environmental documents which includes analyzing impacts to various environmental resources and reviewing and preparing technical studies. Brendan has assisted in the preparation of environmental documents including Initial Studies/Mitigated Negative Declarations (IS/MND) and Environmental Impact Reports/Environmental Assessments (EIR/EA). He has also assisted with preliminary documents and technical studies for Caltrans-funded projects. These include Preliminary Environmental Awareness Reports, Preliminary Environmental Study forms, Section 4(f) analyses, Community Impact Assessments, and Visual Impact Assessments. He has also prepared public noticing documents, responded to public comments, drafted Mitigation Monitoring Programs (MMP), and prepared final document packages.

EDUCATION

Bachelor of Science, Ecology and Evolutionary Biology, University of California, Santa Cruz, California, 2013

CERTIFICATIONS & TRAINING

CPR/First Aid Certification, Sacramento, California, 2017

Rare Pond Species Survey Techniques Workshop. California tiger salamander (CTS), Western Pond Turtle, and California red-legged frog (CRLF). Workshop allowed for the handling of larval CTS and adult CRLF in the presence of a permitted biologist, Santa Rosa, California, 2017

Ringtail Workshop, Yuba City, California, 2017

Amphibian of the Bay Area Workshop, Santa Rosa, California, 2016

CEQA Essentials Workshop, West Sacramento, California, 2016

CEQA Training for Biologists, Rancho Cordova, California, 2016

CNDDB/BIOS/RareFind5 Training, Sacramento, California, 2015

Western Pond Turtle Workshop, Petaluma, California, 2015

Habitat Conservation Planning Workshop, Vacaville, California, 2015

MEMBERSHIPS

Member, Superior California Chapter, California Association of Environmental Professionals

PROJECT EXPERIENCE

ASSESSMENT, PERMITTING AND COMPLIANCE

APHIS-WS Integrated Wildlife Damage Management (IWDM) Program and Agreement Renewal* | Monterey County, California | 2017

The USDA Animal Plant and Health Inspection Service (APHIS) – Wildlife Services (WS) division implements a program in Monterey County to protect human health, agricultural resources, and infrastructure from predators and nuisance wildlife. Analyzed the biological impacts associated with renewal of the cooperative agreement for the IWDM program. Drafted the Initial Study biological resources section.

BNSF Le Grand to Merced Double Track Project* | Merced County, California | 2015 | Biological Monitor

Conducted daily biological construction monitoring for the construction of a new railroad track. Species of concern included San Joaquin kit fox, western pond turtle, giant garter snake (GGS), CTS, burrowing owl, Swainson's hawk and other nesting birds. Implemented buffers for active nests, trained workers using a WEAP and presented daily morning updates to the work crew.

California State Prison, Los Angeles County Wind Energy Generation Project* | Los Angeles County, California | 2016-2017 | Environmental Planner

Drafted an IS/MND evaluating impacts from the development of a wind turbine within the California State

Prison, Los Angeles County. Responded to public comments, filed the Notice of Intent and IS/MND with the State Clearing House and Los Angeles County Clerk, and prepared the final document package.

Camanche Tank 9 Replacement* | Ione, California | 2017 | Biologist/Biological Monitor

Conducted a preconstruction sensitive area demarcation, nesting bird survey, WEAT, and compliance monitoring. Duties included demarcating an area for exclusionary fencing to be placed around an elderberry shrub, placing pin flags at potential CTS burrows, and identifying active bird nests prior to construction. Conducted a WEAP for new workers as well as daily monitoring of ground disturbing activities.

Chappell Road Annexation Project* | Hollister, California | 2016 | Biologist

This project included the preparation of an EIR for a Sphere of Influence Annexation on a property in the City of Hollister. Conducted a biological site visit and evaluated the potential for special-status species to occur including burrowing owl, San Joaquin kit fox, San Joaquin whipsnake, and nesting birds. Drafted the biological section of the EIR and prescribed minimization measures for the above species.

City of Elk Grove Routine Channel Maintenance* | Elk Grove, California | 2015-2016 | Biologist and Monitor

Monitored maintenance activities within the City's drainages and creeks under City's Routine Maintenance Agreement and Routine General Permit. Performed daily WEAPs and preconstruction surveys for GGS, Valley Elderberry Longhorn Beetle (VELB), western pond turtle, and nesting migratory birds and raptors.

Community Pipeline Safety Initiative Program* | Multiple Locations, California | 2017-Present | Biologist

Performed preconstruction nesting bird surveys at multiple locations throughout California's Central Valley. Duties included performing reconnaissance level bird surveys following established protocols, and documenting active bird nests.

Corral Bottom Road at Trinity River Bridge Replacement Project* | Trinity County, California | 2017-Present | Environmental Planner

Drafted the Drafted the Visual Impact Assessment (VIA) for a bridge replacement project. Conducted the fieldwork for the VIA which included photographing the project from key viewpoints.

Humboldt Bay Trail South* | Humboldt County, California | 2017 | Environmental Planner

Drafted the VIA for a Class I multi-use trail project. Conducted the fieldwork for the VIA which included photographing the project from key viewpoints.

Old Town Elk Grove Streetscape Project, Phase II* | Elk Grove, California | 2016 | Environmental Planner and Biologist

Drafted an IS/MND evaluating impacts from implementation of a streetscape improvement project in the Old Town Elk Grove Historic District. Prepared the

IS/MND, created the MMP and handled public noticing requirements. Responded to public comments and drafted the City's Staff Report and Resolution to present to the City Council for project adoption.

Pacific Connector Gas Pipeline Project* | Environmental Analyst

Assisted in the preparation of technical studies for the creation of a 232-mile long pipeline project. Revised technical studies that support the project's compliance with the Northwest Forest Plan.

Soledad Wind Energy Generation Project 2* | Soledad, California | 2016 | Environmental Planner

The City of Soledad proposed to install a second wind turbine within the City's wastewater treatment plant to provide 100% renewable energy. Drafted an IS/MND, responded to public comments, prepared the MMP, and filed the Notice of Completion.

Swainson's Hawk Conservation Easement Monitoring* | Elk Grove, California | 2015-2016 | Biologist

Visited sites under annual conservation easements for Swainson's hawk foraging habitat with the City of Elk Grove. Verified crop types, biological conditions, and the presence of nearby raptor nests. Drafted annual status reports documenting condition changes and compliance with the easement.

Taylor Boulevard Development* | Pleasant Hill, California | 2016 | Biologist

Conducted a peer review of biological studies and performed a site visit documenting habitat for a residential subdivision project. Evaluated the site for potential occurrences of VELB, burrowing owl, and Alameda whipsnake. Drafted a peer review memo and biological section for the IS/MND.

Eastside Road at Olney Creek Bridge Replacement Project* | Redding, California | 2017 | Environmental Planner

Drafted the IS, MND, and MMP. Resources analyzed in the environmental document include aesthetics, agricultural resources, air quality, biological resources, cultural resources, geology and soils, greenhouse gas emissions, hazardous materials, hydrology, land use, mineral resources, noise, population, public services, recreation, transportation, tribal cultural resources, and utilities.

Hawkins Station Generator Project* | Santa Rosa, California | 2016 | Monitor

Conducted biological monitoring for the placement of a new generator pad at a Cal Water station within Santa Rosa. The project site contained adjacent vernal pools; monitored for potential CTS activity and habitat destruction.

Honeydew Bridge Replacement Project* | Humboldt County, California | 2017-Present | Environmental Planner

Drafted the VIA. Conducted the fieldwork for the VIA which included photographing the project from key viewpoints. Drafted the EIR/EA. Resources analyzed included land use, community impacts, utilities, traffic,

visual/aesthetics, paleontology, hazardous waste, air quality, noise, energy, biological resources, greenhouse gases, and cumulative impacts.

Horseshoe Bend Levee Improvement Project* | Bethel Island, California | 2016 | Biologist and Environmental Planner

Assisted with a habitat site assessment and wetland delineation. Assisted in drafting the Jurisdictional Determination and Biological Assessment. Special-status species evaluated included vernal pool crustaceans, anadromous fish. Assisted BIMID in circulating the IS/MND for public review and responding to public comment.

Live Oak WWTP Plant Solar Project* | Live Oak, California | 2016 | Biologist

Conducted a site visit and evaluated biological impacts for the Live oak wastewater treatment plant to install solar panels on their property. Analyzed potential habitat and impacts to burrowing owl, VELB, GGS, CTS, and nesting birds. Drafted the IS/MND biology section and prescribed minimization measures for the above species.

McKean Road Tank and Pipeline Project* | Santa Clara County, California | 2017 | Biological Monitor

Conducted biological construction monitoring for the construction of a new water tank and pipeline. Species of concern included CTS, CRLF, Least Bell's vireo, western pond turtle, Bay checkerspot butterfly, burrowing owl, Blainville's horned lizard, white-tailed kite, golden-eagle, pallid bat, San Francisco dusky-footed woodrat, Chinook salmon, Steelhead, and special-status plants. Performed daily pre-activity clearance surveys; trained workers using a WEAP; and monitored project's compliance to 1602 Streambed Alteration Agreement, USFWS Biological Opinion, and Santa Clara Valley Habitat Conservation Plan permit.

SPMUD Trunk Sewer Relocation Project* | Rocklin, California | 2017 | Biological Monitor

Performed daily pre-activity surveys, WEAP trained new workers, and monitored the status of birds nesting near the project area.

Sara Cortez

Senior Biologist

As a senior biologist with over 13 years of experience, Sara has been involved in a variety of project including collaborating with the U.S. Army Corps of Engineers (Corps) and Regional Water Quality Control Board (RWQCB) CWA Sections 401 and 404, California Department of Fish and Wildlife (CDFW) California Fish and Game Codes (CFGC) Sections 1600 and 2081, and with U.S. Fish and Wildlife Service (USFWS) and National Marine Fisheries Service (NMFS) for projects requiring federal Endangered Species Act (ESA) authorization. Sara has acquired experience on a wide variety of projects throughout California. She has a diverse skillset in wetland ecology, botany, aquatic invertebrate biology and water quality analysis. She has experience surveying and monitoring specialstatus species including; California red-legged frog (Rana draytonii), burrowing owl (Athene cunicularia), California tiger salamander (Ambystoma californiense) and federally listed vernal pool crustaceans. Sara routinely prepares wetland delineations, habitat suitability assessments, and special-status species investigations and has prepared numerous permit applications. She has also prepared reports and assessments to document compliance with California Environmental Quality Act (CEQA), National Environmental Policy Act (NEPA), Migratory Bird Treaty Act, federal and state Endangered Species Acts (ESA), Clean Water Act (CWA), and California Fish and Game Codes (CFGC).

EDUCATION

Bachelor of Science, Environmental and Resource Sciences, Hydrobiology Emphasis, University of California, Davis, California, 2002

CERTIFICATIONS & TRAINING

California Rapid Assessment Method (CRAM) Practitioner Riparian Systems–Riverine Module, San Francisco Estuary Institute, Moss Landing, California, 2012

California Rapid Assessment Method (CRAM)-Estuarine Module, San Francisco Estuary Institute, Costa Mesa, California, 2012

Wetlands Restoration Ecology, Tiburon Romberg Center

for Environmental Studies, San Francisco State University, Tiburon, California, 2011

Biology Sacramento Valley and Lower Foothill Region, Auburn and Walnut Grove, California, 2008

Biology and Management of the California Red-legged Frog (Rana draytonii) Workshop, Livermore, California, 2008

Basic Wetland Delineation Training, U.S. Army Corps of Engineers (Corps), San Diego, California, 2007

Biology and Management of the California Tiger Salamander (Ambystoma californiense) Workshop, Livermore, California, 2007

California Fairy Shrimp (Linderiella occidentalis) Class, Davis, California, 2006

Aquatic Bioassessment Survey Training, Roseville, California, 2006

Aquatic Weed School, Davis, California, 2004

Field Botany Course, Sacramanto, California, 2005

Tricolored Blackbird (Agelaius tricolor) Biology, Conservation, and Survey Techniques Workshop, Folsom, California, 2016

PROJECT EXPERIENCE

WILDLIFE ASSESSMENTS

Vernal Pool Species Study and Analysis* | Sacramento County, California | Deputy Project Manager

As deputy project manager, Sara included the review and compilation of information pertaining to the six listed vernal pool crustaceans in California and southern Oregon. During the course of this project, Sara held position in the USFWS Sacramento Office and given access to USFWS files. She coordinated directly with Holly Herod, the Sacramento Valley Branch Chief, through completion of the project. Following the review and compilation process of the database, the relevant species information was summarized and presented in a report to USFWS for use in their preparation of the five-year status reviews for these six species.

SCAS Terminal B Replacement and Modernization Program "Big Build"* | Sacramanto County, California | Senior Biologist

As senior biologist, Sara conducted biological monitoring both during and prior to active construction of this project. Tasks included pre-construction clearance and monitoring of the project site for presence of sensitive resources including burrowing owl (Athene cunicularia) and Swainson's hawk (Buteo swainsoni). Sara acted as field team leader and organized and facilitated the pre-

construction clearance of project areas for presence of burrowing owls. Biological monitoring continued during the construction activities at the airport as part of the Terminal Modernization Program, which was finalized in October 2012.

Habitat Conservation Plan (HCP)* | Sacramento County, California | Project Coordinator

Sara was involved in this multi-species HCP is being prepared to cover SMUD's covered activities (primarily operations and maintenance activities) in its Service Area (which encompasses Sacramento County and portions of adjacent counties). Species proposed for inclusion in the HCP would include; vernal pool plants and invertebrates, California tiger salamander (Ambystoma californiense), giant garter snake (Thamnophis gigas), Swainson's hawk (Buteo swainsoni), and burrowing owl (Athene cunicularia). As project coordinator of the SMUD HCP, Sara was responsible for preparing and reviewing the document, staff management, contract/schedule management, and Geographic Information System (GIS) data analysis. She was also responsible for regular collaboration and coordination between regulatory agencies (U.S. Fish and Wildlife Service [USFWS] and California Department of Fish and Wildlife [CDFW]) and the SMUD Environmental Management team to meet both the required biological and statutory requirements of the HCP and the needs of SMUD as a utility provider. Sara also attended monthly meetings with SMUD and the regulatory agencies to discuss and determine various approach strategies, reviewed technical documents, discussed species conservation strategies and determine mutually agreeable approaches to the HCP document sections.

WILDLIFE SURVEYS AND STUDIES

On-Call Services, Burrowing Owl Surveys and Monitoring* | Sacramento, California | Senior Biologist

As senior biologist, Sara assisted biologists at SAFCA in performing protocol-level burrowing owl (Athene cunicularia) surveys and implementing passive relocation methods to exclude burrowing owls from canal system levees set to be retrofitted. She conducted emergency biological monitoring for burrowing owl during construction of local levee protection projects. Sara also presented worker awareness training for the burrowing

Campus Parkway Phase I* | Merced County, California | Senior Biologist

As senior biologist, Sara performed site biological field surveys which included nesting raptor, San Joaquin kit fox (Vulpes macrotis mutica), burrowing owl (Athene cunicularia), and nesting songbird surveys. Subsequent summary documents were also created for the project detailing the survey protocols followed and the findings of the surveys.

SMUD Nature Preserve Mitigation Bank* | Sacramento County, California | Biologist

As biologist, Sara conducted large branchiopod and California tiger salamander (Ambystoma californiense) aquatic surveys. The California tiger salamander aquatic surveys were completed to document overwintering

larvae in a managed stock pond and included tissue collection for genetic analysis.

TRANSIT

On-Call Biological Support Services—Caltrans, East Counties of District 4* | Multiple Counties, California, United States | 2018 | Senior Biologist/USFWS Liaison

As part this on-call contract for biological support services, Sara coordinated with Caltrans to avoid listed species and their habitats, prepared effects determinations, coordinated technical assistance, reviewed Biological Assessments, prepared Biological Opinions per Section 7 of the Endangered Species Act, and coordinated with Caltrans during the construction phase to confirm regulatory compliance of permitted activities as related to Bay Area federally-threatened and endangered species. Role: Senior Biologist/USFWS Liaison | Dates involved: 01/2017–07/2018

California High Speed Rail, CP4—California High-Speed Rail Authority* | Central Valley, California, United States | 2018-Ongoing | Senior Biologist

Sara is working on various Incidental Take Permit (ITP) Amendments for the CDFW to address changes in the alignment footprint and/or covered activities of the permit and address any potential changes to the associated effects to Covered Species under the take permit. Role: Senior Biologist | Dates involved: 08/2018–present

BRIDGES

San Joaquin River Bridge on Italian Bar Road Replacement Project* | Fresno County, California | Biologist

Sara was involved in a project to replace the Italian Bar Road Bridge crossing the San Joaquin River at the Fresno-Madera county line in the Sierra National Forest. This is a federally funded California Department of Transportation (Caltrans) Local Assistance project. She completed a biological resources site assessment and prepared the U.S. Forest Service (USFS) Special Use Permit Application for the project.

OIL AND GAS PIPELINES

PG&E Line 406/407 Natural gas Pipeline* | Yolo County, Sutter County, Placer County, California | Senior Biologist

As senior biologist, Sara acted as third-party lead field monitor for the California State Lands Commission during construction activities. She managed biological monitoring staff and helped ensure project compliance per the project permits and the Mitigation Monitoring and Reporting Requirements during the first phase of project construction activities which involved the construction of a newly established section of natural gas transmission pipeline in Yolo County.

Pacific Gas and Electric (PG&E) – Line 108 Natural Gas Pipeline Environmental Impact Report (EIR)* | Sacramento County, California | Senior Biologist

As senior biologist, Sara prepared the Draft EIR (DEIR) with respect to plant and wildlife resources potentially affected by the project and acted as lead third party Field Monitor for the California State Lands Commission during construction activities. She managed biological monitoring

staff and helped ensure project compliance per the project permits and the Mitigation Monitoring and Reporting Requirements during project construction activities which included the replacement of 11 miles of natural gas transmission pipeline.

TRANSPORTATION

California High Speed Train System -Merced to Fresno Section Construction Package 1* | Fresno County and Madera County, California | Deputy Project Manager

As deputy project manager, Sara coordinating closely with the client to prepare all pre-construction reports, surveys, and actions to be consistent and in compliance with the environmental permits and the Mitigation Monitoring and Reporting Requirements.

STORMWATER

Constra Costa Clean Water Program* | Constra Costa, California | Senior Biologist

As senior biologist, Sara assisted in the implementation of a 2-year evaluation of organic-based fertilizer technologies as a best management practice to reduce the nutrient and pesticide pollutant load entering surface waters within Contra Costa County. Project work activities included use of aquatic toxicity testing and chemical water quality analysis to evaluate up and downstream water quality in waterways flowing adjacent or through golf courses. She was responsible for performing regular on-site stormwater event sampling and subsequent evaluation of water quality parameters including; dissolved oxygen, nitrogen, phosphorus, and electrical conductivity. The data collected was then analyzed to compare water quality in courses using traditional synthetic fertilizers versus newer organicbased products.

WATER AND SEWER

Linda Creek Sewer Crossing Rehabilitation Project* | Placer County, California | Wildlife Biologist

Sara conducted a biological field survey and wetland delineation for a small sewer replacement project in close proximity to active stream and riparian habitats within in the City of Roseville. She was also responsible for the preparation and coordination of various permit applications including, federal Section 404, 401, and California Department of Fish and Wildlife (CDFW) Sections 1600-1616 permits for sanitary sewer improvement activities. During the construction phase of the project, acted as Project Manager and Lead Monitor. Managed a biological monitoring staff, ensured project compliance per the project permits and the Mitigation Monitoring and Reporting Requirements during project construction activities, and communicated with client to manage the project timeline and construction scheduling changes.

WATER DAMS & RESERVOIRS

Los Vaqueros Reservoir Expansion Project Environmental Impact Statement/Environment Impact Report* | Sacramento, California | Senior Biologist

Sara performed field surveys to quantify the oak tree species within portions of the project area. This survey

was conducted in an effort to calculate estimated habitat loss data following the expansion of Los Vaqueros Reservoir. She performed field surveys and assessments of potential habitat mitigation lands considered for the project.

WATER OPEN CHANNELS & AQUEDUCTS

South Bay Aqueduct Maintenance and Rehabilitation Project* | Alameda and Santa Clara Counties, California | Senior Biologist

Sara conducted biological monitoring both during and prior to active construction of this project. She monitored vegetation restoration sites, pre-construction clearance, and monitored the project site for presence of sensitive resources. She also acted as field team lead in organizing and facilitating the multi-year pre-construction clearance effort to passively exclude burrowing owls (Athene cunicularia) from large portions of the project area.

WETLANDS

Broderick Boat Launch Facility Improvements* | Yolo County, California | Senior Biologist

As senior biologist, Sara conducted the biological field survey and wetland delineation and prepared the Biological Assessment (BA) and the biological resources section of the Initial Study/Mitigated Negative Declaration (IS/MND) document. Sara coordinated with resource agencies and prepared the permit applications for federal Section 404, 401, and California Department of Fish and Wildlife (CDFW) Sections 1600-1616 permits for park expansion and improvement activities.

Hot Springs Road Improvement Project* | Alpine County, California | Wildlife Biologist and Project Coordinator

As wildlife biologist and project coordinator, Sara is coordinating in the preparation of technical reports for a Caltrans Department of Transportation (Caltrans) District 10 Local Assistance road widening project in Markleeville. Technical reports include a Natural Environment Study (NES), wetland deliniation, Historic Property Survey Report (HPSR), and Archeological Survey Report (ASR).

Delta Wetlands Project* | Contra Costa and San Joaquin Counties, California | Project Manager and Senior Biologist

Sara conducted extensive field surveys of the approximate 20,000-acre project area to complete biological resource assessments and update the wetland delineation. She coordinated with state and federal agencies to complete updates to the U.S. Fish and Wildlife Service (USFWS) Biological Assessment (BA), National Marine Fisheries Services (NMFS) Biological Assessment (BA), and the Incidental Take Permit Application.

Jackson Valley Quarry Expansion and Reclamation Environmental Impact Report (EIR) and Mitigation Monitoring Program* | Amador County | Senior Biologist

As senior biologist, Sara conducted biological field assessments (including a wetland delineation) and prepared the Wetland Delineation Report and the biological resources section of the EIR. This EIR analyzed potential impacts that would result from the proposed

project activities, which involved the expansion of the existing Jackson Valley Quarry operation to an adjacent parcel.

Payran to Southpoint Multi-Use Pathway Project—GHD, Inc.* | Sonoma County, California, United States | 2017-2018 | Senior Biologist

For this Caltrans District 4 Local Assistance project, Sara conducted field work and prepared a biological resources technological memorandum to document biological constraints and re-verify the extent of previously delineated wetlands for a portion of the SMART Non-motorized Pathways in Petaluma, California. Role: Senior Biologist | Dates involved: 08/2017–07/2018

CONSERVATION AND RESOURCE MANAGEMENT

Initial Study/Mitigated Negative Declaration (IS/MND) Document* | Alameda County, California | Senior Biologist

As senior biologist, Sara helped prepare an IS/MND document for projects in Alameda County for the use of aquatic herbicides in stormwater conveyances to control aquatic weeds. This document was produced to comply with National Pollutant Discharge Elimination System Aquatic Pesticide Permit requirements. She performed regular on-site biological surveys and evaluated potential risk of herbicide exposure to federally and state-listed species in estuarine and wetland habitats. Sara also conducted regular water sampling and analysis as part of on-going monitoring and reporting plans.

SOURCE WATER ASSESSMENT

Laguna de Santa Rosa Ludwigia Control Project* | Sonoma County, California | Senior Biologist

As senior biologist, Sara assisted in the preparation of an Aguatic Pesticide Application Plan to the North Coast Regional Water Quality Control Board (RWQCB) on behalf of California Department of Fish and Wildlife (CDFW) and the Sonoma County Water Agency. Following the issuance of National Pollutant Discharge Elimination System permits, she worked with RWQCB staff to develop a Monitoring and Reporting Plan to be carried out during the first phase of the project. Sara also made bi-weekly field visits to the site to monitor water quality, maintain field equipment (including continuous water quality monitoring instruments), monitor field crew progress, and evaluate the effectiveness of the best management practices. At the end of phase I, she compiled all collected data for summary and inclusion in the Annual Report that was submitted to RWQCB.

ENVIRONMENTAL ASSESSMENT

Payette National Forest: Disease Transmission of Bighorn Sheep Supplemental Draft Environmental Impact Statement (DEIS)* | Washington County, Idaho | Senior Biologist

As senior biologist, Sara assisted in comment review and categorization process of a large Content Analysis Team (CAT) project for the USFS, Payette National Forest. The CAT project catalogued and summarized public comment on the Draft Supplemental Environmental Impact Statement for Bighorn Sheep Viability Analysis and

Forest Plan Amendment.

BRIDGES, ROAD

Atlantic/Eureka I-80 Westbound On-ramp Widening Project* | Placer County, California, United States | 2018 | Senior Biologist/Project Coordinator

Sara provided oversight for the preparation of the technical reports, as well as an IS/MND (IS/MND) for CEQA compliance for the project. Technical reports included a Natural Environment Study, wetland delineation, National Marine Fisheries Service (NMFS) Biological Assessment, Historic Property Survey Report, Archaeological Survey Report, and extended phase I archaeological investigation. She also coordinated agency consultation with NMFS to address potential effects to listed fish species. 06/2017–07/2018

BIOLOGICAL MONITORING

Initial Study/Migigated Negative Declaration (IS/MND)
Document* | Alameda County, California | Senior Biologist

Sara assisted in the preparation of an IS/MND document for projects in Alameda County for the use of aquatic herbicides in stormwater conveyances to control aquatic weeds. This document was produced to comply with National Pollutant Discharge Elimination System Aguatic Pesticide Permit requirements. Sara performed regular on-site biological surveys and evaluated potential risk of herbicide exposure to federally and state-listed species in estuarine and wetland habitats. Additionally, Sara conducted regular water sampling and analysis as part of on-going monitoring and reporting plans. Bureau of Land Management-Reach 4B San Joaquin River Restoration Project, Merced County, California: Field Team Lead. Sara performed surveys of habitats that would be flooded along Reach 4B of the San Joaquin River if restoration activities proceed as proposed. Biological surveys included; general habitat assessment, preliminary wetland delineation, sensitive vegetation community assessment (including vernal pools), and nesting bird surveys.

Hirschdale Transmission Line Project Initial Study/Mitigated Negative Declaration* | Nevada County, California | Senior Biologist

As senior biologist, Sara conducted biological monitoring during active construction of this project. She coordinated with the daily monitor and site foreman to help ensure that the project and all related activities remained in compliance with project permits. As a third-party monitor, weekly site visits were performed of the project site to monitor for presence of sensitive resources and project compliance with all applicant proposed mitigation measures including Stormwater Pollution Prevention Plan (SWPPP) measures and produced weekly reports summarizing field findings.

VERNAL POOL STUDIES/DESIGN

Yolo Grasslands Park Project* | Yolo County, California | Field Biologist and Project Manager

As field biologist and project manager, Sara initially performed regular collections of hydrology data within vernal pools and conducted California Burrowing Owl Consortium protocol-level surveys for burrowing owls (Athene cunicularia). During subsequent years, she

performed annual plant population assessments (utilizing transect survey methods) to determine distributional data for the two special-status plant species, Solano grass (Tuctoria mucronata) and Colusa grass (Neostapfia colusana), that occur within the vernal pools on the site. She performed quarterly site visits to monitor site progress or potential problems, submitting quarterly and annual reports and maintaining communication with the project client, sub-consultant, and regulatory agencies.

STREAM/RIVER RESTORATION

Reach 4B San Joaquin River Restoration Project* | Merced County, California | Field Team Lead

As field team lead, Sara performed surveys of habitats that would be flooded along Reach 4B of the San Joaquin River if restoration activities proceed as proposed. Biological surveys included; general habitat assessment, preliminary wetland delineation, sensitive vegetation community assessment (including vernal pools), and nesting bird surveys.

CONVEYANCE - OPEN CHANNELS & AQUEDUCTS

North Bay Aqeduct Alternate Intake Project Environemntal Impact Report (EIR)* | Alameda and Santa Clara counties, California | Senior Biologist

Sara prepared the Draft EIR (DEIR) with respect to aquatic resources as well as the terrestrial plant and wildlife resources that could be potentially affected by the project. She also assisted in the habitat impact analysis in ArcGIS as part of the document preparation.

HABITAT EVALUATIONS

San Joaquin Habitat Conservation Plan (HCP) On Call Biological Services* | San Joaquin County, California | Senior Biologist

As senior biologist, Sara conducted preconstruction surveys for a proposed Home Depot in Lathrop. She coordinated with SJCOG staff and project proponents to schedule field visit and verify compliance with San Joaquin Multi-Species HCP measures.

ENVIRONMENTAL IMPACT ASSESSMENTS

Aquatic Permitting for Herbicide Use* | Solano County, California | Senior Biologist

As senior biologist, Sara assisted in the implementation of a Monitoring and Reporting Plan for SCWA to assess environmental impacts of the use of aquatic pesticides for weed control. Work involved a collection of water quality parameters and herbicide levels during active in-water applications of herbicide. She analyzed all collected data and prepared annual reports for SCWA to meet the requirements of the National Pollutant Discharge Elimination System (NPDES) permitting process.

AIRPORTS

Rancho Murieta Airport Resource Study* | Sacramento County, California | Senior Biologist

As senior biologist, Sara conducted biological field surveys including an arborist survey, Valley elderberry longhorn beetle survey (Desmocerus californicus dimorphus), and habitat assessment. She prepared the

Resource Management Report and biological section for the Environmental Impact Report (EIR) for the County of Sacramento. These reports evaluated the natural resources within the Rancho Murieta Recreation Area that had the potential to interfere with flight operations at the adjacent Rancho Murieta Airport.

Andrew P. Sorci 580 Arlington Avenue Berkeley, CA 94707

Mobile: 716-949-4723 Email: apsorci@gmail.com

QUALIFICATIONS

- Experience performing vegetation and wildlife surveys, and familiar with speciesspecific protocols and USACE wetland delineation process.
- Practiced CEQA author with experience writing the Biological Resources and Hydrology and Water Quality Resources sections of several CEQA documents including several EIRs for transmission projects at the direction of the CPUC.
- Experience in managing and performing construction monitoring on commercial solar and wind development projects, including managing budgets and field staff.
- Familiar with permit conditions associated with CWA Section 401 and 404, Biological Opinions, Incidental Take Permits, and well-versed in ensuring those conditions are met.
- Proficient with handheld GPS, ArcGIS, and Google Earth.

EXPERIENCE Ecology and Environment, Inc., San Francisco, CA (January 2015 – Present)

Environmental Scientist. Contributed to all phases of environmental review document preparation, including drafting biological resource sections and responding to public comment for CEQA documents. Surveyed existing and prospective solar, wind, and transmission projects for threatened and endangered wildlife species. Managed the biological monitoring for the decommissioning of a wind energy project in the Altamont Pass.

Great Basin Institute, Reno, NV (May 2014 - July 2014)

Vegetation/Habitat Assessment Crew Member. Performed habitat assessment activities, including vegetation sampling and inventories, soil testing, and logging photo points, while working with the Nevada Dept. of Wildlife sage grouse habitat-monitoring project.

Great Basin Institute, US Forest Service, Carson City, NV (May 2013 – November 2013) Invasive Species Technician. Surveyed US Forest Service lands for invasive species and mapped new infestations. Eradicated invasive plant infestations with chemical, biological, and mechanical methods.

National Audubon Society, Trabuco Canyon, CA (November 2012 – May 2013) Invasive Species Crew Member. Eradicated invasive plant infestations by mechanical means, performed invasive plant surveys, conducted experimental treatments and collected data.

EDUCATION

SUNY College of Environmental Science and Forestry, Syracuse, NY

Master of Professional Studies, Environmental Science (December 2014)

SUNY College of Environmental Science and Forestry, Syracuse, NY Bachelor of Science, Natural Resources Management (May 2011)

TRAINING

HAZWOPER 40-Hr Training (April 2015), 8-Hr Refresher (January 2017)

Introduction to Desert Tortoises and Field Techniques, Desert Tortoise Council (November 2015)

FERC Environmental Review and Compliance for Natural Gas Facilities (April 2016)

REFERENCES Available Upon Request



ENVIRONMENTAL CONSULTING • PLANNING • LANDSCAPE ARCHITECTURE

Cristian Singer Senior Botanist

Education

Bachelor of Science, Environmental Biology, Humboldt State University, 1996

Certifications

CDFW Scientific Collecting Permit for State Designated Endangered, Threatened, and Rare Plants, No. 07003

California Endangered Species Act, Native Plant Protection Act, Plant Voucher Collecting Permit No. 2081(a)-18-139-V

Experience

Foothill Associates, Botanist

ICF International, Botanist

U.S. Forest Service, Botanist, Susanville, California.

U.S. Forest Service, Botanist, Nevada City, California

U.S. Forest Service, Botanist, Nevada City, California

The Nature Conservancy, Botanist, San Francisco, California

Bureau of Land Management, Botanist, Bakersfield, California

U.S. Geological Survey, Botanist, Barstow, California

Cristian Singer has twenty-three years of experience conducting large-scale vegetation mapping projects, floristic inventories, rare plant surveys and wetland delineations throughout the State of California, southern Oregon, and southern Nevada. Cristian utilizes dichotomous keys to facilitate accurate and timely identification of plant specimens (including grasses, sedges and rushes) in the course of botanical surveys, vegetation community sampling and wetland delineations. He specializes in conducting floristic surveys for special-status plant species in accordance with federal, state and local agency guidelines. He has surveyed hundreds of vegetation community plots in the course of developing base-line data for the development of large-scale vegetation maps. Cristian is a strong project manager and regularly communicates and coordinates with multidisciplinary professionals to complete project goals in a timely manner; effectively manages project timelines and produces accurate cost estimates; prepares and reviews technical reports and documents; maintains a safe and productive working environment; and supervises and trains junior personnel.

Representative Experience

Floristic Surveys— Butte County Meadowfoam. Conducted surveys for and extensive mapping of Butte County Meadowfoam, a state and federally listed endangered plant species, in Butte County, California.

District 1 Biologist—Caltrans: Humboldt. Mendocino. Sierra and Sonoma counties, California. Conducted special-status plant surveys and wetland delineations at various existing bridge locations and proposed culvert improvement sites.

1-80/1-680 Interchange Project PA/ED—Solano County Transportation Authority/Mark Thomas and Company, Solano County, California. Conducted special-status plant surveys within a proposed improvement footprint at the Interstate 80 and Interstate 680 interchange. The work will form the environmental baseline and obtain environmental permits for project planning and implementation.

SR-299 Blue Lake Slide Wetland Delineation and Permitting—Caltrans, Humboldt County, California. Conducted a wetland delineation and functional assessment to meet both Caltrans and the Corps standards. The work will form the environmental baseline and obtain environmental permits for project planning and implementation.

SR 197/US 199 Safe STAA Access Project—Caltrans District 1, Del Norte County, California. Field delineated wetlands and other waters using the routine on-site determination methods detailed in the Corps Wetlands Delineation Manual and the Corps Draft Interim Regional Supplement to the Corps 1987 Manual: Western Mountains, Valleys and Coast Region at the Narrows location on US 199 in the Middle Fork Smith River canyon, one of seven isolated locations where Caltrans is proposing improvements on SR 197 and US 199 to be able to classify the routes as part of the Surface Transportation Assistance Act truck route network. The wetland delineation report was one of several reports prepared to support the environmental impact analysis for the project.



Environmental Support Services for Transportation Improvement (Contract 03A1317)—Caltrans Districts 1, 2, and 3 (Various Locations in Northern California). Conducted wetland delineations for an additional 10 task orders under this contract.

Design and Permitting—Caltrans District 1, Mendocino County, California. The Willits Bypass Project is a 5.9-mile ways. The new roadway affects endangered species, waters of the State and United States, requiring a complex suite of U.S. 101 Willits Bypass Project Mitigation Planning and long roadway bypass of U.S. Highway 101 (Hwy 101) to the The complex project realigns Hwy 101 with a four-lane highway around the City of Willits through the Little Lake Valley and reconnects with the existing Hwy 101. The project improves traffic access by relieving traffic congestion associated with the Hwy 101 and State Route 20 (SR-20) roadway segment includes twenty-two bridges over existing east of the City of Willits, in Mendocino County, California. interchange, constructing a new 4-lane roadway segment, and making other improvements along the alignment, including new and improved bridges, interchanges, viaducts, retaining walls, and fish passage improvements. The new waterways, riparian corridor, streets, and railroad right-ofpermits and onsite mitigation plan. North County Corridor EIR/EIS for New SR-108—North County Corridor Joint Powers Authority, Stanislaus County and San Joaquin County, California. Conducted a wetland delineation for the proposed SR-108 in San Joaquin and Stanislaus County. Caltrans, as the CEQA/NEPA lead agency, in cooperation with the North County Corridor Transportation Expressway Authority, propose to construct an expressway that would extend approximately 25 miles from SR-99 in the vicinity of Kiernan Avenue/the Salida community, to SR-120 approximately 6 miles east of the City Oakdale.

Delta Wind Technical Studies—enXco, Solano County, California. Conducted an initial mapping project on a proposed 12,000-acre wind farm in order to facilitate planning efforts to minimize or eliminate potential project-related impacts to special-status plant species and wetlands.

Central California Clean Energy 500 kV Transmission Line Project Proponents Environmental Assessment (PEA)—Pacific Gas & Electric Company (PG&E), Fresno County, Kings County, and Madera County, California. Conducted special-status plant surveys throughout the proposed transmission alignment.

Sunrise Powerlink 2008 Rare Plant Surveys—San Diego Gas & Electric Company (SDG&E)/Arcadis, San Diego County, California. Conducted special-status plant surveys throughout the existing transmission alignment and within the proposed, expanded transmission alignment.

Carrizo to Midway Transmission Line—Pacific Gas & Electric Company (PG&E), Carrizo Plain National Monument, San Luis Obispo County and Kern County, California. Conducted

special-status plant surveys and delineated wetlands and other waters of the U.S. within the proposed alignment using the routine on-site determination methods detailed in the U.S. Army Corps of Engineers Wetlands Delineation Manual and the U.S. Army Corps of Engineers Draft Interim Regional Supplement to the Corps of Engineers 1987 Manual: Arid West Region.

Rosamond PV Solar Technical Studies—Sempra Energy Utilities, Kern County, California. Conducted special-status plant surveys and delineated wetlands and other waters of the U.S. within a proposed wind farm using the routine onsite determination methods detailed in the U.S. Army Corps of Engineers Wetlands Delineation Manual and the U.S. Army Corps of Engineers Draft Interim Regional Supplement to the Corps of Engineers 1987 Manual: Arid West Region.

Shiloh 3 Wind Project Biological and Cultural Impact Studies—enXco, Contra Costa County, California. Conducted special-status plant surveys within proposed expansion area associated with existing wind farm.

Gas Line 177A Botanical Survey—Pacific Gas & Electric Company (PG&E), Shasta County, California. Conducted special-status plant surveys along a proposed PG&E gas line.

A Electric Company (PG&E), Monterey County, San Benito County, California. Conducted special-status plant surveys along existing transmission line. Delineated wetlands and other waters of the U.S. within portions of the alignment using the routine on-site determination methods detailed in the U.S. Army Corps of Engineers Wetlands Delineation Manual and the U.S. Army Corps of Engineers Draft Interim Regional Supplement to the Corps of Engineers 1987 Manual: Arid West Region.

Crane Valley Dam Seismic Modifications Permitting Assistance—Pacific Gas & Electric Company (PG&E), Fresno County, California. Conducted floristic inventories in several meadow and riparian complexes as part of an assessment for potential suitable mitigation areas.

Shingle Springs Substation Overhead Distribution Project Biological Services—PG&E, El Dorado County, California. Conducted botanical surveys for proposed pole replacement and re-conductoring to support recent substation expansion work.

PG&E, Various Locations, California. Conducted botanical surveys. ICF is under contract to perform emergency quality, cultural resources, and miscellaneous technical electric response and short-notice work when requested by PG&E. The scope of work includes wildlife biology, aquatic, water Emergency Response Environmental-Cultural Support gas, hydroelectric PG&E throughout PG&E's service territory. oę and variety transmission/distribution, Ф ور support

Vernal Pool Monitoring at Van Vleck Ranch Mitigation Bank—Westervelt Ecological Services, Sacramento County



and Solano County, California. Conducted floristic surveys to document the presence/absence of plant species in constructed versus natural vernal pools. Additionally, conducted floristic surveys for special-status plant species.

Arcata Wetland Vegetation Surveys—Caltrans, Humboldt County, California. Conducted a comprehensive floristic examination of wetland/upland conditions in a mosaic of pastures in order to provide an ecological evaluation for potential wetland creation or mitigation.

Sensitive Plant Management Program—U.S.D.A. Forest Service, Susanville, California. Lead Botanist for team conducting special-status plant surveys and comprehensive floristic surveys throughout the National Forests of California

Region 5 Meadow and Riparian Study—U.S.D.A. Forest Service, Nevada City, California. Role: Lead Botanist for team conducting frequency and green-line sampling within meadows and riparian areas throughout the National Forests of California.

Furnace Creek Vegetation Mapping Project—U.S. Geological Survey, Flagstaff, Arizona. Lead Botanist conducting the location and assessment of wetlands associated with an extensive system of seeps and springs in preparation for production of a detailed vegetation map of the study area and surrounding environs.

Mojave Vegetation Mapping Project—U.S. Geological Survey, Flagstaff, Arizona. Lead Botanist testing preliminary vegetation map of the Mojave Desert region for accuracy.

Mojave Vegetation Mapping Project—U.S. Geological Survey, Flagstaff, Arizona. Primary duties involved conducting botanical field investigations, studies, and surveys such as vegetation sampling throughout the Mojave Desert and surrounding environs.

Yosemite National Park Vegetation Mapping Project—The Nature Conservancy, San Francisco, California. Title/Role: Lead Botanist for team conducting botanical investigations, studies and surveys such as vegetation sampling throughout Yosemite National Park and surrounding environs.

Sensitive Plant Management Program—U.S. Bureau of Land Management (BLM), Bakersfield, California. Primary duties involved conducting field surveys for populations of sensitive, threatened and endangered plant species throughout Carrizo Plain National Monument.

Botanical Surveys for Low Effect HCP Santa Cruz and Monterey—PG&E, Monterey County and Santa Cruz County, California. Conducted floristic surveys and mapped special-status plant species along existing gas lines in order to prepare a vegetation management plan.

Desert Conservation Program Rare Plant Inventories—Clark County, Nevada. Conducted targeted surveys to determine the presence or absence of special-status plant species in order to obtain new locations and ecological information to further refine predictive ecological models.

San Joaquin Valley HCP Map Book Survey Il—Pacific Gas & Electric Company (PG&E), Kern County, California. Conducted surveys for special-status plant species.

East Contra Costa County HCP/NCCP Implementation—East Contra Costa County Habitat Conservancy, Contra Costa County, California. Conducted surveys for special-status plant species.

Pacheco Pass Corridor EIR/EIS—California High Speed Rail Authority/Parsons Transportation Group, Merced County, Santa Clara County, California. Conducted special-status plant surveys along proposed high-speed rail alignment.

Tejon Mountain Village Biological Surveys—Dudek & Associates, Kern County, California. Conducted surveys for special-status plant species.

Lower Kyle Canyon Development Project EA—U.S.D.A. Forest Service, Clark County, Nevada. Conducted surveys for plant species utilized by special-status butterflies.



Allison Loveless Biologist



Allison has more than 6 years of biological experience. She has served in roles ranging from consulting field biologist to laboratory biodiversity scientist. Allison has performed pre-construction surveys for nesting birds, biological reviews of project sites, and construction monitoring for giant garter snake, nesting birds, and federally listed vernal pool brachiopods. Allison's employment history also displays broad biological skills. Prior to becoming a biologist for NSR, Allison worked as an Assistant Scientist in the Center for Biodiversity at Temple University, Collection Manager at the Oklahoma State Collection of Vertebrates Museum, Forensic Intern with the Wyoming Wildlife Forensic and Fish Health Laboratory, Biology and Human Anatomy Teaching Assistant, Geographic Information Systems (GIS) assistant with Cal Fire, and Botanical Survey Technician in northern and central California for Sierra Pacific Industries. She has also prepared numerous technical reports, including professional, peer-reviewed publications and environmental constraints reports, and has assisted with revisions to environmental impact reports. Her experience ranges from the study of broad population and ecosystem patterns to within-population species assessments, including native and invasive range identifications and predictions, large-scale analyses of population genetic structure and morphology, forensic genetic analyses of wildlife, and conservation of tropical biodiversity. She has also participated in field trips to tropical regions to collect amphibians and reptiles.

Education

M.S., Zoology, Oklahoma State University, Stillwater, 2014

B.S., Geography/Environmental Studies, University of California, Los Angeles, 2009

Relevant Experience*

Vegetation Management Activities – Western Area Power Administration. Biologist. Conducted surveys for sensitive biological resources, including nesting birds, special-status mammals, and waters of the United States, prior to vegetation management activities at Western Area Power Administration rights-of-way. Also performed biological monitoring for vegetation removal activities.

Deschutes Road Widening Technical Memorandum----Shasta County Department of Public Works. Biologist. Reviewed federal, state, and local databases and site lists for known contamination sites, regulated landfill sites, underground tank sites, hazardous waste generators, and other potential sites of concern prior to project initiation. Generated a technical memorandum of hazards at the project location.

Community Pipeline Safety Initiative——Stantec on behalf of PG&E. Biologist.
Performed pre-construction surveys for nesting birds and other sensitive resources. Conducted environmental safety training for project workers. Also performed biological

monitoring, ensuring that all federal and state environmental regulations were adhered to. Produced daily reports and photographic logs of work activities associated with any potential impacts to natural resources.

Pit 6 Dam Fish Salvage----PG&E. Biologist. Assisted with locating fish in a dewatered stilling basin below Pit 6 Dam prior to construction activities.

Riverland Drive Widening Project Natural Environment Study----Shasta County
Department of Public Works. Biologist.
Prepared a natural environment study to evaluate the potential effects of the proposed project on special-status plant and animal species, waters of the United States, and other sensitive biological resources. Tasks included identifying the presence of habitat for special-status species, predicting potential impacts to these species and habitats, and proposing mitigation measures to prevent or reduce significant impacts.

Offsite Roadway Improvements for the River Crossing Marketplace Development Project Biological Resource Assessment----Costco Wholesale Corporation. Biologist. Prepared biological resource assessment evaluating the natural environment and potential impacts and mitigation for sensitive biological resources. Also assisted with field wetland delineation and report preparation.

Pacific Connector Gas Pipeline----Administrative Record Maintenance and



Forest Service Survey and Manage Persistence Evaluations. Biologist. Used GIS species occurrence and land management data to conduct new persistence evaluations for all survey and manage species that may be affected by PCGP activities. Used these species evaluations to revise survey and manage species persistence discussions.

L-402 Strength Test----CH2M Hill on behalf of PG&E. Biologist. Conducted preconstruction surveys for nesting birds and biological reviews of project sites and provided worker environmental safety training. Also performed construction monitoring for excavation and construction activities, including ensuring that state and federal regulations regarding biological and environmental resources were enforced. Produced daily reports and photograph logs for both construction monitoring and nesting bird surveys, showing construction activities and progress and potential environmental impacts.

L-121 Hydrostatic Test—CH2M Hill on behalf of PG&E. Biologist. Performed construction monitoring for giant garter snake and ensured that state and federal regulations regarding biological and environmental resources were enforced. Produced daily reports on construction progress and potential environmental impacts.

Environmental Constraints Reports (various projects) – ICF on behalf of PG&E. Biologist. Prepared environmental constraints reports evaluating potential impacts on biological resources prior to construction activities. Reports included describing habitats and environmental resources in the project area, determining special-status plant and animal species with potential to be present in the project area, and recommending surveys, permits, and avoidance and minimization measures. *

Upper North Fork Feather River Hydroelectric Project, Draft Environmental Impact Report – State Water Resources Control Board. Biologist. Revised and updated Vegetation, Wildlife, and Sensitive Biological Resources section of 2014 Draft EIR in response to comments from PG&E, Forest Service, California Department of Fish and Wildlife, Plumas County, non-governmental organizations, and individuals.*

Oklahoma Wetland Condition Analysis — Oklahoma State University, Departments of Zoology and Natural Resources Ecology and Management (EPA Grant). Research Assistant. Assisted in developing landscape GIS models for the prediction of wetland conditions in Oklahoma.*

Grey Wolf Genetic Database Project---Wildlife Forensic and Fish Health Laboratory,
Wyoming Wildlife Game and Fish
Department. Forensic Intern. Collected and
analyzed microsatellite and DNA sequence
data. The genetic data were used to assemble a
grey wolf population database for use as a
forensic reference to aid in the prosecution of
illegal activities involving wolves. *

Viverridae Project----Oklahoma State University. Assisted with ongoing analyses of the native and invasive range identification and prediction for viverrid species based on recent genetic designations.*

Hispaniolan Frogs----Center for Biodiversity, Temple University. Biodiversity Laboratory Specialist. Assisted with the collection and genetic sequence analyses of endemic Hispaniolan frog species. Responsibilities included the discovery and resolution of unique species. Managed project quality and progress, project budgets, and laboratory assistants. *