

Appendix C

## Botanical Memo



# Memorandum

10 May 2015

To	Willow Creek Community Service District		
Copy to	Patrick Kaspari, Senior Project Manager, GHD Inc.		
From	Cara Scott, Botanist, GHD Inc.	Tel	707.443.8326
Subject	Special-Status Plant Species Survey and Mapping for the Downtown Wastewater Development Project, Willow Creek, CA	Job no.	8410746.05

## 1 Introduction

On April 10 and May 8, 2015, special-status plant surveys and mapping were conducted for the proposed Downtown Wastewater Development Project in Willow Creek, Humboldt County, California .

This survey attempted to identify all vascular plants within the project boundary and to document the presence of special-status plants. The purpose of these surveys was to map presence of special-status plant species and to document the approximate number of individuals and percent cover for each occurrence observed. The results will be used to reduce impacts associated with project construction and to avoid special-status plant populations

### 1.1 Location

The unincorporated community of Willow Creek is located in Humboldt County approximately 45 miles northeast of Eureka, California as shown in Figure 1, Attachment 1. Willow Creek is situated along the Trinity River, which is part of the Klamath River Basin. The Willow Creek Community Services District (WCCSD or District) service area or district boundary is shown on Figure 2 and primarily consists of properties along State Highways 299 and 96. The Pacific Ocean is located approximately 26 miles to the west. The site corresponds to portions of Sections 32 and 33, Township 7 North, Range 5 East on the USGS 7.5 Minute Willow Creek and Salyer quadrangles. The coordinates for the Stockel property where the filtration system installation will occur are 40.942351 North and -123.625392 West.

### 1.2 Environmental Setting

The general area is characterized by high rainfall and summer fog supporting coastal vegetation including mixed coniferous forests, and occurs primarily within the Northwestern California Region (NW) and North Coast Subregion (NCo) (Baldwin et al. 2012). The undeveloped project area generally consists of Douglas fir-tan oak forests (*Pseudotsuga menziesii*-*Notholithocarpus densiflorus* Forest Alliance) and riparian seeps

consistent with the water parsley marsh (*Oenanthе sarmentosa* Herbaceous Alliance). The climate is typical of inland northern California with warm, dry summers, and cool, wet winters. Annual average precipitation is approximately 51 inches per year. The topography of the Sewered Area is a mildly sloping valley, generally sloping towards Highway 96. The highest point within the project area is near the intersection of Highway 299 and Roth Road (633 feet elevation), and the lowest point is near the intersection of Highway 96 and Mayfair Street (575 feet elevation).

### **1.3 Regulatory Setting**

Special-status plant species include those listed as endangered, threatened, or as candidate species by U.S. Fish and Wildlife Service (USFWS) under the U.S. Endangered Species Act (ESA) or by the California Department of Fish and Wildlife (CDFW) under the California Endangered Species Act (CESA). Plant species on the California Native Plant Society's (CNPS) California Rare Plant Ranking (CRPR) lists 1A, 1B, 2A, and 2B are considered eligible for state listing as Endangered or Threatened pursuant to the California Fish and Game Code and CDFW has oversight of these special-status plant species as a trustee agency of CEQA. CRPR list 1A, 1B, 2A, and 2B species should be considered as part of the CEQA process as they meet the definition of Threatened or Endangered under Sections 2062 and 2067 of the California Fish and Game Code. CRPR List 3 and 4 plants do not have formal protection under CEQA. CDFW publishes and periodically updates lists of special plants which include for the most part the CNPS-listed species.

## **2 Methodology**

### **2.1 Pre-Survey Investigations**

Prior to field surveys, a scoping list of CRPR plant species and habitats with recorded occurrences in the project vicinity was compiled by consulting the *California Natural Diversity Database* (CNDDDB) [CDFW 2015] and the CNPS *Inventory of Rare and Endangered Vascular Plants* (CNPS 2015) (Table 1). Relevant literature was also reviewed, including recovery plans, status reports, published articles, and previous regulatory review documents, when available. The Consortium of California Herbaria database was consulted for site specific species cross reference of rare plant occurrences documented in the project vicinity. Topographic maps and aerial photography were also consulted prior to and during the survey to determine potential habitats for target special-status plant species occurrence.

The scoping list includes special-status plants that occur in habitat similar to the project site with documented occurrences on the Willow Creek and Salyer USGS 7.5' quadrangle or adjacent quadrangles. The CDFW and the CNPS recommend the assessment area be a minimum of nine USGS quadrangles with the survey area located in the central quad. The assessment area is a general term used to describe the vicinity/setting of the project site while the project study boundary (PSB) is the actual limits surveyed. The scoping list also contains other taxa that may occur in the project area whose habitat is suitable if the project is within or near the known range of the species. The assessment area was defined as the USGS 7.5' minute quadrangles in which the project is located (Willow Creek and Salyer) and the nine surrounding quads (Hupa Mountain, Hoopa, Tish Tang Point, Trinity Mountain, Denny, Ironside Mountain, Hennessy Peak, Grouse Mountain, and Maple Creek). The CNPS Inventory was also queried for CRPR List 3 and 4 species known to occur within the county and these species were considered while conducting surveys, although those species lists are not presented here. The queries yielded 24 special-status plant species previously documented in the assessment area. Of these listed plant species, four were determined to have a moderate probability of

occurring within the PSB (Table 1). Within the assessment area, no sensitive plant communities are documented according to the CNDDDB (CDFW 2015).

## **2.2 Field Survey Methods**

Surveys to determine the presence of special-status plant species (listed as rare, threatened, endangered, or candidate for rare, threatened, or endangered species listing under the State or Federal Endangered Species Acts, CNPS, or species of local importance) were conducted at the appropriate blooming or active period for each species. Field visits were by Cara Scott (GHD Botanist). U.S. Fish & Wildlife Service (USFWS) and/or other resources agencies and local experts were contacted to verify that botanical surveys were being conducted at an appropriate time of year to allow for climatic micro-variations and bloom period for each species on a year-to-year basis. Additionally, reference site(s) were viewed if possible, where target plant species are known to occur in the project vicinity to verify the species was visible and blooming at the time of surveys. It was determined that one seasonally-appropriate focused botanical survey should be conducted in the spring (May or June). Suitable habitat for the late-blooming coast sidalcea (June-August) was not located during these surveys; thus, an additional late-season botanical survey was necessary.

The surveys were floristic in nature following *Protocols for Surveying and Evaluating Impacts to Special-Status Native Plant Populations and Natural Communities* by the California Natural Resource Agency (CDFW 2009) and *General Rare Plant Survey Guidelines by the Endangered Species Recovery Program* (USFWS 2002). An intuitively controlled survey was conducted that sampled and identified potential habitat(s). Plants were identified to the lowest taxonomic level (genus or species) necessary for rare plant identification. Nomenclature follows *The Jepson Manual* (Baldwin et al 2012). Species surveys were conducted by walking the site for target species and recording extent, approximate number, and percent cover of special-status plant species observed. A total of 2.5 field person hours were spent surveying the PSB.

## **3 Results**

On April 10 and May 8, 2015, the project study boundary was surveyed in an effort to identify presence and location of special-status plant species. CRPR plants were not observed during the protocol level survey. . Suitable habitat for the late-blooming coast sidalcea (June-August) was not located during these surveys; thus, an additional late-season botanical survey was not conducted.

## **4 Conclusion**

The purpose of this survey was to identify and map California Rare Plant Rank (CRPR) plants within the project boundary. This survey did not identify any CRPR species.

## **5 References**

Baldwin, B. D. 2012. *The Jepson Manual, Second Edition*. University of California Press. Berkeley, CA.  
CNPS, 2015. Inventory of Rare and Endangered Plants (online edition, v8-01a). California Native Plant Society (CNPS). Sacramento, CA. Accessed: April, 2015.

California Department of Fish and Wildlife. 2015. California Natural Diversity Database (CNDDB). Willow Creek and Salyer USGS 7.5 Minute Quadrangles. California Department of Fish and Game (CDFG). Sacramento, California. Accessed April, 2015.

CDFG, 2009. *Guidelines for Assessing the Effects of Proposed Development on Rare, Threatened, and Endangered Plants and Plant Communities*. Sacramento, CA.

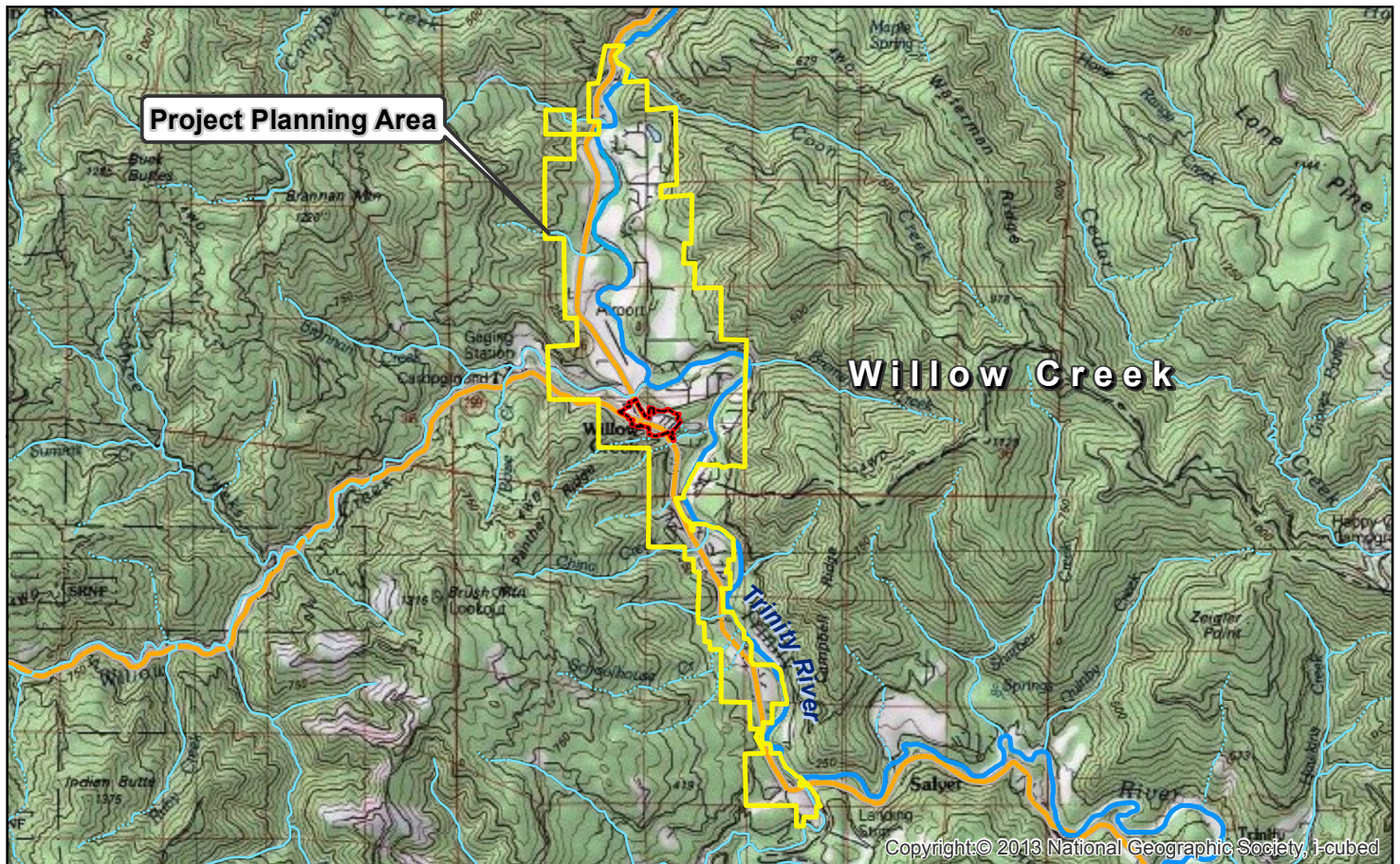
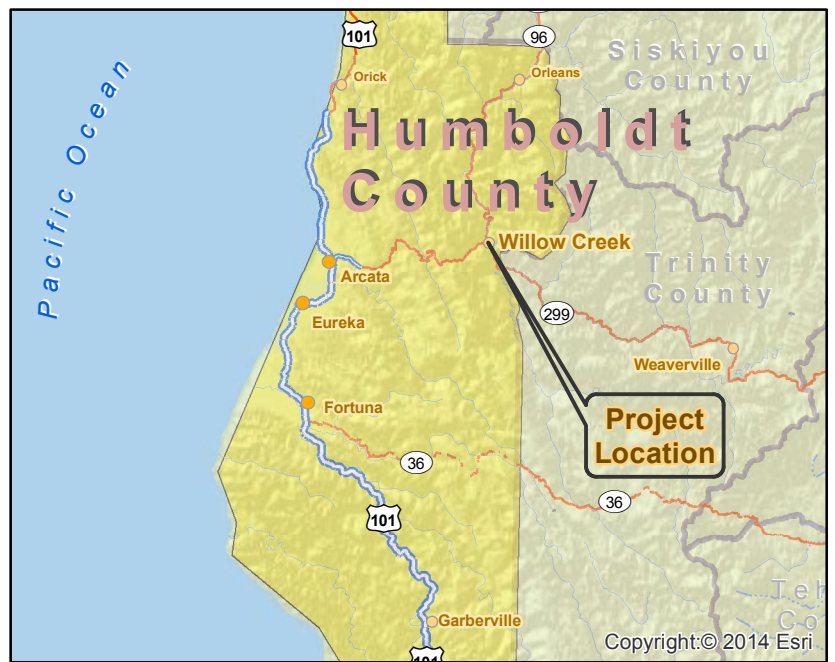
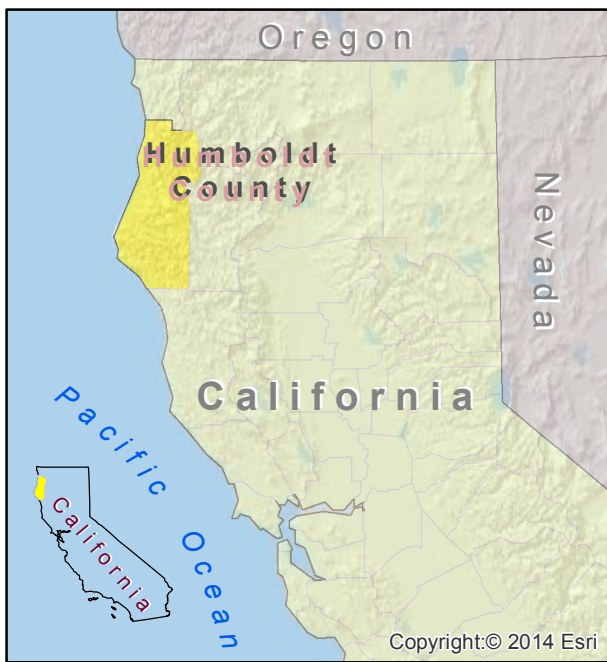
DFW, 2009. *Protocols for Surveying and Evaluating Impacts to Special-Status Native Plant Populations and Natural Communities*. California Department of Fish and Game, Sacramento, CA.

Sawyer, J.O., T. Keeler-Wolf, and J.M. Evans. 2009. *A Manual of California Vegetation, Second Edition*. California Native Plant Society. Sacramento, CA.

USFWS, 2015. Listed/Proposed Threatened and Endangered Species for the Crescent City Quads. FWS Arcata Field Station, U. S. Fish and Wildlife Service (USFWS). Accessed April 2015.

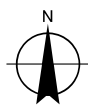
## **6      Attachment A. Figures**





- |  |  |  |
|--|--|--|
|  U.S. Highway             |  Sewered Area   |  Perennial Stream    |
|  California State Highway |  WCCSD Boundary |  Intermittent Stream |
|  |  |  Trinity River       |

Paper Size 8.5" x 11" (ANSI A)  
 0 0.5 1 1.5 2 2.5 3  
 Miles  
 Map Projection: Mercator Auxiliary Sphere  
 Horizontal Datum: WGS 1984  
 Grid: WGS 1984 Web Mercator Auxiliary Sphere



Willow Creek Community Services District  
 Downtown Wastewater Development Project  
 Botanical Memo

Job Number 8410746.05  
 Revision A  
 Date 11 May 2015

Vicinity Map

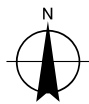
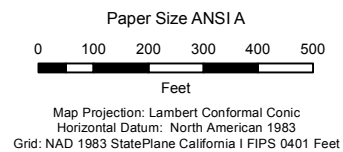
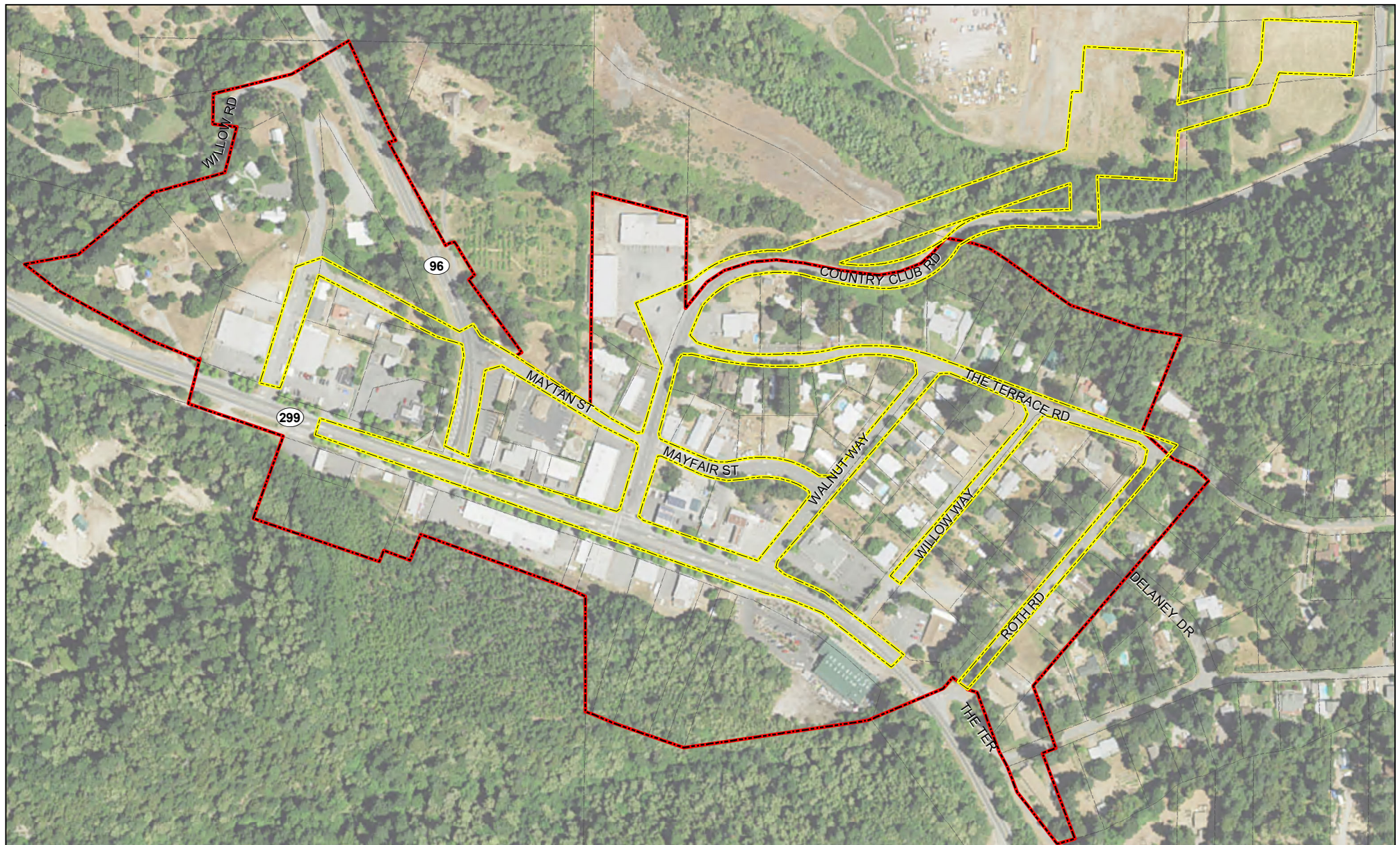
Figure 1

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 Data source: ESRI Street Map. Created by: gldavidson





- Project Study Boundary
- Sewered Area
- Parcel Boundaries



Willow Creek Community Services District  
Downtown Wastewater Development Project  
Botanical Memo

Job Number	8410746
Revision	A
Date	11 May 2015

Project Study Area

Figure 2

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Data source: Data Custodian, Data Set Name/Title, Version/Date. Created by: gldavidson



Table 1. Special-status plant species with potential to occur in the project study boundary

Taxa/Common Name	Listing Status: Federal/ State/CRPR	Habitat and Elevation	Blooming Period	Potential Occurrence	Survey Results
<i>Astragalus umbraticus</i> /Bald Mountain milk-vetch	--/--/2B.3	Cismontane woodland, lower montane coniferous forest. Dry open oak and pine woodlands; sometimes on roadsides. 150-1250 m.	May-August	Unlikely. Few of the habitat components meeting the species requirements are present, and/or the majority of habitat on and adjacent to the site is unsuitable or of very poor quality.	<b>Not Present</b>
<i>Bensoniella oregona</i> /bensoniella	--/SR/1B.1	Bogs and fens, lower montane coniferous forest, meadows and seeps. Wet meadows and openings in forest. 915-1400 m.	May-July	Absent. Suitable habitat is not present in the study area.	<b>Not Present</b>
<i>Botrypus virginianus</i> /rattlesnake fern	--/--/2B.2	Bogs and fens, lower montane coniferous forest, meadows and seeps, riparian forest. 715-1355 m.	June-September	Absent. Suitable habitat is not present in the study area.	<b>Not Present</b>
<i>Carex arcta</i> /northern clustered sedge	--/--/2B.2	Bogs and fens, north coast coniferous forest. Mesic sites. 60-1400 m.	June-September	Absent. Suitable habitat is not present in the study area.	<b>Not Present</b>
<i>Carex praticola</i> /northern meadow sedge	--/--/2B.2	Meadows. Moist to wet meadows. 0-3200m.	May-July	Absent. Suitable habitat is not present in the study area.	<b>Not Present</b>
<i>Cornus canadensis</i> /bunchberry	--/--/2B.2	North coast coniferous forest, bogs and fens, meadows and seeps. 60-1920 m.	May-July	Absent. Suitable habitat is not present in the study area.	<b>Not Present</b>
<i>Epilobium oreganum</i> /Oregon fireweed	--/--/1B.2	Bogs and fens, lower montane coniferous forest, upper montane coniferous forest. In and near springs and bogs; at least sometimes on serpentine. 500-2240 m.	June-September	Unlikely. Few of the habitat components meeting the species requirements are present, and/or the majority of habitat on and adjacent to the site is unsuitable or of very poor quality.	<b>Not Present</b>

Taxa/Common Name	Listing Status: Federal/ State/CRPR	Habitat and Elevation	Blooming Period	Potential Occurrence	Survey Results
<i>Erythranthe trinitensis</i> /pink-margined monkeyflower	--/--/1B.3	Lower montane coniferous forest, upper montane coniferous forest, cismontane woodland, meadows and seeps. Often on serpentine and roadsides. 400-2285 m.	Jun-Jul	Absent. Suitable habitat is not present in the study area.	<b>Not Present</b>
<i>Erythronium oregonum</i> /giant fawn lily	--/--/2B.2	Cismontane woodland, meadows and seeps. Openings. Sometimes on serpentine; rocky sites. 100-1150 m.	March-June	Absent. Suitable habitat is not present in the study area.	<b>Not Present</b>
<i>Erythronium revolutum</i> /coast fawn lily	--/--/2B.2	Bogs and fens, broad-leaved upland forest, North Coast coniferous forest. 0-1065m.	March-July	Moderate Potential. Some of the habitat components meeting the species requirements are present, and/or only some of the habitat on or adjacent to the site is unsuitable.	<b>Not Present</b>
<i>Eucephalus vialis</i> /wayside aster	--/--/1B.2	Lower montane coniferous forest, upper montane coniferous forest. Gravelly substrates. 910-1545 m.	June-September	Unlikely. Few of the habitat components meeting the species requirements are present, and/or the majority of habitat on and adjacent to the site is unsuitable or of very poor quality.	<b>Not Present</b>
<i>Gilia capitata</i> ssp. <i>pacifica</i> /Pacific gilia	--/--/1B.2	Coastal bluff scrub, chaparral, coastal prairie, valley and foothill grassland. 5-1330 m.	April-August	Absent. Suitable habitat is not present in the study area.	<b>Not Present</b>
<i>Glyceria grandis</i> /American manna grass	--/--/2B.3	Bogs and fens, meadows and seeps, marshes and swamps. Wet meadows, ditches, streams, and ponds in valleys and lower elevations in the mountains. 15-1980 m.	June-August	Moderate Potential. Some of the habitat components meeting the species requirements are present, and/or only some of the habitat on or adjacent to the site is unsuitable.	<b>Not Present</b>

Taxa/Common Name	Listing Status: Federal/ State/CRPR	Habitat and Elevation	Blooming Period	Potential Occurrence	Survey Results
<i>Iliamna latibracteata</i> /California globe mallow	--/--/1B.2	North Coast coniferous forest, chaparral, lower montane coniferous forest, riparian scrub (streambanks). Seepage areas in silty clay loam. 60-2000 m.	June-August	Unlikely. Few of the habitat components meeting the species requirements are present, and/or the majority of habitat on and adjacent to the site is unsuitable or of very poor quality.	<b>Not Present</b>
<i>Kopsiopsis hookeri</i> /small groundcone	--/--/2B.3	North Coast coniferous forest. Open woods, shrubby places, generally on <i>Gaultheria shallon</i> . 90-885m.	April-August	Moderate Potential. Some of the habitat components meeting the species requirements are present, and/or only some of the habitat on or adjacent to the site is unsuitable.	<b>Not Present</b>
<i>Microseris borealis</i> /northern microseris	--/--/2B.1	Bogs and fens, meadows and seeps, lower montane coniferous forest. 1000-2000 m.	June-September	Unlikely. Few of the habitat components meeting the species requirements are present, and/or the majority of habitat on and adjacent to the site is unsuitable or of very poor quality.	<b>Not Present</b>
<i>Montia howellii</i> /Howell's montia	--/--/2B.2	Meadows, north coast coniferous forest, vernal pools. Vernal wet sites; often on compacted soil. 0-835 m.	March-May	Absent. Suitable habitat is not present in the study area.	<b>Not Present</b>
<i>Piperia candida</i> /white-flowered rein orchid	--/--/1B.2	North coast coniferous forest, lower montane coniferous forest, broad-leaved upland forest. Coast ranges from Santa Cruz County north; on serpentine. Forest duff, mossy banks, rock outcrops & muskeg. 0-1200m.	May-September	Moderate Potential. Some of the habitat components meeting the species requirements are present, and/or only some of the habitat on or adjacent to the site is unsuitable.	<b>Not Present</b>
<i>Ramalina thrausta</i> /angel's hair lichen	--/--/2B.1	North coast coniferous forest. On dead twigs and other lichens. 75-430 m.	Fruticose lichen epiphytic. Not applicable.	Moderate Potential. Some of the habitat components meeting the species requirements are present, and/or only some of the habitat on or adjacent to the site is unsuitable.	<b>Not Present</b>



Taxa/Common Name	Listing Status: Federal/ State/CRPR	Habitat and Elevation	Blooming Period	Potential Occurrence	Survey Results
<i>Rosa gymnocarpa</i> var. <i>serpentina</i> /Gasquet rose	--/--/1B.3	Chaparral, cismontane woodland. Serpentine. Often on roadsides, sometime on ridges, streambanks, and in openings. 400-1500 m.	April-June	Absent. Suitable habitat is not present in the study area.	<b>Not Present</b>
<i>Sanguisorba officinalis</i> /great burnet	--/--/2B.2	Bogs & fens, meadows & seeps, broad-leaved upland forest, marshes & swamps, north coast coniferous forest, riparian forest. Rocky serpentine seepage areas and along stream borders. 60-1400 m.	July-October	Absent. Suitable habitat is not present in the study area.	<b>Not Present</b>
<i>Sidalcea malviflora</i> ssp. <i>patula</i> /Siskiyou checkerbloom	--/--/1B.2	Coastal prairie, broad-leaved upland forest. Open coastal forest. 15-65m.	May-August	Absent. Suitable habitat is not present in the study area.	<b>Not Present</b>
<i>Sidalcea oregana</i> ssp. <i>eximia</i> /coast sidalcea	--/--/1B.2	Meadows and seeps, North Coast coniferous forest, lower montane coniferous forest. Nears meadows, in gravelly soil. 5-1340 m.	June-August	Moderate Potential. Some of the habitat components meeting the species requirements are present, and/or only some of the habitat on or adjacent to the site is unsuitable.	<b>Not Present</b>
<i>Thermopsis robusta</i> /robust false lupine	--/--/1B.2	North Coast coniferous forest, broad-leaved upland forest. Ridgetops; sometimes on serpentine. 150-1500 m.	May-July	Absent. Suitable habitat is not present in the study area.	<b>Not Present</b>

Table 2. Species list of plants within the potential project boundary

Taxa	Common Name
Trees:	
<i>Acer macrophyllum</i>	big leaf maple
<i>Alnus rubra</i>	red alder
<i>Arbutus menziesii</i>	madrone
<i>Notholithocarpus densiflorus</i> var. <i>densiflorus</i>	tan oak
<i>Pinus ponderosa</i>	ponderosa pine
<i>Platanus racemosa</i>	western sycamore
<i>Populus trichocarpa</i>	black cottonwood
<i>Prunus</i> (cultivar)	plum
<i>Pseudotsuga menziesii</i>	Douglas fir
<i>Quercus chrysolepis</i>	canyon live oak
<i>Quercus garryana</i> var. <i>garryana</i>	Oregon white oak
<i>Quercus kelloggii</i>	black oak
Shrubs:	
<i>Baccharis pilularis</i> ssp. <i>consanguinea</i>	coyote brush
<i>Ceanothus integrerrimus</i>	deer brush
<i>Salix lasiolepis</i>	arroyo willow
Herbs:	
<i>Acemisson americanus</i>	deervetch
<i>Agrostis stolonifera</i>	creeping bent
<i>Aira caryophyllea</i>	silver hair grass
<i>Allium triquetrum</i>	wild onion
<i>Avena barbata</i>	slender wild oat
<i>Bellis perennis</i>	English daisy
<i>Bromus carinatus</i> var. <i>carinatus</i>	California brome
<i>Bromus diandrus</i>	ripgut grass
<i>Bromus hordeaceus</i>	soft chess
<i>Castilleja attenuata</i>	valley tassels
<i>Centaurea solstitialis</i>	yellow star thistle
<i>Cerastium glomeratum</i>	mouse-ear chickweed
<i>Cichorium intybus</i>	chicory
<i>Claytonia perfoliata</i>	miner's lettuce
<i>Cynosurus echinatus</i>	bristly dogtail grass
<i>Dactylis glomerata</i>	orchard grass
<i>Daucus carota</i>	Queen Anne's lace
<i>Dryopteris expansa</i>	wood fern

Taxa	Common Name
<i>Equisetum telmateia</i> var. <i>braunii</i>	giant horsetail
<i>Erodium cicutarium</i>	redstem filaree
<i>Eschscholzia californica</i>	California poppy
<i>Festuca arundinacea</i>	tall fescue
<i>Festuca californica</i> ssp. <i>californica</i>	California fescue
<i>Festuca myuros</i>	sixweek rattail fescue
<i>Fragaria vesca</i>	wood strawberry
<i>Galium aparine</i>	cleavers
<i>Geranium dissectum</i>	cranesbill
<i>Geranium molle</i>	cranesbill
<i>Hedera helix</i>	English ivy
<i>Heuchera micrantha</i>	alum root
<i>Holcus lanatus</i>	common velvet grass
<i>Hordeum marinum</i> ssp. <i>gussoneanum</i>	Mediterranean barley
<i>Hypochaeris radicata</i>	rough cat's-ear
<i>Juncus ensifolius</i>	rush
<i>Lathyrus latifolius</i>	perennial sweet pea
<i>Linum bienne</i>	flax
<i>Lonicera hispidula</i>	honeysuckle
<i>Lupinus affinis</i>	lupine
<i>Lupinus nanus</i>	lupine
<i>Lythrum hyssopifolium</i>	loosestrife
<i>Monardella</i> sp.	monardella
<i>Nasturtium officinale</i>	watercress
<i>Navarretia leucocephala</i> ssp. <i>leucocephala</i>	navarretia
<i>Pedicularis densiflora</i>	warrior's plume
<i>Plantago lanceolata</i>	English plantain
<i>Poa annua</i>	annual bluegrass
<i>Poa bulbosa</i>	bulbous blue grass
<i>Polypodium glycyrrhiza</i>	licorice fern
<i>Ranunculus occidentalis</i>	western buttercup
<i>Raphanus sativus</i>	wild radish
<i>Rubus armeniacus</i>	Himalayan blackberry
<i>Rumex acetosella</i>	sheep sorrel
<i>Rumex conglomeratus</i>	dock
<i>Sanicula crassicaulis</i>	sanicula
<i>Satureja douglasii</i>	yerba buena
<i>Scirpus microcarpus</i>	small fruited bulrush



Taxa	Common Name
<i>Silene gallica</i>	catchfly
<i>Silybum marianum</i>	milk thistle
<i>Sonchus asper</i> ssp. <i>asper</i>	prickly sow thistle
<i>Stachys chamissonis</i>	hedge nettle
<i>Taraxacum officinale</i>	common dandelion
<i>Toxicodendron diversilobum</i>	poison oak
<i>Trifolium dubium</i>	clover
<i>Trifolium hirtum</i>	rose clover
<i>Trifolium repens</i>	white clover
<i>Vicia hirsuta</i>	vetch
<i>Vicia sativa</i> ssp. <i>sativa</i>	common vetch
<i>Vitis californica</i>	California wild grape
<i>Zantedeschia x hybrid</i>	calla lily