

# Appendix B10

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Planning Survey Report



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*An Environmental Consulting Firm*

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**PLANNING SURVEY REPORT (PSR) SOLAR RV/BOAT AND MINI-STORAGE, 3478 PITTSBURG-ANTIOCH HIGHWAY, PITTSBURG, CA 94565. APN 074-100-018. CONTRA COSTA COUNTY APPLICATION AP-17-1278 (PPR). MHBA FILE 0907-2121-3760.**

## **1.0 INTRODUCTION**

During September and October, 2021, a Planning Level and Species-Specific Biological Resource Evaluation and Wetland Determination was conducted by Marcus H. Bole & Associates (MHBA) on a 12.51-acre study area of ruderal non-native grasslands (subject property) located at 3478 Pittsburg-Antioch Highway, Pittsburg, Contra Costa County, California. The subject property is located on the U.S. Geological Survey (USGS) Antioch North 7.5-minute quadrangle, Township 13 North, Range 1 East, Los Medanos Land Grant. The majority of the subject property is relatively flat with elevations ranging from approximately 20 feet to 40 feet above sea level near the eastern and southern perimeters of the project site. The Contra Costa Canal is located immediately to the east and off the property and will not be affected by the proposed development of the Solar RV/Boat and Mini-Storage project. The Contra Costa Canal is a man-made feature that is classified as an aqueduct. As such, no set-back from the canal is mandated or recommended.

MHBA'S onsite evaluations confirmed that land cover within the subject property consists of ruderal non-native grassland habitat (11.57-acres), graveled surfaces (0.56-acres), and one seasonal wetland (0.39-acres). A field verified land cover map is attached (Attachment A).

The proposed development will be a self-storage facility consisting of prefabricated, modular storage units on 9.2-acres. The storage units will be placed on an asphalt parking lot. The project is proposing to screen the units with use of landscaping and wrought iron fencing. In addition, the project will include a solar generation facility. The project will result in 9.2-acres of permanent impacts to ruderal non-native grasslands subject to mitigation through the East Contra County Habitat Conservation Plan and Natural Community Conservation Plan (HCP/NCCP).

## 2.0 METHODOLOGY

Field surveys of biological resources included a reconnaissance-level evaluation of plants and animals observed in and near the subject property, habitat assessments for special status plant and wildlife species, and a determination of wetland habitats within the subject property. Biological and botanical surveys were conducted based on the California Department of Fish and Wildlife's (CDFW) Natural Diversity Database (CNDDDB, October 2021), the United States Fish & Wildlife Service's (USFWS) IPaC Resource List, the California Native Plant Society's (CNPS) list of rare and endangered plants and the East Contra County HCP/NCCP) database of Covered Species and Conditions on Covered Activities. All species lists were derived from the United States Geological Survey (USGS) "Antioch North, Antioch South, Brentwood, Jersey Island, Rio Vista, Birds Landing, Denverton, Honker Bay and Clayton" 7.5 minute quadrangles. Based on the results of the species lists, appropriate biological and botanical surveys were conducted. Species habitat surveys were conducted during the September-October 2021 time period by Marcus H. Bole & Associates' (MHBA) Senior Wildlife Biologist Marcus H. Bole<sup>1</sup>. The species habitat surveys were conducted by walking all areas of the property (and surrounding 500 foot buffer) and evaluating potential habitat for special-status species based on vegetation composition and structure, surrounding area, presence of predatory species, microclimate, and available resources (e.g. prey remains, nesting burrows, cast pellet, eggshell fragments, excrement, etc.). A general botanical survey and habitat evaluation for rare plant botanical species was conducted during the September-October 2021 time period by MHBA's senior botanist Charlene J. Bole. The general botanical survey and habitat evaluation for rare plant botanical species was conducted by walking all areas of the property area while taking inventory of general botanical species and searching for special-status plant species and their habitats. A determination of Waters of the U.S. was conducted on October 8, 2021 by Senior Wetland Scientist Marcus H. Bole and was conducted under the guidelines of the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region* (2008).

### 2.1 Regulatory Requirements

The following describes federal, state, and local environmental laws and policies that are relevant to the National Environmental Policy Act (NEPA) and the California Environmental Quality Act (CEQA) review process.

#### Federal Endangered Species Act

The United States Congress passed the Federal Endangered Species Act (ESA) in 1973 to protect species that are endangered or threatened with extinction. The ESA is intended to operate in conjunction with the National Environmental Policy Act (NEPA) to help protect the ecosystems upon which endangered and threatened species depend. The ESA makes it unlawful to "take" a listed animal without a permit. Take is defined as "to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect or attempt to engage in any such conduct". Through regulations, the

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<sup>1</sup> Marcus H. Bole is a Senior Wildlife Biologist and Senior Wetland Scientist and an East Contra County HCP/NCCP approved biologist. Resume is Attachment E.

term “harm” is defined as “an act which actually kills or injures wildlife”. Such an act may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding, or sheltering.

### Migratory Bird Treaty Act

The Migratory Bird Treaty Act (MBTA) (16 USC §703) prohibits the killing of migratory birds or the destruction of their occupied nests and eggs except in accordance with regulations prescribed by the USFWS. The bird species covered by the MBTA includes nearly all of those that breed in North America, excluding introduced (i.e. exotic) species (50 Code of Federal Regulations §10.13). Activities that involve the removal of vegetation including trees, shrubs, grasses, and forbs or ground disturbance has the potential to affect bird species protected by the MBTA.

### Waters of the United States, Clean Water Act, Section 404

The US Army Corps of Engineers (USACE) and the U.S. Environmental Protection Agency (EPA) regulate the discharge of dredged or fill material into jurisdictional waters of the United States, under the Clean Water Act (§404). The term “waters of the United States” is an encompassing term that includes “wetlands” and “other waters”. Wetlands have been defined for regulatory purposes as follows: “those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions (33 CFR 328.3, 40 CFR 230.3). Wetlands generally include swamps, marshes, bogs, and similar areas.” Other Waters of the United States (OWUS) are seasonal or perennial water bodies, including lakes, stream channels, drainages, ponds, and other surface water features, that exhibit an ordinary high-water mark but lack positive indicators for one or more of the three wetland parameters (i.e., hydrophytic vegetation, hydric soil, and wetland hydrology) (33 CFR 328.4). The USACE may issue either individual permits on a case-by-case basis or general permits on a program level. General permits are pre-authorized and are issued to cover similar activities that are expected to cause only minimal adverse environmental effects. Nationwide permits are general permits issued to cover particular fill activities. All nationwide permits have general conditions that must be met for permits issued for a particular project, as well as specific regional conditions that apply to each nationwide permit. Until recently, isolated swales and ephemeral drainages would not have been considered United States Army Corps of Engineers jurisdictional in accordance with the U.S. Environmental Protection Agency’s Navigable Waters Protection Rule (NWPR). However, on August 30, 2021, in the case of Pascua Yaqui Tribe v. U.S Environmental Protection Agency, the U.S. District Court for the District of Arizona vacated and remanded the NWPR. In light of this order, the U.S. Environmental Protection Agency and the USACE have halted implementation of the NWPR and, until further notice, are interpreting “waters of the United States” consistent with the pre-2015 regulatory regime. Therefore, seasonal swales if they meet the criteria set forth in the *United States Army Corps of Engineers Wetlands Delineation Manual (1987)* and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (2008)*, would now be considered an “other Water of the

United States” and subject to federal jurisdiction in accordance with the Clean Water Act (consistent with the pre-2015 regulatory regime 40 CFR 230.3(s). Any impact to the seasonal swale would be subject to mitigation measures in accordance the USACE directives and mitigation measures outlined in the East Contra Costa HCP/NCCP.

#### Clean Water Act, Section 401

The Clean Water Act (§401) requires water quality certification and authorization for placement of dredged or fill material in wetlands and OWUS. In accordance with the Clean Water Act (§401), criteria for allowable discharges into surface waters have been developed by the State Water Resources Control Board, Division of Water Quality. The resulting requirements are used as criteria in granting National Pollutant Discharge Elimination System (NPDES) permits or waivers, which are obtained through the Regional Water Quality Control Board (RWQCB) per the Clean Water Act (§402). Any activity or facility that will discharge waste (such as soils from construction) into surface waters, or from which waste may be discharged, must obtain an NPDES permit or waiver from the RWQCB. The RWQCB evaluates an NPDES permit application to determine whether the proposed discharge is consistent with the adopted water quality objectives of the basin plan.

#### California Endangered Species Act

The California Endangered Species Act (CESA) is similar to the ESA, but pertains to state-listed endangered and threatened species. The CESA requires state agencies to consult with the CDFW when preparing documents to comply with the CEQA. The purpose is to ensure that the actions of the lead agency do not jeopardize the continued existence of a listed species or result in the destruction, or adverse modification of habitat essential to the continued existence of those species. In addition to formal listing under the federal and state endangered species acts, “species of special concern” receive consideration by CDFW. Species of special concern are those whose numbers, reproductive success, or habitat may be threatened.

#### California Fish and Wildlife Code

The California Fish and Wildlife Code (CFWC) (§3503.5) states that it is “unlawful to take, possess, or destroy any birds in the order Falconiformes (hawks, eagles, and falcons) or Strigiformes (all owls except barn owls) or to take, possess, or destroy the nest or eggs of any such bird except as otherwise provided by this code or any regulation adopted pursuant thereto”. Take includes the disturbance of an active nest resulting in the abandonment or loss of young. The CFWC (§3503) also states that “it is unlawful to take, possess, or needlessly destroy the nest or eggs of any bird, except as otherwise provided by this code or any regulation made pursuant thereto”.

#### Rare and Endangered Plants

The CNPS maintains a list of plant species native to California with low population numbers, limited distribution, or otherwise threatened with extinction. This information is published in the

Inventory of Rare and Endangered Vascular Plants of California. Potential impacts to populations of CNPS-ranked plants receive consideration under CEQA review. The CNPS California Rare Plant Rank (CRPR) categorizes plants as the following:

- Rank 1A: Plants presumed extinct in California;
- Rank 1B: Plants rare, threatened, or endangered in California or elsewhere;
- Rank 2: Plants rare, threatened, or endangered in California, but more numerous elsewhere;
- Rank 3: Plants about which we need more information; and
- Rank 4: Plants of limited distribution.

The California Native Plant Protection Act (CFGF §1900-1913) prohibits the taking, possessing, or sale within the state of any plants with a state designation of rare, threatened, or endangered as defined by CDFW. An exception to this prohibition allows landowners, under specific circumstances, to take listed plant species, provided that the owners first notify CDFW and give the agency at least 10 days to retrieve (and presumably replant) the plants before they are destroyed. Fish and Wildlife Code §1913 exempts from the ‘take’ prohibition ‘the removal of endangered or rare native plants from a canal, lateral ditch, building site, or road, or other right of way’.

#### California Environmental Quality Act Guidelines §15380

Although threatened and endangered species are protected by specific federal and state statutes, CEQA Guidelines §15380(d) provides that a species not listed on the federal or state list of protected species may be considered rare or endangered if the species can be shown to meet certain specified criteria. These criteria have been modeled based on the definition in the ESA and the section of the CFGF dealing with rare, threatened, and endangered plants and animals. The CEQA Guidelines (§15380) allows a public agency to undertake a review to determine if a significant effect on species that have not yet been listed by either the USFWS or CDFW (e.g. candidate species, species of concern) would occur. Thus, CEQA provides an agency with the ability to protect a species from a project’s potential impacts until the respective government agencies have an opportunity to designate the species as protected, if warranted.

#### East Contra Costa County Habitat Conservation Plan/Natural Community Conservation Plan

The East Contra Costa County Habitat Conservation Plan/Natural Community Conservation Plan (HCP/NCCP) is intended to provide an effective framework to protect natural resources in eastern Contra Costa County, while improving and streamlining the environmental permitting process for impacts on endangered species. The Plan will allow Contra Costa County (County), the Contra Costa County Flood Control and Water Conservation District (County Flood Control District), the East Bay Regional Park District (EBRPD) the Cities of Brentwood, Clayton, Oakley, and Pittsburg and the Implementing Entity that will be established to implement the Plan (collectively, the Permittees) to control endangered species permitting for activities and projects in the region that they perform or approve. The Plan will also provide for comprehensive species, wetlands, and ecosystem conservation and contribute to the recovery of endangered species in northern California. The Plan will avoid project-by-project permitting that is generally costly and

time consuming for applicants and often results in uncoordinated and biologically ineffective mitigation. The Permittees are asking the U.S. Fish and Wildlife Service (USFWS) to issue to them a 30-year permit that authorizes incidental take on listed species under the federal Endangered Species Act (ESA). The Permittees are also asking the California Department of Fish and Game (CDFG) to issue to them a 30-year permit that authorizes take of all covered species under the Natural Community Conservation Planning Act (NCCPA). The local jurisdictions will then be able to use those permits to extend take authorization to development and other activities that meet the terms of the Plan. USFWS and CDFG will also provide assurances to local jurisdictions and Plan participants that no further commitments of funds, land, or water will be required to address impacts on covered species beyond that described in the Plan. Local jurisdictions will provide similar assurances to local applicants.

This Plan proposes to provide take authorization for 28 listed and non-listed species (i.e., covered species). The Plan includes conservation measures to protect all 28 covered species, whether or not they are currently listed. Accordingly, should any non-listed covered species become listed during the permit term, additional conservation measures will not be required. Species proposed for coverage include: Townsend's western big-eared bat, Longhorn fairy shrimp, San Joaquin kit fox, Vernal pool fairy shrimp, Midvalley fairy shrimp, Tricolored Blackbird, Vernal pool tadpole shrimp, Golden Eagle, Western Burrowing Owl, Mount Diablo manzanita, Swainson's hawk, Brittle-scale, San Joaquin spearscale, Silvery legless lizard, Big tarplant, Alameda whipsnake, Mount Diablo fairy lantern, Giant garter snake, Recurved larkspur, Western pond turtle, Round-leaved filaree, Diablo helianthella, California tiger salamander, Brewer's dwarf flax, California red-legged frog, Showy madia, Foothill yellow-legged frog, and Adobe navarretia.

### **3.0 SETTING**

The subject property is a 12.51-acre vacant, undeveloped parcel located on the Pittsburg-Antioch Highway in the City of Pittsburg, California (APN 074-100-018). The subject property is located in a rural-industrial part of the city and is bordered by industrial/commercial development to the east and west, Union Pacific railroad tracks to the south, and the Pittsburg-Antioch Highway to the north. The vegetative community descriptions and nomenclature described in this section generally follow the classification system provided in Sawyer and Keeler-Wolf's *A Manual of California Vegetation* (1995), Mayer and Laudenslayer's *A Guide to Wildlife Habitats of California* (1988), and the *Jepson Manual, 2<sup>nd</sup> edition* (Hickman 1993).

### **4.0 RESULTS**

#### **4.1 Description of the Existing Biological and Physical Conditions**

The following describes the biological and physical conditions within the property and within the surrounding area.

### 4.1.1 Property Description

The property is a 12.51-acre parcel within the East Contra Costa HCP/NCCP Development Fee Zone 1. The majority of the property (11.57-acres) is ruderal, non-native grasses and forbs. A small area has been graded and filled with gravel (0.56-acres). A small, well-defined seasonal wetland (0.39-acres) is located in the northeastern portion of the property.

### 4.1.2 Physical & Biological Conditions

#### Disturbed, Ruderal, Non-Native Grassland

Vegetation in the majority of the property consists of ruderal, non-native grasses and forbs. The property has been graded and lightly disked. Disturbed, ruderal, non-native grasslands are those dominated by plant species introduced by humans and established or maintained by human disturbances or activities. Some areas are entirely artificial such as those that have been filled with gravel to provide year around vehicle access. Ruderal vegetation is dominated by soft chess (*Bromus hordeaceus*), slender wild oats (*Avena barbata*), red brome (*Bromus madritensis* spp.), mustard (*Hirscheldia* spp. & *Brassica nigra*), and meadow fescue (*Festuca pratensis*).

Native and introduced wildlife species are tolerant of human activities (road traffic, surrounding commercial/industrial activities) in disturbed non-native grassland habitats. Common wildlife observed onsite include the northern mockingbird (*Mimus polyglottos*), house finch (*Carpodacus mexicanus*), house sparrow (*Passer domesticus*), Western meadowlark (*Sturnella neglecta*), American robin (*Turdus migratorius*), and the American pipit (*Anthus rubescens*). Also observed are mammals such as raccoon (*Procyon lotor*), skunk (*Mephitis mephitis*), house mouse (*Mus musculus*), and the black-tailed jackrabbit (*Lepus californicus*).

#### Seasonal Wetlands

A small (0.39-acre) seasonal wetland was evaluated and delineation in the northeastern portion of the property. The seasonal wetland is dominated by creeping spikerush (*Eleocharis macrostachya*), annual beard grass (*Polypogon monspeliensis*), broadleaf pepperweed (*Lepidium latifolium*), common tule (*Schoenoplectus acutus* var. *occidentalis*), and Mediterranean barely (*Hordeum marinum* ssp. *gussoneanum*). A single red willow (*Salix laevigata*) and a Fremont's cottonwood (*Populus fremontii*) were observed along the edges of the seasonal wetland. Wetland Data Sheets were prepared for all areas that exhibited a potential to support wetland habitats (Appendix D)

#### Special Status Plant Species

According to the CDFW's CNDDDB, more than 23 special-status plant species are known to occur in the vicinity of the subject property. These plants occur in specialized habitats, i.e., brackish and freshwater marshes, swamps, and riparian scrub. It is highly unlikely that special-status plants occur within the subject property since the project area has been extensively disturbed over the years and there are areas of gravel scattered over the ground. No impacts to rare plants are expected.

## Special Status Wildlife Species

According to CDFW’s CNDDDB, more than 15 special-status wildlife species are known to occur in the vicinity of the subject property. The only special status species that has the potential to occur on or in the immediate vicinity of the subject property is the western burrowing owl (*Athene cunicularia*). The Contra Costa County HCP has indicated that the property’s ruderal grassland habitat is considered suitable breeding and foraging habitat for the western burrowing owl. During onsite surveys MHBA’s biologists did not detect the presence of the owl; however, the site does support the California ground squirrel that typically provides the burrows used by the western burrowing owl for nesting and general habitation in the region of the subject property. Only a few burrows were found onsite and those burrows did not exhibit the presence of the owl (molted feathers, cast pellets, prey remains, eggshell fragments, or excrement).

### 4.2 Regional Species and Habitats of Concern

The following table is a list of species that have the potential to occur within or near the subject property and is composed of special-status species within the Antioch North, Antioch South, Brentwood, Jersey Island, Rio Vista, Birds Landing, Denverton, Honker Bay and Clayton” 7.5 minute quadrangles. Species lists reviewed, and which are incorporated in the following table, include the CDFW, USFWS, CNDDDB and Contra Costa County HCP/NCCP species lists for those special status species within five miles of the subject property. Species that have the potential to occur within the project area are based on an evaluation of suitable habitat to support these species and observations made during biological surveys. Not all species listed within the following table have the potential to occur within the project area based on unsuitable habitat.

**Table 1. Listed and Proposed Species Potentially Occurring or Known to Occur within five miles of (APN 074-100-018)**

Common Name ( <i>Scientific Name</i> )	<u>Status</u> Fed/State/ CNPS	General Habitat Description	Habitat Present/ Habitat Absent	Rationale
<b>INVERTEBRATES</b>				
<b>Valley elderberry longhorn beetle</b> ( <i>Desmocerus californicus dimorphus</i> )	FT/ / _	Blue elderberry shrubs usually associated with riparian areas.	A/HA	There are no elderberry shrubs within the property or within 1,000 feet of the property.
<b>Vernal pool fairy shrimp</b> ( <i>Branchinecta lynchi</i> )	FT/ / _	Moderately turbid, deep, cool-water vernal pool.	A/HA	There are no vernal pools within or near the property.

<b>Common Name</b> <i>(Scientific Name)</i>	<b>Status</b> Fed/State/ CNPS	<b>General Habitat</b> <b>Description</b>	<b>Habitat</b> <b>Present/ Habitat</b> <b>Absent</b>	<b>Rationale</b>
<b>Vernal pool tadpole shrimp</b> <i>(Lepidurus packardii)</i>	FE/_/_	Vernal pools, swales, and ephemeral freshwater habitat.	A/HA	There are no vernal pools within or near the property.
<b>REPTILES AND AMPHIBIANS</b>				
<b>California red-legged frog</b> <i>(Rana draytonii)</i>	FT/SSC/_	Quiet pools of streams, marshes and occasionally ponds. (sea level - 4,500 ft elevation)	A/HA	There is no suitable habitat within or near the property. None observed.
<b>Giant garter snake</b> <i>(Thamnophis gigas)</i>	FT/ST/_	Agricultural wetlands and other wetlands such as irrigation and drainage canals, low gradient streams, marshes ponds, sloughs, small lakes, and there associated uplands.	A/HA	There is no suitable habitat within the property. None observed.
<b>Western pond turtle</b> <i>(Emys marmorata)</i>	_/_/SSC	A thoroughly aquatic turtle of ponds, marshes, rivers, streams and irrigation ditches. Needs basking sites and suitable upland habitat.	A/HA	There is no suitable habitat within or near the property. None observed.
<b>California tiger salamander</b> <i>(Ambystoma californiense)</i>	FT/ST/_	Need underground refuges, especially ground squirrel burrows, and vernal pools or other seasonal water sources for breeding.	A/HA	There is no suitable habitat within or near the property to support this species.
<b>FISH</b>				
<b>Delta smelt</b> <i>(Hypomesus transpacificus)</i>	FT/SE/_	Sacramento-San Joaquin Estuary	A/HA	The Sacramento River is not part of this project.
<b>BIRDS</b>				
<b>Least Bell's Vireo</b> <i>(Vireo belli pusillus)</i>	FE/SE/_	Nests placed along margins of bushes or on twigs projecting into pathways, usually willows, baccharis, mesquite. Low riparian in dry river bottoms.	A/HA	There is no suitable habitat for this species within or near the property. None observed.
<b>Song swallow</b> <i>(Riparia riparia)</i>	_/_/SSC	Last found in Sacramento area in 1877. Nest made of	A/HA	There is no suitable habitat for this species within

<b>Common Name</b> <i>(Scientific Name)</i>	<b>Status</b> Fed/State/ CNPS	<b>General Habitat</b> <b>Description</b>	<b>Habitat</b> <b>Present/ Habitat</b> <b>Absent</b>	<b>Rationale</b>
		decayed grasses, bit of tule and dead leaves.		or near the property.
<b>Western burrowing owl</b> <i>(Athene cunicularia)</i>	MBTA/SSC/_	Open, dry annual or perennial grasslands, deserts and scrublands characterized by low-growing vegetation.	A/HP	There is suitable habitat for this species within the property. Preconstruction surveys and Biological monitoring recommended.
<b>Swainson's hawk</b> <i>(Buteo swainsoni)</i>	MBTA/ST/_	Open grasslands and shrub lands.	A/HP	Property supports suitable foraging habitat. CNDDDB lists nest trees within ½ mile of property.
<b>Tri-colored black bird</b> <i>(Agelaius tricolor)</i>	MBTA/SSC/_	Marshes and swamps, agricultural irrigation ditches, blackberry brambles and grasslands	A/HA	There is no suitable habitat for this species within or near the property.
<b>Western yellow-billed cuckoo</b> <i>(Coccyzus americanus occidentalis)</i>	FC/SE/_	Open woodlands, riparian areas, orchards and moist, overgrown thickets	A/HA	There is no suitable habitat for this species within or near the property. None observed.
<b>White-tailed kite</b> <i>(Elanus leucurus)</i>	MBTA/_/_	Open grasslands, meadows, or marshes for foraging, dense-topped trees for nesting and perching	A/HP	Property supports suitable foraging habitat. CNDDDB lists nest trees within 5 miles of property. None observed.
<b>Bank swallow</b> <i>(Riparia riparia)</i>	_/ST/_	Nests in riparian and other lowland habitats. Requires vertical banks/cliffs with fine-textured/sandy soils near streams, rivers, lakes and ocean to dig nesting hole.	A/HA	There is no suitable habitat for this species within or near the property. None observed.
<b>MAMMALS</b>				
<b>Hoary bat</b> <i>(Lariurus cinereus)</i>	_/_/_	Roost in large to medium sized trees with dense foliage.	A/HA	There is no suitable habitat for

<b>Common Name</b> <i>(Scientific Name)</i>	<b>Status</b> Fed/State/ CNPS	<b>General Habitat</b> <b>Description</b>	<b>Habitat</b> <b>Present/ Habitat</b> <b>Absent</b>	<b>Rationale</b>
				this species within or near the property. None observed.
<b>PLANTS</b>				
<b>Keck's checkerbloom</b> <i>(Sidalcea keckii)</i>	FE/_/1B.1	Cismontane woodland, valley and foothill grassland. Grassy slopes in blue oak woodland, on serpentine-derived, clay soils.	A/HA	There is no suitable habitat for this species within or near the property. None observed.
<b>Ferris' milk-vetch</b> <i>(Astragalus tener var. ferrisiae)</i>	_/_/1B.1	Meadows and seeps, valley and foothill grassland. Subalkaline flats, usually seen in dry, adobe soils.	A/HA	There is no suitable habitat for this species within or near the property. None observed.
<b>Palmate-Bracted Bird's Beak</b> <i>(Chloropyron palmatum)</i>	FE/SE/1B.1	Chenopod scrub, valley and foothill grassland. Usually on Pescadero silty clay which is alkaline, with <i>Distichlis</i> , <i>Frankenia</i> , etc.	A/HA	There is no suitable habitat for this species within or near the property. None observed.

<b>CODE DESIGNATIONS</b>	
<b>FE</b> = Federal-listed Endangered <b>FT</b> = Federal-listed Threatened <b>FPE</b> = Federal Proposed Endangered <b>FPT</b> = Federal Proposed Threatened <b>FC</b> = Federal Candidate Species <b>MBTA</b> = Protected by the federal Migratory Bird Treaty Act <b>SE</b> = California State-listed Endangered <b>ST</b> = California State-listed Threatened <b>SR</b> = California State-listed Rare <b>SSC</b> = California State Species of Special Concern <b>SC</b> = California Candidate <b>S1</b> = State Critically Imperiled <b>S2</b> = State Imperiled <b>S3</b> = State Vulnerable <b>S4</b> = State Apparently Secure	<b>A</b> = Species Absent <b>P</b> = Species Present <b>HA</b> = Habitat Absent <b>HP</b> = Habitat Present <b>CH</b> = Critical Habitat <b>MH</b> = Marginal Habitat <b>CNPS 1B</b> = Rare or Endangered in California or elsewhere <b>CNPS 2</b> = Rare or Endangered in California, more common elsewhere <b>CNPS 3</b> = More information is needed <b>CNPS 4</b> = Plants with limited distribution <b>0.1</b> = Seriously Threatened <b>0.2</b> = Fairly Threatened <b>0.3</b> = Not very Threatened

## Project Impacts

With the implementation of preconstruction surveys and biological monitoring, there will be no direct or indirect impacts to the western burrowing owl. Direct impacts to all avian species will be avoided or minimized by beginning construction prior to the avian breeding season and/or

conducting a preconstruction nesting raptor/migratory bird survey prior to the start of construction activities if construction activities will begin during the avian breeding season. By beginning construction prior to the avian breeding season (between March 1 and August 30) there will be no active nests within ¼ mile of the property and direct impacts to avian species will not occur. Furthermore, beginning construction prior to the avian breeding season will also deter avian species from nesting within or within close proximity of the property, which will also avoid impacts to species. If active avian nests are found within 1,320 feet of the property, then construction buffers, as determined by a qualified biologist, will be established and no construction will occur within the buffer until the biologist has determined that the young have fledged.

### Cumulative Effects

There are no foreseeable new actions that have potential to impact state and/or federally protected special status plant or wildlife species within or near the subject property, or contribute to cumulative negative effects to such species.

**Table 2. Impacts and Recommended Avoidance/Minimization Measures**

<b>Target Species/ Communities</b>	<b>Impacts</b>	<b>Avoidance/ Minimization/ Mitigation Measures</b>
<b>Natural Communities</b>	<b>None</b>	The majority of the subject property is disturbed, graded and does not support any natural plant or wildlife communities. The seasonal swale in the northeastern portion of the property has been largely undisturbed due to being significantly lower in elevation from the majority of the property. Due to being lower in elevation and undisturbed, the swale supports a seasonal wetland habitat.
<b>Special Status Plant / Wildlife Species</b>	<b>Less Than Significant with Mitigation Incorporated</b>	Avian species: prior to any ground disturbance related to covered activities, a USFWS/CDFW approved biologist will conduct a preconstruction survey on and within 500 feet of the subject property. If active nests (with eggs or living young) are found within 1,320 feet of the project area, no activity shall be permitted that might disturb or remove the active nests until the young birds are able to leave the nest and forage on their own. Setback buffers for the nests will vary depending on the species affected and the location of the nest. Buffer zones shall be determined on a case by case basis in consultation with a California Department of Fish and Wildlife/East Contra Costa HCP/NCCP approved biologist.
<b>Seasonal Wetland Habitats</b>	<b>Less Than Significant with Mitigation Incorporated</b>	The seasonal wetland within the northeastern portion of the subject property will be avoided and protected with a 25 foot buffer. During construction, the wetland and buffer will be fenced and protected with silt fence/straw wattles. Signage will be installed prohibiting access to the fenced off area.

## **5.0 RESULTS: PERMITS AND TECHNICAL STUDIES FOR SPECIAL LAWS OR CONDITIONS**

### **5.1 Federal Endangered Species Act Consultation Summary**

The USFWS was contacted during September and October 2021, for a list of endangered, threatened, sensitive and rare species, and their habitats within and near the subject property. The list was derived from special-status species that occur or have the potential to occur within the USGS North Antioch 7.5" Quadrangle and eight surrounding quadrangles. The list was referenced to determine appropriate biological and botanical surveys and potential species occurrence within the project area. (See Appendix B).

### **5.2 Federal Fisheries and Essential Fish Habitat Consultation Summary**

Essential fish habitat (EFH) means those waters and substrate necessary to fish for spawning, breeding, feeding, or growth to maturity (Magnuson-Stevens Fishery Conservation and Management Act (MSA) §3). There is no habitat within the project area that provides "waters and substrate necessary to fish for spawning, breeding, feeding, or growth to maturity," or special-status fish species managed under a fishery council (i.e chinook and coho). Therefore there is no EFH or the need for federal fisheries consultation.

### **5.3 California Endangered Species Act Consultation Summary**

The CDFW was consulted during September and October 2021, for a list of endangered, threatened, sensitive and rare species, and their habitats within and near the subject property. The list was derived from special-status species that occur or have the potential to occur within the USGS North Antioch 7.5" Quadrangle and eight adjacent quadrangles. The list was referenced to determine appropriate biological and botanical surveys and potential species occurrence within the project area. (See Appendix B).

### **5.4 Wetlands and Others Water Coordination Summary**

MHBA conducted a determination of Waters of the U.S. within the project area. Surveys were conducted on October 2021 by MHBA's Senior Wetland Scientist Marcus H. Bole. The surveys involved an examination of botanical resources, soils, hydrological features, and determination of wetland characteristics based on the *United States Army Corps of Engineers Wetlands Delineation Manual (1987)*; *the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region (2008)*; the *U.S. Army Corps of Engineers Jurisdictional Determination Form Instructional Guidebook (2007)*; the *U.S. Army Corps of Engineers Ordinary High Flows and the Stage-Discharge Relationship in the Arid West Region (2011)*; and the *U.S. Army Corps of Engineers Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States (2008)*.

## 5.5 Determination of Waters of the United States

The intent of this determination is to identify wetlands and “Other Waters of the United States” that are present within the project area that could fall under the regulatory jurisdiction of the U. S. Army Corps of Engineers (Corps) pursuant to Section 404 of the Clean Water Act. The *1987 Corps of Engineers Wetlands Delineation Manual* identifies several methodologies and combinations of methodologies that can be utilized in making jurisdictional determinations. Marcus H. Bole & Associates has employed the Routine On-Site Determination methodology for this study (as supplemented by the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Arid West Region*, dated September 2008). The Routine On-Site Determination method uses a three-parameter approach (vegetation, soils and hydrology) to identify and delineate the boundaries of jurisdictional wetlands. To be considered a wetland, all three positive wetland parameters must be present. These parameters include (1) a dominance of wetland vegetation, (2) a presence of hydric soils, and (3) hydrologic conditions that result in periods of inundation or saturation on the surface from flooding or ponding. Further description of these parameters is provided below:

1) Vegetation. Wetland vegetation includes those plants that possess physiological traits that allow them to grow and persist in soils subject to inundation and anaerobic soil conditions. Plant species are classified according to their probability of being associated with wetlands. Obligate (OBL) wetland plant species almost always occur in wetlands (more than 99 percent of the time), facultative wetland (FACW) plant species occur in wetlands most of the time (67 to 99 percent), and facultative (FAC) plant species have about an equal chance (33 to 66 percent) of occurring in wetlands as in uplands. For this study, vegetation was considered to meet the vegetation criteria if more than 50% of the vegetative cover was FAC or wetter. Data sheets were prepared for areas that showed a potential to support wetland vegetation (Appendix D). Except for the seasonal wetland in the northeastern portion of the property, no wetland plant species were identified within the project area.

2) Hydric Soils. Hydric soils are saturated, flooded, or ponded in the upper stratum long enough during the growing season to develop anaerobic conditions and favor the growth of wetland plants. Hydric soils include gleyed soils (soils with gray colors), or usually display indicators such as low chroma values, redoximorphic features, iron, or manganese concretions, or a combination of these indicators. Low chroma values are generally defined as having a value of 2 or less using the Munsell Soil Notations (Munsell, 1994). For this study a soil was considered to meet the hydric soil criteria for color if it had a chroma value of one or a chroma of two with redoximorphic features, or if the soil exhibited iron or manganese concretions. Onsite soils were identified as a mixture of graded cut-and-fill material and Rincon clay loam. Rincon clay loam soils are not listed as "hydric soils"; however, where ponding of precipitation due to topological features (swales) occurs during a long enough time period in the growing season, hydric soil indicators may be found. Except for the seasonal wetland in the northeastern portion of the property, no hydric soils were identified within the project area.

3) Hydrology. Wetlands by definition are seasonally inundated or saturated at or near the surface. In order for an area to have wetland hydrology, it has to be inundated or saturated for

5% of the growing season (approximately 12 days) (USDA, 1967). Indicators include visual soil saturation, flooding, watermarks, drainage patterns, encrusted sediment and plant deposits, cryptogammic lichens, and algal mats. The seasonal wetland in the northeastern portion of the subject property is within a swale that allows seasonal precipitation to pond for at least 5% of the growing season. It is in this area that wetland plants and soils were identified.

## **Wetland Determination Results**

Using the methodologies described in the *1987 Wetland Delineation Manual*, Marcus H. Bole & Associates evaluated and delineated a 0.39-acre seasonal wetland in the northeastern portion of the subject property. The seasonal wetland swale does not support vernal pool obligate plants and the soils do not appear to have a perched water table (duripan/hardpan) normally associated with vernal pools. The wetland swale is in an area that is significantly lower in elevation from the majority of the subject property and would be difficult to develop. The swale does not lie within a discernable drainage way, it was most likely created as a borrow pit when the Contra Costa Canal was constructed. The swale collects seasonal precipitation from a small watershed to the south of the swale. There is no exit (culvert) for precipitation to continue a northerly flow under the Pittsburg-Antioch Highway so it sits in the depression until it is subject to either evaporation or percolation. This swale will not be impacted by the current development plan and will be protected by a 25-foot buffer. During construction, the swale will be fenced off and protected by silt fencing/straw wattles, and have installed signage identifying the area as sensitive habitat (No Admission). No entry will be allowed within the protected buffer zone or seasonal wetland swale. Until recently, this isolated swale would not have been considered United States Army Corps of Engineers jurisdictional in accordance with the U.S. Environmental Protection Agency's Navigable Waters Protection Rule (NWPR). However, on August 30, 2021, in the case of Pascua Yaqui Tribe v. U.S. Environmental Protection Agency, the U.S. District Court for the District of Arizona vacated and remanded the NWPR. In light of this order, the U.S. Environmental Protection Agency and the U.S. Army Corps of Engineers have halted implementation of the NWPR and, until further notice, are interpreting "waters of the United States" consistent with the pre-2015 regulatory regime. Therefore, the seasonal swale would now be considered an "other Water of the United States" and subject to federal jurisdiction in accordance with the Clean Water Act (consistent with the pre-2015 regulatory regime 40 CFR 230.3(s)). Any impact to the seasonal swale would be subject to mitigation measures in accordance the Corps guidance and mitigation measures outlined in the East Contra Costa HCP/NCCP. The current development plan as proposed will avoid all impacts to the seasonal swale and provide an appropriate buffer around the swale with approved construction (silt/straw wattles) fencing and signage.

## **6.0 CONCLUSIONS AND RECOMMENDATIONS**

According to the National Environmental Policy Act (NEPA) and the California Environmental Quality Act (CEQA) guidelines, a project is normally considered to have a significant impact on wildlife if it will interfere substantially with the movement of any resident or migratory fish or wildlife species; or substantially diminishes habitat quantity or quality for dependent wildlife and plant species. Impacts to special status species and their associated habitats are also considered

significant if the impact would reduce or adversely modify a habitat of recognized value to a sensitive wildlife species or to an individual of such species. Adherence to the East Contra Costa HCP/NCCP's directives, western burrowing owl preconstruction surveys, avoidance and minimization measures, and construction monitoring, project implementation will not result in significant impacts to the burrowing owl or migratory bird species, or any associated protected habitat. Any impact to the seasonal swale in the northeastern portion of the property would be subject to mitigation measures in accordance with USACE directives and mitigation measures outlined in the East Contra Costa HCP/NCCP. The current development plan as proposed will avoid all impacts to the seasonal swale and provide an appropriate buffer around the swale with approved construction (silt/straw wattles) fencing, biological monitoring and signage.

This concludes our Planning Survey Report (PSR) East Contra Costa County HCP/NCCP, NEPA/CEQA-level Biological Resources Evaluation and Wetland Determination for the 12.51-acre subject property located at 3478 Pittsburg-Antioch Highway, Pittsburg, California. If you have any questions concerning our findings or recommendations please feel free to contact me directly at: Marcus H. Bole & Associates, Attn: Marcus Bole, 104 Brock Drive, Wheatland, CA 95692, phone 530-633-0117, fax 530-633-0119, email: mbole@aol.com.

Respectfully Submitted:



Charlene J. Bole, M.S, Botanist  
Senior Wetland Botanist



Marcus H. Bole, M.S, Wildlife Biologist  
Senior Wildlife & Wetland Biologist

## **LIST OF ATTACHMENTS:**

### **APPENDIX A: MAPS AND PHOTO PLATES**

### **APPENDIX B: NATURAL DIVERSITY DATA BASE**

### **APPENDIX C: SOIL DATA**

### **APPENDIX D: WETLAND DATA SHEETS**

### **APPENDIX E: RESUMES OF SURVEYORS**

## **7.0 REFERENCES & LITERATURE REVIEWED**

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**ENCLOSURE A: SITE MAPS & PHOTOS**

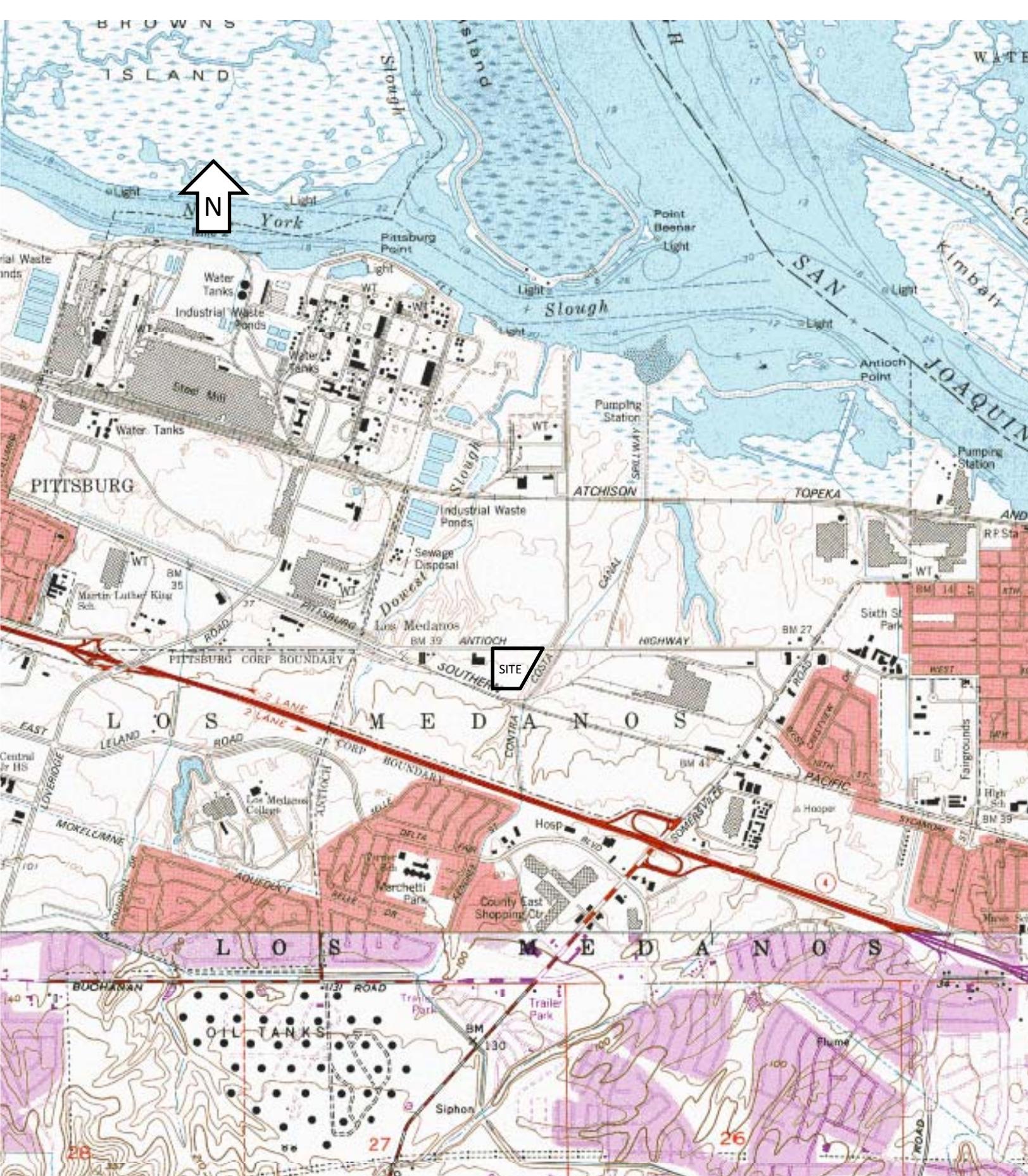
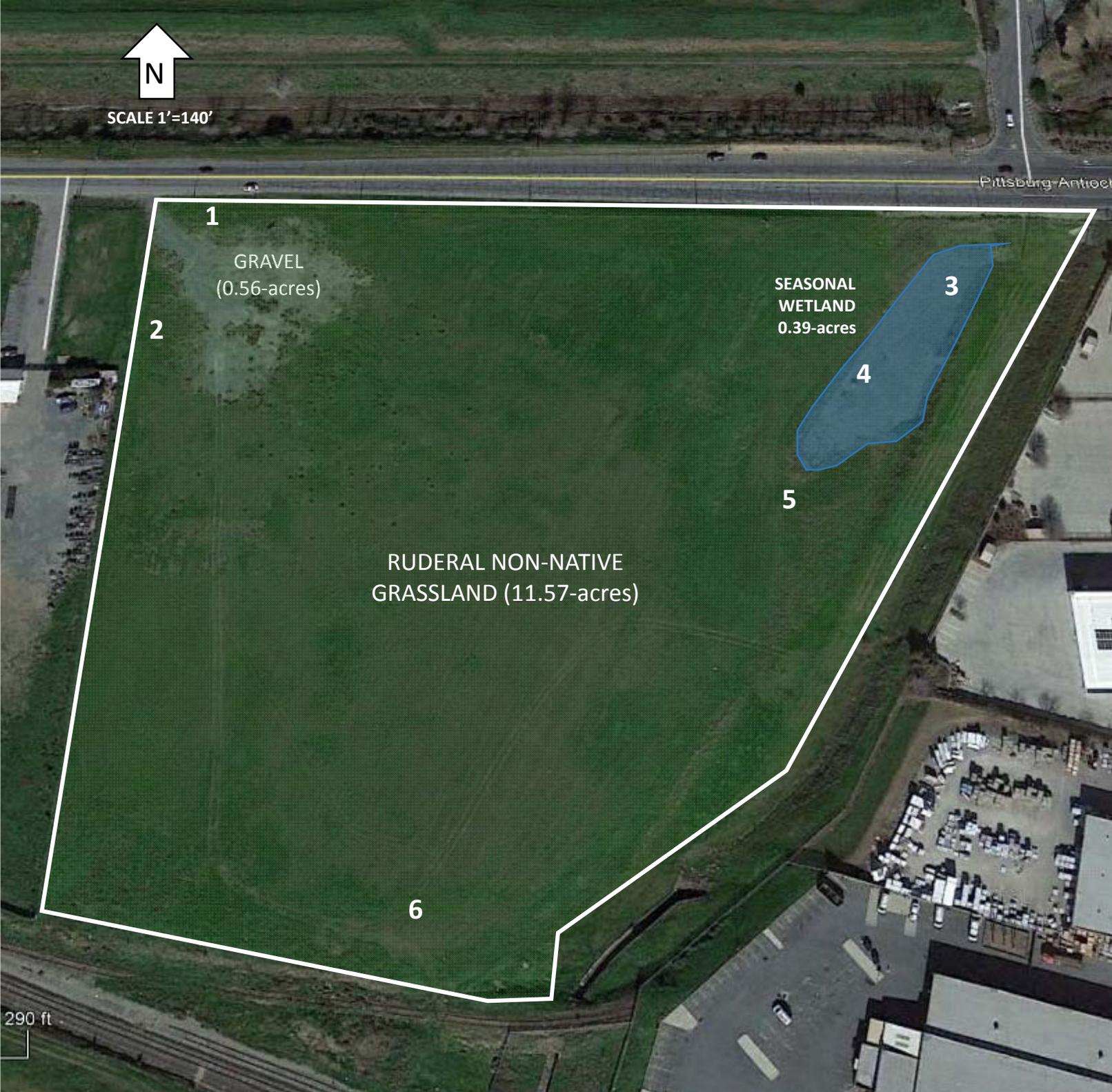


Figure 1: Vicinity Map, Solar RV/Boat and Mini-Storage Project Site, T 13 N, R 1 E, Los Medanos Land Grant, Antioch North 7.5' USGS. Contra Costa County APN 074-100-018 (12.51-acres) , 3478 Pittsburg-Antioch Highway, Pittsburg, California 94565. 38.011526 North, -121.845047 West.

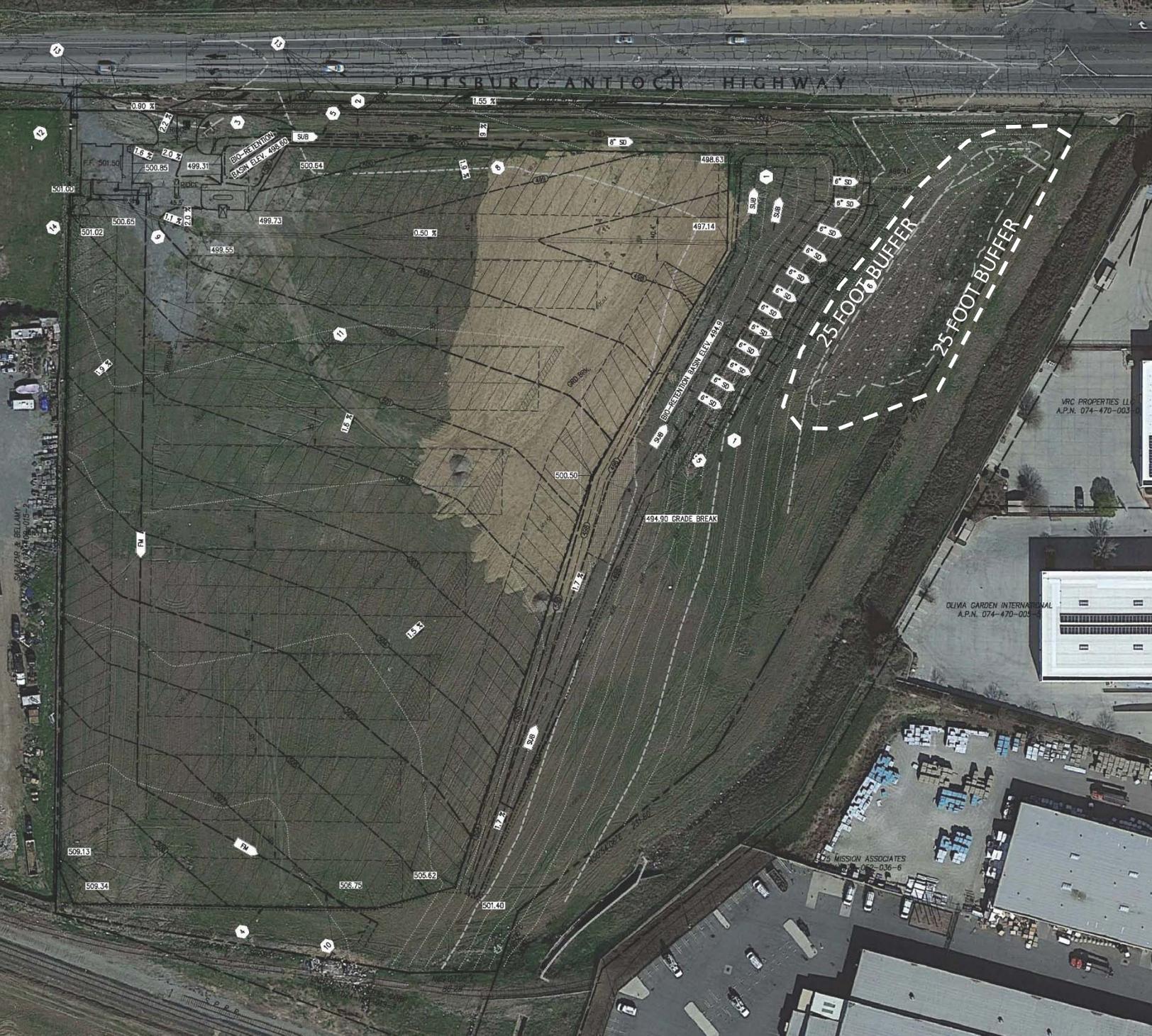


Aerial Photograph and Field-Verified Land Cover at the Solar RV/Boat and Mini-Storage Project Site 3478 Pittsburg-Antioch Highway, Pittsburg, California. APN 074-100-018, Survey Date: 10/8/2021.

Delineated by:  
 Marcus H. Bole, M.S., Senior Wetland Biologist  
 Charlene J. Bole, M.S., Senior Wetland Botanist  
 Marcus H. Bole & Associates  
 104 Brock Drive, Wheatland, CA. 95692  
 Email: [marcus@mhbole.com](mailto:marcus@mhbole.com)  
 (O) 530-633-0117  
 (M) 916-747-8501

LEGEND

- 1 - 6** Wetland Data Points
-  Seasonal Wetland 0.39-acres
-  Ruderal Non-Native Grassland 11.57-acres
-  Gravel 0.56-acres





**MARCUS H. BOLE & ASSOCIATES**  
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**SITE: Solar RV/Boat Mini Storage Project**  
**ITEM: Site Photos – Wetland Study Areas**  
**DATE: 9/24/2021** **PLATE: 1**



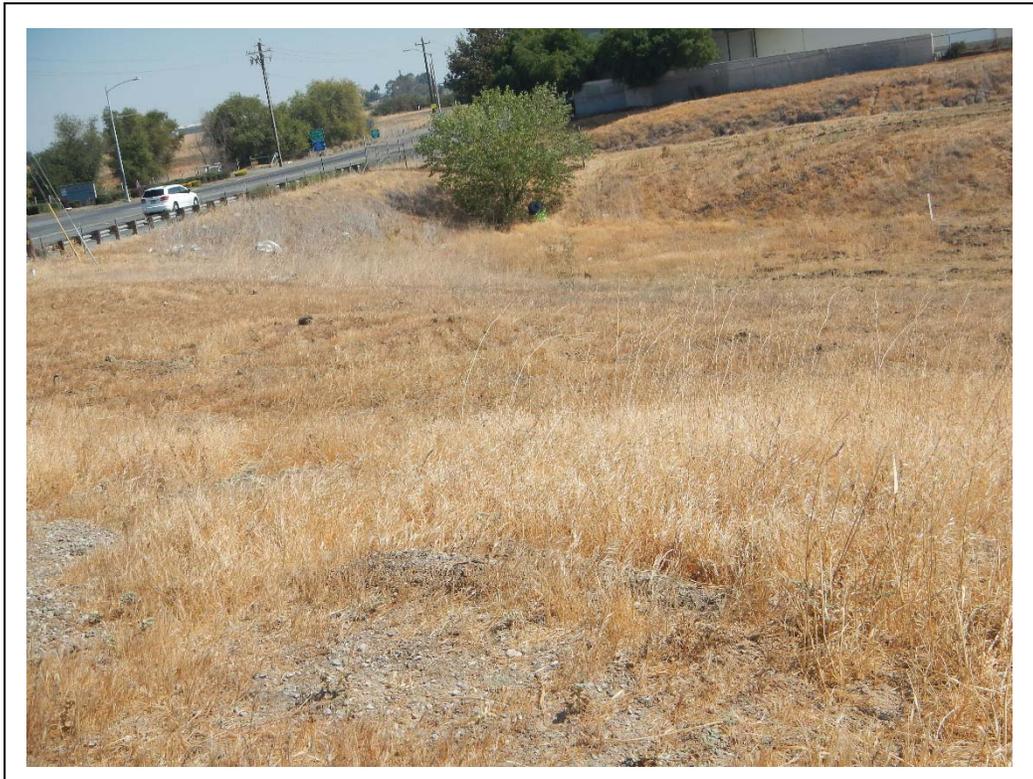
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(530) 633-0117, email: [mbole@aol.com](mailto:mbole@aol.com)

**SITE: Solar RV/Boat Mini Storage Project**  
**ITEM: Site Photos – Typical**  
**DATE: 9/24/2021** **PLATE: 2**



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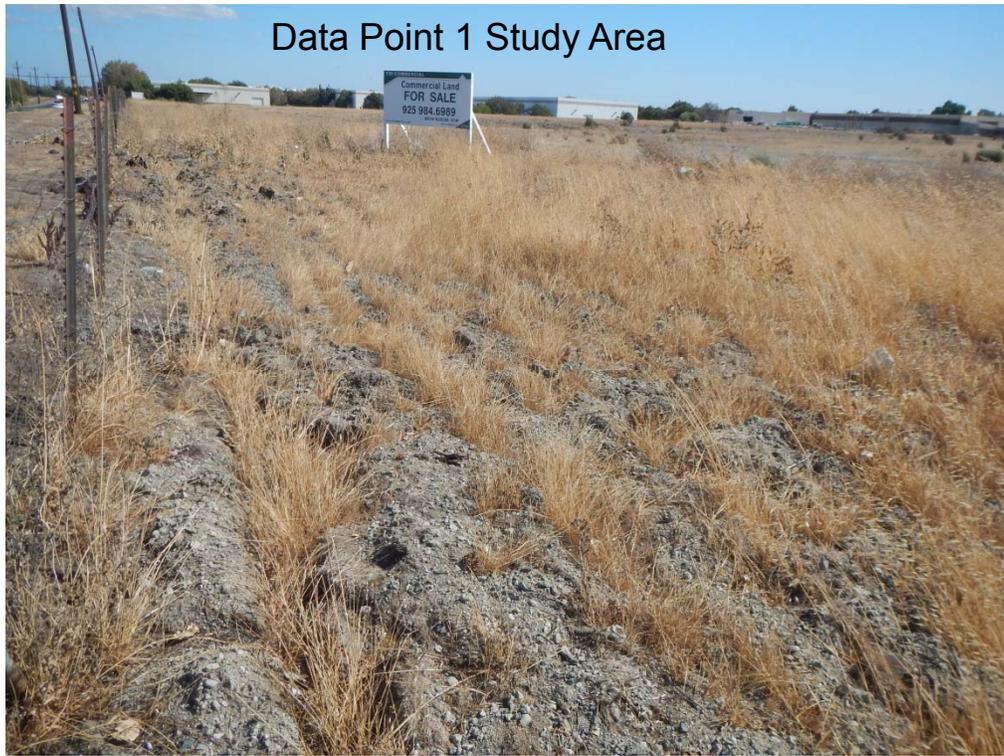
**SITE: Pittsburg Antioch Highway Project**  
**ITEM: Site Photos – Typical**  
**DATE: 9/24/2021** **PLATE:3**



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**SITE: Pittsburg Antioch Highway Project**  
**ITEM: Site Photos – Typical**  
**DATE: 9/24/2021** **PLATE:4**

Data Point 1 Study Area

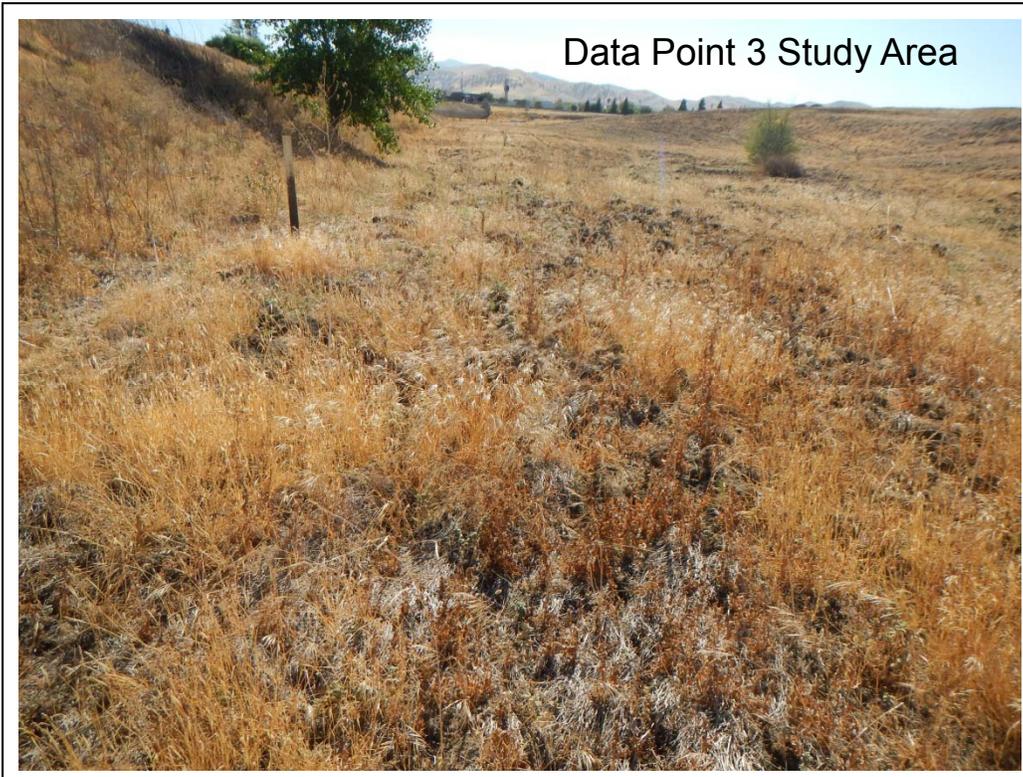


Data Point 1 Study Area Soil Photo - Typical



MARCUS H. BOLE & ASSOCIATES  
104 Brock Drive, Wheatland, CA 95692  
(530) 633-0117, email: mbole@aol.com

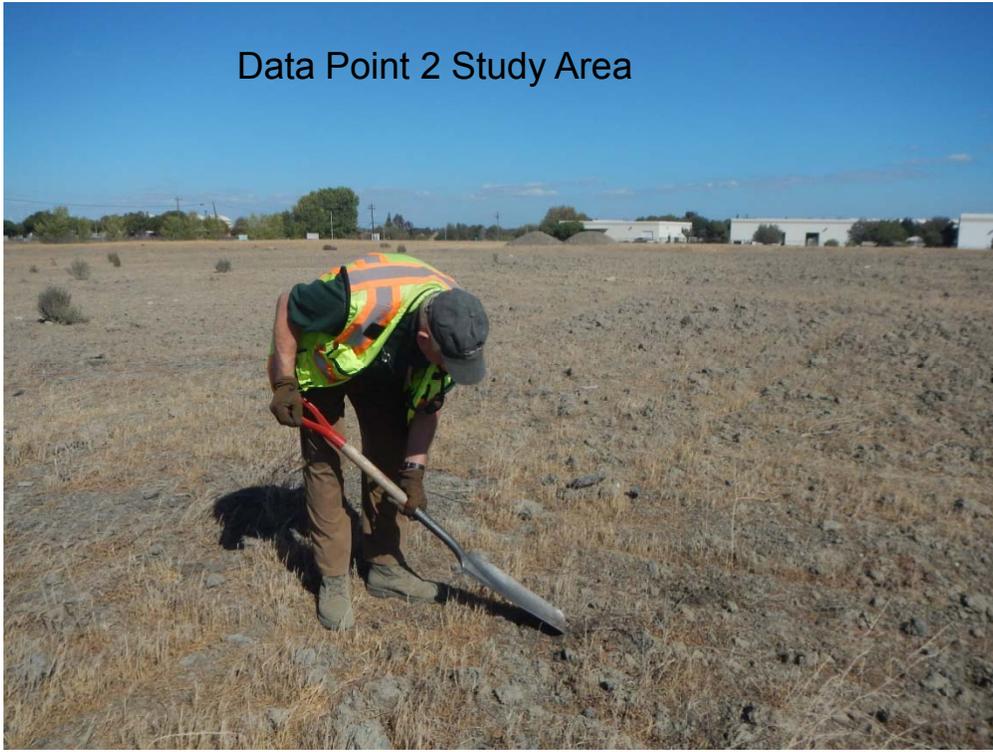
SITE: Solar RV/Boat Mini Storage Project  
ITEM: Site Photos – Data Point 1  
DATE: 9/24/2021 PLATE: 5



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**SITE: Solar RV/Boat Mini Storage Project**  
**ITEM: Site Photos – Data Point 3**  
**DATE: 9/24/2021** **PLATE: 6**

Data Point 2 Study Area

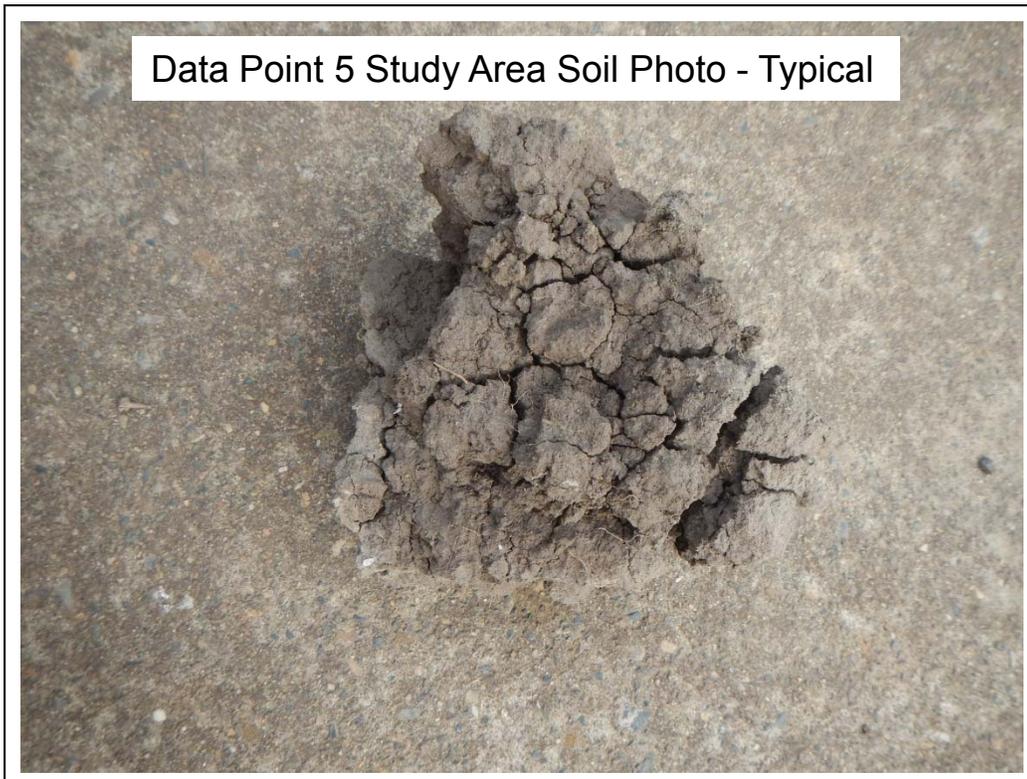
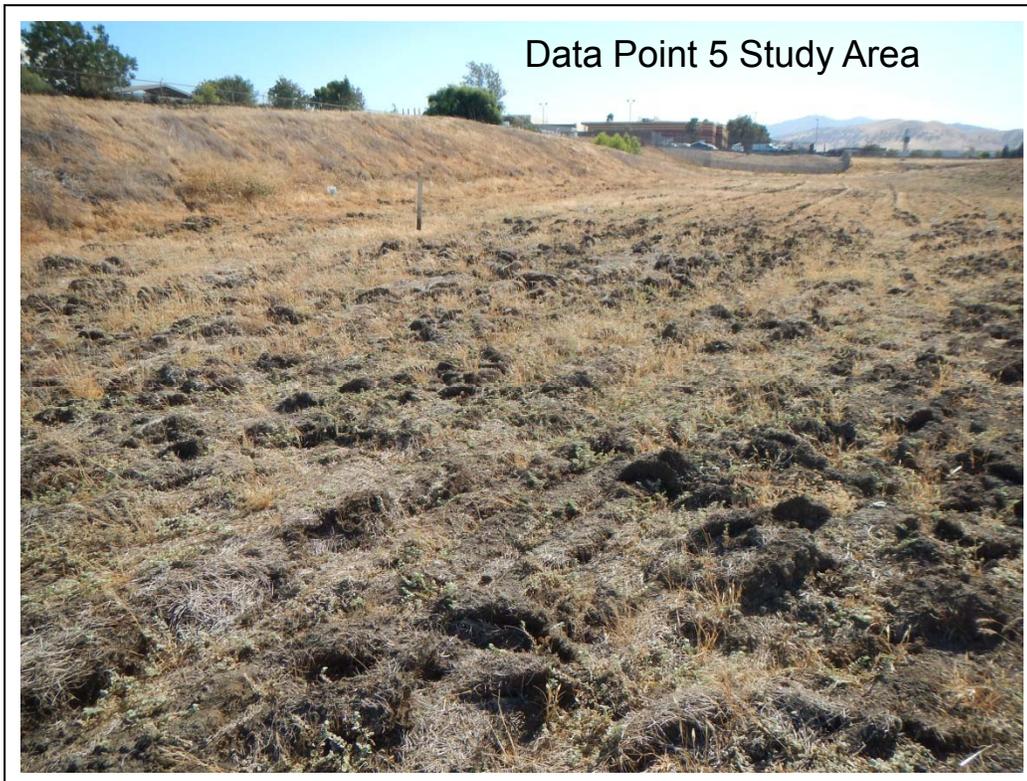


Data Point 2 Study Area Soil Photo - Typical



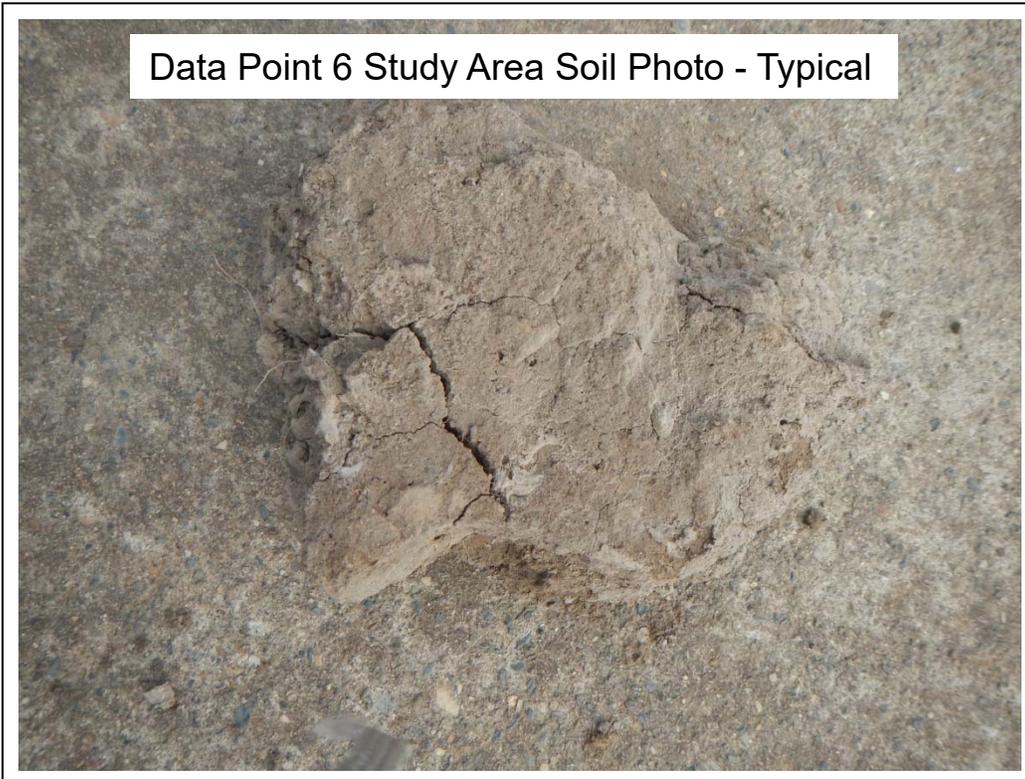
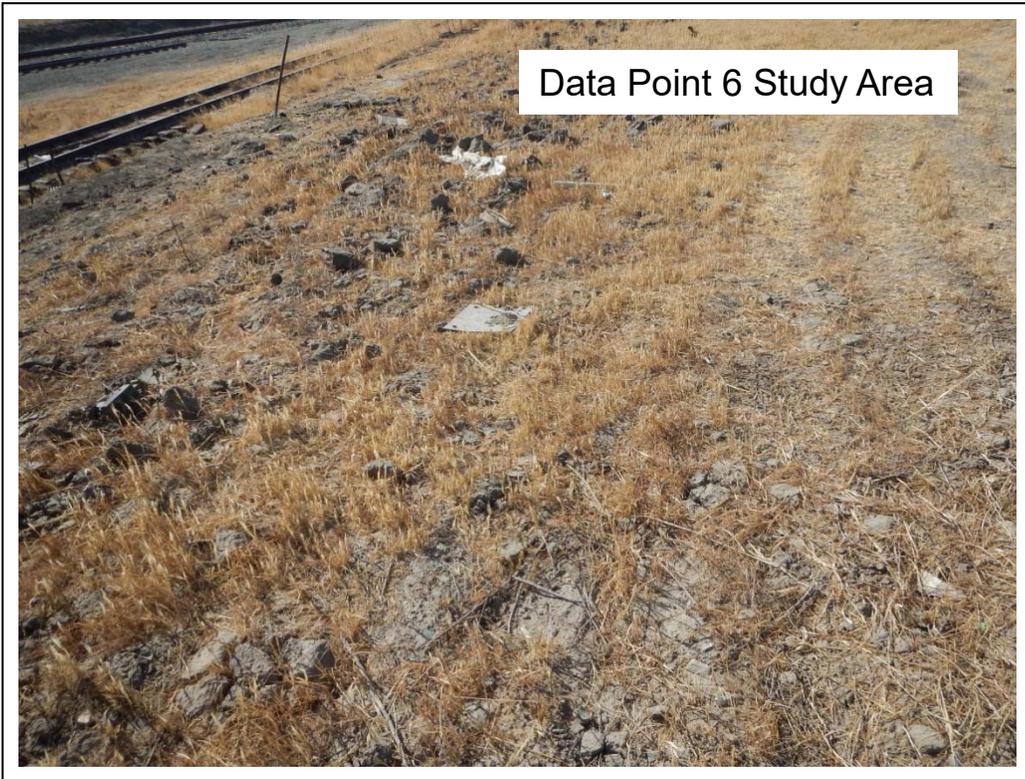
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SITE: Solar RV/Boat Mini Storage Project  
ITEM: Site Photos – Data Point 2  
DATE: 9/24/2021 PLATE: 7



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**SITE: Solar RV/Boat Mini Storage Project**  
**ITEM: Site Photos – Data Point 5**  
**DATE: 9/24/2021** **PLATE: 8**



**MARCUS H. BOLE & ASSOCIATES**  
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**SITE: Solar RV/Boat Mini Storage Project**  
**ITEM: Site Photos – Data Point 6**  
**DATE: 9/24/2021** **PLATE: 9**

## **ENCLOSURE B: CNDDDB & IPaC Databases**



## United States Department of the Interior



FISH AND WILDLIFE SERVICE  
Sacramento Fish And Wildlife Office  
Federal Building  
2800 Cottage Way, Room W-2605  
Sacramento, CA 95825-1846  
Phone: (916) 414-6600 Fax: (916) 414-6713

In Reply Refer To:  
Consultation Code: 08ESMF00-2022-SLI-0075  
Event Code: 08ESMF00-2022-E-00223  
Project Name: Solar RV/Boat and Mini-Storage Project

October 11, 2021

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

### To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, under the jurisdiction of the U.S. Fish and Wildlife Service (Service) that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the Service under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

Please follow the link below to see if your proposed project has the potential to affect other species or their habitats under the jurisdiction of the National Marine Fisheries Service:

[http://www.nwr.noaa.gov/protected\\_species/species\\_list/species\\_lists.html](http://www.nwr.noaa.gov/protected_species/species_list/species_lists.html)

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to

utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan ([http://www.fws.gov/windenergy/eagle\\_guidance.html](http://www.fws.gov/windenergy/eagle_guidance.html)). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at:

<http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>;

<http://www.towerkill.com>; and

[www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html](http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html).

<http://>

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
-

## Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

**Sacramento Fish And Wildlife Office**

Federal Building

2800 Cottage Way, Room W-2605

Sacramento, CA 95825-1846

(916) 414-6600

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## Project Summary

Consultation Code: 08ESMF00-2022-SLI-0075

Event Code: Some(08ESMF00-2022-E-00223)

Project Name: Solar RV/Boat and Mini-Storage Project

Project Type: DEVELOPMENT

Project Description: 12.51-acre Contra Costa County APN 074-100-018, 3478 Pittsburg-Antioch Highway, Pittsburg, CA

Project Location:

Approximate location of the project can be viewed in Google Maps: [https://](https://www.google.com/maps/@38.0110078,-121.84494506784802,14z)

[www.google.com/maps/@38.0110078,-121.84494506784802,14z](https://www.google.com/maps/@38.0110078,-121.84494506784802,14z)



Counties: Contra Costa County, California

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## Endangered Species Act Species

There is a total of 20 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

- 
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

### Mammals

NAME	STATUS
Salt Marsh Harvest Mouse <i>Reithrodontomys raviventris</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/613">https://ecos.fws.gov/ecp/species/613</a>	Endangered
San Joaquin Kit Fox <i>Vulpes macrotis mutica</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/2873">https://ecos.fws.gov/ecp/species/2873</a>	Endangered

### Birds

NAME	STATUS
California Clapper Rail <i>Rallus longirostris obsoletus</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/4240">https://ecos.fws.gov/ecp/species/4240</a>	Endangered
California Least Tern <i>Sterna antillarum browni</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/8104">https://ecos.fws.gov/ecp/species/8104</a>	Endangered

### Reptiles

NAME	STATUS
Giant Garter Snake <i>Thamnophis gigas</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/4482">https://ecos.fws.gov/ecp/species/4482</a>	Threatened

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## Amphibians

NAME	STATUS
California Red-legged Frog <i>Rana draytonii</i> There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available. Species profile: <a href="https://ecos.fws.gov/ecp/species/2891">https://ecos.fws.gov/ecp/species/2891</a>	Threatened
California Tiger Salamander <i>Ambystoma californiense</i> Population: U.S.A. (Central CA DPS) There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available. Species profile: <a href="https://ecos.fws.gov/ecp/species/2076">https://ecos.fws.gov/ecp/species/2076</a>	Threatened

## Fishes

NAME	STATUS
Delta Smelt <i>Hypomesus transpacificus</i> There is <b>final</b> critical habitat for this species. Your location overlaps the critical habitat. Species profile: <a href="https://ecos.fws.gov/ecp/species/321">https://ecos.fws.gov/ecp/species/321</a>	Threatened

## Insects

NAME	STATUS
Delta Green Ground Beetle <i>Elaphrus viridis</i> There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available. Species profile: <a href="https://ecos.fws.gov/ecp/species/2319">https://ecos.fws.gov/ecp/species/2319</a>	Threatened
Lange's Metalmark Butterfly <i>Apodemia mormo langei</i> There is <b>proposed</b> critical habitat for this species. The location of the critical habitat is not available. Species profile: <a href="https://ecos.fws.gov/ecp/species/4382">https://ecos.fws.gov/ecp/species/4382</a>	Endangered
Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: <a href="https://ecos.fws.gov/ecp/species/9743">https://ecos.fws.gov/ecp/species/9743</a>	Candidate
Valley Elderberry Longhorn Beetle <i>Desmocerus californicus dimorphus</i> There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available. Species profile: <a href="https://ecos.fws.gov/ecp/species/7850">https://ecos.fws.gov/ecp/species/7850</a>	Threatened

## Crustaceans

NAME	STATUS
Vernal Pool Fairy Shrimp <i>Branchinecta lynchi</i> There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available. Species profile: <a href="https://ecos.fws.gov/ecp/species/498">https://ecos.fws.gov/ecp/species/498</a>	Threatened
Vernal Pool Tadpole Shrimp <i>Lepidurus packardii</i> There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available. Species profile: <a href="https://ecos.fws.gov/ecp/species/2246">https://ecos.fws.gov/ecp/species/2246</a>	Endangered

## Flowering Plants

NAME	STATUS
Antioch Dunes Evening-primrose <i>Oenothera deltoides ssp. howellii</i> There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available. Species profile: <a href="https://ecos.fws.gov/ecp/species/5970">https://ecos.fws.gov/ecp/species/5970</a>	Endangered
Colusa Grass <i>Neostapfia colusana</i> There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available. Species profile: <a href="https://ecos.fws.gov/ecp/species/5690">https://ecos.fws.gov/ecp/species/5690</a>	Threatened
Contra Costa Goldfields <i>Lasthenia conjugens</i> There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available. Species profile: <a href="https://ecos.fws.gov/ecp/species/7058">https://ecos.fws.gov/ecp/species/7058</a>	Endangered
Contra Costa Wallflower <i>Erysimum capitatum var. angustatum</i> There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available. Species profile: <a href="https://ecos.fws.gov/ecp/species/7601">https://ecos.fws.gov/ecp/species/7601</a>	Endangered
Keck's Checker-mallow <i>Sidalcea keckii</i> There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available. Species profile: <a href="https://ecos.fws.gov/ecp/species/5704">https://ecos.fws.gov/ecp/species/5704</a>	Endangered
Soft Bird's-beak <i>Cordylanthus mollis ssp. mollis</i> There is <b>final</b> critical habitat for this species. The location of the critical habitat is not available. Species profile: <a href="https://ecos.fws.gov/ecp/species/8541">https://ecos.fws.gov/ecp/species/8541</a>	Endangered

## Critical habitats

There is 1 critical habitat wholly or partially within your project area under this office's jurisdiction.

NAME	STATUS
Delta Smelt <i>Hypomesus transpacificus</i> <a href="https://ecos.fws.gov/ecp/species/321#crithab">https://ecos.fws.gov/ecp/species/321#crithab</a>	Final



# Summary Table Report

## California Department of Fish and Wildlife

### California Natural Diversity Database



**Query Criteria:** Quad (Antioch North (3812117)) AND (Federal Listing Status IS (Endangered OR Threatened OR Proposed Endangered OR Proposed Threatened OR Candidate OR All CNDDDB element occurrences OR Delisted) OR State Listing Status IS (Endangered OR Threatened OR Rare OR All CNDDDB element occurrences OR Delisted) OR Candidate Endangered OR Candidate Threatened))

Name (Scientific/Common)	CNDDB Ranks	Listing Status (Fed/State)	Other Lists	Elev. Range (ft.)	Total EO's	Element Occ. Ranks						Population Status		Presence		
						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
<i>Ambystoma californiense</i> pop. 1 California tiger salamander - central California DPS	G2G3 S3	Threatened Threatened	CDFW_WL-Watch List IUCN_VU-Vulnerable	50 50	1261 S:1	0	0	0	0	1	0	1	0	0	0	1
<i>Anniella pulchra</i> Northern California legless lizard	G3 S3	None None	CDFW_SSC-Species of Special Concern USFS_S-Sensitive	13 22	378 S:2	0	0	2	0	0	0	1	1	2	0	0
<i>Anthicus antiochensis</i> Antioch Dunes anthicid beetle	G1 S1	None None		20 20	6 S:1	0	0	0	0	1	0	1	0	0	1	0
<i>Apodemia mormo langei</i> Lange's metalmark butterfly	G5T1 S1	Endangered None		10 10	1 S:1	0	0	0	0	0	1	0	1	1	0	0
<i>Archoplites interruptus</i> Sacramento perch	G2G3 S1	None None	AFS_TH-Threatened CDFW_SSC-Species of Special Concern	5 5	5 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Arizona elegans occidentalis</i> California glossy snake	G5T2 S2	None None	CDFW_SSC-Species of Special Concern	12 12	260 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Astragalus tener</i> var. <i>tener</i> alkali milk-vetch	G2T1 S1	None None	Rare Plant Rank - 1B.2	10 10	65 S:1	0	1	0	0	0	0	0	1	1	0	0
<i>Athene cunicularia</i> burrowing owl	G4 S3	None None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern	1 200	2011 S:6	0	4	1	0	1	0	4	2	5	1	0
<i>Blepharizonia plumosa</i> big tarplant	G1G2 S1S2	None None	Rare Plant Rank - 1B.1 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden		53 S:3	0	0	0	0	1	2	3	0	2	1	0
<i>Bombus crotchii</i> Crotch bumble bee	G3G4 S1S2	None None		50 50	437 S:1	0	0	0	0	0	1	1	0	1	0	0



# Summary Table Report

## California Department of Fish and Wildlife

### California Natural Diversity Database



Name (Scientific/Common)	CNDDB Ranks	Listing Status (Fed/State)	Other Lists	Elev. Range (ft.)	Total EO's	Element Occ. Ranks						Population Status		Presence		
						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
<i>Bombus occidentalis</i> western bumble bee	G2G3 S1	None None	USFS_S-Sensitive	25 25	306 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Branchinecta conservatio</i> Conservancy fairy shrimp	G2 S2	Endangered None	IUCN_EN-Endangered	10 10	53 S:1	0	0	0	0	0	1	0	1	1	0	0
<i>Branchinecta lynchi</i> vernal pool fairy shrimp	G3 S3	Threatened None	IUCN_VU-Vulnerable	1 15	795 S:2	0	0	0	1	0	1	1	1	2	0	0
<i>Buteo swainsoni</i> Swainson's hawk	G5 S3	None Threatened	BLM_S-Sensitive IUCN_LC-Least Concern USFWS_BCC-Birds of Conservation Concern	10 10	2541 S:1	0	0	0	0	0	1	0	1	1	0	0
<i>Chloropyron molle ssp. molle</i> soft salty bird's-beak	G2T1 S1	Endangered Rare	Rare Plant Rank - 1B.2	10 10	27 S:1	0	0	0	0	1	0	1	0	0	1	0
<i>Cicuta maculata var. bolanderi</i> Bolander's water-hemlock	G5T4T5 S2?	None None	Rare Plant Rank - 2B.1	1 1	17 S:2	0	0	0	0	0	2	2	0	2	0	0
<i>Coastal Brackish Marsh</i> Coastal Brackish Marsh	G2 S2.1	None None			30 S:2	0	0	0	0	0	2	2	0	2	0	0
<i>Coelus gracilis</i> San Joaquin dune beetle	G1 S1	None None	BLM_S-Sensitive IUCN_VU-Vulnerable	10 10	11 S:1	0	0	0	0	1	0	1	0	0	0	1
<i>Cryptantha hooveri</i> Hoover's cryptantha	GH SH	None None	Rare Plant Rank - 1A		4 S:1	0	0	0	0	1	0	1	0	0	1	0
<i>Downingia pusilla</i> dwarf downingia	GU S2	None None	Rare Plant Rank - 2B.2	20 30	132 S:2	0	2	0	0	0	0	1	1	2	0	0
<i>Efferia antiochi</i> Antioch efferian robberfly	G1G2 S1S2	None None		20 20	4 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Elanus leucurus</i> white-tailed kite	G5 S3S4	None None	BLM_S-Sensitive CDFW_FP-Fully Protected IUCN_LC-Least Concern	25 25	180 S:1	0	1	0	0	0	0	1	0	1	0	0
<i>Emys marmorata</i> western pond turtle	G3G4 S3	None None	BLM_S-Sensitive CDFW_SSC-Species of Special Concern IUCN_VU-Vulnerable USFS_S-Sensitive	0 18	1398 S:3	0	2	1	0	0	0	2	1	3	0	0



# Summary Table Report

## California Department of Fish and Wildlife

### California Natural Diversity Database



Name (Scientific/Common)	CNDDDB Ranks	Listing Status (Fed/State)	Other Lists	Elev. Range (ft.)	Total EO's	Element Occ. Ranks						Population Status		Presence		
						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
<i>Eriogonum nudum var. psychicola</i> Antioch Dunes buckwheat	G5T1 S1	None None	Rare Plant Rank - 1B.1	17 17	1 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Eriogonum truncatum</i> Mt. Diablo buckwheat	G1 S1	None None	Rare Plant Rank - 1B.1 SB_UCBG-UC Botanical Garden at Berkeley		7 S:1	0	0	0	0	1	0	1	0	0	1	0
<i>Erysimum capitatum var. angustatum</i> Contra Costa wallflower	G5T1 S1	Endangered Endangered	Rare Plant Rank - 1B.1 SB_CalBG/RSABG- California/Rancho Santa Ana Botanic Garden	10 20	4 S:4	0	0	3	0	0	1	4	0	4	0	0
<i>Eschscholzia rhombipetala</i> diamond-petaled California poppy	G1 S1	None None	Rare Plant Rank - 1B.1 SB_CalBG/RSABG- California/Rancho Santa Ana Botanic Garden SB_UCBG-UC Botanical Garden at Berkeley		12 S:1	0	0	0	0	1	0	1	0	0	1	0
<i>Eucerceris ruficeps</i> redheaded sphecid wasp	G1G3 S1S2	None None		30 30	4 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Extriplex joaquinana</i> San Joaquin spearscale	G2 S2	None None	Rare Plant Rank - 1B.2 BLM_S-Sensitive SB_CalBG/RSABG- California/Rancho Santa Ana Botanic Garden	5 5	127 S:1	0	0	1	0	0	0	1	0	1	0	0
<i>Fritillaria liliacea</i> fragrant fritillary	G2 S2	None None	Rare Plant Rank - 1B.2 SB_CalBG/RSABG- California/Rancho Santa Ana Botanic Garden USFS_S-Sensitive	25 25	82 S:1	0	1	0	0	0	0	1	0	1	0	0
<i>Geothlypis trichas sinuosa</i> saltmarsh common yellowthroat	G5T3 S3	None None	CDFW_SSC-Species of Special Concern USFWS_BCC-Birds of Conservation Concern	5 7	112 S:4	0	4	0	0	0	0	0	4	4	0	0
<i>Gonidea angulata</i> western ridged mussel	G3 S1S2	None None		30 30	157 S:1	0	0	0	0	1	0	1	0	0	1	0
<i>Hypomesus transpacificus</i> Delta smelt	G1 S1	Threatened Endangered	AFS_TH-Threatened IUCN_EN-Endangered	0 0	29 S:2	0	1	0	1	0	0	0	2	2	0	0



# Summary Table Report

## California Department of Fish and Wildlife

### California Natural Diversity Database



Name (Scientific/Common)	CNDDB Ranks	Listing Status (Fed/State)	Other Lists	Elev. Range (ft.)	Total EO's	Element Occ. Ranks						Population Status		Presence		
						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
<i>Idiostatus middlekauffi</i> Middlekauff's shieldback katydid	G1G2 S1	None None	IUCN_CR-Critically Endangered	20 20	1 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Lasiurus blossevillii</i> western red bat	G4 S3	None None	CDFW_SSC-Species of Special Concern IUCN_LC-Least Concern WBWG_H-High Priority	15 15	128 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Lasthenia conjugens</i> Contra Costa goldfields	G1 S1	Endangered None	Rare Plant Rank - 1B.1 SB_UCBG-UC Botanical Garden at Berkeley	50 50	36 S:1	0	0	0	0	1	0	1	0	0	0	1
<i>Laterallus jamaicensis coturniculus</i> California black rail	G3G4T1 S1	None Threatened	BLM_S-Sensitive CDFW_FP-Fully Protected IUCN_NT-Near Threatened NABCI_RWL-Red Watch List USFWS_BCC-Birds of Conservation Concern	5 7	303 S:5	1	1	0	0	0	3	0	5	5	0	0
<i>Lathyrus jepsonii var. jepsonii</i> Delta tule pea	G5T2 S2	None None	Rare Plant Rank - 1B.2 SB_BerrySB-Berry Seed Bank SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden	0 10	133 S:15	0	3	3	0	0	9	8	7	15	0	0
<i>Lepidurus packardii</i> vernal pool tadpole shrimp	G4 S3S4	Endangered None	IUCN_EN-Endangered	0 0	329 S:1	1	0	0	0	0	0	0	1	1	0	0
<i>Lilaeopsis masonii</i> Mason's lilaeopsis	G2 S2	None Rare	Rare Plant Rank - 1B.1	-10 10	198 S:21	3	4	4	0	0	10	10	11	21	0	0
<i>Limosella australis</i> Delta mudwort	G4G5 S2	None None	Rare Plant Rank - 2B.1	0 5	59 S:7	2	2	1	1	0	1	6	1	7	0	0
<i>Linderiella occidentalis</i> California linderiella	G2G3 S2S3	None None	IUCN_NT-Near Threatened	1 1	508 S:1	0	0	0	1	0	0	1	0	1	0	0
<i>Melospiza melodia</i> song sparrow ("Modesto" population)	G5 S3?	None None	CDFW_SSC-Species of Special Concern	30 30	92 S:1	0	0	0	0	0	1	1	0	1	0	0



# Summary Table Report

## California Department of Fish and Wildlife

### California Natural Diversity Database



Name (Scientific/Common)	CNDDB Ranks	Listing Status (Fed/State)	Other Lists	Elev. Range (ft.)	Total EO's	Element Occ. Ranks						Population Status		Presence		
						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
<i>Melospiza melodia maxillaris</i> Suisun song sparrow	G5T3 S3	None None	CDFW_SSC-Species of Special Concern USFWS_BCC-Birds of Conservation Concern	5 18	36 S:6	0	4	0	0	0	2	2	4	6	0	0
<i>Metapogon hurdi</i> Hurd's metapogon robberfly	G1G2 S1S2	None None		15 15	3 S:1	0	0	0	0	1	0	1	0	0	1	0
<i>Myrmosula pacifica</i> Antioch multilid wasp	GH SH	None None		20 20	3 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Oenothera deltoides ssp. howellii</i> Antioch Dunes evening-primrose	G5T1 S1	Endangered Endangered	Rare Plant Rank - 1B.1 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden SB_UCBG-UC Botanical Garden at Berkeley	5 50	10 S:6	0	0	2	1	1	2	4	2	5	1	0
<i>Oncorhynchus mykiss irideus pop. 11</i> steelhead - Central Valley DPS	G5T2Q S2	Threatened None	AFS_TH-Threatened		31 S:1	0	0	0	0	0	1	0	1	1	0	0
<i>Perdita scitula antiochensis</i> Antioch andrenid bee	G1T1 S1	None None		20 20	2 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Phalacrocorax auritus</i> double-crested cormorant	G5 S4	None None	CDFW_WL-Watch List IUCN_LC-Least Concern	-10 -10	39 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Philanthus nasalis</i> Antioch specid wasp	G1 S1	None None		20 20	4 S:1	0	0	0	0	1	0	1	0	0	0	1
<i>Plagiobothrys hystriculus</i> bearded popcornflower	G2 S2	None None	Rare Plant Rank - 1B.1		15 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Reithrodontomys raviventris</i> salt-marsh harvest mouse	G1G2 S1S2	Endangered Endangered	CDFW_FP-Fully Protected IUCN_EN-Endangered	0 5	144 S:7	0	3	2	0	0	2	1	6	7	0	0
<i>Sidalcea keckii</i> Keck's checkerbloom	G2 S2	Endangered None	Rare Plant Rank - 1B.1 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden		50 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Sphecodogastra antiochensis</i> Antioch Dunes halcetid bee	G1 S1	None None		25 25	1 S:1	0	0	0	0	0	1	1	0	1	0	0



## Summary Table Report

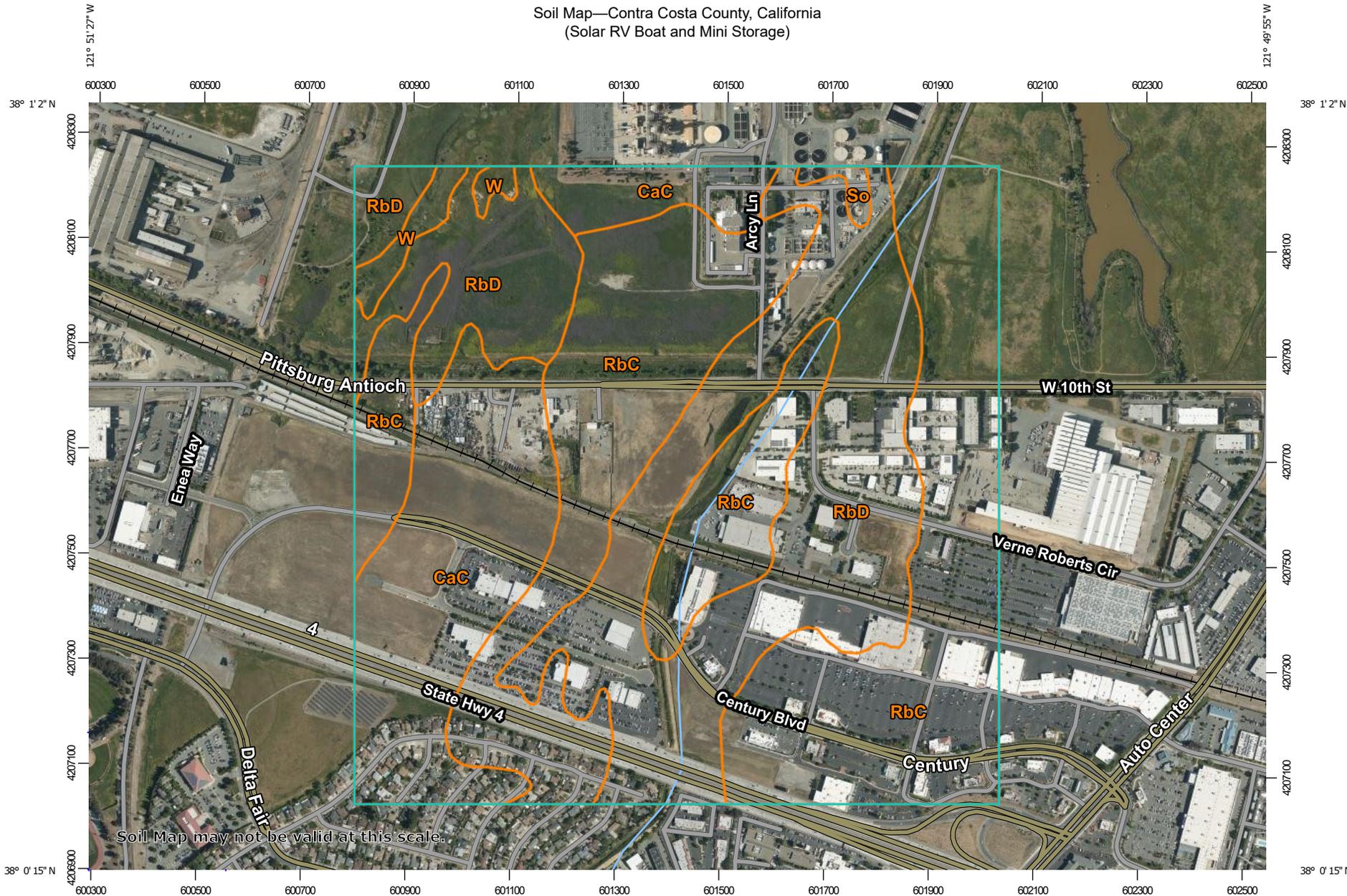
### California Department of Fish and Wildlife California Natural Diversity Database



Name (Scientific/Common)	CNDDB Ranks	Listing Status (Fed/State)	Other Lists	Elev. Range (ft.)	Total EO's	Element Occ. Ranks						Population Status		Presence		
						A	B	C	D	X	U	Historic > 20 yr	Recent <= 20 yr	Extant	Poss. Extirp.	Extirp.
<i>Spirinchus thaleichthys</i> longfin smelt	G5 S1	Candidate Threatened		0 0	46 S:3	0	0	0	0	0	3	0	3	3	0	0
<i>Stabilized Interior Dunes</i> Stabilized Interior Dunes	G1 S1.1	None None		20 20	2 S:1	0	0	0	0	0	1	1	0	1	0	0
<i>Symphotrichum lentum</i> Suisun Marsh aster	G2 S2	None None	Rare Plant Rank - 1B.2 SB_CalBG/RSABG-California/Rancho Santa Ana Botanic Garden SB_USDA-US Dept of Agriculture	0 10	175 S:24	3	3	8	0	0	10	13	11	24	0	0
<i>Thamnophis gigas</i> giant gartersnake	G2 S2	Threatened Threatened	IUCN_VU-Vulnerable	0 25	366 S:3	2	0	0	0	0	1	1	2	3	0	0

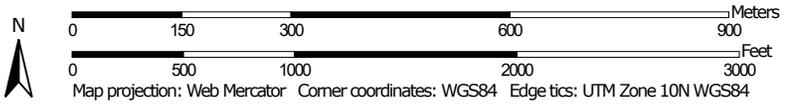
## ENCLOSURE C: Soil Data

Soil Map—Contra Costa County, California  
(Solar RV Boat and Mini Storage)



Soil Map may not be valid at this scale.

Map Scale: 1:10,300 if printed on A landscape (11" x 8.5") sheet.



## MAP LEGEND

### Area of Interest (AOI)

 Area of Interest (AOI)

### Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

### Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

### Water Features



Streams and Canals

### Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

### Background



Aerial Photography

## MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Contra Costa County, California

Survey Area Data: Version 18, Sep 9, 2021

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Apr 23, 2019—Apr 29, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
CaC	Capay clay, 1 to 15 percent slopes, MLRA 17	66.5	17.9%
RbC	Rincon clay loam, 2 to 9 percent slopes, MLRA 14	173.5	46.8%
RbD	Rincon clay loam, 9 to 15 percent slopes, MLRA 14	123.7	33.4%
So	Sycamore silty clay loam, 0 to 2 percent slopes, MLRA 17	1.7	0.5%
W	Water	5.3	1.4%
<b>Totals for Area of Interest</b>		<b>370.7</b>	<b>100.0%</b>

## ENCLOSURE D: Wetland Data Sheets

**WETLAND DETERMINATION DATA FORM – Arid West Region**

Project/Site: Solar RV/Boat and Mini-Storage City/County: Pittsburg/Contra Costa Sampling Date: Oct 8, 2021

Applicant/Owner: Chris Koenig/Pacific Property Advisors, Inc. State: California Sampling Point: 1

Investigator(s): M. Bole, C. Bole Section, Township, Range: T 13 N, R 1 E, Los Medanos Land Grant

Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): none Slope (%): 1-2%

Subregion (LRR): LRR – C Lat: 38.01237N Long: -121.84594W Datum: NAD 83

Soil Map Unit Name: Rincon clay loam NWI classification: non-hydric

Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)

Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No

Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks:	

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: _____)	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>	<b>Dominance Test worksheet:</b>
1. <u>None</u>				Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)
2. _____				Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
4. _____				
_____ = Total Cover				
<u>Sapling/Shrub Stratum</u> (Plot size: _____)				<b>Prevalence Index worksheet:</b>
1. <u>None</u>				<u>        </u> Total % Cover of: <u>        </u> Multiply by: <u>        </u>
2. _____				OBL species <u>        </u> x 1 = <u>        </u>
3. _____				FACW species <u>        </u> x 2 = <u>        </u>
4. _____				FAC species <u>        </u> x 3 = <u>        </u>
5. _____				FACU species <u>        </u> x 4 = <u>        </u>
_____ = Total Cover				UPL species <u>        </u> x 5 = <u>        </u>
				Column Totals: <u>        </u> (A) <u>        </u> (B)
				Prevalence Index = B/A = <u>        </u>
<u>Herb Stratum</u> (Plot size: <u>10' x 10'</u> )				<b>Hydrophytic Vegetation Indicators:</b>
1. <u>Avena barbata</u>	<u>50</u>	<u>Y</u>	<u>NI</u>	<input type="checkbox"/> Dominance Test is >50%
2. <u>Bromus hordeaceus</u>	<u>20</u>	<u>Y</u>	<u>FACU</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup>
3. <u>Bromus madritensis</u>	<u>10</u>	<u>N</u>	<u>UPL</u>	<input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4. <u>Rumex crispus</u>	<u>5</u>	<u>N</u>	<u>FAC</u>	<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. <u>Lepidium latifolium</u>	<u>5</u>	<u>N</u>	<u>FAC</u>	
6. _____				
7. _____				
8. _____				
<u>90</u> = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: _____)				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>None</u>				<b>Hydrophytic Vegetation Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
2. _____				
_____ = Total Cover				
% Bare Ground in Herb Stratum <u>10</u>		% Cover of Biotic Crust _____		
Remarks:				

**SOIL**

Sampling Point: 1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0 – 6	10YR 3/2	100	NONE				firm, sticky	very dark grayish brown
6 – 12	10YR 4/2	100	NONE				firm, blocky	dark grayish brown

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	<b>NONE</b>
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<b>Restrictive Layer (if present):</b> Type: <u>NONE</u> Depth (inches): _____	Hydric Soil Present? Yes _____ No <u>X</u>
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Remarks:  
 Soil is angular blocky, very hard, firm. Samples were moistened prior to soil color determination.

**HYDROLOGY**

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> FAC-Neutral Test (D5)

<b>Field Observations:</b> Surface Water Present? Yes _____ No <u>X</u> Depth (inches): _____ Water Table Present? Yes _____ No <u>X</u> Depth (inches): _____ Saturation Present? (includes capillary fringe) Yes _____ No <u>X</u> Depth (inches): _____	Wetland Hydrology Present? Yes _____ No <u>X</u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:  
 Sample taken near Pittsburg-Antioch Highway. No discernable roadside ditch. Seasonal precipitation sheet flows off road and follows contours along fence line.

**WETLAND DETERMINATION DATA FORM – Arid West Region**

Project/Site: Solar RV/Boat and Mini-Storage City/County: Pittsburg/Contra Costa Sampling Date: Oct 8, 2021  
 Applicant/Owner: Chris Koenig/Pacific Property Advisors, Inc. State: California Sampling Point: 2  
 Investigator(s): M. Bole, C. Bole Section, Township, Range: T 13 N, R 1 E, Los Medanos Land Grant  
 Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): none Slope (%): 1-2%  
 Subregion (LRR): LRR – C Lat: 38.01211N Long: -121.84617W Datum: NAD 83  
 Soil Map Unit Name: Rincon clay loam NWI classification: non-hydric

Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks:	

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: _____)	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>	<b>Dominance Test worksheet:</b>
1. <u>None</u>				Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)
2. _____				Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
4. _____				
_____ = Total Cover				
<u>Sapling/Shrub Stratum</u> (Plot size: _____)				<b>Prevalence Index worksheet:</b>
1. <u>None</u>				<u>        </u> Total % Cover of: <u>        </u> Multiply by: <u>        </u>
2. _____				OBL species <u>        </u> x 1 = <u>        </u>
3. _____				FACW species <u>        </u> x 2 = <u>        </u>
4. _____				FAC species <u>        </u> x 3 = <u>        </u>
5. _____				FACU species <u>        </u> x 4 = <u>        </u>
_____ = Total Cover				UPL species <u>        </u> x 5 = <u>        </u>
				Column Totals: <u>        </u> (A) <u>        </u> (B)
				Prevalence Index = B/A = <u>        </u>
<u>Herb Stratum</u> (Plot size: <u>10' x 10'</u> )				<b>Hydrophytic Vegetation Indicators:</b>
1. <u>Avena barbata</u>	<u>40</u>	<u>Y</u>	<u>NI</u>	<input type="checkbox"/> Dominance Test is >50%
2. <u>Bromus hordeaceus</u>	<u>20</u>	<u>Y</u>	<u>FACU</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup>
3. <u>Bromus madritensis</u>	<u>5</u>	<u>N</u>	<u>UPL</u>	<input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4. <u>Centaurea solstitialis</u>	<u>5</u>	<u>N</u>	<u>NI</u>	<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. _____				
6. _____				
7. _____				
8. _____				
<u>70</u> = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: _____)				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>None</u>				
2. _____				
_____ = Total Cover				
% Bare Ground in Herb Stratum <u>30</u> % Cover of Biotic Crust <u>        </u>		<b>Hydrophytic Vegetation Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Remarks:				

**SOIL**

Sampling Point: 2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth (inches)	Matrix		Redox Features			Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>		
0 – 6	10YR 4/2	100	NONE			firm, blocky	dark grayish brown
6 – 12	10YR 3/2	100	NONE			blocky	very dark grayish brown

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)	Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) (LRR C) <input type="checkbox"/> 1 cm Muck (A9) (LRR D) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> Sandy Gleyed Matrix (S4)	<input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8) <input type="checkbox"/> Vernal Pools (F9)
	<input type="checkbox"/> 1 cm Muck (A9) (LRR C) <input type="checkbox"/> 2 cm Muck (A10) (LRR B) <input type="checkbox"/> Reduced Vertic (F18) <input type="checkbox"/> Red Parent Material (TF2) <input type="checkbox"/> Other (Explain in Remarks)

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**  
 Type: NONE  
 Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No X

Remarks:  
 Soil is angular blocky. Samples were moistened prior to soil color determination.

**HYDROLOGY**

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)	
<input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) (Nonriverine) <input type="checkbox"/> Sediment Deposits (B2) (Nonriverine) <input type="checkbox"/> Drift Deposits (B3) (Nonriverine) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Salt Crust (B11) <input type="checkbox"/> Biotic Crust (B12) <input type="checkbox"/> Aquatic Invertebrates (B13) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> Water Marks (B1) (Riverine) <input type="checkbox"/> Sediment Deposits (B2) (Riverine) <input type="checkbox"/> Drift Deposits (B3) (Riverine) <input checked="" type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Shallow Aquitard (D3) <input type="checkbox"/> FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_

Water Table Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_

Saturation Present? (includes capillary fringe) Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_

Wetland Hydrology Present? Yes \_\_\_\_\_ No X

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

Remarks:  
 Sample taken in disturbed upland habitat. Evidence of cut & fill materials, some asphalt.  
 Sample taken approximately 125 feet south of Pittsburg-Antioch Highway.

**WETLAND DETERMINATION DATA FORM – Arid West Region**

Project/Site: Solar RV/Boat and Mini-Storage City/County: Pittsburg/Contra Costa Sampling Date: Oct 8, 2021

Applicant/Owner: Chris Koenig/Pacific Property Advisors, Inc. State: California Sampling Point: 3

Investigator(s): M. Bole, C. Bole Section, Township, Range: T 13 N, R 1 E, Los Medanos Land Grant

Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): none Slope (%): 1-2%

Subregion (LRR): LRR – C Lat: 38.01216N Long: -121.84330W Datum: NAD 83

Soil Map Unit Name: Rincon clay loam NWI classification: non-hydric

Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)

Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No

Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks:	

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: _____)	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>	<b>Dominance Test worksheet:</b>
1. <u>None</u>				Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A)
2. _____				Total Number of Dominant Species Across All Strata: <u>5</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>80</u> (A/B)
4. _____				
_____ = Total Cover				
<u>Sapling/Shrub Stratum</u> (Plot size: _____)				<b>Prevalence Index worksheet:</b>
1. <u>None</u>				<u>        </u> Total % Cover of: <u>        </u> Multiply by: <u>        </u>
2. _____				OBL species <u>        </u> x 1 = <u>        </u>
3. _____				FACW species <u>        </u> x 2 = <u>        </u>
4. _____				FAC species <u>        </u> x 3 = <u>        </u>
5. _____				FACU species <u>        </u> x 4 = <u>        </u>
_____ = Total Cover				UPL species <u>        </u> x 5 = <u>        </u>
				Column Totals: <u>        </u> (A) <u>        </u> (B)
				Prevalence Index = B/A = <u>        </u>
<u>Herb Stratum</u> (Plot size: <u>10' x 10'</u> )				<b>Hydrophytic Vegetation Indicators:</b>
1. <u>Polypogon monspeliensis</u>	<u>20</u>	<u>Y</u>	<u>FACW</u>	<input type="checkbox"/> Dominance Test is >50%
2. <u>Lepidium latifolium</u>	<u>20</u>	<u>Y</u>	<u>FAC</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup>
3. <u>Rumex crispus</u>	<u>20</u>	<u>Y</u>	<u>FAC</u>	<input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4. <u>Phalaris paradoxa</u>	<u>15</u>	<u>Y</u>	<u>FAC</u>	<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. <u>Avena barbata</u>	<u>10</u>	<u>Y</u>	<u>NI</u>	
6. _____				
7. _____				
8. _____				
<u>85</u> = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: _____)				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>None</u>				<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
2. _____				
_____ = Total Cover				
% Bare Ground in Herb Stratum <u>15</u>		% Cover of Biotic Crust <u>        </u>		

Remarks:

**SOIL**

Sampling Point: 3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0 – 6	10YR 2/2	100	7.5YR 6/8	5	C	M	firm, blocky	very dark brown
6 – 12	10YR 3/2	100	NONE				blocky	very dark grayish brown

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**  
 Type: NONE  
 Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes  No

Remarks:  
 Soil is angular blocky. Few, prominent mottles within first 6 inches, none below 6 inches.  
 Samples were moistened prior to soil color determination.

**HYDROLOGY**

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes  No  Depth (inches): \_\_\_\_\_

Water Table Present? Yes  No  Depth (inches): \_\_\_\_\_

Saturation Present? (includes capillary fringe) Yes  No  Depth (inches): \_\_\_\_\_

Wetland Hydrology Present? Yes  No

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

Remarks:  
 Sample taken in seasonal wetland. Area is a depression within a broad swale in the northeastern portion of the property. The area is significantly lower in elevation from the majority of the site. Sample taken approximately 100 feet south of Pittsburg-Antioch Highway.

**WETLAND DETERMINATION DATA FORM – Arid West Region**

Project/Site: Solar RV/Boat and Mini-Storage City/County: Pittsburg/Contra Costa Sampling Date: Oct 8, 2021

Applicant/Owner: Chris Koenig/Pacific Property Advisors, Inc. State: California Sampling Point: 4

Investigator(s): M. Bole, C. Bole Section, Township, Range: T 13 N, R 1 E, Los Medanos Land Grant

Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): none Slope (%): 1-2%

Subregion (LRR): LRR – C Lat: 38.01192N Long: -121.84371W Datum: NAD 83

Soil Map Unit Name: Rincon clay loam NWI classification: non-hydric

Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)  
 Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No   
 Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Hydric Soil Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Remarks:	

**VEGETATION – Use scientific names of plants.**

Tree Stratum (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Salix laevigata</u>	<u>5</u>	<u>N</u>	<u>FACW</u>	<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>4</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
<u>5</u> = Total Cover				
Sapling/Shrub Stratum (Plot size: _____)				
1. <u>None</u>				<b>Prevalence Index worksheet:</b> Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
2. _____				
3. _____				
4. _____				
5. _____				
_____ = Total Cover				
Herb Stratum (Plot size: <u>10' x 10'</u> )				
1. <u>Polypogon monspeliensis</u>	<u>20</u>	<u>Y</u>	<u>FACW</u>	<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. <u>Lepidium latifolium</u>	<u>20</u>	<u>Y</u>	<u>FAC</u>	
3. <u>Rumex crispus</u>	<u>20</u>	<u>Y</u>	<u>FAC</u>	
4. <u>Phalaris paradoxa</u>	<u>25</u>	<u>Y</u>	<u>FAC</u>	
5. <u>Schoenoplectus acutus</u>	<u>5</u>	<u>N</u>	<u>OBL</u>	
6. _____				
7. _____				
8. _____				
<u>90</u> = Total Cover				
Woody Vine Stratum (Plot size: _____)				
1. <u>None</u>				<b>Hydrophytic Vegetation Present?</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
2. _____				
_____ = Total Cover				
% Bare Ground in Herb Stratum <u>5</u> % Cover of Biotic Crust _____				

Remarks:

**SOIL**

Sampling Point: 4

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0 – 6	10YR 2/2	100	7.5YR 6/8	5	C	M	firm, blocky	very dark brown
6 – 12	10YR 2/2	100	7.5YR 6/8	10	C	M	blocky	very dark brown

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)		Indicators for Problematic Hydric Soils <sup>3</sup> :
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input checked="" type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**  
 Type: NONE  
 Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes  No

Remarks:  
 Soil is angular blocky. Few, prominent mottles within first 12 inches.  
 Samples were moistened prior to soil color determination.

**HYDROLOGY**

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (2 or more required)	
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes  No  Depth (inches): \_\_\_\_\_

Water Table Present? Yes  No  Depth (inches): \_\_\_\_\_

Saturation Present? (includes capillary fringe) Yes  No  Depth (inches): \_\_\_\_\_

Wetland Hydrology Present? Yes  No

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

Remarks:  
 Sample taken in seasonal wetland. Area is a depression within a broad swale in the northeastern portion of the property. The area is significantly lower in elevation from the majority of the site. Sample taken approximately 200 feet south of Pittsburg-Antioch Highway.

**WETLAND DETERMINATION DATA FORM – Arid West Region**

Project/Site: Solar RV/Boat and Mini-Storage City/County: Pittsburg/Contra Costa Sampling Date: Oct 8, 2021

Applicant/Owner: Chris Koenig/Pacific Property Advisors, Inc. State: California Sampling Point: 5

Investigator(s): M. Bole, C. Bole Section, Township, Range: T 13 N, R 1 E, Los Medanos Land Grant

Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): none Slope (%): 1-2%

Subregion (LRR): LRR – C Lat: 38.01151N Long: -121.84393W Datum: NAD 83

Soil Map Unit Name: Rincon clay loam NWI classification: non-hydric

Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)

Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No

Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks:	

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: _____)	<u>Absolute % Cover</u>	<u>Dominant Species?</u>	<u>Indicator Status</u>	<b>Dominance Test worksheet:</b>
1. <u>None</u>				Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A)
2. _____				Total Number of Dominant Species Across All Strata: <u>2</u> (B)
3. _____				Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)
4. _____				
_____ = Total Cover				
<u>Sapling/Shrub Stratum</u> (Plot size: _____)				<b>Prevalence Index worksheet:</b>
1. <u>None</u>				<u>        </u> Total % Cover of: <u>        </u> Multiply by: <u>        </u>
2. _____				OBL species <u>        </u> x 1 = <u>        </u>
3. _____				FACW species <u>        </u> x 2 = <u>        </u>
4. _____				FAC species <u>        </u> x 3 = <u>        </u>
5. _____				FACU species <u>        </u> x 4 = <u>        </u>
_____ = Total Cover				UPL species <u>        </u> x 5 = <u>        </u>
				Column Totals: <u>        </u> (A) <u>        </u> (B)
				Prevalence Index = B/A = <u>        </u>
<u>Herb Stratum</u> (Plot size: <u>10' x 10'</u> )				<b>Hydrophytic Vegetation Indicators:</b>
1. <u>Avena barbata</u>	<u>40</u>	<u>Y</u>	<u>NI</u>	<input type="checkbox"/> Dominance Test is >50%
2. <u>Bromus hordeaceus</u>	<u>20</u>	<u>Y</u>	<u>FACU</u>	<input type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup>
3. <u>Bromus madritensis</u>	<u>15</u>	<u>N</u>	<u>UPL</u>	<input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
4. <u>Centaurea solstitialis</u>	<u>15</u>	<u>N</u>	<u>NI</u>	<input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
5. _____				
6. _____				
7. _____				
8. _____				
<u>90</u> = Total Cover				
<u>Woody Vine Stratum</u> (Plot size: _____)				<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1. <u>None</u>				
2. _____				
_____ = Total Cover				
% Bare Ground in Herb Stratum <u>10</u>		% Cover of Biotic Crust <u>        </u>		<b>Hydrophytic Vegetation Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks:				

**SOIL**

Sampling Point: 5

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0 – 6	10YR 4/2	100	NONE				firm, blocky	dark grayish brown
6 – 12	10YR 3/2	100	NONE				blocky	very dark grayish brown

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

<b>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</b>		<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**  
 Type: NONE  
 Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No X

Remarks:  
 Soil is angular blocky. Samples were moistened prior to soil color determination.

**HYDROLOGY**

**Wetland Hydrology Indicators:**

<u>Primary Indicators (minimum of one required; check all that apply)</u>		<u>Secondary Indicators (2 or more required)</u>
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_

Water Table Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_

Saturation Present? (includes capillary fringe) Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_

Wetland Hydrology Present? Yes \_\_\_\_\_ No X

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

Remarks:  
 Sample taken south of seasonal wetland in upland habitat. Sample taken approximately 350 feet south of Pittsburg-Antioch Highway.

**WETLAND DETERMINATION DATA FORM – Arid West Region**

Project/Site: Solar RV/Boat and Mini-Storage City/County: Pittsburg/Contra Costa Sampling Date: Oct 8, 2021

Applicant/Owner: Chris Koenig/Pacific Property Advisors, Inc. State: California Sampling Point: 6

Investigator(s): M. Bole, C. Bole Section, Township, Range: T 13 N, R 1 E, Los Medanos Land Grant

Landform (hillslope, terrace, etc.): Terrace Local relief (concave, convex, none): none Slope (%): 1-2%

Subregion (LRR): LRR – C Lat: 38.01042N Long: -121.84509W Datum: NAD 83

Soil Map Unit Name: Rincon clay loam NWI classification: non-hydric

Are climatic / hydrologic conditions on the site typical for this time of year? Yes  No  (If no, explain in Remarks.)

Are Vegetation , Soil , or Hydrology  significantly disturbed? Are "Normal Circumstances" present? Yes  No

Are Vegetation , Soil , or Hydrology  naturally problematic? (If needed, explain any answers in Remarks.)

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

Hydrophytic Vegetation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Remarks:	

**VEGETATION – Use scientific names of plants.**

<u>Tree Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>None</u>				<b>Dominance Test worksheet:</b> Number of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>0</u> (A/B)																
2. _____																				
3. _____																				
4. _____																				
_____ = Total Cover				<b>Prevalence Index worksheet:</b> <table style="width:100%; border: none;"> <tr> <td style="width:50%;"><u>Total % Cover of:</u></td> <td style="width:50%;"><u>Multiply by:</u></td> </tr> <tr> <td>OBL species _____</td> <td>x 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>x 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>x 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>x 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>x 5 = _____</td> </tr> <tr> <td>Column Totals: _____</td> <td>(A) _____ (B) _____</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = _____</td> </tr> </table>	<u>Total % Cover of:</u>	<u>Multiply by:</u>	OBL species _____	x 1 = _____	FACW species _____	x 2 = _____	FAC species _____	x 3 = _____	FACU species _____	x 4 = _____	UPL species _____	x 5 = _____	Column Totals: _____	(A) _____ (B) _____	Prevalence Index = B/A = _____	
<u>Total % Cover of:</u>	<u>Multiply by:</u>																			
OBL species _____	x 1 = _____																			
FACW species _____	x 2 = _____																			
FAC species _____	x 3 = _____																			
FACU species _____	x 4 = _____																			
UPL species _____	x 5 = _____																			
Column Totals: _____	(A) _____ (B) _____																			
Prevalence Index = B/A = _____																				
<u>Sapling/Shrub Stratum</u> (Plot size: _____)																				
1. <u>None</u>																				
2. _____																				
3. _____																				
4. _____																				
5. _____																				
_____ = Total Cover																				
<u>Herb Stratum</u> (Plot size: <u>10' x 10'</u> )																				
1. <u>Avena barbata</u>	<u>40</u>	<u>Y</u>	<u>NI</u>																	
2. <u>Bromus hordeaceus</u>	<u>20</u>	<u>Y</u>	<u>FACU-</u>																	
3. <u>Bromus madritensis</u>	<u>15</u>	<u>N</u>	<u>UPL</u>																	
4. <u>Centaurea solstitialis</u>	<u>5</u>	<u>N</u>	<u>NI</u>																	
5. _____																				
6. _____																				
7. _____																				
8. _____																				
<u>80</u> = Total Cover																				
<u>Woody Vine Stratum</u> (Plot size: _____)																				
1. <u>None</u>																				
2. _____																				
_____ = Total Cover																				
% Bare Ground in Herb Stratum <u>20</u> % Cover of Biotic Crust _____		<b>Hydrophytic Vegetation Indicators:</b> <input type="checkbox"/> Dominance Test is >50% <input type="checkbox"/> Prevalence Index is ≤3.0 <sup>1</sup> <input type="checkbox"/> Morphological Adaptations <sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)																		
		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																		
		<b>Hydrophytic Vegetation Present?</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>																		
Remarks:																				

**SOIL**

Sampling Point: 6

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

Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		
0 – 6	10YR 4/2	100	NONE				firm, blocky	dark grayish brown
6 – 12	10YR 3/2	100	NONE				blocky	very dark grayish brown

<sup>1</sup>Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. <sup>2</sup>Location: PL=Pore Lining, M=Matrix.

<b>Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)</b>		<b>Indicators for Problematic Hydric Soils<sup>3</sup>:</b>
<input type="checkbox"/> Histosol (A1)	<input type="checkbox"/> Sandy Redox (S5)	<input type="checkbox"/> 1 cm Muck (A9) (LRR C)
<input type="checkbox"/> Histic Epipedon (A2)	<input type="checkbox"/> Stripped Matrix (S6)	<input type="checkbox"/> 2 cm Muck (A10) (LRR B)
<input type="checkbox"/> Black Histic (A3)	<input type="checkbox"/> Loamy Mucky Mineral (F1)	<input type="checkbox"/> Reduced Vertic (F18)
<input type="checkbox"/> Hydrogen Sulfide (A4)	<input type="checkbox"/> Loamy Gleyed Matrix (F2)	<input type="checkbox"/> Red Parent Material (TF2)
<input type="checkbox"/> Stratified Layers (A5) (LRR C)	<input type="checkbox"/> Depleted Matrix (F3)	<input type="checkbox"/> Other (Explain in Remarks)
<input type="checkbox"/> 1 cm Muck (A9) (LRR D)	<input type="checkbox"/> Redox Dark Surface (F6)	
<input type="checkbox"/> Depleted Below Dark Surface (A11)	<input type="checkbox"/> Depleted Dark Surface (F7)	
<input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Redox Depressions (F8)	
<input type="checkbox"/> Sandy Mucky Mineral (S1)	<input type="checkbox"/> Vernal Pools (F9)	
<input type="checkbox"/> Sandy Gleyed Matrix (S4)		

<sup>3</sup>Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

**Restrictive Layer (if present):**  
 Type: NONE  
 Depth (inches): \_\_\_\_\_

Hydric Soil Present? Yes \_\_\_\_\_ No X

Remarks:  
 Soil is angular blocky. Samples were moistened prior to soil color determination.

**HYDROLOGY**

**Wetland Hydrology Indicators:**

Primary Indicators (minimum of one required; check all that apply)		Secondary Indicators (2 or more required)
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Salt Crust (B11)	<input type="checkbox"/> Water Marks (B1) (Riverine)
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Biotic Crust (B12)	<input type="checkbox"/> Sediment Deposits (B2) (Riverine)
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Aquatic Invertebrates (B13)	<input type="checkbox"/> Drift Deposits (B3) (Riverine)
<input type="checkbox"/> Water Marks (B1) (Nonriverine)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input checked="" type="checkbox"/> Drainage Patterns (B10)
<input type="checkbox"/> Sediment Deposits (B2) (Nonriverine)	<input type="checkbox"/> Oxidized Rhizospheres along Living Roots (C3)	<input type="checkbox"/> Dry-Season Water Table (C2)
<input type="checkbox"/> Drift Deposits (B3) (Nonriverine)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Crayfish Burrows (C8)
<input type="checkbox"/> Surface Soil Cracks (B6)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> Saturation Visible on Aerial Imagery (C9)
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)
<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Other (Explain in Remarks)	<input type="checkbox"/> FAC-Neutral Test (D5)

**Field Observations:**

Surface Water Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_

Water Table Present? Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_

Saturation Present? (includes capillary fringe) Yes \_\_\_\_\_ No X Depth (inches): \_\_\_\_\_

Wetland Hydrology Present? Yes \_\_\_\_\_ No X

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

Remarks:  
 Sample taken south of seasonal wetland in upland habitat. Sample taken approximately 750 feet south of Pittsburg-Antioch Highway.

## ENCLOSURE E: Resumes



**Marcus H. Bole & Associates**  
*An Environmental Consulting Firm*

**MARCUS H. BOLE, M.S., Senior Wildlife Biologist**

**EXPERTISE:**

Natural Resource Management  
Biological Monitoring for Construction Projects  
Protocol-level Special Status Plant & Wildlife Surveys  
Wetland Delineation, Mitigation, and Permitting  
Phase I & II Environmental Site Assessments  
CEQA/NEPA Document Preparation and Coordination

**EDUCATION:**

Masters Degree in Environmental Science  
North Dakota State University, Fargo, 1976  
Baccalaureate in Biology & Geography  
California State University, Sacramento, 1970  
Registered Environmental Property Assessor (REPA #647913)  
Certified (OSMB) Disabled Veteran Business Enterprise (DVBE)  
California Department of General Services (#0000847)  
Service Disabled Veteran Owned Small Business (VA)

**PROFESSIONAL HISTORY:**

Marcus H. Bole & Associates, Senior Environmental Scientist, 1993 - Present  
U. S. Federal Government Manager of Environmental Science and Project Management,  
Natural Resource Management, Evaluation and Compliance, 1990 – 1993  
United States Air Force, Environmental Scientist, U.S. & Overseas, 1970-1990  
California State Division of Forestry, Biological Field Technician, 1966 - 1970

**TRAINING AND REGISTRATIONS:**

Air Force Institute of Technology -1991  
Professional Education, Wright-Patterson Air Force Base, Ohio  
Natural Resource Management, Biological Assessment  
Air Force Center of Environmental Excellence-1992  
Professional Education - Brooks City-Base, Texas  
Natural Resource Management- National Environmental Policy  
National Registry of Environmental Professionals 1993 - Present  
Registered Environmental Property Assessor (REPA)  
Yearly Continuing Education Credits - Biological/Environmental Science  
Association of Environmental Professionals - 2000-2021  
Professional Education Program - Biological Sciences  
Bat Survey Techniques, Impact Assessment, and Mitigation - Leila Harris, UCD

Richard Chinn Environmental Training Institute - 2000-2021  
Yearly re-certifications - Wetland Identification, Mapping and Reporting  
Sierra Nevada Field Campus - 2000-2021  
Continuing Education - Workshops in Natural Resource Evaluation  
San Diego Natural History Museum - Department of Herpetology, 1998-2021  
Training under Bradford D. Hollingsworth, Ph.D., Curator  
Reptile and Amphibian Identification and Evaluation  
Dr. Murray E. Fowler Veterinary Hospital - Sacramento Zoo, 1998-2021  
Familiarization and identification training - Giant Garter Snake  
Museum of Wildlife and Fish Biology - University of California, Davis  
Continuing education in conservation biology, 1998-2021

### **REPRESENTATIVE EXPERIENCE - Natural Resource Evaluation and Reporting:**

Mr. Bole has over forty years of experience in environmental project management. He has supervised work forces of professional engineers, scientists and technicians responsible for pollution monitoring, permitting, abatement, environmental impact analysis, natural resource evaluation and restoration programs and preserve habitat management. As a biologist, Mr. Bole has conducted numerous Biological Assessments in accordance with United States Fish & Wildlife Service (USFWS), California Department of Fish & Wildlife (CDFW), United States Army Corps of Engineers (USACE) and the California Department of Transportation (Caltrans) guidance, protocols and regulations. He has conducted wetland delineations in accordance with the United States Army Corps of Engineers regulations throughout California. As Senior Environmental Scientist, Lt. Colonel Bole, Chief, Environmental Affairs, was directly responsible training and employing a staff of 200 biologists, botanists and environment scientists conducting hundreds of Biological Assessments at five major military installations in California (1990 -1993). As lead environmental scientist for the Department of Veterans Affairs, National Cemetery Administration, he has been directly responsible for conducting environmental assessments, preserve monitoring and habitat restoration for the expansion over 160 National Cemeteries in the United States. The California Superior Court system (Yuba & Plumas Counties) has qualified Marcus Bole as an expert witness in wildlife and fisheries biology. Mr. Bole is an approved biologist for the Yolo Habitat Conservancy, East Contra Costa Habitat Conservancy and the South Sacramento Habitat Conservation Plan. Following is a list of representative experience for selected species:

- Vernal pool species habitat and preserve management
- California Red-legged Frog & Foothill Yellow-legged Frog
- Swainson's hawk & White-Tailed Kite
- Tri-Colored Blackbird & Bank Swallow
- Western Burrowing Owl, bat species
- Western Yellow-billed Cuckoo, Least Bell's Vireo
- Western Pond Turtle, Giant Garter Snake
- Valley Elderberry Longhorn Beetle
- San Joaquin kit fox
- Fresno kangaroo rat
- Blunt-nosed Leopard Lizard, California Tiger Salamander
- Federal and State Listed Plant Species



**Marcus H. Bole & Associates**  
*An Environmental Consulting Firm*

**CHARLENE J. BOLE, Senior Botanist**

**EXPERTISE:**

Environmental Project Management  
Natural Resource Management  
Environmental Site Assessments (Phase I & II)  
Threatened and Endangered Species Surveys and Reporting  
Senior Botanist  
Wetland Delineation, Mapping, Mitigation and Permitting

**EDUCATION:**

Master Degree in Environmental Science  
North Dakota State University, Fargo, 1979  
Baccalaureate in Geography and Botany  
California State University, Sacramento, 1974  
Graduate Course work in Environmental Sciences, Botany & Wildlife Biology  
Registered Environmental Property Assessor (REPA# 229436)  
State of California Standard Teaching Credential, Environmental Science  
California Community College Credential, Environmental Science

**PROFESSIONAL HISTORY:**

Marcus H. Bole & Associates (MHB&A), Senior Environmental Scientist, 1991 - Present  
Consultant, Veterans Administration, National Cemetery Administration, 2005-Present  
Consultant, Regulatory Permitting, US Army, Department of Defense, Belgium, 1988 - 1991  
Consultant, Senior Project Manager, Environmental Development Center, Belgium, 1988 - 1991  
Consultant, Senior Environmental Scientist, National Cemetery Administration, 2005 – Present

**TRAINING AND REGISTRATIONS:**

National Registry of Environmental Professionals 1993 - Present  
Registered Environmental Property Assessor (REPA)  
Yearly Continuing Education Credits - Biological/Environmental Science  
Association of Environmental Professionals - 2000-2021  
Professional Education Program - Biological Sciences  
Bat Survey Techniques, Impact Assessment, and Mitigation - Leila Harris, UCD  
Richard Chinn Environmental Training Institute - 2000-2021  
Yearly re-certifications - Wetland Identification, Mapping and Reporting  
Sierra Nevada Field Campus - 2000-2021  
Continuing Education - Workshops in Natural Resource Evaluation  
Special status botanical species of California.

**From:** Farinha, Melissa@Wildlife <Melissa.Farinha@wildlife.ca.gov>  
**Sent:** Friday, September 3, 2021 10:11 AM  
**To:** Jentsch, Stephanie <Stephanie\_Jentsch@fws.gov>; Joanne Chiu <Joanne.Chiu@dcd.cccounty.us>  
**Subject:** RE: [EXTERNAL] RE: Biologist Approval Request - Marcus Bole and Charlene Bole, Pittsburg Self Storage Project on APN 074-100-018

Good Morning Joanne,

CDFW approves Charlene and Marcus Bole to conduct planning and preconstruction surveys for the Pittsburg Self Storage Project on APN 074-100-018.

Thank You,

Melissa Farinha  
Environmental Program Manager  
Bay Delta Region, Delta Habitat Conservation Program  
2825 Cordelia Road, Suite 100  
Fairfield, CA 94534  
(530) 351-4801

**From:** Jentsch, Stephanie <[Stephanie\\_Jentsch@fws.gov](mailto:Stephanie_Jentsch@fws.gov)>  
**Sent:** Thursday, August 26, 2021 5:24 PM  
**To:** Joanne Chiu <[Joanne.Chiu@dcd.cccounty.us](mailto:Joanne.Chiu@dcd.cccounty.us)>; Farinha, Melissa@Wildlife <[Melissa.Farinha@wildlife.ca.gov](mailto:Melissa.Farinha@wildlife.ca.gov)>  
**Subject:** Re: [EXTERNAL] RE: Biologist Approval Request - Marcus Bole and Charlene Bole, Pittsburg Self Storage Project on APN 074-100-018

**WARNING:** This message is from an external source. Verify the sender and exercise caution when clicking links or opening attachments.

Hi Joanne,

Marcus and Charlene Bole are approved to conduct planning and preconstruction surveys for the Pittsburg Self Storage Project on APN 074-100-018.

Thank you,  
Stephanie