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Appendix 5.2A Potential for Occurrence and Observed Species

Appendix 5.2A, Table 5.2A-1 Special-Status Plants with the Potential for Occurrence Elmore North Geothermal Project

				Blooming		
Scientific Name	Common Name	Family	ESA/CESA/CNPS ^a	Period	Habitat Requirements	Occurrence Potential ^b
Astragalus crotalariae	Salton milk-vetch	Fabaceae	None/None/CRPR 4.3	Jan-Apr	Perennial found in Sonoran desert scrub. May occur in saline soils. Known from clay flats, alkali sinks, mud flats, and roadsides.	Low Potential. Poor-quality suitable saline and alkaline habitat is present in BSA. Historical records of this speicies from 1985 are located within approximately 1 mile of the BSA. This species was not observed during protocol-level botanical surveys.
Astragalus insularis var. harwoodii	Harwood's milk-vetch	Fabaceae	None/None/CRPR 2B.2	Jan-May	Annual found in desert dunes, Mojave desert scrub, in gravel and sandy conditions. Commonly occurs on desert pavement. This species is not tolerant of saline conditions.	Not Expected. No suitable habitat in the BSA.
Astragalus sabulonum	Gravel milk-vetch	Fabaceae	None/None/CRPR 2B.2	Feb-Jun	Annual/Perennial found in desert dunes, Mojave and Sonoran desert scrub in flats, gravelly, sandy, wash conditions. Sometimes roadsides. This species is not known to occur in saline conditions.	Not Expected. No suitable habitat in the BSA.
Calliandra eriophylla	Desert fairy duster	Fabaceae	None/None/CRPR 2B.3	Feb-Mar	Perrenial found in Mojave desert scrub in sandy washes, slopes, and mesas.	Not Expected. No suitable habitat in the BSA.
Cylindropuntia munzii	Munz's cholla	Cactaceae	None/None/CRPR 1B.3	May	Perennial found in Sonoran desert scrub. This species is not tolerant of saline conditions.	Not Expected. No suitable habitat in the BSA.
Ditaxis claryana	Glandular ditaxis	Euphorbiaceae	None/None/CRPR 2B.2	Oct-Mar	Perennial found in Mojave and Sonoran desert scrub on limestone or carbonate substrait.	Not Expected. No suitable habitat in the BSA.
Euphorbia abramsiana	Abrams' spurge	Euphorbiaceae	None/None/CRPR 2B.2	(Aug) Sep- Nov	Annual found in Mojave and Sonoran desert scrub. Known to occur in sandy depressions after summer rainfall. May not tolerate saline soils.	Not Expected. No suitable habitat in the BSA.
Euphorbia arizonica	Arizona spurge	Euphorbiaceae	None/None/CRPR 2B.3	Mar-Apr	Perennial found in sandy Sonoran desert scrub. Known to occur in sandy depressions after summer rainfall. May not tolerate saline soils.	Not Expected. No suitable habitat in the BSA.
Euphorbia platysperma	Flat-seeded spurge	Euphorbiaceae	None/None/CRPR 1B.2	Feb-Sep	Annual found in desert dunes and Sonoran desert scrub. Known to occur in sandy depressions after summer rainfall. May not tolerate saline soils.	Not Expected. No suitable habitat in the BSA.
Herissantia crispa	Curly herissantia	Malvaceae	None/None/CRPR 2B.3	(Apr) Aug- Sep	Annual/perrenial found in Sonoran desert scrub. May occur in disturbed locations such as roadsides.	Not Expected. No suitable habitat in the BSA.
Hymenoxys odorata	Bitter hymenoxys	Asteraceae	None/None/CRPR 2B.1	Feb-Nov	Annual found in riparian scrub and Sonoroan desert scrub.	Not Expected. Riparian habitat in the BSA was along drains and canals and is not suitable habitat for this species. No known records in vicinity. This species was not observed during protocol-level botanical surveys.
Johnstonella costata	Ribbed cryptantha	Boraginaceae	None/None/CRPR 4.3	Feb-May	Annual found in desert dunes, and sandy Mojave and Sonoran desert scrub.	Not Expected. No suitable habitat in the BSA.
Juncus acutus ssp. leopoldii	Southwestern spiny rush	Juncaceae	None/None/CRPR 4.2	(Mar) May- Jun	Perennial found in alkaline seeps and meadows, coastal marshes and swamps, and coastal dunes.	Low Potential. Poor-quality suitable habitat is present in BSA. No records of this species in the BSA. This species was not observed during protocol-level botanical surveys.

Appendix 5.2A, Table 5.2A-1

Special-Status Plants with the Potential for Occurrence

Elmore North Geothermal Project

				Blooming		
Scientific Name	Common Name	Family	ESA/CESA/CNPS ^a	Period	Habitat Requirements	Occurrence Potential ^b
Juncus cooperi	Cooper's rush	Juncaceae	None/None/CRPR 4.3	Apr-May (Aug)	Perennial found in saline meadows and seeps.	Low Potential. Poor-quality suitable habitat is present in BSA. No records of this species in the BSA. This species was not observed during protocol-level botanical surveys.
Lycium torreyi	Torrey's box-thorn	Solanaceae	None/None/CRPR 4.2	(Jan-Feb) Mar-Jun (Sep-Nov)	Perennial shrub found in Mojave and Sonoran desert scrub.	Not Expected. No suitable habitat in the BSA.
Mirabilis tenuiloba	Slender-lobed four o'clock	Nyctaginaceae	None/None/CRPR 4.3	(Feb) Mar- May	Perennial found in Sonoran desert scrub.	Not Expected. No suitable habitat in the BSA.
Panicum hirticaule ssp. hirticaule	Roughstalk witch grass	Poaceae	None/None/CRPR 2B.1	Aug-Dec	Annual found in sandy, silty depressions in desert dunes, Mojave and Sonoran desert scrub, and Joshua tree woodlands.	Not Expected. No suitable habitat in the BSA.
Pilostyles thurberi	Thurber's pilostyles	Apodanthaceae	None/None/CRPR 4.3	Dec-Apr	Parasitic perennial found most commonly on host plant Emory's indigo bush (<i>Psorothamnus emoryi</i>). Emory's indigo bush may occur on sandy beaches, but this species is not tolerant of saline soils.	Not Expected. No suitable habitat in the BSA.
Salvia greatae	Orocopia sage	Lamiaceae	None/None/CRPR 1B.3	Mar-Apr	Perennial shrub found in Mojave and Sonoran desert scrub. Not known to occur in saline habitats.	Not Expected. No suitable habitat in the BSA.
Teucrium cubense ssp. depressum	Dwarf germander	Lamiaceae	None/None/CRPR 2B.2	Mar-May (Sep-Nov)	Annual found in desert dunes, playa margins, and Sonoran desert scrub.	Not Expected. No suitable habitat in the BSA. No records of this species in the BSA.

Notes:

^a Status Definitions:

CESA = California Endangered Species Act

ESA = Federal Endangered Species Act

CNPS = California Native Plant Act

CRPR = California Rare Plant Rank

1A = Presumed extinct from California

1B = Rare, threatened, or endangered in California and elsewhere

TD = Kare, tilleaterieu, or endangereu in Catronna and etsewile

2A = Extirpated in California, common elsewhere

2B = Rare, threatened, or endangered in California, but more common elsewhere

4 = Plants of Limited Distribution – A Watch List

Threat ranks:

0.1 = Seriously threatened in California (over 80% of occurrences threatened / high degree and immediacy of threat)

0.2 = Moderately threatened in California (20-80% occurrences threatened / moderate degree and immediacy of threat)

0.3 = Not very threatened in California (less than 20% of occurrences threatened / low degree and immediacy of threat or no current threats known)

b Potential for Occurrence definitions are provided in the body text (Section 5.2.1.5.1)

					Habitat Requirements	
Common Name	Scientific Name	CESA/ESA	CDFW Status ^a	Other Status ^b		Potential for Occurrence ^c
Invertebrates	Sciencine (value	CL3/1, L3/1	edi ii statas	o their otatas		Totalisation occurrence
Monarch butterfly	Danaus plexippus plexippus	None/FC	None	None	Migratory invertebrate. Monarchs in the southwest live in canyons or riparian areas. They lay their eggs on milkweed (Asclepias spp.), which caterpillars feed exclusively on. The adults will nectar on many other species besides milkweed.	Not Expected. No milkweed observed during botanical surveys of the BSA.
Fish				'		
Desert pupfish	Cyprinodon macularius	SE/FE	None	None	Desert ponds, springs, marshes and streams in Southern California.	Not Expected. No suitable habitat for this species in the BSA. This species is known to occur in the vicintiy, but the project will not impact any water ways.
Razorback sucker	Xyrauchen texanus	SE/FE	FP	None	Found in the Colorado river bordering California.	Not Expected. No suitable habitat for this species in the BSA.
Amphibians and Reptiles	•	•		<u>'</u>		
Couch's spadefoot	Scaphiopus couchii	None	SSC	None	Temporary desert rain pools that last at least 7 days, within water temps > 15C, and subterranean refuge sites close by.	Not Expected. No suitable habitat for this species in the BSA.
Flat-tailed horned lizard	Phrynosoma mcallii	None	SSC	None	Restricted to desert washes and desert flats in central riverside, eastern San Diego, and Imperial counties.	Not Expected. No suitable habitat for this species in the BSA.
Lowland leopard frog	Lithobates yavapaiensis	None	SSC	None	Were found along the Colorado river and in streams near the Salton sea.	Not Expected. No suitable habitat for this species in the BSA.
Mojave Desert tortoise	Gopherus agassizii	ST ^d /FT	None	None	Most commonly inhabits desert scrub, desert wash and Joshua tree habitats. The desert tortoise requires friable soil for burrow and nest construction and prefers creosote bush habitat and areas with wildflower blooms.	Not Expected. No suitable habitat for this species in the BSA.
Sonoran Desert toad	Incilius alvarius	None	SSC	None	Breeds in temporary pools and irrigation ditches along the Colorado River and Southern Imperial Valley.	Not Expected. One historical CNDDB occurrence from 1916, possibly extripated. The project will not impact any water ways.
Birds						
Black skimmer	Rynchops niger	None	SSC	USFWS - BCC	Nest on gravel, bars, low islets, and sandy beaches. CDFW SSC status for nesting only.	Not Expected: No suitable nesting habitat in BSA. This species is known from Refuge and historical CNDDB occurrence from 1998.
Black-tailed gnatcatcher	Polioptila melanura	None	WL	None	Primarily inhabits wooded desert wash habitats; also occurs in desert scrub habitat, especially in winter.	Not Expected: No suitable habitat in the BSA. Historical CNDDB occurrences from 1968 and before. This species is uncommon to fairly common in the Refuge.
Burrowing owl	Athene cunicularia	None	SSC	USFWS - BCC	Inhabits open, dry annual or perennial grasslands, desert and scrublands characterized by low growing vegetation.	Present: Suitable habitat, sign, and live owls were obserevd within the BSA during the March 2022 surveys. CNDDB occurrences of this species in the BSA.
California black rail	Laterallus jamaicensis cotumiculus	ST/None	FP	USFWS - BCC	Inhabits freshwater marshes, wet meadows, and shallow margins of saltwater marshes bordering larger bays.	Not Expected: Protocol-level rail surveys conducted in 2022 in BSA did not detect any California black rail.
California brown pelican	Pelecanus occidentalis californicus	Delisted/Delist ed	FP	None	Colonial nester on coastal islands just outside the surf line. Known to nest on Obsidian Butte and at mouth of Alamo River.	High potential: The BSA has no potential nesting or foraging (open water) for this species, but because of proximity to a known nesting colony on Obsidian Butte, this species would be expected to fly over the BSA. Nesting colongies also known from mouth of the Alamo River. Forages on open water of Salton Sea. CNDDB records of this species in BSA vicinity. This species was not observed during biological surveys of the BSA.

					Habitat Requirements	
Common Name	Scientific Name	CESA/ESA	CDFW Status ^a	Other Status ^b		Potential for Occurrence ^c
California gull	Larus californicus	None	WL	USFWS - BCC	Littoral waters, sandy beaches, waters and shorelines of bays, tidal mudflats, marshes, and lakes. CDFW WL status only for nesting.	Present. Species was incidentally observed during surveys within the BSA; however, no suitable nesting habitat is present in the BSA. Historical CNDDB occurrence from 1999 and before. This species is common to abundant in the Refuge year-round.
Cooper's hawk	Accipiter cooperii	None	WL	None	Nest sites mainly in woodland, riparian growths of deciduous trees. CDFW WL for nesting only.	Present: Species was incidentally observed during surveys within the BSA; however, no suitable nesting habitat is present in the BSA. This species is reported as uncommon in the Refuge. This species was incidentally observed during biological surveys of BSA.
Crissal thrasher	Toxostoma crissale	None	SSC	None	Resident of southeastern deserts in desert riparian and desert wash habitats	Not Expected: Historical CNDDB records from 1940-1960s of this species in BSA vicinity. This species is rare to very uncommon in the Refuge. No suitable riparian habitat in the BSA.
Gila woodpecker	Melanerpes uropygialis	SE/None	None	USFWS - BCC	In California, inhabits cottonwoods and other desert riparian trees, shade trees and date palms.	Not Expected. Historical CNDDB occurrences of this species from 1940-1950's. This species uncommon to fairly common in the Refuge. No suitable riparian habitat in the BSA.
Gray-headed junco	Junco hyemalis caniceps	None	WL	None	Summer resident of Clark Mountain (Eastern San Bernardino county) and Grapevine mountains (Inyo county). Nesting only.	Not Expected. Historical CNDDB occurrence from 1957. This species is rare to very uncommon in the Refuge.
Gull-billed tern	Gelochelidon nilotica	None	SSC	USFWS - BCC	Only known breeding colonies at San Diego bay and the Salton Sea. CDFW SSC status is for nesting only.	Not Expected. No suitable nesting habitat in the BSA. This species is known from the Refuge but only historical CNDDB occurrences from 1998 are present in BSA vicinity.
Le Conte's thrasher	Toxostoma lecontei	None	SSC	USFWS - BCC	Inhabits open desert wash, desert scrub, alkali desert scrub and desert succulent scrub habitat. This species commonly nests in dense, spiny shrub or densely branched cactus in desert wash habitat.	Not Expected. No suitable nesting habitat in BSA. CNDDB occurrence from 2009 in Refuge, but Refuge lists this species as extripated breeding habitat.
Loggerhead shrike	Lanius ludovicianus	None	SSC	None	Broken woodlands, savannah, pinyon-juniper, Joshua tree, and riparian woodlands, desert oases, scrub, and washes.	Low Potential. No suitable nesting habitat in BSA. CNDDB occurrence from 2007. The Refuge lists this species as occasional.
Long-billed Curlew	Numenius americanus	None	WL	None	Inhibits Great Basin grassland, meadow and seeps. Favors gravelly soils and gently rolling terrain, and agriculture. Breeds in upland shortgrass prairies and wet meadows. Winters in Imperial County. CDFW WL for nesting only.	Present. Species was incidentally observed during surveys within the BSA; however, no suitable nesting habitat is present in the BSA. No documented occurrences in CNDDB. Excluding the summer, long-billed curlew are reported as being common to abundant at the Refuge.
Merlin	Falco columbarius	None	WL	None	Seacoast, tidal estuaries, open woodlands, savannahs, edges of grasslands and deserts, farms, and ranches. Clumps of trees or windbreaks are required for roosting in open country.	Not Expected. No potentially suitable nesting habitat in BSA. CNDDB occurrences in desert scrub east of the BSA. Rare to very uncommonly present in Refuge.
Mountain plover	Charadrius montanus	None	SSC	USFWS - BCC	Inhabits Great Basin grassland and scrub, Mojavean desert scrub, and Sonoran desert scrub. Breeding sites located on cliffs. Forages far afield, even to marshlands and ocean shores. This species is known to overwinter and forage in agricultural lands in Imperial Valley.	Low Potential. No suitable breeding habitat in the BSA, but this species is known to forage and overwinter in agricultural lands. Numerous CNDDB occurrences in BSA vicinity. This species is uncommon to farily common in the Refuge. This species was not observed during biological surveys of the BSA.
Short-eared owl	Asio flammeus	None	SSC	USFWS - BCC	Found in swamp lands, both fresh and salt lowland meadows, irrigated alfalfa fields. CDFW SSC status for nesting only.	Low Potential. No suitable nesting habitat in the BSA. Historical CNDDB occurrence of this species from 1956. This species is rare to occassionally observed in the Refuge.

					Habitat Requirements	
Common Name	Scientific Name	CESA/ESA	CDFW Status ^a	Other Status ^b		Potential for Occurrence ^c
Southwestern willow flycatcher	Empidonax traillii extimus	SE/FE	None	None	Inhabits riparian woodlands in southern California.	Not Expected: No suitable habitat in BSA. One CNDDB occurrence in vicinity from 2007, and not reported from occurring in the Refuge.
Western Snowy Plover	Charadrius alexandrinus nivosus	None/FT	SSC	None	Inhabits Great Basin standing waters, sandy shore, and wetland habitats. Needs sandy, gravelly, or friable soils for nesting.	Not Expected: No suitable nesting habitat in BSA. One historical CNDDB occurrence of this species from 1999. This species is uncommon to fairly common in the Refuge.
White-faced lbis	Plegadis chihi	None	WL	None	Forages in fresh emergent wetland, wet meadows, and flooded/irrigated pastures and croplands. Nests in dense fresh emergent wetland. CDFW WL for nesting only.	Present. Species was incidentally observed during surveys within the BSA; however, no suitable nesting habitat is present in the BSA. Historical CNDDB occurrence from 1980. This species is common to abundant at the Refuge.
Yellow warbler	Setophaga petechia	None	SSC	USFWS - BCC	Riparian plant associations in close proximity to water. Also nests in montane shrubbery in open conifer forests in cascades and Sierra Nevada. CDFW SSC status for nesting only.	Low Potential. No suitable riparian nesting habitat in the BSA. Historical CNDDB occurrences of this species from the 1952. This species is common, abundant or occassionally known in the Refuge. This species was not observed during biological surveys of the BSA.
Yellow-breasted chat	Icteria virens	None	SSC	None	Summer resident inhabits riparian thickets of willow and salt cedar near watercourses. CDFW SSC status for nesting only.	Not Expected: No suitable riparian habitat in the BSA. Historical CNDDB occurrences of this species from the 1960s. This species is rare to very uncommon in the Refuge.
Yuma Ridgway's rail	Rallus obsoletus yumanensis	ST/FE	FP	None	Nests in freshwater marshes along the Colorado river and along the south and east ends of the Salton sea.	Not Expected: No suitable habitat identified in the BSA based on protocol-level rail surveys conducted 2022.
Mammals	'					•
American badger	Taxidea taxus	None	SSC	Fur bearing mammal	Most abundant in drier open stages of most shrub, forest, and herbaceous habitats, with friable soils in uncultivated land.	Low Potential. Historical CNDDB occurrences of this species from 1937. This species is known to occur on the Refuge. The BSA provides low quality suitable habitat. This species was not observed during biological surveys of the BSA.
Big free-tailed bat	Nyctinomops macrotis	None	SSC	None	Roosts in cliffs, rock crevices and some documentation of in buildings, caves, and tree cavities. This species prefers rocky and arid habitats including desert shrub, woodlands, evergreen forests, and riparian.	Low Potential. No CNDDB records of this species in vicinity, but this species is known to occur on the Refuge. No suitable roosting habitat other than low quality buildings. This species may forage on agricultural lands in BSA and vicinity. This species was not observed during biological surveys of the BSA.
Desert bighorn sheep	Ovis canadensis nelsoni	None	FP	None	Widely distributed from the White Mountains in Mono County to the Chocolate Mountains in Imperial County.	Not Expected: Historical CNDDB occurrence from 1986 near Chocolate Mountains. No suitable habitat in the BSA.
Desert kit fox	Vulpes macrotis arsipus	None	None	Fur bearing mammal	Inhabits open desert, shrubby, or shrub-grass habitat. This nocturnal species forages at night and typically resides in a den or burrow during the day.	Low Potential. No CNDDB records of this species in vicinity, but this species is known to occur on the Refuge. This species was not observed during biological surveys of the BSA.
California leaf-nosed boat	Macrotis californicus	None	SSC	None	Roost in caves, mines and buildings. Utilizes desert riparian habitat.	Low Potential. No CNDDB records of this species in vicinity, but this species is known to occur on the Refuge. No suitable roosting habitat other than low quality buildings. This species may forage on agricultural lands in BSA and vicinity. This species was not observed during biological surveys of the BSA.
Mexican long-tongued bat	Choeronycteris maxicana	None	SSC	None	Roosts in caves, mines, rock crevices, and abandoned buildings. Known to use thorn scrub, Palo Verde-saguaro desert, semi-desert grassland, oak woodland, tropical deciduous forests, and riparian vegetation.	Low Potential. No CNDDB records of this species in vicinity, but this species is known to occur on the Refuge. No suitable roosting habitat other than low quality buildings. This species may forage on agricultural lands in BSA and vicinity. This species was not observed during biological surveys of the BSA.

Appendix 5.2A, Table 5.2A-2

Special-Status Wildlife with the Potential for Occurrence Elmore North Geothermal Project

					Habitat Requirements	
Common Name	Scientific Name	CESA/ESA	CDFW Status ^a	Other Status ^b		Potential for Occurrence ^c
Pallid bat	Antrozous pallidus	None	SSC	None	Inhabits rocky canyons, open farmland, scattered desert scrub, grassland, shrubland, woodland, and mixed conifer forest.	Low Potential. Historical CNDDB occurrences of this species from 1994. This species is known to occur on the Refuge. No suitable roosting habitat. This species may forage on agricultural lands in BSA and vicinity. This species was not observed during biological surveys of the BSA.
Pocketed free-tailed bat	Nyctinomops femorosaccus	None	SSC	None	Variety of arid areas in southern California; pine juniper woodlands, desert scrub, palm oasis, desert wash desert riparian, etc.	Low Potential. Historical CNDDB occurrences of this species from 1994. This species is known to occur on the Refuge. No suitable roosting habitat. This species may forage on agricultural lands in BSA and vicinity. This species was not observed during biological surveys of the BSA.
Spotted bat	Euderma maculatum	None	SSC	None	Roosts in prominent rock features. Desert desert-scrub, pinyon-juniper woodland, ponderosa pine, mixed conifer forest, canyon bottoms, rims of cliffs, riparian areas, fields, and open pasture.	Low Potential. No CNDDB records of this species in vicinity, but this species is known to occur on the Refuge. No suitable roosting habitat other than low quality buildings. This species may forage on agricultural lands in BSA and vicinity. This species was not observed during biological surveys of the BSA.
Western mastiff bat	Eumops perotis californicus	None	SSC	None	Many open, semi-arid to arid habitats, including conifer and deciduous woodlands, coastal scrub, grasslands, chaparral, etc. Roosts in crevices in cliff faces, high buildings, trees, and tunnels.	Low Potential. Historical CNDDB occurrences of this species from 1994. No suitable roosting habitat. This species may forage on agricultural lands in BSA and vicinity. This species was not observed during biological surveys of the BSA.
Western yellow bat	Lasiurus xanthinus	None	SSC	None	Found in valley foothill riparian, desert riparian, desert wash and palm oasis habitats.	Low Potential. Historical CNDDB occurrences of this species from 1994. This species is known to occur on the Refuge. No suitable roosting habitat. This species may forage on agricultural lands in BSA and vicinity. This species was not observed during biological surveys of the BSA.
Yuma hispid cotton rat	Sigmodon hispidus eremicus	None	SSC	None	Along the Colorado river and in grass and agricultural areas near irrigation waters. Refuge literature indicates this species is relatively common in agricultural fields and moist habitats.	Moderate Potential. CNDDB occurrence of this species from 2008 in 1 mile buffer. This species is common in the Refuge. Moderate quality suitable habitat is present in the agricultural fields in BSA. This species was not observed during biological surveys of the BSA.

Caspian tern were included in CNDDB query but were not included in this analysis because their only spe

CESA = California Endangered Species Act

CDFW = California Department of Fish and Wildlife

ESA = Federal Endangered Species Act

FC = Federal Candidate for listing

FE = Federally Endangered

FT = Federally Threatened

FP = Fully Protected

SE = State Endangered

ST = State Threatened

SSC = Species of Special Concern

USFWS BCC = United State Fish and Wildlife Service Bird of Conservation Concern

c Potential for Occurrence definitions are provided in the body text (Section 5.2.1.5)

^a CDFW Status ^b Other Status

Appendix 5.2A, Table 5.2A-2 Special-Status Wildlife with the Potential for Occurrence Elmore North Geothermal Project

Scientific Name

CESA/ESA

Common Name

		Habitat Requirements	
CDFW Status ^a	Other Status ^b	Potential for Occurrence ^c	

d Desert tortoise are listed as CESA threatened. As of October 19, 2020, California Fish and Game Commission listed this species as candidate species for consideration as CESA endangered (2020).

Appendix 5.2A, Table 5.2A-3 **Observed Plant Species**

Family	Species Name	Common Name	Cal-IPC/CDFA/CCR 4500 Noxious Weed
Aizoaceae	Sesuvium verrucosum	Western sea-purslane	
Amaranthaceae	Allenrolfea occidentalis	lodine bush	
Amaranthaceae	Atriplex lentiformis	Big saltbush	
Amaranthaceae	Atriplex sp.	Saltbush species	
Amaranthaceae	Beta sp.	Beet (cultivated)	
Amaranthaceae	Chenopodium murale	Nettle lead goosefoot	
Amaranthaceae	Salsola tragus	Russian thistle	Cal-IPC Limited/CDFA C/Yes
Amaranthaceae	Suaeda nigra	Bush seepweed	
Amaryllidaceae	Allium sp.	Onion (cultivated)	
Arecaceae	Phoenix dactylifera	Date palm	
Arecaceae	Washingtonia filifera	California fan palm	
Asteraceae	Chloracantha spinosa	Spiny Chloracantha	
Asteraceae	Eclipta prostrata	False daisy	
Asteraceae	Helianthus annuus	Common sunflower	
Asteraceae	Laennecia coulteri	Coutler's horseweed	
Asteraceae	Pluchea sericea	Arrow-weed	
Asteraceae	Sonchus oleraceus	Common sow thistle	
Asteraceae	Xanthium strumarium	Cocklebur	
Boraginaceae	Heliotropium curassavicum	Seaside heliotrope, Alkali heliotrope	
Brassicaceae	Sisymbrium irio	London rocket	Cal-IPC Limited/None/None
Caryophyllaceae	Spergularia marina	Saltmarsh sand-spurrey	
Convolvulaceae	Cressa truxillensis	Alkali weed	
Cyperaceae	Bolboschoenus maritimus ssp.	Alkali bulrush	
Fabaceae	Acacia pycnantha	Golden wattle	Cal-IPC Watch/None/None
abaceae	Medicago sativa	Alfalfa (cultivated)	
abaceae	Melilotus albus	White sweetclover	
abaceae	Melilotus indicus	Sourclover	
abaceae	Parkinsonia florida	Palo verde	
abaceae	Prosopsis glandulosa	Honey mesquite	
Malvaceae	Malva parviflora	Cheeseweed, little mallow	
Malvaceae	Malvella leprosa	Alkali-mallow	
Myrtaceae	Eucalyptus sp.	Eucalyptus species	
Poaceae	Avena sativa	Oat (cultivated)	
Poaceae	Cynodon dactylon	Bermuda grass	Cal-IPC Moderate/None/None

Poaceae	Distichlis spicata	Salt grass	
Poaceae	Leptochloa fusca	Sprangletop	
Poaceae	Phalaris minor	Little-seeded canary grass	
Poaceae	Poa pratensis	Kentucky bluegrass	Cal-IPC Limited/None/None
Poaceae	Polypogon monspeliensis	Rabbitfoot grass	Cal-IPC Limited/None/None
Polygonaceae	Rumex fueginus	Golden dock	
Polygonaceae	Rumex obtusifolius	Bitter dock	
Rutaceae	Citrus limon	Lemon (cultivated	
Rutaceae	Citrus x sinensis	Orange (cultivated	
Tamaricaceae	Tamarix sp.	Salt cedar	Cal-IPC High/None/Yes
Typhaceae	Typha domingensis	Southern cattail	

Appendix 5.2A, Table 5.2A-4 Observed Wildlife Species

Elmore North Geothermal Project

Reptiles	Marcy's checkered garter snake Side-blotched lizard American avocet American coot American kestrel Barn swallow Black-crowned night heron Black phoebe Black-necked stilt Black-throated sparrow Burrowing owl * California gull * California quail Cattle egret Common raven Cooper's hawk * Costa's hummingbird	Thamnophis marcianus marcianus Uta stansburiana Recurvirostra americana Fulica americana Falco sparverius Hirundo rustica Nycticorax nycticorac Sayornis nigricans Himantopus mexicanus Amphispiza bilineata Athene cunicularia Larus californicus Callipepla californica Bubulcus ibis Corvus corax Accipiter cooperi		
Birds	American avocet American coot American kestrel Barn swallow Black-crowned night heron Black phoebe Black-necked stilt Black-throated sparrow Burrowing owl * California gull * California quail Cattle egret Common raven Cooper's hawk * Costa's hummingbird	Recurvirostra americana Fulica americana Falco sparverius Hirundo rustica Nycticorax nycticorac Sayornis nigricans Himantopus mexicanus Amphispiza bilineata Athene cunicularia Larus californicus Callipepla californica Bubulcus ibis Corvus corax		
Birds	American coot American kestrel Barn swallow Black-crowned night heron Black phoebe Black-necked stilt Black-throated sparrow Burrowing owl * California gull * California quail Cattle egret Common raven Cooper's hawk * Costa's hummingbird	Fulica americana Falco sparverius Hirundo rustica Nycticorax nycticorac Sayornis nigricans Himantopus mexicanus Amphispiza bilineata Athene cunicularia Larus californicus Callipepla californica Bubulcus ibis Corvus corax		
	American kestrel Barn swallow Black-crowned night heron Black phoebe Black-necked stilt Black-throated sparrow Burrowing owl * California gull * California quail Cattle egret Common raven Cooper's hawk * Costa's hummingbird	Falco sparverius Hirundo rustica Nycticorax nycticorac Sayornis nigricans Himantopus mexicanus Amphispiza bilineata Athene cunicularia Larus californicus Callipepla californica Bubulcus ibis Corvus corax		
	Barn swallow Black-crowned night heron Black phoebe Black-necked stilt Black-throated sparrow Burrowing owl * California gull * California quail Cattle egret Common raven Cooper's hawk * Costa's hummingbird	Hirundo rustica Nycticorax nycticorac Sayornis nigricans Himantopus mexicanus Amphispiza bilineata Athene cunicularia Larus californicus Callipepla californica Bubulcus ibis Corvus corax		
	Black-crowned night heron Black phoebe Black-necked stilt Black-throated sparrow Burrowing owl * California gull * California quail Cattle egret Common raven Cooper's hawk * Costa's hummingbird	Nycticorax nycticorac Sayornis nigricans Himantopus mexicanus Amphispiza bilineata Athene cunicularia Larus californicus Callipepla californica Bubulcus ibis Corvus corax		
	Black phoebe Black-necked stilt Black-throated sparrow Burrowing owl * California gull * California quail Cattle egret Common raven Cooper's hawk * Costa's hummingbird	Sayornis nigricans Himantopus mexicanus Amphispiza bilineata Athene cunicularia Larus californicus Callipepla californica Bubulcus ibis Corvus corax		
	Black-necked stilt Black-throated sparrow Burrowing owl * California gull * California quail Cattle egret Common raven Cooper's hawk * Costa's hummingbird	Himantopus mexicanus Amphispiza bilineata Athene cunicularia Larus californicus Callipepla californica Bubulcus ibis Corvus corax		
	Black-throated sparrow Burrowing owl * California gull * California quail Cattle egret Common raven Cooper's hawk * Costa's hummingbird	Amphispiza bilineata Athene cunicularia Larus californicus Callipepla californica Bubulcus ibis Corvus corax		
	Burrowing owl * California gull * California quail Cattle egret Common raven Cooper's hawk * Costa's hummingbird	Athene cunicularia Larus californicus Callipepla californica Bubulcus ibis Corvus corax		
	California gull * California quail Cattle egret Common raven Cooper's hawk * Costa's hummingbird	Larus californicus Callipepla californica Bubulcus ibis Corvus corax		
	California quail Cattle egret Common raven Cooper's hawk * Costa's hummingbird	Callipepla californica Bubulcus ibis Corvus corax		
	Cattle egret Common raven Cooper's hawk * Costa's hummingbird	Bubulcus ibis Corvus corax		
	Common raven Cooper's hawk * Costa's hummingbird	Corvus corax		
	Cooper's hawk * Costa's hummingbird			
	Costa's hummingbird	Accipiter cooperi		
	B 11	Calypte costae		
	Double-crested cormorant	Phalacrocorax auratus		
	European starling	Sturnus vulgaris		
	Great blue heron	Ardea herodias		
	Great egret	Casmerodius albus		
	Greater roadrunner	Geococcyx californianus		
	Great-tailed grackle	Quiscalus mexicanus		
	Ground dove	Columbina passerine		
	Inca dove	Columbina inca		
	Killdeer	Charadrius vociferus		
	Long-billed curlew *	Numenius americanus		
	Mallard	Anas platyrhynochos		
	Marsh wren	Cistothorus palustris		
	Mourning dove	Zenaida macroura		
	Northern harrier	Circus cyaneus		
	Northern shoveler	Spatula clypeata		
	Red-tailed hawk	Buteo jamaicensis		
	Red-winged blackbird	Agelaius phoeniceus		
	Ring-billed gull	Larus delawarensis		
	Rock pigeon	Columba livia		
	Rough-winged swallow	Stelgidopteryx serripennis		
	Ruddy duck	Oxyura jamaicensis		
	Sandhill crane	Grus canadensis		
	Snowy egret	Egretta thula		
	Snowy plover	Charadrius nivosus		
	Turkey vulture	Cathartes aura		
	Western meadowlark	Sturnella neglecta		
	White pelican	Pelecanus erythrorhynchos		
	White-faced ibis *	Plegadis chihi		
	Yellow-rumped warbler	Setophaga coronata		
Mammals	Bobcat	Lynx rufus		
	Botta's pocket gopher	Thomomys bottae		
	Coyote	Canis latrans		
	Racoon	Procyon lotor		
	Desert Cottontail	Sylvilagus audubonii		

^{*} This is a special-status wildlife species with more information provided in Appendix 5.2A.

Appendix 5.2B CNDDB Figures - Confidential

This Appendix is filed under a request for confidential designation

Appendix 5.2 B, Confidential Figures have been provided under a request for confidentiality.

Appendix 5.2C Aquatic Resource Delineation Documentation

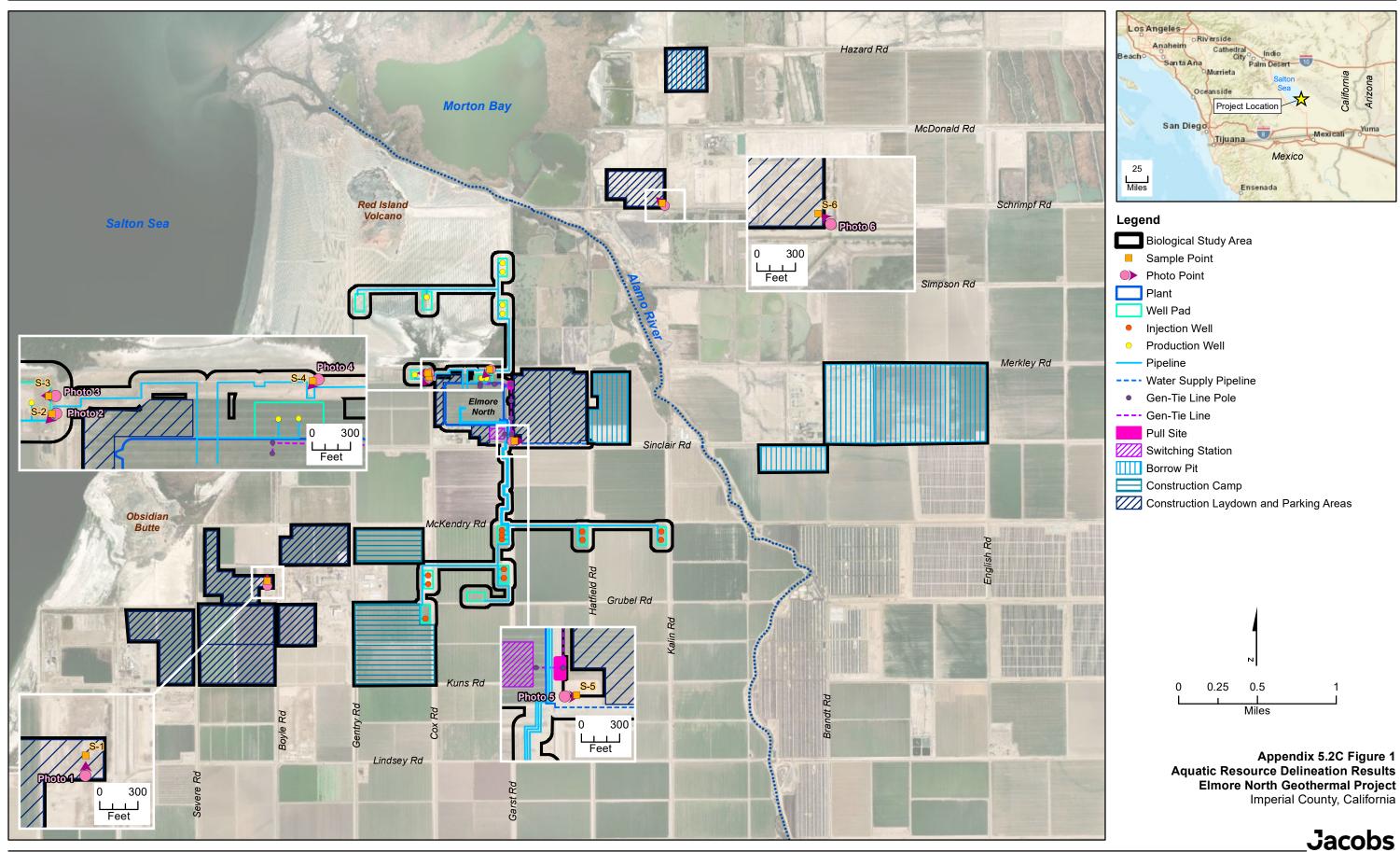




Photo 1: View to the north at **Sample Point 1.** Photo shows an area mapped by National Wetland Inventory (NWI) as excavated pond (PUSCx), but no wetland indicators are present.



Photo 2: View to the southwest at **Sample Point 2.** The area is NWI-mapped as PUSCx, but no indicators present.



Photo 3: View to the west at **Sample Point 3.** The area is NWI-mapped as PUSCx, but no wetland indicators are present.



Photo 4: View to the southwest at **Sample Point 4.** The area is NWI-mapped as PUSCx, but no indicators present.



Photo 5: View to the east at **Sample Point 5.** Photo shows an area mapped by NWI as PUSCx, but no wetland indicators are present.



Photo 6: View to the northwest at **Sample Point 6.** Photo shows an abandoned industrial pond mapped by NWI as PUSCx and by National Hydrography Dataset as an intermittent reservoir. No hydrology indicators are present and hydric soils are likely relictual.

Project/Site: Elmore North Geothermal Project	City/County: Imperial	County	Sampling Date: 3/1/22
Applicant/Owner: Elmore North Geothermal LLC		State: CA	Sampling Point: S-1
Investigator(s): R. Newton, R. John	Section, Township, Ra	nge: <u>S33 T 11S R13E</u>	
Landform (hillslope, terrace, etc.): <u>cleared dirt parking lo</u>	t? Local relief (concave,	convex, none): none	Slope (%):0
Subregion (LRR): <u>D</u> - Interior Deserts	Lat: 33.164214°	Long: -115.624017°	Datum: WGS84
Soil Map Unit Name: Holtville silty clay, wet		-	
Are climatic / hydrologic conditions on the site typical for this			
Are Vegetation _ ✓ _, Soil, or Hydrologys	•		oresent? Yes ✓ No
Are Vegetation, Soil, or Hydrology n		eded, explain any answe	<u></u>
SUMMARY OF FINDINGS – Attach site map			
	,		, ,
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No			,
Wetland Hydrology Present? Yes No		nd? Yes	No <u>√</u>
Remarks:			
Area mapped by NWI as a seasonally floode	d excavated pond (PUSCx), but no wetland i	ndicators are present.
The Antecedent Precipitation Tool determin		• •	-
VEGETATION – Use scientific names of plant			1 0
VEGETATION – Ose scientific flames of plant	Absolute Dominant Indicator	Dominance Test work	shoot:
Tree Stratum (Plot size:)	% Cover Species? Status	Number of Dominant Sp	
1			or FAC: (A)
2		Total Number of Domin	ant
3		Species Across All Stra	ta: (B)
4		Percent of Dominant Sp	pecies
Sapling/Shrub Stratum (Plot size:)	= Total Cover	That Are OBL, FACW,	or FAC:0 (A/B)
1		Prevalence Index wor	ksheet:
2		Total % Cover of:	Multiply by:
3		OBL species	x 1 =
4			x 2 =
5		*	x 3 =
Herb Stratum (Plot size: 5' radius)	= Total Cover		x 4 =
1		UPL species	X5 = (A) (B)
2		Column Totals.	(A) (B)
3		Prevalence Index	= B/A =
4		Hydrophytic Vegetation	
5		Dominance Test is	
6		Prevalence Index is	
7		data in Remarks	ptations ¹ (Provide supporting s or on a separate sheet)
8			phytic Vegetation¹ (Explain)
Woody Vine Stratum (Plot size:)	0 = Total Cover		
1			I and wetland hydrology must
2		be present, unless distu	irbed or problematic.
	= Total Cover	Hydrophytic	
% Bare Ground in Herb Stratum 100 % Cover	of Biotic Crust0	Vegetation Present? Yes	s No_ <u>√</u> _
Remarks:			
No vegetation present. Area has been clea	red of vegetation and ma	av serve as narking	for neighboring
industries.	ica or vegetation and me	ay serve as parking	TOT TICIBITIOTHIS

US Army Corps of Engineers

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth	Matrix			x Features	S1	. 2					
(inches)	Color (moist)	<u> </u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
0 - 18	7.5 YR 4/3	_ <u>100</u>					SiLo				
	_										
							·				
							· · · · · · · · · · · · · · · · · · ·				
				- ——							
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix.											
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ :											
Histosol	(A1)		Sandy Red	ox (S5)			1 cm Muck	k (A9) (LRR C)			
	ipedon (A2)		Stripped Ma					k (A10) (LRR B)			
Black His	stic (A3)		Loamy Muc	ky Minera	l (F1)		Reduced \	Vertic (F18)			
	n Sulfide (A4)		Loamy Gley		(F2)		Red Paren	nt Material (TF2)			
	Layers (A5) (LRR	C)	Depleted M	. ,			Other (Exp	olain in Remarks)			
	ck (A9) (LRR D)	(4.44)	Redox Dark	,	,						
	Below Dark Surfac	e (A11)	Depleted D				31-41-44-4-46				
	rk Surface (A12) lucky Mineral (S1)		Redox Dep Vernal Pool		-8)			nydrophytic vegetation a rology must be present			
-	leyed Matrix (S4)		vernari oor	3 (1 3)			-	rbed or problematic.	,		
	ayer (if present):										
_	, , ,										
• • •	ches):						Hydric Soil Pre	esent? Yes	No ✓		
Remarks:							11,4110 0011110				
rtomanto.											
HYDROLO	GY										
Wetland Hyd	rology Indicators:										
Primary Indic	ators (minimum of o	one required;	check all that appl	y)			Secondar	ry Indicators (2 or more	required)		
Surface \	Water (A1)		Salt Crust	(B11)			Wate	r Marks (B1) (Riverine))		
High Wa	ter Table (A2)		Biotic Crus	st (B12)			Sedin	ment Deposits (B2) (Riv	verine)		
Saturatio	on (A3)		Aquatic In	vertebrate	s (B13)		Drift [Deposits (B3) (Riverine	•)		
Water Ma	arks (B1) (Nonriver	rine)	Hydrogen	Sulfide Od	dor (C1)		Drain	age Patterns (B10)			
Sedimen	it Deposits (B2) (No	nriverine)	Oxidized F	Rhizosphe	res along	Living Roo	ots (C3) Dry-S	Season Water Table (Ca	2)		
Drift Dep	osits (B3) (Nonrive	rine)	Presence	of Reduce	d Iron (C	4)	Crayf	fish Burrows (C8)			
Surface	Soil Cracks (B6)		Recent Iro	n Reduction	on in Tille	d Soils (C6	6) Satur	ration Visible on Aerial I	magery (C9)		
Inundation	on Visible on Aerial	Imagery (B7)	Thin Muck	Surface (C7)		Shallo	ow Aquitard (D3)			
Water-St	tained Leaves (B9)		Other (Exp	olain in Re	marks)		FAC-	Neutral Test (D5)			
Field Observ	/ations:										
Surface Water	er Present?	'es N	o <u>√</u> Depth (in	ches):							
Water Table	Present? Y	'es N	o <u>√</u> Depth (in	ches):							
							and Hydrology Pr	resent? Yes	No <u>√</u>		
(includes cap			the also as a second second at	-14			9 9 - b 1				
Describe Red	corded Data (stream	n gauge, mon	itoring well, aerial	pnotos, pr	evious ins	spections),	if available:				
Remarks:											

Project/Site: Elmore North Geothermal Project	(City/County: Imperia	County	_ Sampling Date:	3/1/22
Applicant/Owner: Elmore North Geothermal LLC			State: CA	_ Sampling Point:	S-2
Investigator(s): R. Newton, R. John	;	Section, Township, Ra	ange: <u>S33 T 11S R13E</u>		
Landform (hillslope, terrace, etc.): <u>manmade terrace</u>		Local relief (concave,	convex, none): none	Slope	e (%): <u>0</u>
Subregion (LRR): D - Interior Deserts	Lat: <u>33</u> .	162224°	_ Long: <u>-115.631193°</u>	Datum	WGS84
Soil Map Unit Name: Imperial-Glenbar silty clay loa	ıms, wet, 0 to	2 percent slopes	NWI classif	ication: PUSCx	
Are climatic / hydrologic conditions on the site typical for	r this time of yea	ar? Yes No	√ (If no, explain in !)	Remarks.)	
Are Vegetation, Soil, or Hydrology					No
Are Vegetation, Soil, or Hydrology					_ '
SUMMARY OF FINDINGS – Attach site ma					tures, etc.
			<u> </u>		·
	No <u>✓</u> No <u>✓</u>	Is the Sample			
Wetland Hydrology Present? Yes		within a Wetla	nd? Yes	No <u>√</u>	
Remarks:					
Area mapped by NWI as PUSCx, but no w	vetland indi	rators are nreser	nt The Antecedent	Precinitation T	ool
determined the area was drier than norm			it. The filteredent	. r recipitation r	501
		e o. sabB.			
VEGETATION – Use scientific names of p		Danie ant Indiantan	T. D	deale and	
Tree Stratum (Plot size:)	% Cover	Dominant Indicator Species? Status	Number of Dominant S		
1			That Are OBL, FACW		(A)
2.			Total Number of Domi	nant	
3			Species Across All Str		(B)
4			Percent of Dominant S	Species	
Sapling/Shrub Stratum (Plot size: 15' radius)		= Total Cover	That Are OBL, FACW		(A/B)
1. Atriplex lentiformis	20	Y FACU	Prevalence Index wo	rksheet:	
2.			Total % Cover of:	Multiply b	oy:
3			OBL species	x 1 =	
4			FACW species	x 2 =	
5			FAC species		
Herb Stratum (Plot size:)	20	= Total Cover	FACU species 20		
1			•	x 5 =	
2			Column Totals:2	<u>20</u> (A) <u> </u>	(B)
3.			Prevalence Inde	x = B/A = 4.0	<u> </u>
4.			Hydrophytic Vegetat	ion Indicators:	
5			Dominance Test i		
6			Prevalence Index		
7			Morphological Add	aptations	
8			Problematic Hydro	•	•
Woody Vine Stratum (Plot size:)		= Total Cover			, ,
1			¹ Indicators of hydric so		
2			be present, unless dis	turbed or problematic	
		= Total Cover	Hydrophytic		
% Bare Ground in Herb Stratum 100 % C	over of Biotic Ci	rust0	Vegetation Present? Y	es No_ <u>√</u>	
Remarks:					<u> </u>

	ription: (Describe	to the depth				or confirn	n the absence	e of indicators.)		
Depth (inches)	Matrix Color (moist)	%	Redo Color (moist)	x Features	s _Type ¹	Loc ²	Texture	Remarks		
0 - 3	7.5 YR 4/3	100	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				SiLo	~40% gravels		
3 - 16	7.5 YR 4/3	100					SiLo			
<u> </u>	7.3 11. 1/3			-			<u> </u>			
	-									
	=			-						
				- ——						
•	oncentration, D=Dep					d Sand G		cation: PL=Pore Lining, M=Matrix.		
-	Indicators: (Applic	able to all L			ea.)			s for Problematic Hydric Soils ³ :		
Histosol	(A1) pipedon (A2)		Sandy Red Stripped Ma	. ,				Muck (A9) (LRR C) Muck (A10) (LRR B)		
Black Hi			Suipped Mid		l (F1)			ced Vertic (F18)		
	n Sulfide (A4)		Loamy Gley					Parent Material (TF2)		
	d Layers (A5) (LRR (C)	Depleted M		,			(Explain in Remarks)		
	ıck (A9) (LRR D)		Redox Dark	Surface ((F6)					
	d Below Dark Surfac	e (A11)	Depleted D				2			
	ark Surface (A12)		Redox Dep		F8)			of hydrophytic vegetation and		
	flucky Mineral (S1) Gleyed Matrix (S4)		Vernal Pool	s (F9)				hydrology must be present, disturbed or problematic.		
	Layer (if present):						unless	disturbed of problematic.		
_	Layer (ii precent):									
Depth (inc							Hydric Soi	I Present? Yes No _√_		
Remarks:							nyuno con	<u></u>		
HYDROLO	GY									
Wetland Hyd	drology Indicators:									
Primary Indic	cators (minimum of c	ne required;	check all that appl	y)			Seco	ndary Indicators (2 or more required)		
Surface	Water (A1)		Salt Crust	(B11)			V	Vater Marks (B1) (Riverine)		
High Wa	iter Table (A2)		Biotic Crus	st (B12)			Sediment Deposits (B2) (Riverine)			
Saturation	on (A3)		Aquatic In	vertebrate	s (B13)		[Orift Deposits (B3) (Riverine)		
Water M	arks (B1) (Nonriver	rine)	Hydrogen	Sulfide Od	dor (C1)		[Orainage Patterns (B10)		
Sedimer	nt Deposits (B2) (No	nriverine)			_	_	ots (C3) [Ory-Season Water Table (C2)		
	oosits (B3) (Nonrive	rine)	Presence		•	•		Crayfish Burrows (C8)		
	Soil Cracks (B6)		Recent Iro			d Soils (C		Saturation Visible on Aerial Imagery (C9)		
	on Visible on Aerial I	Imagery (B7)						Shallow Aquitard (D3)		
	tained Leaves (B9)		Other (Exp	olain in Re	marks)	1	F	FAC-Neutral Test (D5)		
Field Obser			1 5 0 0							
Surface Water			o ✓ Depth (in							
Water Table			o <u>√</u> Depth (in							
	Saturation Present? Yes No _✓ Depth (inches): Wetland Hydrology Present? Yes No _✓ (includes capillary fringe)									
	corded Data (stream	gauge, mor	itoring well, aerial	photos, pre	evious ins	pections),	if available:			
Remarks:										

Project/Site: Elmore North Geothermal Project	Ci	ty/County: Imperial	County	_ Sampling Date:	3/1/22
Applicant/Owner: Elmore North Geothermal LLC			State: CA	Sampling Point:	S-3
Investigator(s): R. Newton, R. John	Se	ection, Township, Ra	nge: <u>S33 T 11S R13E</u>		
Landform (hillslope, terrace, etc.): remnant agricultui	ral field L	ocal relief (concave,	convex, none): none	Slope	: (%): <u>0</u>
Subregion (LRR): D - Interior Deserts	Lat: <u>33.1</u>	64214°	Long: <u>-115.624017°</u>	Datum:	WGS84
Soil Map Unit Name: Holtville silty clay, wet			NWI classifi	cation: PUSCx	
Are climatic / hydrologic conditions on the site typical for	this time of year	? Yes No _	(If no, explain in F	Remarks.)	
Are Vegetation, Soil, or Hydrology	significantly di	sturbed? Are "	Normal Circumstances"	present? Yes <u>√</u>	No
Are Vegetation, Soil, or Hydrology	naturally probl	ematic? (If ne	eded, explain any answe	ers in Remarks.)	
SUMMARY OF FINDINGS - Attach site ma	ap showing s	ampling point l	ocations, transects	s, important feat	tures, etc.
Lhydrophytic Venetation Present?	No. /				
	No <u>√</u> No <u>√</u>	Is the Sampled			
Wetland Hydrology Present? Yes		within a Wetlar	nd? Yes	No <u>√</u>	
Remarks:					
Area mapped by NWI as PUSCx, but no we	etland indicat	ors present. Are	ea appears to have	been cleared an	ıd
grubbed. The Antecedent Precipitation To					
VEGETATION – Use scientific names of pl	lante				
VEGETATION – Use scientific flames of pr		Dominant Indicator	Dominance Test wor	kshoot:	
Tree Stratum (Plot size:)		Species? Status	Number of Dominant S		
1			That Are OBL, FACW,		(A)
2			Total Number of Domi	nant	
3			Species Across All Str	ata: <u>1</u>	(B)
4			Percent of Dominant S		
Sapling/Shrub Stratum (Plot size: 15' radius)	=	Total Cover	That Are OBL, FACW,	or FAC:0_	(A/B)
1. Atriplex lentiformis	10	Y FACU	Prevalence Index wo	rksheet:	
2.			Total % Cover of:	Multiply b	oy:
3			OBL species	x 1 =	
4			FACW species		
5			FAC species		
Herb Stratum (Plot size: 5' radius)	10=	Total Cover	FACU species 10		
1			UPL species Column Totals:1	x 5 =	.0 (B)
2.			Column Totals.	<u>.</u> (A)	<u>o</u> (b)
3			Prevalence Index	x = B/A = 4.0	<u> </u>
4			Hydrophytic Vegetati		
5			Dominance Test is		
6			Prevalence Index	เร ≤3.0* aptations¹ (Provide รเ	unnortina
7				s or on a separate st	
8		Total Cover	Problematic Hydro	phytic Vegetation ¹ (E	Explain)
Woody Vine Stratum (Plot size:)		- Total Covel			
1			¹ Indicators of hydric so be present, unless dist		
2				urbed of problematic	•
	=	Total Cover	Hydrophytic Vegetation		
% Bare Ground in Herb Stratum 100 % Co	over of Biotic Cru	st0		es No_ <u>√</u>	
Remarks:			ı		

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

Depth	Matrix		Redox	x Features	S						
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type ¹	Loc ²	Texture	Remarks			
0 - 16	7.5 YR 4/3	100					<u>Cl</u>				
¹Type: C=C	oncentration, D=De	oletion. RM=F	Reduced Matrix. CS	=Covered	d or Coate	ed Sand G	rains. ² Loc	eation: PL=Pore Lining, M=Matrix.			
	Indicators: (Applic							for Problematic Hydric Soils ³ :			
Histosol			Sandy Redo		,			luck (A9) (LRR C)			
	pipedon (A2)		Stripped Ma				2 cm Muck (A10) (LRR B)				
	istic (A3)		Loamy Mucl		l (F1)			ed Vertic (F18)			
	en Sulfide (A4)		Loamy Gley	-			Red Parent Material (TF2)				
	d Layers (A5) (LRR	C)	Depleted Ma		()		Other (Explain in Remarks)				
	uck (A9) (LRR D)	,	Redox Dark		(F6)			,			
Depleted	d Below Dark Surfac	ce (A11)	Depleted Da	rk Surfac	e (F7)						
Thick Da	ark Surface (A12)		Redox Depr	essions (F	F8)		³ Indicators	of hydrophytic vegetation and			
Sandy N	Mucky Mineral (S1)		Vernal Pools	s (F9)			wetland h	nydrology must be present,			
	Sleyed Matrix (S4)						unless di	sturbed or problematic.			
Restrictive	Layer (if present):										
Type:											
Depth (in	ches):						Hydric Soil	Present? Yes No			
Remarks:											
HYDROLO	GY										
Wetland Hy	drology Indicators	:									
_	cators (minimum of		check all that annly	/)			Secon	dary Indicators (2 or more required)			
		one required,									
_	Water (A1)		Salt Crust				Water Marks (B1) (Riverine)				
•	ater Table (A2)		Biotic Crus		(5.46)			ediment Deposits (B2) (Riverine)			
Saturation			Aquatic In\				Drift Deposits (B3) (Riverine)				
	larks (B1) (Nonrive		Hydrogen					rainage Patterns (B10)			
	nt Deposits (B2) (No				_	_		ry-Season Water Table (C2)			
	posits (B3) (Nonrive	erine)	Presence of					rayfish Burrows (C8)			
	Soil Cracks (B6)		Recent Iro			d Soils (C		aturation Visible on Aerial Imagery (C9)			
Inundati	on Visible on Aerial	Imagery (B7)	Thin Muck	Surface (C7)			hallow Aquitard (D3)			
Water-S	stained Leaves (B9)		Other (Exp	lain in Re	marks)		F/	AC-Neutral Test (D5)			
Field Obser	vations:										
Surface Wat	er Present?	/es No	o <u>√</u> Depth (ind	ches):							
Water Table	Present?	res No	o <u>√</u> Depth (ind	ches):							
Saturation P			o <u>✓</u> Depth (inc				and Hydrology	/ Present? Yes No✓_			
(includes car		1031	o <u> </u>			_ '''	ana myarologi	1105cm: 105 NO			
	corded Data (strean	n gauge, mon	itoring well, aerial p	hotos, pre	evious ins	pections),	if available:				
Remarks:											

Project/Site: Elmore North Geothermal Project	iect/Site: Elmore North Geothermal Project City/County: Imperial County Sampling Date: 3/14/22									
Applicant/Owner: Elmore North Geothermal LLC			State:	A Samplin	g Point: _	S-4				
Investigator(s): R. Newton, R. John Section, Township, Range: S27 T11S R13E										
Landform (hillslope, terrace, etc.): <u>leveled agricultura</u>	al field Loca	I relief (concave,	convex, none): no	ne	Slope	e (%): <u>0</u>				
Subregion (LRR): D - Interior Deserts	Lat: _33.1829	913°	Long: -115.606	245°	Datum	: WGS84				
Soil Map Unit Name: Imperial-Glenbar silty clay loa			_							
Are climatic / hydrologic conditions on the site typical fo										
Are Vegetation, Soil, or Hydrology	-		"Normal Circumstar		_	No				
Are Vegetation, Soil, or Hydrology			eeded, explain any							
SUMMARY OF FINDINGS – Attach site m					,	tures, etc.				
	· · · · · ·		<u> </u>	· ·						
	No <u>√</u> No <u>√</u>	Is the Sampled			,					
	No <u>√</u>	within a Wetlar	nd? Yes	No						
Remarks:										
Area mapped by NWI as PUSCx, but no indicator	rs present. Area ap	pears to have b	een cleared and	grubbed, and	is current	:ly part of				
geothermal infrastructure. The Antecedent Prec	ipitation Tool dete	rmined the are	a was drier than i	normal at the	time of sa	ampling.				
VEGETATION – Use scientific names of p	lante									
VEGETATION – 636 361611anic names of p		ninant Indicator	Dominance Tes	t worksheet:						
Tree Stratum (Plot size:)	% Cover Spe		Number of Domin							
1			That Are OBL, F		0	(A)				
2			Total Number of	Dominant						
3			Species Across A	All Strata:	1	(B)				
4			Percent of Domir		_					
Sapling/Shrub Stratum (Plot size:)	= To	tai Cover	That Are OBL, F	ACW, or FAC:	0	(A/B)				
1			Prevalence Inde	x worksheet:						
2			Total % Cov	er of:	Multiply	by:				
3			OBL species							
4			FACW species							
5			FAC species FACU species							
Herb Stratum (Plot size: 5' radius)	= To	tal Cover	UPL species							
1. Malvella leprosa	10	Y FACU	Column Totals:			40 (B)				
2										
3				Index = B/A =)				
4			Hydrophytic Ve	_	tors:					
5			Dominance							
6			Prevalence I	ndex is ≤3.0 al Adaptations¹	(Provido e	unnorting				
7				emarks or on a						
8			Problematic	Hydrophytic Ve	getation ¹ (Explain)				
Woody Vine Stratum (Plot size:)	<u> 10</u> - 10	iai Covei								
1			¹ Indicators of hyd							
2			<u>'</u>	ss disturbed or p	TODIETTIALIC	<i>,</i> .				
	= To	tal Cover	Hydrophytic Vegetation							
% Bare Ground in Herb Stratum90	over of Biotic Crust _	0	Present?	Yes	No <u>√</u>	<u></u>				
Remarks:			1							

SOIL

Sampling Point: S-4

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

Depth	Matrix		Redox	x Features	3						
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type ¹	Loc ²	Texture	Remarks			
0 - 17	7.5 YR 4/3	100					Cl				
								-			
								<u> </u>			
¹Type: C=C	oncentration, D=De	oletion. RM=F	Reduced Matrix. CS	=Covered	or Coate	d Sand G	rains. ² Lo	cation: PL=Pore Lining, M=Matrix.			
	Indicators: (Applic							for Problematic Hydric Soils ³ :			
Histosol			Sandy Redo		,			Muck (A9) (LRR C)			
	oipedon (A2)		Stripped Ma					Muck (A10) (LRR B)			
	stic (A3)		Loamy Mucl		(F1)			ced Vertic (F18)			
	en Sulfide (A4)		Loamy Gley	-			Red Parent Material (TF2)				
	d Layers (A5) (LRR	C)	Depleted Ma		` ,			(Explain in Remarks)			
	ıck (A9) (LRR D)	,	Redox Dark		F6)			,			
Depleted	d Below Dark Surface	ce (A11)	Depleted Da	ark Surface	e (F7)						
Thick Da	ark Surface (A12)		Redox Depr	essions (F	- 8)		³ Indicators	of hydrophytic vegetation and			
Sandy N	Mucky Mineral (S1)		Vernal Pools	s (F9)			wetland	hydrology must be present,			
	Sleyed Matrix (S4)						unless d	listurbed or problematic.			
Restrictive	Layer (if present):										
Type:											
Depth (in	ches):						Hydric Soil	Present? Yes No _✓			
Remarks:											
HYDROLO	GY										
Wetland Hy	drology Indicators	•									
_	cators (minimum of		check all that apply	/)			Seco	ndary Indicators (2 or more required)			
	Water (A1)	<u> </u>	Salt Crust								
	ater Table (A2)		Biotic Crus				Water Marks (B1) (Riverine)				
	` '				o (D12)			Sediment Deposits (B2) (Riverine)			
Saturation			Aquatic Inv				Drift Deposits (B3) (Riverine)				
	larks (B1) (Nonrive		Hydrogen		. ,	Linda a Da		Orainage Patterns (B10)			
	nt Deposits (B2) (No				_	_		Ory-Season Water Table (C2)			
	oosits (B3) (Nonrive	erine)	Presence o					Crayfish Burrows (C8)			
	Soil Cracks (B6)		Recent Iro			a Soils (Ce		Saturation Visible on Aerial Imagery (C9)			
	on Visible on Aerial	Imagery (B7)						Shallow Aquitard (D3)			
	tained Leaves (B9)		Other (Exp	lain in Re	marks)		F	FAC-Neutral Test (D5)			
Field Obser	vations:										
Surface Wat	er Present?	/es N	o <u>√</u> Depth (ind	ches):		_					
Water Table	Present?	/es N	o <u>√</u> Depth (ind	ches):		_					
Saturation P	resent?	res N	o <u>√</u> Depth (ind	ches):		Wetl	and Hydrolog	y Present? Yes No✓_			
(includes cap	oillary fringe)							<u> </u>			
Describe Re	corded Data (strean	n gauge, mon	nitoring well, aerial p	hotos, pre	evious ins	pections),	if available:				
Remarks:											

Project/Site: Elmore North Geothermal Project	City/County: Imperial County Sampling Date: 3/14/22								
Applicant/Owner: Elmore North Geothermal LLC		State: CA	Sampling Point: S-5						
Investigator(s): R. Newton, M. King	nvestigator(s): R. Newton, M. King Section, Township, Range: S27 T11S R13E								
Landform (hillslope, terrace, etc.): manmade terrace	Local relief (concave,	convex, none): none	Slope (%):0						
Subregion (LRR): D - Interior Deserts	Lat: 33.183550°	Long: -115.603048°	Datum: WGS84						
Soil Map Unit Name: Imperial-Glenbar silty clay loams		=							
Are climatic / hydrologic conditions on the site typical for th			·						
Are Vegetation, Soil, or Hydrology	· · · · · · · · · · · · · · · · · · ·		present? Yes <u>√</u> No						
Are Vegetation, Soil, or Hydrology		eeded, explain any answe							
SUMMARY OF FINDINGS – Attach site map	snowing sampling point i	ocations, transects	, important features, etc.						
Hydrophytic Vegetation Present? Yes N		i Δrea							
Hydric Soil Present? Yes 1	No ✓ within a Wetlar		No √						
Wetland Hydrology Present? Yes N	No ✓		<u> </u>						
Remarks:									
Area mapped by NWI as a seasonally flood		•	•						
Antecedent Precipitation Tool determined	the area was drier than no	ormal at the time of	sampling.						
VEGETATION – Use scientific names of plan									
Tree Stratum (Plot size:)	Absolute Dominant Indicator % Cover Species? Status	Dominance Test work							
1		Number of Dominant Sp	pecies or FAC:0 (A)						
2									
3.		Total Number of Domini Species Across All Stra							
4									
	= Total Cover	Percent of Dominant Sp That Are OBL, FACW, of	or FAC: 0 (A/B)						
Sapling/Shrub Stratum (Plot size:)		Prevalence Index world	kshoot:						
1 2			Multiply by:						
3.			x 1 =						
4.			x 2 =						
5			x 3 =						
	= Total Cover	FACU species	x 4 =						
Herb Stratum (Plot size: 5' radius)		UPL species							
1		Column Totals:	(A) (B)						
2		Prevalence Index	= B/A =0						
4.		Hydrophytic Vegetation							
5		Dominance Test is	>50%						
6.		Prevalence Index is	s ≤3.0 ¹						
7			ptations ¹ (Provide supporting						
8			s or on a separate sheet) phytic Vegetation ¹ (Explain)						
Mandy Vine Stratum (Plat size)	= Total Cover	Froblematic Trydrop	mylic vegetation (Explain)						
Woody Vine Stratum (Plot size:) 1		¹ Indicators of hydric soi	I and wetland hydrology must						
2.		be present, unless distu							
	= Total Cover	Hydrophytic							
% Bare Ground in Herb Stratum 100 % Cove	er of Biotic Crust0	Vegetation Present? Yes	s No_ <u>√</u> _						
Remarks:	er of blotic crust	riesent: 16	<u> </u>						
	diada a casa da Como de Como d								
Constructed nature of the area likely prec	iudes vegetative growth.								
1									

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)											
Depth	Matrix			x Feature:	<u>s</u> 1	. 2	- .				
(inches)	Color (moist)		olor (moist)	%	Type ¹	Loc ²	<u>Texture</u>	Remarks			
0 - 17	7.5 YR 4/3	100					SiCl				
		·					- <u></u> -				
-	-	· —— —									
		·		- ——							
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. 2Location: PL=Pore Lining, M=Matrix.											
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils ³ :											
Histosol			Sandy Red		,			(A9) (LRR C)			
_	oipedon (A2)	_	Stripped Ma					(A10) (LRR B)			
Black Hi		_	Loamy Muc		I (F1)		Reduced V				
	en Sulfide (A4)		Loamy Gle	-				t Material (TF2)			
Stratified	d Layers (A5) (LRR (C) _	Depleted M	atrix (F3)			Other (Exp	olain in Remarks)			
	ıck (A9) (LRR D)	=	Redox Dark		,						
	d Below Dark Surfac	e (A11) _	Depleted D				3				
l —	ark Surface (A12)	_	Redox Dep	•	F8)			ydrophytic vegetation and			
	Mucky Mineral (S1) Bleyed Matrix (S4)	-	Vernal Poo	IS (F9)				rology must be present, bed or problematic.			
	Layer (if present):						uniess distui	bed of problematic.			
_											
	ah aa).						Undria Cail Dra	cont2 Voc. No. /			
	Depth (inches): No _✓_										
Remarks:											
construct	ed area										
HYDROLO	GY										
Wetland Hye	drology Indicators:										
Primary Indic	cators (minimum of o	ne required; che	eck all that appl	y)			Secondar	y Indicators (2 or more required)			
Surface	Water (A1)		Salt Crust	(B11)			Water	r Marks (B1) (Riverine)			
l —	ater Table (A2)		Biotic Crus	` '				nent Deposits (B2) (Riverine)			
Saturation	, ,		Aquatic In		s (B13)			Deposits (B3) (Riverine)			
	larks (B1) (Nonriver	ine)	Hydrogen		` '			age Patterns (B10)			
	nt Deposits (B2) (No	•				Living Roo		season Water Table (C2)			
	oosits (B3) (Nonrive		Presence		_	_		ish Burrows (C8)			
	Soil Cracks (B6)		Recent Iro					ation Visible on Aerial Imagery (C9)			
	on Visible on Aerial I	magery (B7)	Thin Muck					ow Aquitard (D3)			
Water-S	tained Leaves (B9)		Other (Ex	olain in Re	marks)		FAC-	Neutral Test (D5)			
Field Obser				<u>'</u>	<u> </u>		<u> </u>				
Surface Water	er Present? Y	es No	✓ Depth (in	ches):							
	Surface Water Present? Yes No _✓ Depth (inches): Water Table Present? Yes No _✓ Depth (inches):										
							and Hydrology Pr	esent? Yes No <u>√</u>			
(includes cap		es No _	Deptii (iii	G163)		_ '''	and riyarology i i	esent: 163 NO			
	corded Data (stream	gauge, monitor	ing well, aerial	photos, pr	evious ins	pections),	if available:				
Remarks:											
1											

Project/Site: Elmore North Geothermal Project	C	ity/County: Imperial	County	Sampling Date: 3/14/22
Applicant/Owner: Elmore North Geothermal LLC			State: <u>CA</u>	Sampling Point:S-6
Investigator(s): R. Newton, M. King	S	ection, Township, Ra	inge: <u>S23 T 11S R13E</u>	
Landform (hillslope, terrace, etc.): excavation	L	ocal relief (concave,	convex, none): none	Slope (%):0
Subregion (LRR): D - Interior Deserts	Lat: <u>33.1</u>	.99224°	_ Long: <u>-115.580945</u>	Datum: WGS84
Soil Map Unit Name: Imperial silty clay, wet			NWI classi	fication: PUSCx
Are climatic / hydrologic conditions on the site typical f				
Are Vegetation, Soil, or Hydrology	-			" present? Yes ✓ No
Are Vegetation, Soil, or Hydrology			eeded, explain any answ	
SUMMARY OF FINDINGS – Attach site n				
	No No <u></u> ✓	Is the Sampled		,
	No <u>✓</u>	within a Wetla	nd? Yes	No <u>_</u>
Remarks:				
Area mapped by NWI as PUSCx and NHD a are present. The Antecedent Precipitation			•	
VEGETATION – Use scientific names of	plants.			
Trac Stratum (Plot size:		Dominant Indicator	Dominance Test wo	rksheet:
Tree Stratum (Plot size:) 1		Species? Status	Number of Dominant That Are OBL, FACW	
2.				
3.			Total Number of Dom Species Across All St	
4.				
	=	= Total Cover	Percent of Dominant : That Are OBL, FACW	Species /, or FAC:100 (A/B)
Sapling/Shrub Stratum (Plot size: 15' radius)		V 54614		
1. Allenrolfea occidentalis			Prevalence Index wo	: Multiply by:
2				x 1 =
4				x 2 = 16
5				x 3 =
	_	= Total Cover	FACU species	x 4 =
Herb Stratum (Plot size: 5' radius)			UPL species	x 5 =
1			Column Totals:	8 (A) <u>16</u> (B)
2			Prevalence Inde	ex = B/A =
3 4			Hydrophytic Vegeta	
5.			✓ Dominance Test	
6.			✓ Prevalence Index	
7.				daptations ¹ (Provide supporting
8				rks or on a separate sheet)
		= Total Cover	Problematic Hydr	rophytic Vegetation ¹ (Explain)
Woody Vine Stratum (Plot size:)			¹ Indicators of hydric s	oil and wetland hydrology must
1				sturbed or problematic.
2		= Total Cover	Hydrophytic	
400			Vegetation	
% Bare Ground in Herb Stratum %	Cover of Biotic Cru	ıst <u> </u>	Present? Y	/es No
Remarks:				

	ription: (Describe	to the dep				or confirm	n the absence	of indicators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Feature %	es Type ¹	Loc ²	Texture	Remarks	
0 - 8	7.5 YR 5/3	100					SiLo		
8-17	7.5 YR 4/3	92	7.5 YR 5/1	- 	C		SiLo		
				-	_				
					_				
					_				
					_				
		·			_				
	-								
•	·		=Reduced Matrix, CS			ed Sand G		tation: PL=Pore Lining, M=Matrix. for Problematic Hydric Soils ³ :	
-		abie to ali	LRRs, unless othe		tea.)			· ·	
Histosol	oipedon (A2)		Sandy Red Stripped Ma					fuck (A9) (LRR C) fuck (A10) (LRR B)	
Black Hi			Loamy Muc		al (F1)			ed Vertic (F18)	
	n Sulfide (A4)		Loamy Gley	-				arent Material (TF2)	
	Layers (A5) (LRR (C)	Depleted M					Explain in Remarks)	
	ıck (A9) (LRR D)		Redox Dark						
	d Below Dark Surfac	e (A11)	Depleted D				3		
	ark Surface (A12)		Redox Dep		(F8)			of hydrophytic vegetation and	
	lucky Mineral (S1) Bleyed Matrix (S4)		Vernal Poo	IS (F9)				hydrology must be present, isturbed or problematic.	
	_ayer (if present):						uniess ui	isturbed or problematic.	
_	, ,								
	ches):						Hydric Soil	Present? Yes No ✓	
Remarks:							11,4		
HYDROLO	GY								
Wetland Hyd	drology Indicators:								
Primary Indic	cators (minimum of o	ne require	d; check all that appl	y)			Secon	dary Indicators (2 or more required)	
Surface	Water (A1)		Salt Crust	(B11)			Water Marks (B1) (Riverine)		
High Wa	iter Table (A2)		Biotic Crus	st (B12)			Sediment Deposits (B2) (Riverine)		
Saturation	` '		Aquatic In	vertebrate	es (B13)		D	rift Deposits (B3) (Riverine)	
	arks (B1) (Nonriver		Hydrogen					rainage Patterns (B10)	
	nt Deposits (B2) (No		· · · · · · · · · · · · · · · · · · ·	•	-	_	• • •	ry-Season Water Table (C2)	
	posits (B3) (Nonrive	rine)	Presence					rayfish Burrows (C8)	
	Soil Cracks (B6)	(D	Recent Iro			d Soils (C		aturation Visible on Aerial Imagery (C9)	
	on Visible on Aerial I	magery (B	· —					hallow Aquitard (D3)	
Field Obser	tained Leaves (B9)		Other (Ex	piain in K	emarks)		<u>v</u> F/	AC-Neutral Test (D5)	
			No / Donth (in	ahaa\;					
Surface Water			No ✓ Depth (in						
Water Table			No ✓ Depth (in					. Brananto Van Na /	
Saturation Procession (includes cap		es	No <u>√</u> Depth (in	cnes):		weti	and Hydrology	y Present? Yes No _✓	
Describe Re	corded Data (stream	gauge, m	onitoring well, aerial	photos, p	revious ins	spections),	if available:		
Remarks:									