

Botany and Wetland Assessment SN Indianola LLC CO Humbold County

APN: 402-032-002, 402-032-035

Prepared by Hohman and Associates November 29, 2023

Setting

This document assesses potentially occurring special-status plants; and identifies potential impacts of wetland resources for parcels 402-032-002 & 402-032-035 owned by SN Indianola LLC CO. The property does not contain habitable structures or an existing road system.

The property is approximately 22.3 acres and is located in Section 17, Township 5 North, Range 1 East; HB&M, approximately 1,400' east of the Highway 101 and Indianola cutoff interchange on the Arcata South USGS 7.5' Quad. The property lies within the California Floristic Province, Northwestern California region, and North Coast sub-region. The project area is in the Fay Slough Cal Watershed (1110.000105). There are no rivers, sloughs, creeks, springs, or wet areas on the property. No areas of dune or coastal scrub habitat and no areas of true oak woodland or native coastal grassland are present within the study area.

Methods

Plants: Seasonally appropriate and floristically surveys for this project were conducted on 25 September 2021; 12 March and 4 July 2022. The surveys were conducted by Mr. James Regan. Mr. Regan holds a bachelors' degree in botany and has experience (20 years) working as a professional botanist in northern California. No plants considered sensitive, rare, threatened, or endangered (including candidate species) in the United States and/or The State of California were detected during seasonally appropriate surveys within the subject parcels. No un-common species included in CRPR 3 or 4 were detected during surveys. A list of sensitive plant species that have the potential to occur in this area is provided in Attachment A. This list is the result of a compilation of occurrence data from the California Native Plant Society (CNPS) and California Natural Diversity Database (CNDDB). Sources were queried for the Arcata South USGS 7.5' quadrangles and the 8 quadrangles immediately adjacent. Plant species with potential habitat within the project area are noted. All other species listed are described as existing in habitat types that are not found within the project area. Plant species ranked by the CNPS as California Rare Plant Rank (CRPR) 1 and 2 with potential habitat within the project area are considered the primary focus of seasonal surveys. CRPR list 3 and 4 plants are recorded and reported if found within the project area and will be considered for mitigation if appropriate. A complete list of species encountered and survey route map are provided in Attachment B.

Wetland: An assessment of potential impacts to adjacent watercourses or wetlands within the parcel boundary was conducted by interpretation of aerial photography and resource maps courtesy of Google Earth, the United States Geologic Survey (USGS) 7.5' Arcata South quadrangle map, Humboldt County Web GIS, and United States Fish and Wildlife Service (USFW) National Wetland Inventory. This assessment was supplemented by in field survey of the subject areas. In field survey was conducted on 12 March and 4 July 2022 by Mr. James Regan. Mr. Regan has a bachelor's degree in Botany and training and experience in wetland delineations and botanical survey and has conducted wetland surveys and delineations in Humboldt, Mendocino, and Trinity counties since 2008. No wetland or watercourse features were found within the mapped study area, All features are included on the attached Wetlands and Waters Plot Map as Attachment C.

I. Results Summary

No plants considered sensitive, rare, threatened, or endangered (including candidate species) in the United States and/or The State of California were detected during seasonally appropriate surveys within the subject parcels. No un-common species included in CRPR 3 or 4 were detected during surveys. No wetland or watercourse features were found within the mapped study area.

ATTACHMENT A

List of Potentially Occurring Sensitive Plant Species

Indianola 2022 – List of Potentially Occurring Sensitive Plant Species

Scientific Name	Common Name	CRPR	GRank	SRank	CESA	FESA	Blooming Period	Habitat	Habitat in Study Area
Abronia umbellata var. breviflora	pink sand-verbena	1B.1	G4G5T2	S2	None	None	Jun-Oct	Coastal dunes	No
Astragalus pycnostachyus	pilik salid-verbella	1D.1	040312	32	None	None	Juli-Oct	Coastal dunes, Coastal scrub,	NO
var. pycnostachyus	coastal marsh milk-vetch	1B.2	G2T2	S2	None	None	(Apr)Jun-Oct	Marshes and swamps	No
Cardamine angulata	seaside bittercress	2B.2	G4G5	S3	None	None	(Jan)Mar-Jul	Lower montane coniferous forest, North Coast coniferous forest Bogs and fens, North Coast	Potential
Carex arcta	northern clustered sedge	2B.2	G5	S1	None	None	Jun-Sep	coniferous forest Bogs and fens, Marshes and	No
Carex leptalea	bristle-stalked sedge	2B.2	G5	S1	None	None	Mar-Jul	swamps, Meadows and seeps	Potential
Carex lyngbyei	Lyngbye's sedge	2B.2	G5	S3	None	None	Apr-Aug	Marshes and swamps	No
Carex praticola	northern meadow sedge	2B.2	G5	S2	None	None	May-Jul	Meadows and seeps	Potential
Castilleja ambigua var. humboldtiensis	Humboldt Bay owl's-clover	1B.2	G4T2	S2	None	None	Apr-Aug	Marshes and swamps	No
Castilleja litoralis	Oregon coast paintbrush	2B.2	G3	S3	None	None	Jun	Coastal bluff scrub, Coastal dunes, Coastal scrub	No
Chloropyron maritimum ssp. palustre	Point Reyes salty bird's-beak	1B.2	G4?T2	S2	None	None	Jun-Oct	Marshes and swamps	No
Collinsia corymbosa	round-headed Chinese-houses	1B.2	G1	S1	None	None	Apr-Jun	Coastal dunes	No
Erysimum menziesii	Menzies' wallflower	1B.1	G1	S1	CE	FE	Mar-Sep	Coastal dunes	No
Erythronium oregonum	giant fawn lily	2B.2	G5	S2	None	None	Mar-Jun(Jul)	Cismontane woodland, Meadows and seeps	Potential
Erythronium revolutum	coast fawn lily	2B.2	G4G5	S 3	None	None	Mar- Jul(Aug)	Bogs and fens, Broadleafed upland forest, North Coast coniferous forest	Potential
Fissidens pauperculus	minute pocket moss	1B.2	G3?	S2	None	None		North Coast coniferous forest	Potential
Gilia capitata ssp. pacifica	Pacific gilia	1B.2	G5T3	S2	None	None	Apr-Aug	Chaparral, Coastal bluff scrub, Coastal prairie, Valley and foothill grassland	Marginal
Gilia millefoliata	dark-eyed gilia	1B.2	G2	S2	None	None	Apr-Jul	Coastal dunes	No

Scientific Name	Common Name	CRPR	GRank	SRank	CESA	FESA	Blooming Period	Habitat	Habitat in Study Area
Hesperevax sparsiflora var.	-h 1	1B.2	G4T3	S3	None	Name	M I	Coastal bluff scrub, Coastal dunes,	Mi1
brevifolia	short-leaved evax	16.2	G413	33	None	None	Mar-Jun	Coastal prairie Chaparral, Lower montane	Marginal
								coniferous forest, North Coast	
Iliamna latibracteata	California globe mallow	1B.2	G2G3	S2	None	None	Jun-Aug	coniferous forest, Riparian scrub	Potential
Lasthenia californica ssp.								Coastal bluff scrub, Coastal dunes,	
macrantha	perennial goldfields	1B.2	G3T2	S2	None	None	Jan-Nov	Coastal scrub	No
Lathyrus japonicus	seaside pea	2B.1	G5	S2	None	None	May-Aug	Coastal dunes	No
Lathyrus palustris	marsh pea	2B.2	G5	S2	None	None	Mar-Aug	Bogs and fens, Coastal prairie, Coastal scrub, Lower montane coniferous forest, Marshes and swamps, North Coast coniferous forest	No
Lavia carnosa	beach layia	1B.1	G2	S2	CE	FT	Mar-Jul	Coastal dunes, Coastal scrub	No
Lilium occidentale	western lilv	1B.1	G1G2	S1	CE	FE	Jun-Jul	Bogs and fens, Coastal bluff scrub, Coastal prairie, Coastal scrub, Marshes and swamps, North Coast coniferous forest	Potential
							Jun-	Broadleafed upland forest, North	
Monotropa uniflora	ghost-pipe	2B.2	G5	S2	None	None	Aug(Sep)	Coast coniferous forest	Potential
Montia howellii	Howell's montia	2B.2	G3G4	S2	None	None	(Feb)Mar- May	Meadows and seeps, North Coast coniferous forest, Vernal pools	Potential
Noccaea fendleri ssp. californica	Kneeland Prairie pennycress	1B.1	G5?T1	S1	None	FE	May-Jun	Coastal prairie	No
Oenothera wolfii	Wolf's evening-primrose	1B.1	G2	S1	None	None	May-Oct	Coastal plane Coastal bluff scrub, Coastal dunes, Coastal prairie, Lower montane coniferous forest	Potential
Packera bolanderi var. bolanderi	seacoast ragwort	2B.2	G4T4	S2S3	None	None	(Jan- Apr)May- Jul(Aug)	Coastal scrub, North Coast coniferous forest	Potential
Piperia candida	white-flowered rein orchid	1B.2	G3?	S3	None	None	(Mar)May- Sep	Broadleafed upland forest, Lower montane coniferous forest, North Coast coniferous forest	Potential
Sidalcea malviflora ssp. patula	Siskiyou checkerbloom	1B.2	G5T2	S2	None	None	(Mar)May- Aug	Coastal bluff scrub, Coastal prairie, North Coast coniferous forest	Potential
Sidalcea oregana ssp. eximia	coast checkerbloom	1B.2	G5T1	S1	None	None	Jun-Aug	Lower montane coniferous forest, Meadows and seeps, North Coast coniferous forest	Potential

Scientific Name	Common Name	CRPR	GRank	SRank	CESA	FESA	Blooming Period	Habitat	Habitat in Study Area
							(Mar- May)Jun-	Coastal bluff scrub, Coastal prairie,	
Silene scouleri ssp. scouleri	Scouler's catchfly	2B.2	G5T4T5	S2S3	None	None	Aug(Sep)	Valley and foothill grassland	Potential
Spergularia canadensis var. occidentalis	western sand-spurrey	2B.1	G5T4	S1	None	None	Jun-Aug	Marshes and swamps	No
Sulcaria spiralifera	twisted horsehair lichen	1B.2	G3G4	S2	None	None		Coastal dunes, North Coast coniferous forest	Potential
Trichodon cylindricus	cylindrical trichodon	2B.2	G4G5	S2	None	None		Broadleafed upland forest, Meadows and seeps, Upper montane coniferous forest	Potential
Viola palustris	alpine marsh violet	2B.2	G5	S1S2	None	None	Mar-Aug	Bogs and fens, Coastal scrub	Potential
Angelica lucida	sea-watch	4.2	G5	S3	None	None	Apr-Sep	Coastal bluff scrub, Coastal dunes, Coastal scrub, Marshes and swamps	No
Astragalus rattanii var. rattanii	Rattan's milk-vetch	4.3	G4T4	S4	None	None	Apr-Jul	Chaparral, Cismontane woodland, Lower montane coniferous forest	No
Chrysosplenium								North Coast coniferous forest,	
glechomifolium Coptis laciniata	Pacific golden saxifrage Oregon goldthread	4.3	G5? G4?	S3 S3?	None	None	Feb-Jun (Feb)Mar- May(Sep- Nov)	Riparian forest Meadows and seeps, North Coast coniferous forest	Potential No
Eleocharis parvula	small spikerush	4.3	G5	S3	None	None	(Apr)Jun- Aug(Sep)	Marshes and swamps	No
Epilobium septentrionale	Humboldt County fuchsia	4.3	G4	S4	None	None	Jul-Sep	Broadleafed upland forest, North Coast coniferous forest	No
Fritillaria purdyi	Purdy's fritillary	4.3	G4	S4	None	None	Mar-Jun	Chaparral, Cismontane woodland, Lower montane coniferous forest	No
Glehnia littoralis ssp. leiocarpa	American glehnia	4.2	G5T5	S2S3	None	None	May-Aug	Coastal dunes	No
Hemizonia congesta ssp. tracyi	Tracy's tarplant	4.3	G5T4	S4	None	None	(Mar)May- Oct	Coastal prairie, Lower montane coniferous forest, North Coast coniferous forest	Potential
Hosackia gracilis	harlequin lotus	4.2	G3G4	S3	None	None	Mar-Jul	Broadleafed upland forest, Cismontane woodland, Closed-cone coniferous forest, Coastal bluff scrub, Coastal prairie, Coastal scrub, Marshes and swamps, Meadows and seeps, North Coast	Yes

Scientific Name	Common Name	CRPR	GRank	SRank	CESA	FESA	Blooming Period	Habitat	Habitat in Study Area
								coniferous forest, Valley and foothill grassland	
Lathyrus glandulosus	sticky pea	4.3	G3	S3	None	None	Apr-Jun	Cismontane woodland	No
Lilium kelloggii	Kellogg's lily	4.3	G3	S3	None	None	May-Aug	Lower montane coniferous forest, North Coast coniferous forest	Potential
Lilium rubescens	redwood lily	4.2	G3	S3	None	None	Apr- Aug(Sep)	Broadleafed upland forest, Chaparral, Lower montane coniferous forest, North Coast coniferous forest, Upper montane coniferous forest	Potential
Listera cordata	heart-leaved twayblade	4.2	G5	S4	None	None	Feb-Jul	Bogs and fens, Lower montane coniferous forest, North Coast coniferous forest	Potential
Lycopodium clavatum	running-pine	4.1	G5	S3	None	None	Jun- Aug(Sep)	Lower montane coniferous forest, Marshes and swamps, North Coast coniferous forest	Potential
Mitellastra caulescens	leafy-stemmed mitrewort	4.2	G5	S4	None	None	(Mar)Apr- Oct	Broadleafed upland forest, Lower montane coniferous forest, Meadows and seeps, North Coast coniferous forest	Potential
Pityopus californicus	California pinefoot	4.2	G4G5	S4	None	None	(Mar- Apr)May- Aug	Broadleafed upland forest, Lower montane coniferous forest, North Coast coniferous forest, Upper montane coniferous forest	Potential
Pleuropogon refractus	nodding semaphore grass	4.2		S4	None	None	(Mar)Apr- Aug	Lower montane coniferous forest, Meadows and seeps, North Coast coniferous forest, Riparian forest	Potential
Ribes laxiflorum	trailing black currant	4.3	G5?	S3	None	None	Mar- Jul(Aug)	North Coast coniferous forest	Potential
Sidalcea malachroides	maple-leaved checkerbloom	4.2	G3	S3	None	None	(Mar)Apr- Aug	Broadleafed upland forest, Coastal prairie, Coastal scrub, North Coast coniferous forest, Riparian woodland	Potential
Tiarella trifoliata var. trifoliata	trifoliate laceflower	3.2	G5T5	S2S3	None	None	(May)Jun- Aug	Lower montane coniferous forest, North Coast coniferous forest	Potential

Scientific Name	Common Name	CRPR	GRank	SRank	CESA	FESA	Blooming Period	Habitat	Habitat in Study Area
								Broadleafed upland forest, North	
Usnea longissima	Methuselah's beard lichen	4.2	G4	S4	None	None		Coast coniferous forest	Potential

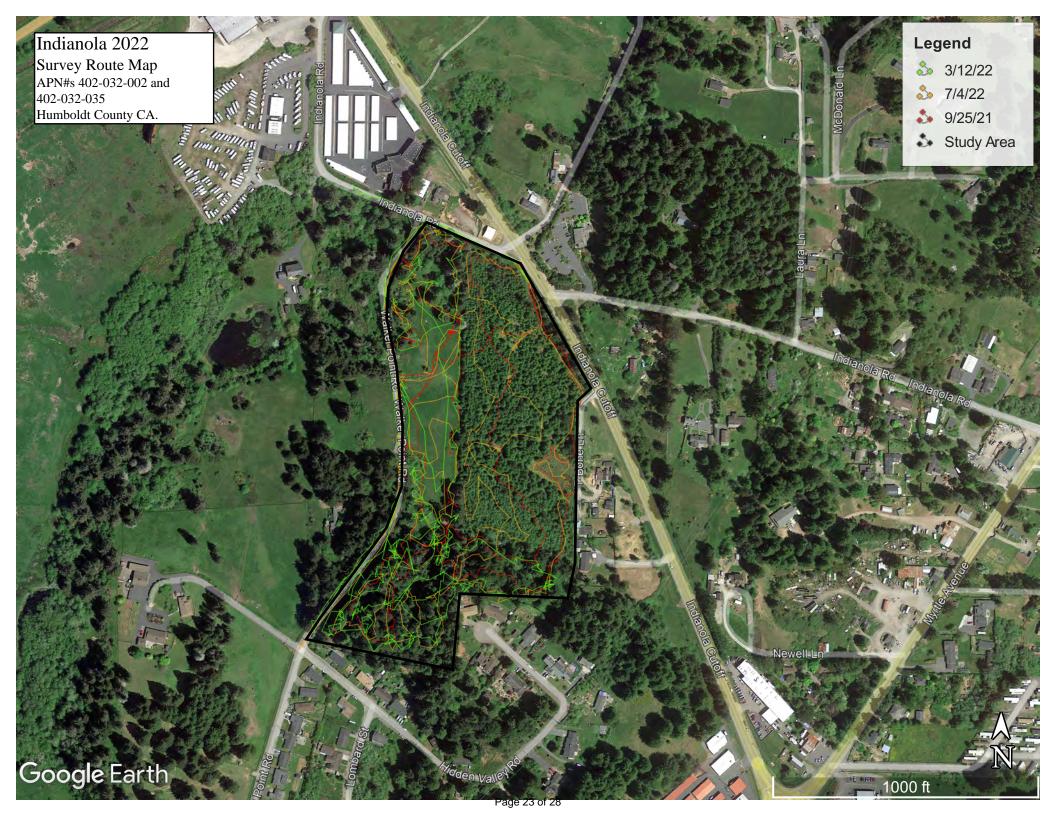
ATTACHMENT B

List of Species Encountered and Survey Route Map

Tree Layer	
Abies grandis	grand fir
Alnus rubra	red alder
Eucalyptus globulus	blue gum
Frangula purshiana	cascara
Ilex aquifolium	English holly
Picea sitchensis	Sitka spruce
Pinus radiata	Monterey pine
Pseudotsuga menziesii var. menziesii	Douglas-fir
Salix babylonica	weeping willow
Salix scouleriana	Scouler's willow
Sequoia sempervirens	coast redwood
Thuja plicata	western red cedar
Shrub Layer	W 930071 700 00011
Baccharis pilularis	coyote brush
Ceanothus thyrsiflorus	blue blossom
Cotoneaster sp	Cotoneaster
Cytisus scoparius	Scotch broom
Gaultheria shallon	salal
Genista monspessulana	French broom
Lonicera involucrata var. ledebourii	black twinberry
Oemleria cerasiformis	oso berry
Prunus laurocerasus	cherry laurel/ornamental
Prunus sp.	plum or cherry
Rosa sp.	rose
Rubus armeniacus	Himalayan blackberry
Rubus parviflorus	thimbleberry
Rubus ursinus	Pacific bramble or California blackberry
Sambucus racemosa var. racemosa	red elderberry
Vaccinium ovatum	evergreen huckleberry
Vaccinium parvifolium	red huckleberry
Herbaceous Layer	
Agrostis sp.	bent grass
Allium triquetrum	escaped ornamental onion
Anthoxanthum occidentale	vanilla grass
Anthoxanthum odoratum	sweet vernal grass
Arctotheca calendula	cape weed
Asarum caudatum	wild ginger
Athyrium filix-femina	lady fern
Avena barbata	slender wild oat
Bellis perennis	English daisy
Briza maxima	large quaking or rattlesnake grass
Briza minor	small quaking or rattlesnake grass
Bromus sitchensis var. carinatus	California brome
Bromus laevipes	woodland brome grass
Cardamine californica	California toothwort or milk maids

Cardamine hirsuta	hairy bittercress
Carex hendersonii	Henderson's sedge
Carex leptopoda	short-scaled sedge
Carex obnupta	slough sedge
Carex tumulicola	foothill sedge
Cerastium glomeratum	mouse ear chickweed
Cirsium vulgare	bull thistle
Claytonia perfoliata	miner's lettuce
Claytonia sibirica	Siberian candyflower
Conium maculatum	poison hemlock
Cortaderia jubata	weedy pampas grass
Crassula sp.	pygmy weed
Crepis capillaris	smooth hawk's beard
Crocosmia sp.	crocosmia
Cynosurus cristatus	crested dogtail
Cynosurus echinatus	hedgehog dogtail grass
Dactylis glomerata	orchard grass
Daucus carota	wild carrot or Queen Anne's lace
Delairea odorata	cape ivy
Epilobium ciliatum	northern willow herb
Erigeron canadensis	horseweed
Eschscholzia californica	California poppy
Euphorbia peplus	petty spurge
Festuca arundinacea	tall fescue
Fragaria chilensis	beach strawberry
Galium sp.	bedstraw
Geranium dissectum	cut-leaved geranium
Hedera helix	English ivy
Heracleum maximum	cow parsnip
Heuchera micrantha	small-flowered alumroot
Holcus lanatus	common velvet grass
Hydrocotyl ranunculoides	marsh pennywort
Hypericum perforatum	Klamath weed or common St. John's-wort
Hypericum sp.	Ornamental
Hypochaeris radicata	hairy cat's-ear
Iris douglasiana	Douglas iris
Juncus effusus	common rush
Lapsana communis	nipplewort
Lepidium didymum	lesser wart-cress
Leucanthemum vulgare	ox-eye daisy
Lonicera hispidula	hairy honeysuckle
Lupinus rivularis	riverbank lupine
Lysichiton americanus	skunk cabbage
Lysmachia arvensis	scarlet pimpernel
Maianthemum dilatatum	false lily-of-the-valley
Marah sp.	wild cucumber
Medicago sp.	bur clover
Narcissus sp.	domestic daffodil
Tim coom op.	domestic duriour

Osmorhiza berteroi	mountain sweet-cicely
Oxalis pes-cepre	Bermuda buttercup
Parentucellia viscosa	yellow parentucellia
Paspalum dilatatum	Dallis grass
Petasites frigidus var. palmatus	western coltsfoot
Plantago lanceolata	English plantain
Poa annua	annual bluegrass
Polygonum sp.	knotweed
Polypodium scouleri	leather-leaf fern
Polystichum munitum	sword fern
Prosartes sp.	fairy bells
Prunella vulgaris	self-heal
Ranunculus sp.	buttercup
Raphanus sativus	wild radish
Rumex acetosella	sheep sorrel
Rumex crispus	curly dock
Rumex pulcher	fiddle dock
Sagina sp.	pearlwort
Sanicula crassicaulis	Pacific snakeroot
Scirpus microcarpus	small-flowered bulrush
Scrophularia californica	coast figwort
Senecio jacobaea	tansy ragwort
Senecio minimus	toothed coast fireweed
Silybum marianum	milk thistle
Soliva sessilis	field burrweed
Sonchus sp.	sow thistle
Stachys sp.	hedge-nettle
Stellaria media	common chickweed
Struthiopteris spicant	deer fern
Symphyotrichum chilense	common California aster
Taraxacum officinale	dandelion
Tellima grandiflora	fringe cups
Tolmiea menziesii	youth-on-age
Tradescantia sp.	spiderwort
Trifolium pratense	red clover
Trifolium repens	white clover
Trillium ovatum	western trillium
Typha latifolia	broadleaf cattail
Vicia sativa ssp. sativa	common vetch or spring vetch
Viola sempervirens	evergreen violet



ATTACHMENT C

Wetlands and Waters Delineation

Indianola 2022

Prepared by J. Regan Consulting Eureka, CA. October 2022

For
MAD RIVER PROPERTIES, INC.
MCKINLEYVILLE, CA.

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Attachment A: General Location Map, Humboldt County Parcel Map, Soils Report, USFWS Wetland Map, Wetland and Waters Plot Map Attachment B: ACOE Plot Forms

Summary of Findings

The approximate 22.3-acre study area was surveyed in March and July of 2022, well-within the growing season in a year with below average rainfall.

No wetland or watercourse features were found within the mapped study area.

Recommendations

No wetlands or watercourses were detected within the study area, no recommendations for protection or mitigation measures are proposed.

Introduction

The study area was assessed and surveyed for the presence of jurisdictional waters of both the State of California and of the United States of America as required by the federal Clean Water Act (CWA) and California's Porter-Cologne Water Quality Control Act. Methodologies used are described in full below.

Any wetlands or watercourses located within the surveyed area may be considered jurisdictional by either California Department of Fish and Wildlife (CDFW), The United States Army Corps of Engineers (ACOE), or the California Coastal Commission (CCC).

This report is the result of in field survey, reviews of relevant scientific literature, and professional knowledge. This survey report is intended to satisfy any project needs for the identification, classification, and delineation of wetlands or waters for avoidance or mitigation during any development activities.

Setting

The approximately 22.3-acre study area is located in Humboldt County, California on the Arcata South USGS 7.5' quadrangle. The subject parcels are accessed by Walker Point Road and are located east of Highway 101, west of Old Arcata Road and south of Indianola Cutoff Road. The study area lies just northeast of the boundary for the City of Eureka (see General Location Map in Attachment A). The parcels included within the study area are listed below.

APN#s

402-032-002 402-032-035

The subject parcels and all areas of potential development occur **within** the California Coastal Zone.

Habitat within the mapped study area is composed of a mix of several vegetation communities. Within the western half of the study area the north end is dominated by mature grand fir (Abies grandis) with some Douglas' fir (Pseudotsuga menziesii), and Monterrey pine (Pinus radiata). This mature timber has an understory of often dense blackberry (Rubus ursinus and Rubus armeniacus) with some young alder (Alnus rubra), Cotoneaster sp., holly (Ilex aquifolium), cascara (Frangula purshiana), and sapling fir and pine trees. Several plum trees (Prunus sp.) are present in this area as well. A small area dominated by red alder and blackberry is adjacent to the grand fir stand. To the south the vegetation transitions to an open field composed of non-native grasses and often weedy forbs. On the south end of the open grassland a small patch of red alder and blackberry quickly gives way to a varied stand of mature redwood (Sequoia sempervirens). This redwood forest contains many large mature redwood, Douglas' fir, and grand fir trees and may contain old growth individuals. Timber harvest has occurred within a portion of the mature stand and patches of young redwood and fir trees are present. The stand transitions to a younger but still mature, Douglas' fir dominated forest to the east (at the south end of the eastern parcel) with a more open canopy and weedy understory of sometimes dense English ivy (Hedera helix) and others. The remainder of the eastern parcel is composed of a dense redwood plantation (established after 2005). The dense canopy and closely spaced trees leave little understory vegetation within this community. A small grassy opening exists along the eastern boundary, this area is composed of non-native grasses and contains some weedy Scotch and French broom (Cytisus scoparius and Genista monspessulana).

There are no areas of wetlands previously mapped by the United States Fish and Wildlife Service (USFWS) wetland map, included in Attachment B, within the study area.

Project area base maps courtesy of Google Earth, Humboldt County Web GIS, USFWS Wetland Mapper, and USDA Web Soil Survey are included as attachments at the end of this report.

Methods

An assessment of potential impacts to adjacent watercourses or wetlands within 500 feet of the areas of potential development was conducted by interpretation of aerial photography and resource maps courtesy of Google Earth, the United States Geologic Survey (USGS) 7.5' Arcata South quadrangle map, Humboldt County Web GIS, and United States Fish and Wildlife Service (USFW) National Wetland Inventory. This assessment was supplemented by in field survey of the subject areas. In field survey was conducted on 12 March and 4 July 2022 by Mr. James Regan. Mr. Regan has a bachelor's degree in Botany and training and experience in wetland delineations and botanical survey and has conducted wetland surveys and delineations in Humboldt, Mendocino, and Trinity counties since 2008.

Any mapped watercourses were identified using the U.S. Army Corps of Engineers (ACOE) "Guide to Ordinary High Water Mark (OHWM) Delineation for Non-Perennial Streams in the Western Mountains, Valleys, and Coast Region of the United States" (Mercel, Licvar 2014).

Potential wetlands and wetland boundaries were assessed using guidelines outlined in the ACOE Wetland Delineation Manual Technical Report Y-87-1 (referred to as the 1987 manual) and the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Western

Mountains, Valleys and Coast Region. These manuals provide technical guidelines for identifying wetlands, distinguishing them from non-wetlands, and provide methods for applying the technical guidelines. Three key provisions of the ACOE wetland definition include:

- i. Inundated or saturated soil conditions resulting from permanent or periodic inundation by ground or surface water.
- ii. A prevalence of vegetation typically adapted for life in saturated soil conditions (hydrophytic vegetation)
- iii. The presence of "normal circumstances"

Explicit in the ACOE definition is the consideration of three environmental parameters: Hydrology, Vegetation, and Soils. Positive wetland indicators of all three parameters are normally present in wetlands. The ACOE methodology requires one positive indicator from each parameter in order to make a positive wetland determination.

This wetland and waters evaluation also utilized techniques from the technical manual A Hydrogeomorphic Classification of Wetlands (Brinson 1993) wherein wetlands are classified by land position and hydrologic regime.

Areas which were obvious wetlands and areas sampled with three positive indicators of wetland setting are identified as wetlands and are included on the Wetland and Waters Plot Maps in Attachment A. Watercourses and wetlands were classified as either Seasonal (Intermittent and Ephemeral) or Perennial. ACOE wetland delineation forms were completed for each sampled plot. These forms are included as Attachment B.

Vegetation

The ACOE Manual (1987) directs that presence of a single individual of hydrophytic species does not mean that hydrophytic vegetation is present. However, hydrophytic vegetation is considered to be present if 50% of the dominant species have indicator status of OBL, FACW or FAC.

- Obligate (OBL)—usually occurs within a wetland (estimated probability 99%)
- Facultative-wet (FACW)—usually occurs in wetlands (estimated probability 67-99%)
- Facultative (FAC)—equally likely to occur in wetlands or non-wetlands (estimated probability 33-67%)
- Facultative-upland (FACU)—usually occurs in non-wetlands (estimated probability 1-33%)
- Upland (UPL)–occurs almost always in non-wetlands (estimated probability 99%)
- Non-Indicator (NI)-scored as an upland plant and calculated as such on wetland determination forms

Dominant species are determined by estimating those having the greatest percentage of cover using the "50/20" rule. The "50/20" rule entails that for each sample point and associated plant

community, dominant species are the most abundant species, when ranked in descending order of abundance and cumulatively totaled, that immediately exceed 50% of the total dominance measure for the stratum, plus any additional species comprising 20% or more of the total dominance measure for each stratum. Absolute cover contribution was estimated for each sample plot, due to layering of species and strata percent cover values may exceed 100%. For marginal sites the FAC neutral test and the Prevalence Index were also utilized, these calculations (shown on attached forms) further analyze vegetation community using all species in the plot not just the dominant species.

Soils

Current USDA soils maps were obtained from the USDA Web Soil Survey and are included in Attachment A. The project area falls into a soil map units labeled as: **Hookton-Tablebluff Complex 2-9% solpes and Lepoil-Candymountain Complex 2-15% slopes.** 3 soil pits were excavated during this investigation. Soil pits were used to determine whether areas contained soil processes indicative of a wetland condition.

Hydrology

Each observation point for determination and delineation of watercourse and wetland boundaries was examined for indicators of wetland hydrology. The entire study area was surveyed twice in 2022 with emphasis on indicators of wetland hydrology.

Indicators of wetland hydrology include drainage patterns, drift lines, sediment deposits, watermarks, and visual observations of saturated soils and/or inundation. Drainage patterns were determined by observing any signs of surface flow into or through the subject parcel throughout the survey period. Aerial imagery was used courtesy of Google Earth and Humboldt County Web GIS.

This study was conducted in March and July of 2022, a period with below average annual rainfall.

Results/Recommendations

Wetlands and Waters Delineation

The approximate 22.3-acre study area was surveyed in March and July of 2022, well-within the growing season in a year with below average rainfall.

No wetland or watercourse features were found within the mapped study area.

Table 1 below contains a summary of the results of the 3 wetland plots installed during this investigation.

Table 1 Wetland Plot Results

Plot #	Vegetation	Soils	Hydrology	Wetland	Notes
					Top of shallow swale below irrigation
1	-	-	-	No	pipe
2	+	1	-	No	Midslope in small depressional feature
					Low point in field, just above Alder and
3	-		-	No	blackberry patch

Plot locations are included on the included Wetlands and Waters Plot Map.

2022 is a year with below average rainfall.

Recommendations

No wetlands or watercourses were detected within the study area, no recommendations for protection or mitigation measures are proposed.

Conditions and Limitations

This report is based on conditions observed and recorded within the mapped study areas during field visits in 2022. This report has not been reviewed nor has concurrence with the conclusions been obtained. Verification by agencies may be necessary in the future. Land use practices and regulations can change thereby affecting conditions and delineation results described herein.

This report and accompanying maps and data should be transmitted to the appropriate agents for review and included in any application for permits necessary for completion of any proposed development projects on the subject property.

The location and extent of mapped features is approximate. Maps are not to scale. In field survey and monumentation of pertinent features for buffering or mitigation planning may be required prior to the initiation of permitted activities.

Significance of wetlands and the necessity for mitigation during development is decided by regional agents of the appropriate federal, state, and local agencies if and when the site is reviewed for permitting purposes.

This report was prepared for exclusive use; consultants are not liable for any actions arising out of the reliance of any third party on the information contained in this report.

Please feel free to call with any questions.

James Regan

Botanist/Wetland Delineator

707-845-0821

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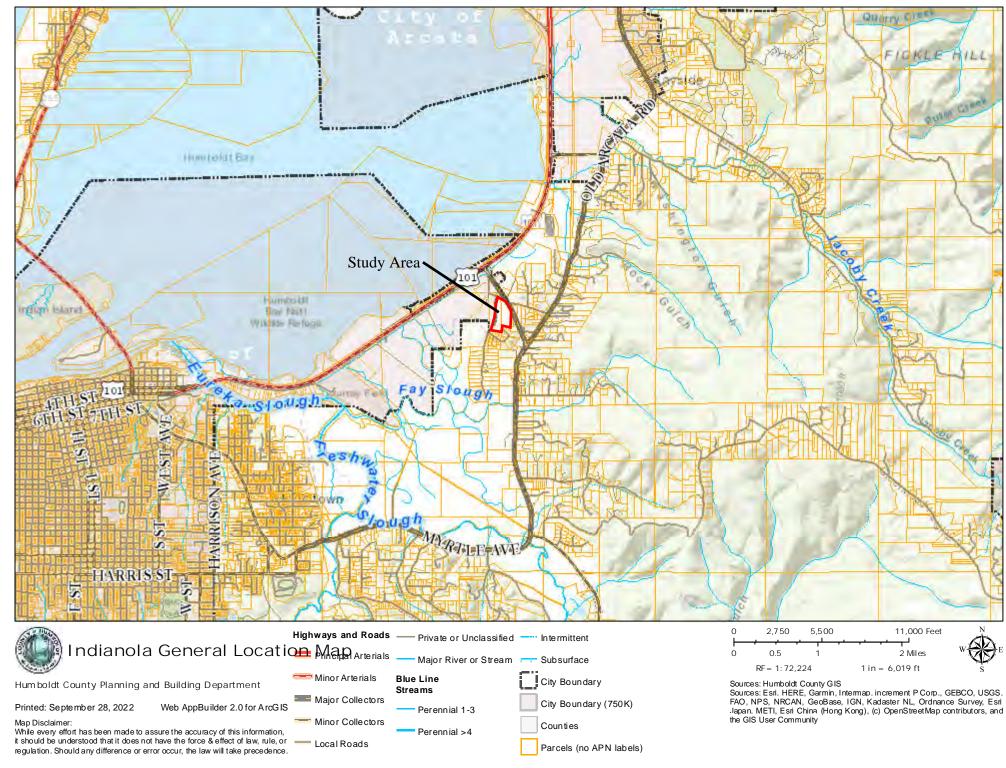
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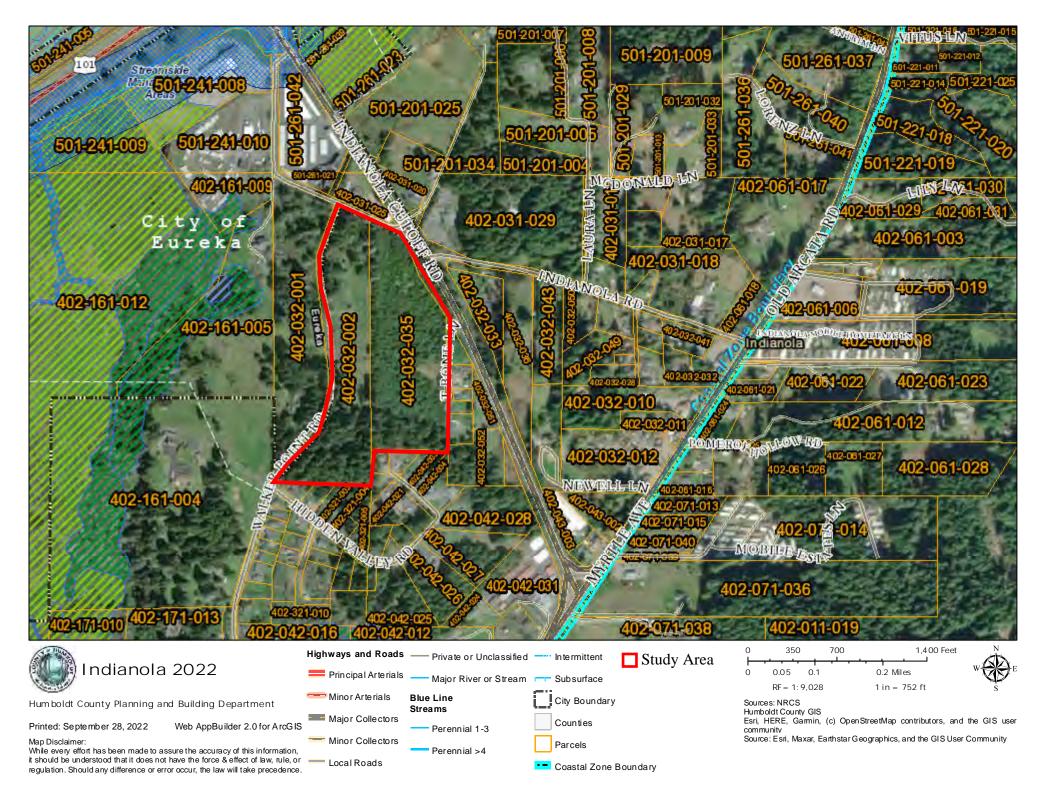
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Attachment A

General Location Map, Humboldt County Parcel Map, USFWS Wetland Map, USGS Soil Report, Wetland and Waters Plot Map



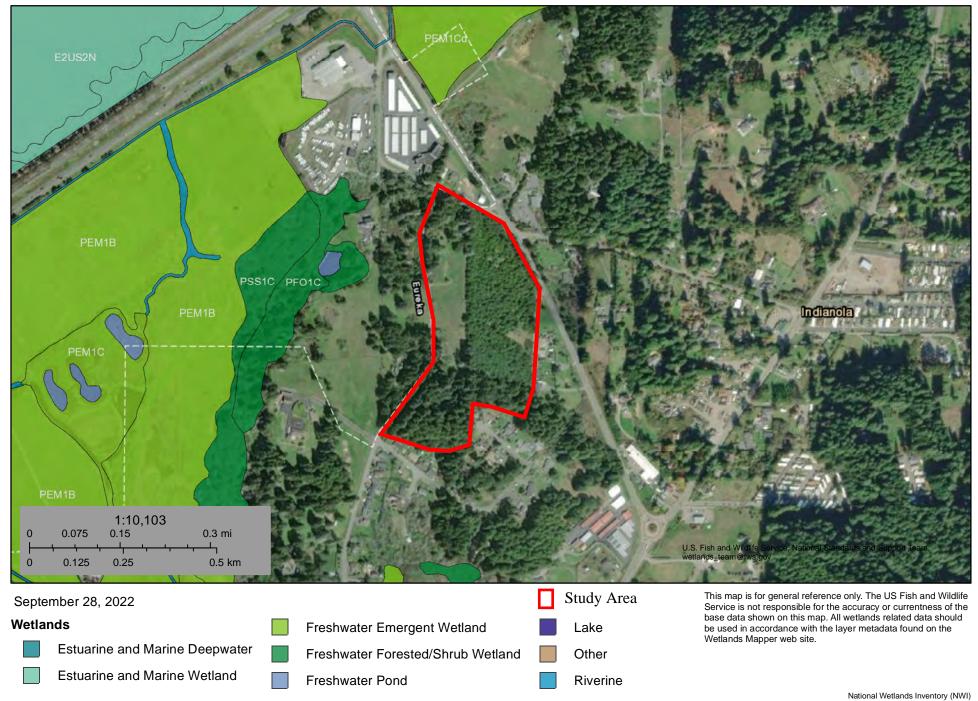
Page 12 of 25

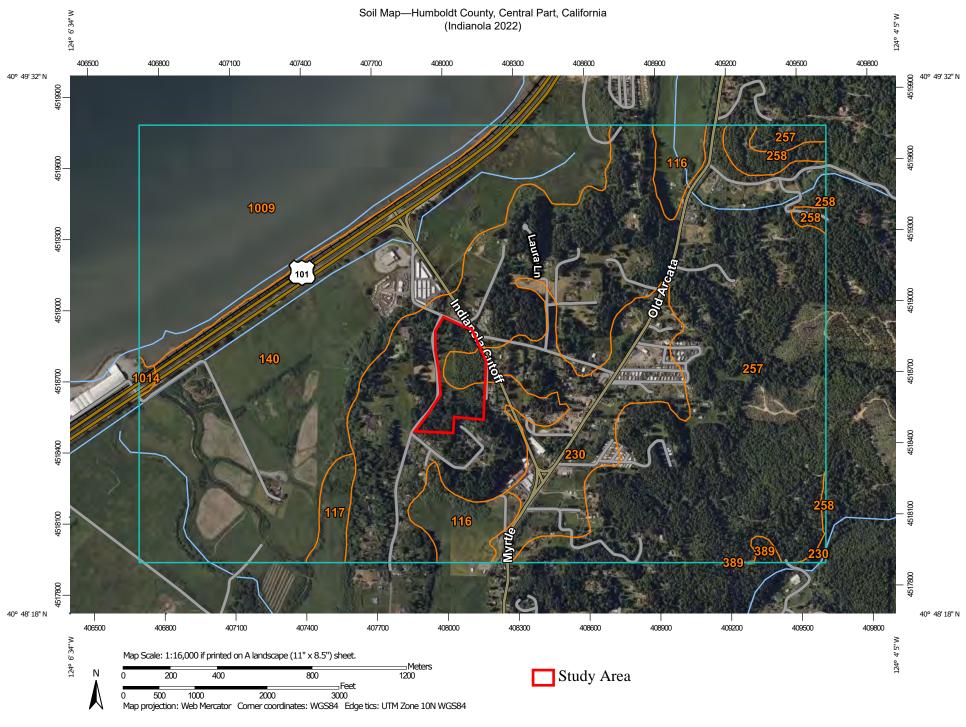


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U.S. Fish and Wildlife Service National Wetlands Inventory

Indianola 2022





MAP LEGEND

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Water Features

Transportation

Background

Spoil Area

Stony Spot

Wet Spot

Other

Rails

US Routes

Major Roads

Local Roads

Very Stony Spot

Special Line Features

Streams and Canals

Interstate Highways

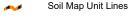
Aerial Photography

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Candfill

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

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:24.000.

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: Humboldt County, Central Part, California

Survey Area Data: Version 7, Sep 6, 2021

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

Date(s) aerial images were photographed: Jun 1, 2022—Jun 19, 2022

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
116	Swainslough, 0 to 2 percent slopes	42.2	3.2%
117	Swainslough-Occidental complex, 0 to 2 percent slopes	13.9	1.0%
140	Occidental, 0 to 2 percent slopes	345.6	25.9%
230	Hookton-Tablebluff complex, 2 to 9 percent slopes	115.5	8.7%
257	Lepoil-Candymountain 593.4 complex, 2 to 15 percent slopes		44.5%
258	Lepoil-Espa-Candymountain complex, 15 to 50 percent slopes	15.6	1.2%
389	Salmoncreek-Rootcreek complex, 30 to 50 percent slopes	2.5	0.2%
1009	Hydraquents-Wassents mucky silt loam, strongly saline, 0-3 percent slopes, very frequently flooded	201.6	15.1%
1014	Urban land-Anthraltic Xerorthents association, 0 to 2 percent slopes	2.0	0.1%
Totals for Area of Interest	·	1,332.4	100.0%



Attachment B ACOE Wetland Plot Forms

WETLAND DETERMINATION D	ATA FORM -	Western Mou	ntains, Valleys, and Coast Region
Project/Site: Indianda 7022	City/	County: Humb	sld+ (s. Sampling Date: 9/25/21 + 3/12
Applicant/Owner, Security Natal. 10145 407	1-032-002+	402-032-03	5 State: CA Sampling Point: Not 1
Investigator(s): James Regan			
· · · · · · · · · · · · · · · · · · ·			convex, none): Concase / Pat Slope (%):0-15%
\$			Long: Datum:
Soil Map Unit Name: Hakton-Takbluff Condex	7-97 +Leod	1-Codypain 2	15% NWI classification: NA
Are climatic / hydrologic conditions on the site typical for the		7.	
			"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology	-		
			ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	1/		
Hydric Soil Present? Yes		Is the Sampled	Area
Wetland Hydrology Present? Yes		within a Wetlar	nd? Yes No
Remarks: Below AvecaGE Rainfall	New Address of the Second	- Marie (1971) (Andréis) (Ann an Aire Ann an Aire	
VEGETATION – Use scientific names of plan	nts.		
- W. I		ninant Indicator	Dominance Test worksheet:
1. ABLES gradus	% Cover Spe	FACU	Number of Dominant Species
2.		INCO	That Are OBL, FACW, or FAC: (A)
3.			Total Number of Dominant Species Across All Strata: (B)
4.		- in the second	
Sapling/Shrub Stratum (Plot size: 10md)	15 % = To	tal Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: 502 (A/B)
1.			Prevalence Index worksheet:
2.		And the second state of the second se	Total % Cover of: Multiply by:
3. 400-201-00-00-00-00-00-00-00-00-00-00-00-00-0	· · · · · · · · · · · · · · · · · · ·		OBL species O x1 = O
4			FACW species $\frac{O}{78}$ $\times 2 = \frac{O}{734}$
5.	~ ·	tal Cover	FAC species $\frac{48}{40}$ $\times 3 = \frac{234}{160}$ FACU species $\frac{40}{40}$ $\times 4 = \frac{160}{160}$
Herb Stratum, (Plot size:)	- 10	cai Cover	UPL species O x5= O
1. Iteles conorts	<u>60%</u>	fac	Column Totals: 118 (A) 394 (B)
2. Anthoxonten oderation	<u> 20% Y</u>	<u>FACU</u>	
3. Ruma acetalla	- 5% -	-FACU	Prevalence Index = B/A =
4. Ageotis IP. (Stelentia or Capillais)	10%	<u> Fac</u>	Hydrophytic Vegetation Indicators:
5			Dominance Test is >50% Prevalence Index is ≤3.0³
6			Morphological Adaptations¹ (Provide supporting
8			data in Remarks or on a separate sheet)
9			Wetland Non-Vascular Plants¹
10.			Problematic Hydrophytic Vegetation ¹ (Explain)
11			Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
V). 1	95% = Tot	al Cover	we begann attices distribed of bronetifation
Woody Vine Stratum (Plot size: Und)			
1. Rubis ormeniacis		FAC	Hydrophytic Vegetation
4	8% = Tot	al Cover	Present? Yes No
% Bare Ground in Herb Stratum	<u> </u>	ai COVEI	
Remarks:			

US Army Corps of Engineers

Western Mountains, Valleys, and Coast - Interim Version

Sampling Point: Pd-I

(inches) Color (m			ox Features	<u> </u>				
	77	Color (moist)	%	Type ¹	_Loc ²	Texture	Remarks	3
1/1 10/23/	2-7/3 100					loamy day		
						(
							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
							· · · · · · · · · · · · · · · · · · ·	<u> </u>
/pe: C=Concentration, dric Soil Indicators: (J=Depletion, R Applicable to	M=Reduced Matrix, C	S=Covered	or Coated	Sand G		on: PL=Pore Lining,	
Histosol (A1)	Applicable to			u.)			for Problematic Hyd	iric Soils";
Histic Epipedon (A2)		Sandy Redox (Stripped Matrix	•				uck (A10)	
Black Histic (A3)		Loamy Mucky		(excent	MIRA:1\		rent Material (TF2) nallow Dark Surface	/TE49)
Hydrogen Sulfide (A4)		Loamy Gleyed					Explain in Remarks)	
Depleted Below Dark		Depleted Matri		- '			=xpiair ir regiaika).	·
Thick Dark Surface (A		Redox Dark Su	rface (F6)				of hydrophytic vegeta	ition and
Sandy Mucky Mineral		Depleted Dark		·)			hydrology must be pr	
Sandy Gleyed Matrix (Redox Depress	sions (F8)	1		unless d	sturbed or problema	tic.
strictive Layer (if pres	ent):						4	
Type:								
Depth (inches):						Hydric Soil Pre	sent? Yes	_ No <u>~~</u>
DROLOGY	· · · · · · · · · · · · · · · · · · ·							
tland Hydrology Indica					· · · · · · · · · · · · · · · · · · ·	le da un come que a su fu la		
tland Hydrology Indica		red; check all that appl	y)		The Library		y Indicators (2 or mo	re required)
tland Hydrology Indica nary Indicators (minimu			y) ned Leaves	6 (B9) (ex		Secondar	y Indicators (2 or mo	
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tland Hydrology Indica näry Indicators (minimu Surface Water (A1) High Water Table (A2) Saturation (A3)		Water-Stai MLRA Salt Crust	ned Leaves 1, 2, 4A, an (B11)	d 4B)		Secondar Wate	y Indicators (2 or mo	
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WEILAND DETERMINATION	DATA FORM - Western Mo	untains, Valleys, and Coast Region
Project/Site: Indianda 7022	City/County: \Lin	Sampling Date: 9/25/24 + 3//2 35 State: CA Sampling Point: 0 of 2
Applicant/Owner Beauty Natal. 10N#5 4	02-032-002+402-032-0	35 State: CA Sampling Date: 4700 4 4010
Investigator(s): James Regan	Section, Township, F	Range:
Landform (hillslope, terrace, etc.): 12/6/2	Local relief (concave	convex homes Course IC+
Subregion (LRR):	Lat	Tong: Slope (%): U-1-3 Z
Subregion (LRR): <u>À</u> Soil Map Unit Name: <u>Hakkon-Tall.Huff Cond</u>	x 2-97 + Legal - (mlassin	P452 NIM description and
Are climatic / hydrologic conditions on the site typical fo	rihis time of year? Yes No.	X (If a wall-day file)
Are Vegetation, Soil, or Hydrology		s "Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology		needed, explain any answers in Remarks.)
		locations, transects, important features, etc.
Hydrophytic Vegetation Present?	No Is the Sample	nd Area
Remarks: Below Average Rainfell		
VEGETATION – Use scientific names of p	ants.	
Tree Stratum (Plot size: Wm.1)	Absolute Dominant Indicator	Dominance Test worksheet:
1	% Cover Species? Status	Number of Dominant Species Z That Are OBL, FACW, or FAC: (A)
2		The fact of the second of the
3		Total Number of Dominant Species Across All Strata: (B)
4		The state of the s
Sapling/Shrub Stratum (Plot size; 10md)		Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
<u> 1</u> ,		Prevalence Index worksheet:
4.		Total % Cover of: Multiply by:
k		OBL species x1 =
		FACW species x 2 =
		FAC species x 3 =
lerb Stratum (Plot size: [WW])	= Total Cover	FACU species x4=
. Italies lonates	75% Y 80C	ÜPL species x 5 =
. As each so. (Stolonto or ciallis)	25% Y FAC	Column Totals: (A) (B)
Arthritath oderation	5% TROU	Prevalence Index = B/A =
		Hydrophytic Vegetation Indicators:
		Dominance Test is >50%
		Prevalence Index is ≤3.0 ¹
		Morphological Adaptations (Provide supporting
	The state of the s	data in Remarks or on a separate sheet)
	······································	— Wetland Non-Vascular Plants
0		Problematic Hydrophytic Vegetation (Explain) Indicators of hydric soil and wetland hydrology must
1		be present, unless disturbed or problematic
loody Vine Stratum (Plot size Wad)	(05 = Total Cover	The state of the s
		Hydrophytic
*		Vegetation Present? Yes No
	in Takal Carra	The state of the s
Bare Ground in Herb Stratum	= Total Cover	,

US Army Corps of Engineers

Western Mountains, Valleys, and Coast - Interim Version

Sampling Point: Plat Z

Depth Matrix (inches) Color (moist) %	Redox Features			
$\frac{\text{(Inches)}}{2} \frac{\text{Color (moist)}}{\text{Cop } 3/2 - 3/3} \frac{\%}{100}$	Color (moist) % Type	Loc²	Texture Clay loan	Remarks
Times C-C				
Type: C=Concentration, D=Depletion, R Hydric Soil Indicators: (Applicable to a	M=Reduced Matrix, CS=Covered or Co. III LRRs, unless otherwise noted.)	ated Sand Gr	ains. ² Location	: PL=Pore Lining, M=Matrix. r-Problematic Hydric Soils ³ :
Histosol (A1)	Sandy Redox (S5)		2 cm Mud	
Histic Epipedon (A2)	Stripped Matrix (S6)	••	Red Pare	nt Material (TF2)
Black Histic (A3)	Loamy Mucky Mineral (F1) (exce	pt MLRA 1).	Very Sha	low Dark Surface (TF12).
Hydrogen Sulfide (A4)Depleted Below Dark Surface (A11)	Loamy Gleyed Matrix (F2)		Other (Ex	plain in Remarks)
Thick Dark Surface (A12)	Depleted Matrix (F3) Redox Dark Surface (F6)		100000000000000000000000000000000000000	
Sandy Mucky Mineral (S1)	Depleted Dark Surface (F7)	46	Indicators of	nydrophytic vegetation and
Sandy Gleyed Matrix (S4)	Redox Depressions (F8)	•	wetland hy	drology must be present,
estrictive Layer (if present):			uniess dist	irbed or problematic.
Type:				•
Depth (inches):			Hydric Soil Prese	
DROLOGY				
etland Hydrology Indicators:			Status to the section of the State of the St	
DROLOGY etland Hydrology Indicators: imary Indicators (minimum of one require		. <u> </u>	Secondary i	ndicators (2 or more required)
etland Hydrology Indicators: Imany Indicators (minimum of one require Surface Water (A1)	Water-Stained Leaves (B9) (. <u> </u>	Secondary i	ndicators (2 or more required) tained Leaves (B9) (MLRA 1
etland Hydrology Indicators: imary Indicators (minimum of one require Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B)	. <u> </u>	Secondary I Water-S	ndicators (2 or more required) tained Leaves (B9) (MLRA 1, 2
etland Hydrology Indicators: Imary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Salt Crust (B11)	. <u> </u>	Secondary I Water-S 4A, a	tained Leaves (B9) (MLRA 1, 2
etland Hydrology Indicators: imary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13)	. <u> </u>	Secondary I Water-S 4A, a	tained Leaves (B9) (MLRA 1, 2 ind 4B)
etland Hydrology Indicators: Imary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1)	except	Secondary I Water-S 4A, a Drainag Dry-Sea Saturatio	tained Leaves (B9) (MLRA 1, 2 and 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (C
etland Hydrology Indicators: Imary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along	except	Secondary I Water-S 4A, a Drainag Dry-Sea Saturatic (C3) Geomor	tained Leaves (B9) (MLRA 1, 2 and 4B) e Patterns (B10) son Water Table (C2) on Visible on Aerial Imagery (Ca phic Position (D2)
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etland Hydrology Indicators: Imany Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C Recent Iron Reduction in Tille	except Living Roots 4) d Soils (C6)	Secondary I Water-S 4A, a Drainag Dry-Sea Saturation (C3) Geomor Shallow FAC-Nei	tained Leaves (B9) (MLRA 1, 2 and 4B) Patterns (B10) Son Water Table (C2) On Visible on Aerial Imagery (Caphic Position (D2) Aquitard (D3) utral Test (D5)
etland Hydrology Indicators: imary Indicators (minimum of one require _ Surface Water (A1) _ High Water Table (A2) _ Saturation (A3) _ Water Marks (B1) _ Sediment Deposits (B2) _ Drift Deposits (B3) _ Algal Mat or Crust (B4) _ Iron Deposits (B5) _ Surface Soil Cracks (B6)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Salt Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C Recent Iron Reduction in Tille Stunted or Stressed Plants (D	except Living Roots 4) d Soils (C6)	Secondary I Water-S 4A, a Drainag Dry-Sea Saturation (C3) Geomor Shallow FAC-Nei Raised A	tained Leaves (B9) (MLRA 1, 2 and 4B) Patterns (B10) Son Water Table (C2) On Visible on Aerial Imagery (Caphic Position (D2) Aquitard (D3) Utral Test (D5) And (LRR A)
etland Hydrology Indicators: Imary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Sait Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C Recent Iron Reduction in Tille Stunted or Stressed Plants (D Other (Explain in Remarks)	except Living Roots 4) d Soils (C6)	Secondary I Water-S 4A, a Drainag Dry-Sea Saturation (C3) Geomor Shallow FAC-Nei Raised A	tained Leaves (B9) (MLRA 1, 2 and 4B) Patterns (B10) Son Water Table (C2) On Visible on Aerial Imagery (Caphic Position (D2) Aquitard (D3) utral Test (D5)
etland Hydrology Indicators: imary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7 Sparsely Vegetated Concave Surface (B1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Sait Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C Recent Iron Reduction in Tille Stunted or Stressed Plants (D Other (Explain in Remarks)	Living Roots 4) d Soils (C6) 1) (LRR A)	Secondary I Water-S 4A, a Drainag Dry-Sea Saturation (C3) Geomor Shallow FAC-Nei Raised A	tained Leaves (B9) (MLRA 1, 2 and 4B) Patterns (B10) Son Water Table (C2) On Visible on Aerial Imagery (Caphic Position (D2) Aquitard (D3) Utral Test (D5) And (LRR A)
etland Hydrology Indicators: imary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7 Sparsely Vegetated Concave Surface (B1)	Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Sait Crust (B11) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Presence of Reduced Iron (C Recent Iron Reduction in Tille Stunted or Stressed Plants (D Other (Explain in Remarks)	Living Roots 4) d Soils (C6) 1) (LRR A)	Secondary I Water-S 4A, a Drainag Dry-Sea Saturation (C3) Geomor Shallow FAC-Nei Raised A	tained Leaves (B9) (MLRA 1, 2 and 4B) Patterns (B10) Son Water Table (C2) On Visible on Aerial Imagery (Caphic Position (D2) Aquitard (D3) Utral Test (D5) And (LRR A)
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WETLAND DETERMINATIO	N DATA FORM -	Western Mo	untains, Valleys, and Coast Region	
Project/Site: Indianda 7022	Citv/C	County: Ham	Sampling Date: 9/25/24 + 0 35 State: CA Sampling Point: 4 3	3/1.
Applicant/Owner Brown Watnl. 10145	402-032-002+	402-032-0	35 State: CA Sampling Date: 4764 47	SILE.
Investigator(s): JOINLA ICLAIN	Secti	ion, Township, R	lange:	
Landform (hillslope, terrace, etc.): Terrace	Loca	al relief (concave	i, convex, none); Concare Cat Slope (%); O-(1	
Subregion (LRR): A	trate.		- f Greeke	16
Soil Map Unit Name: Hakkan-Tablebuff Com	des 2-9% + Legió	1-Codemin	2452 NWI classification: 3.40	
Are climatic / hydrologic conditions on the site typical	for this time of year? Y	res No	X (If no explain in Pemarks)	· · · · · · · · · · · · · · · · · · ·
Are Vegetation, Soil, or Hydrology	significantly distur		*Normal Circumstances* present? Yes No	
Are Vegetation, Soil, or Hydrology			needed, explain any answers in Remarks.)	
			locations, transects, important features, etc.	Sec
Hydrophytic Vegetation Present? Yes	NoX	Is the Sample		7
Hydric Soil Present? Yes Wetland Hydrology Present? Yes		within a Wetla	18.7	
	1,100	The second secon		
Remarks: Below Average Rainfall		•		
VEGETATION – Use scientific names of	plants.			ا
Tree Stratum (Plot size: W))	Absolute Dom <u>% Cover</u> Spec	ninant Indicator	Dominance Test worksheet:	7
1. Alms ruba	<u>5%</u>	Cles / Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)	
2			V-Y	
<u> 3 </u>			Total Number of Dominant Species Across All Strata:	
4			A STATE OF THE PROPERTY OF THE	
Sapling/Shrub Stratum (Plot size; 10 nd)	<u>万%</u> =Tot	lal Cover	Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)	
1. Sambus racinga	10% 4	FACU.	Prevalence Index worksheet:	
2			Total % Cover of: Multiply by:	
3			ÖBL-species x1=	
4			FACW species x 2 =	
6,			FAC species x 3 =	
Herb Stratum (Plot size: [M]	10% = Tota	al Cover	FACU species x4 =	
1. Antowatton oderation	60% Y	FACU	UPL species x5=	
2. Itolais lonates	30% V	328	Column Totals: 143 (A)(B)	
3. Auestic 50.		FOC	Prevalence Index = B/A =	
4. Letcottemm vilgae	5%	FACU	Hydrophytic Vegetation Indicators:	1
5			Dominance Test is >50%	
6,		· · · · · · · · · · · · · · · · · · ·	Prevalence Index is ≤3.0¹	
7		***************************************	Morphological Adaptations (Provide supporting	
ğ. 9.	The second secon	nimuse (<u>nimuse (nimuse</u>)	data in Remarks or on a separate sheet) Wetland Non-Vascular Plants	
9	· · · · · · · · · · · · · · · · · · ·	Tank (Tank Tank Tank Tank Tank Tank Tank Tank	Problematic Hydrophytic Vegetation (Explain)	
11			Indicators of hydric soil and wetland hydrology must	
.	110% = Total	Jal	be present, unless disturbed or problematic.	
Woody Vine Stratum (Plot size: Und)		Çover		
1. Rubs ursinus	<u> 18% Y</u>	- Freu	Hydrophytic	
2.			Vegetation Present? Yes No	
•	= Total	Cover	L'resenri 162 NO 🔨	
% Bare Ground in Herb Stratum	Tulai	0010		Ŧ.

US Army Corps of Engineers

Western Mountains, Valleys, and Coast - Interim Version

Sampling Point; pot 3

Color (molet) S. Color (molet) S. Color (molet) S. Total Loc Tavitre Remarks C2-17. Loc 3/4-35 Ol Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covared or Couted Sand Grains. Location: PL=Pore Lining, MeMatrix, Plydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Pt=Pore Lining, MeMatrix, Plydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Pt=Pore Lining, MeMatrix, Plydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Pt=Pore Lining, MeMatrix, Plydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Pt=Pore Lining, MeMatrix, Plydric Soil Indicators for Pt=Pore Lining, MeMatrix, Plydric Soil Framework (SB) 2 c im Musc (A10) Red Parent Matrix (TF2) 2 color (Explain in Remarks) 3 color (Explain in Remarks) 4	Profile Description: (Description Matr	X		ox Features				
Description	4.					_Loc ²	<u>Textu</u> re	Remarks
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. *Location: PL=Pore Linky, MeMatrix, Vidric Soil Indicators (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Sandy Redox (S5) Histosol (A2) Siripped Matrix (S8) Black Histic, (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Depleted Dark Surface (F9) Sandy Mucky Mineral (S1) Depleted Dark Surface (F9) Sandy Mucky Mineral (S1) Depleted Dark Surface (F9) Sathricitive Layer (If present): Type: Depth (inches): Bedox Depressions (F8) Water Marks (A1) Water Saland Laves (B9) (except MLRA 1) Water Marks (B1) Aquatic Invertebrates (B13) Drinage Patterns (B10) Dry-Sasson Water Table (A2) Hydrogenstria (B1) Aquatic Invertebrates (B13) Dry-Sasson Water Table (A2) Hydropon Sulface (A01) Markar (B1) Aquatic Invertebrates (B13) Dry-Sasson Water Table (A2) Dry-Sasson Water Table (A2) Hydropon Sulface (A01) Dry-Sasson Water Table (A2) Dry-Sasson Water Table (A2) Dry-Sasson Water Table (A2) MRAA 1, 2, 4A, and 4B) Aquatic Invertebrates (B13) Dry-Sasson Water Table (A2) Saturation Visible on Agrial Imagery (B3) Dry-Sasson Water Table (C2) Saturation Visible on Agrial Imagery (B3) Dry-Sasson Water Table (C2) Saturation Visible on Agrial Imagery (B3) Dry-Sasson Water Table (C2) Saturation Visible on Agrial Imagery (B3) Dry-Sasson Water Table (C2) Saturation Visible on Agrial Imagery (B3) Dry-Sasson Water Table (C2) Saturation Visible on Agrial Imagery (B3) Dry-Sasson Water Table (C2) Saturation Visible on Agrial Imagery (B3) Dry-Sasson Water Table (C2) Saturation Visible on Agrial I	2-12 lap3/2-9	3 100					daylerea	Kernaria
Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Sandy Redox (S5) 2 cm Muck (A10) Red Profit Red							CICY WAX	
Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) 1 Sandy Redox (S5) 2 cm Muck (A10) 2 cm Muck (A10) 1 Redox Pedox (S5) 2 cm Muck (A10) 2 cm Muck								
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Histosol (A1) Sandy Redox (S5) 2 cm Muck (A10) Redox (S5) 2 cm Muck (A10) Redox (S5) 2 cm Muck (A10) Redox (S5) Red Parent Material (F172) Red Parent Material (F172) Very Shallow Dark Surface (T12) Very Shallow Dark Surfac								
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Histics (A1) Sandy Redox (S5) 2 cm Muck (A10) Redox (R56) 3 claim Mick (A10) Stripped Matrix (R56) 3 claim Mick (A10) 4 claim M	lydric Soil Indicators: (App	licable to al	I LRRs, unless other	wise note	d.)	i Sand Gr	indicator	ation: PL=Pore Lining, M=Matrix.
Histic Epipedon (AZ) Black Histic (A3) Loamy Mucky Mineral (F1) (except MLRA 1) Hydrogen Sulfide (A4) Loamy Mucky Mineral (F2) Depleted Below Dark Surface (A11) Depleted Matrix (F2) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S1) Depleted Matrix (F2) Sandy Mucky Mineral (S1) Depleted Matrix (F3) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) Sandy Gleyed Matrix (S4) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Dark Surface (F7) Sandy Gleyed Matrix (S4) Redox Depressions (F8) "Indicators of hydrophytic vegetation and wettand hydrology must be present, unless disturbed or problematic." "Indicators (Minimum of one required; check all that apphy) Surface Water (A1) Secondary Indicators; "Ima"y Indicators (minimum of one required; check all that apphy) Surface Water (A1) High Water Table (A2) Saturation (A3) Salt Crust (B11) MRA 1, 2, 4A, and 4B) Salt Crust (B11) Sediment Deposits (B2) Hydrogen Surfide Odor (C1) Drift Deposits (B3) Oxidized Rhizospheras along Living Roots (C3) Geomorphic Position (D2) Surface Soli Crack (B8) Inundation Visible on Aerial Imagery (S7) Sparsely Vegetated Concave Surface (B8) Id Observations: face Water Present? Yes No Depth (inches): Face Huntural Test (D5) Face Huntural Test (D6) Face					,			
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Hydric Soil Present? Depleted Below Dark Surface (A11) Depleted Matrix (F2) Depleted Below Dark Surface (A12) Sandy Mucky Mineral (S1) Sandy Mucky Mineral (S4) Sandy Mucky Mineral (S4) Redox Dark Surface (F8) Sandy Gleyed Matrix (S4) Redox Dark Surface (F8) Redox Dark Surface (F8) Sandy Gleyed Matrix (S4) Redox Dark Surface (F8) Redox Dark Surface (F8			Loamy Mucky N	lineral (F1)	(except l	MLRA:1)	Verv	Shallow Dark Surface (TE12)
Depleted Matrix (F3)			Loamy Gleyed I	Matrix (F2)			-	(Explain in Remarks)
Sandy Mucky Mineral (S1) Depleted Dark Surface (F7) wetland hydrology must be present, unless disturbed or problematic. Type: Depth (inches): Hydric Soil Present? Yes No Mater-Stained Leaves (B9) (except: Water-Stained Leaves (B9) (except: Water-Stained Leaves (B9) (MLRA 1, 2, 4A, and 4B) Aquatic Invertebrates (B13) Dry-Season Water Table (A2) Saturation (A3) Sail Crust (B4) Present (B13) Dry-Season Water Table (C2) Drift Deposits (B3) Oxidized Rhizospheres along Living Roots (C3) Geomorphic Position (D2) Surface Soil Crast (B4) Presence of Reduced Iron (C4) Shallow Aquatic Invertebrates (B10) Cross-Stained Leaves (B9) (Mater Table (C2) Saturation Visible on Aerial Imagery (C9 Surface Soil Crask (B6) Stunded or Stressed Plants (D1) (LRR A) Raised Ant Mounds (D6) (LRR A) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Prost-Heave Hummocks (D7) Present? Yes No Depth (inches): Water Present? Yes No Depth (inches): Water Brotons, if available:		ace (A11)					1 - 1 - 1 - 1 - 1	
Sandy Gleyed Matrix (S4)Redox Depressions (F8)		1 1200	Redox Dark Sur	face (F6)			³ Indicator	of hydrophytic vegetation and
Type:	Sandy Gleved Matrix (S4)) .		wetlan	d hydrology must be present,
Type:			Redox Depressi	ons (F8)	·····		unless	disturbed or problematic.
Depth (inches):								
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