

Technical Memorandum

July 13, 2023

To	Ann Lindsay, LPH George Williamson, LPH	Contact No.	707.267.2224
Copy to	Misha Schwarz, GHD Project Manager	Email	alindsay52@gmail.com; georgew@planwestpartners.com;
From	Miles Hartnett, GHD Biologist	Project No.	12603187
Project Name	Life Plan Humboldt (LPH) Aging in Place Life Plan Community Project		
Subject	Botanical Survey and Report Memorandum		

1. Introduction

This technical memorandum reports the results of the completed protocol-level botanical surveys on behalf of Life Plan Humboldt (LPH), in support of the Aging in Place Life Plan Community Project (Project) in McKinleyville, California. GHD conducted seasonally appropriate floristic surveys for special status plant species and Sensitive Natural Communities (SNC's) within the Project Study Boundary (PSB) on May 9th and June 13th, 2023. This technical memorandum summarizes all botanical and vegetation classification studies conducted during the survey. One special status plant species, Harlequin lotus (*Hosackia gracilis*-CRPR 4.2) and one SNC, Coastal dune willow - Sitka willow - Douglas spiraea thickets Shrubland Alliance (*Salix hookeriana* - *Salix sitchensis* - *Spiraea douglasii*- S3/G4) was detected within the PSB. Vegetative SNC's were mapped in addition to wetland communities identified in the Aquatic Resources Delineation Report completed for Life Plan Humboldt on March 8, 2023.

1.1 Project Location and Setting

The Project site is located within Section 6, Township 06 North, Range 01 East, and Section 31, Township 07 North, Range 01 East, Arcata North USGS 7.5 Minute Quadrangle, in Humboldt County, California. The site is comprised of approximately 14.7 acres and includes the entirety of Assessor Parcel Numbers (APNs) 510-133-013 and 508-251-060 on Hiller Road, McKinleyville, California (**Attachment A: Figure 1, Vicinity Map**).

The surveys were conducted within the Project Study Boundary (PSB) as shown in **Attachment A: Figure 2, PSB**. The PSB consists of the two APNs and contains an open pasture and a scattered eucalyptus grove bordered by the McKinleyville shopping center and open space to the north, commercial development to the east, residential development to the south, and a church and active pastureland to the west. The property is a generally flat to gently sloped with a wet swale that dissects the site in a north westerly direction.

2. Regulatory Setting

2.1 Federally Listed Species

Special status plant species under federal jurisdiction include those listed as endangered, threatened, or as candidate species by the United States Fish and Wildlife Service (USFWS) under the Federal Endangered Species Act (ESA).

2.2 State Listed and/or Special Status Species

Special status plant species under California Department of Fish and Wildlife (CDFW) jurisdiction include the following:

- Endangered, Threatened, or Candidate plant species listed under the California Endangered Species Act (CESA)
- Plants listed as Rare under California Native Plant Protection Act (FGC, § 1900 et seq.)
- Plants on the California Native Plant Society's (CNPS) California Rare Plant Rank (CRPR) Lists 1 and 2.
- Taxa which meet the criteria for listing as described in Section 15380 of the California Environmental Quality Act (CEQA). All CRPR 1 and 2 and some CRPR 3 and 4 plants may fall under Section 15380 of CEQA.
- Locally significant plants (CEQA Guidelines, § 15125, subd. (c)) as designated in local or regional plans, policies, or ordinances are also considered special status plant species (CDFW 2018).

Plant species on CRPR Lists 1 and 2 are considered eligible for state listing as endangered or threatened pursuant to the California Fish and Game Code (FGC), and CDFW has oversight of these special status plant species as a trustee agency under Section 1802 of the FGC. Such species are considered during the CEQA process because they meet the definition of threatened or endangered under Sections 2062 and 2067 of the FGC.

Plant species on CRPR Lists 3 and 4 do not have formal protection under CEQA, but may merit consideration in certain circumstances including occurrences at the periphery of a species' range, areas where the taxon is especially uncommon, areas where the taxon has sustained heavy losses or is declining, occurrences exhibiting unusual morphology or occurring on unusual substrates, species maintained on BLM, USFWS, or USFS sensitive species lists, and taxa associated with a habitat that is declining in California at a significant rate (CNPS 2020).

2.3 Sensitive Natural Communities

SNC's include those that are tracked in the California Natural Diversity Database (CNDDDB) as well as A Manual of California Vegetation (MCV2) alliances or associations with NatureServe State Ranks of S1 to S3. CDFW maintains a list of MCV2 alliances that must be considered during the CEQA process (CDFW 2023a). Aquatic resources (e.g. watercourses, ponds, wetlands, vernal pools, etc.) are also considered sensitive communities and are afforded special protections under CEQA and other federal, state, and local laws, regulations, and ordinances.

Sources for assessing SNC's include *Preliminary Descriptions of the Terrestrial Natural Communities of California* (Holland 1986), *List of Vegetation Alliances* (CDFW 2023a), and *A Manual of California Vegetation Online Edition* (CNPS 2023b).

3. Methods

3.1 Pre-Survey Investigations

A scoping list of special status plant species and communities with recorded occurrences in the project vicinity was compiled prior to surveys on April 7, 2023 by consulting the CNDDDB (CDFW 2023b), the CNPS Rare Plant Inventory (CNPS 2023a), and U.S. Fish and Wildlife Service IPaC (USFWS 2023) The CNDDDB RareFind database was also consulted for rare plant occurrences documented in the project vicinity.

The scoping list includes special status plant species with documented occurrences within a nine-quad search of the PSB including the Arcata North USGS 7.5-Minute quadrangle and adjacent eight quadrangles (Trinidad, Crannell, Panther Creek, Blue Lake, Korbel, Arcata South, Eureka, and Tyee City). The query yielded 58 special status plant species with documented occurrences within the nine-quad scoping area. All special status plant species identified in the database queries described above were compiled and reviewed prior to the field survey visits and evaluated for their potential to occur within the PSB based on existing habitat availability (**Table 1**). Results of each database query are provided in **Attachment E: Database Query Results**.

Of the 58 special status species identified in the database query, 15 were determined to have a moderate to high potential to occur within the PSB based on existing habitat observed during site visits. The remaining 43 species have no or low potential to occur within the PSB because they are restricted by hydrologic conditions, soil or substrate, topographic conditions, pH conditions, geographic isolation, or associated vegetative communities that do not occur within the PSB.

Special status plant species with a moderate to high potential to occur within the PSB include the following 15 species: Bolander's reed grass (*Calamagrostis bolanderi*), bristle-stalked sedge (*Carex leptalea*), northern meadow sedge (*Carex praticola*), Oregon goldthread (*Coptis laciniata*), giant fawn lily (*Erythronium oregonum*), harlequin lotus (*Hosackia gracilis*), western lily (*Lilium occidentale*), leafy-stemmed miterwort (*Mitellastrum caulescens*), Howell's montia (*Montia howellii*), nodding semaphore grass (*Pleuropogon refractus*), maple-leaved checkerbloom (*Sidalcea malachroides*), Siskiyou checkerbloom (*Sidalcea malviflora* ssp. *patula*), coast checkerbloom (*Sidalcea oregana* ssp. *eximia*), Scouler's catchfly (*Silene scouleri* ssp. *scouleri*), and cylindrical trichodon (*Trichodon cylindricus*).

Table 1 below details all 58 special status plant species identified in the database scoping and query results described above as well as a discussion of the potential for each species to occur within the PSB based on the existing habitat present.

Table 1. Potential for Special Status Plants to Occur within the PSB

Scientific Name	Common Name	FESA	CESA	Global Rank ²	State Rank ²	CRPR ²	Habitat Requirements ¹	Potential to Occur in the PSB
<i>Abronia umbellate</i> <i>var. breviflora</i>	Pink sand-verbena	None	None		S2	1B.1	Coastal dunes	No potential. The PSB does not contain suitable habitat for this species.
<i>Angelica lucida</i>	sea-watch	None	None	G5	S3	4.2	Coastal bluff scrub, Coastal dunes, Coastal scrub, Marshes and swamps (coastal salt).	No potential. The PSB does not contain suitable habitat for this species.
<i>Astragalus pycnostachyus</i> <i>var. pycnostachyus</i>	Coastal marsh milk vetch	None	None	G2T2	S2	1B.2	Coastal dunes (mesic), Coastal scrub, Marshes and swamps (coastal salt, streamsides)	No potential. The PSB does not contain suitable habitat for this species. Wetland meadow habitat is freshwater wetland.
<i>Astragalus rattanii</i> <i>var. rattanii</i>	Rattan's milk-vetch	None	None	G4T4	S4	4.3	Chaparral, Cismontane woodland, Lower montane coniferous forest	No potential. The PSB does not contain suitable habitat for this species
<i>Calamagrostis bolanderi</i>	Bolander's reed grass	None	None	G4	S4	4.2	Bogs and fens, Broadleafed upland forest, Closed-cone coniferous forest, Coastal scrub, Marshes and swamps, Meadows and seeps, North Coast coniferous forest	Moderate potential. Wetland meadow habitat is present in the PSB and may contain suitable habitat for this species.
<i>Cardamine angulata</i>	seaside bittercress	None	None	G4G5	S3	2B.2	Lower montane coniferous forest, North Coast coniferous forest	No potential. The PSB does not contain suitable habitat for this species
<i>Carex arcta</i>	Northern clustered sedge	None	None	G5	S1	2B.2	Bogs and fens, North Coast coniferous forest (mesic)	Low potential. The PSB contains only marginally suitable habitat for this species and is outside of its known elevation range.

This Technical Memorandum is provided as an interim output under our agreement with Life Plan Humboldt. It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any other way.

Scientific Name	Common Name	FESA	CESA	Global Rank ²	State Rank ²	CRPR ²	Habitat Requirements ¹	Potential to Occur in the PSB
<i>Carex leptalea</i>	bristle-stalked sedge	None	None	G5	S1	2B.2	Bogs and fens, Marshes and swamps, Meadows and seeps	Moderate potential. Wetland meadow habitat is present in the PSB and may contain suitable habitat for this species.
<i>Carex lyngbyei</i>	Lyngbye's sedge	None	None	G5	S3	2B.2	Marshes and swamps (brackish)	No potential. The PSB does not contain suitable habitat for this species.
<i>Carex praticola</i>	northern meadow sedge	None	None	G5	S2	2B.2	Meadows and seeps	Moderate potential. Wetland meadow habitat is present in the PSB and may contain suitable habitat for this species.
<i>Castilleja ambigua</i> var. <i>humboldtensis</i>	Humboldt Bay owl's-clover	None	None	G4T2	S2	1B.2	Marshes and swamps (coastal salt)	No potential. The PSB does not contain suitable habitat for this species.
<i>Castilleja litoralis</i>	Oregon coast paintbrush	None	None	G3	S3	2B.2	Coastal bluff scrub, Coastal dunes, Coastal scrub	No potential. The PSB does not contain suitable habitat for this species.
<i>Chloropyron maritimum</i> ssp. <i>palustre</i>	Point Reyes salty bird's-beak	None	None	G4?T2	S2	1B.2	Marshes and swamps (coastal salt)	No potential. The PSB does not contain suitable habitat for this species.
<i>Chrysosplenium glechomifolium</i>	Pacific golden saxifrage	None	None	G5?	S3	4.3	North Coast coniferous forest, Riparian forest	No potential. The PSB does not contain suitable habitat for this species.
<i>Collinsia corymbosa</i>	round-headed collinsia	None	None	G1	S1	1B.2	Coastal dunes	No potential. The PSB does not contain suitable habitat for this species.
<i>Coptis laciniata</i>	Oregon goldthread	None	None	G4?	S3?	4.2	Meadows and seeps, North Coast coniferous forest	Moderate potential. Wetland meadow habitat is present in the PSB and may contain suitable habitat for this species.
<i>Eleocharis parvula</i>	small spikerush	None	None	G5	S3	4.3	Marshes and swamps	No potential. The PSB does not contain suitable habitat (i.e. coastal salt marsh) for this species.
<i>Epilobium septentrionale</i>	Humboldt County fuchsia	None	None	G4	S4	4.3	Broadleafed upland forest, North Coast coniferous forest	No potential. The PSB does not contain suitable habitat for this species.
<i>Erysimum menziesii</i>	Menzies' wallflower	FE	CE	G1	S1	1B.1	Coastal dunes	No potential. The PSB does not contain suitable habitat for this species.

This Technical Memorandum is provided as an interim output under our agreement with Life Plan Humboldt. It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any other way.

Scientific Name	Common Name	FESA	CESA	Global Rank ²	State Rank ²	CRPR ²	Habitat Requirements ¹	Potential to Occur in the PSB
<i>Erythronium oregonum</i>	giant fawn lily	None	None	G5	S2	2B.2	Cismontane woodland, Meadows and seeps	Moderate potential. Wetland meadow habitat is present in the PSB and may contain suitable habitat for this species.
<i>Erythronium revolutum</i>	coast fawn lily	None	None	G4G5	S3	2B.2	Bogs and fens, Broadleafed upland forest, North Coast coniferous forest	Low potential. The PSB contains only marginally suitable habitat for this species.
<i>Fissidens pauperculus</i>	minute pocket moss	None	None	G3?	S2	1B.2	North Coast coniferous forest	No potential. The PSB does not contain suitable habitat for this species.
<i>Fritillaria purdyi</i>	Purdy's fritillary	None	None	G4	S4	4.3	Chaparral, Cismontane woodland, Lower montane coniferous forest	No potential. The PSB does not contain suitable habitat for this species.
<i>Gilia capitata</i> ssp. <i>pacifica</i>	Pacific gilia	None	None	G5T3	S2	1B.2	Chaparral, Coastal bluff scrub, Coastal prairie, Valley and foothill grassland	Low potential. The PSB contains only marginally suitable habitat for this species.
<i>Gilia millefoliata</i>	dark-eyed gilia	None	None	G2	S2	1B.2	Coastal dunes	No potential. The PSB does not contain suitable habitat for this species.
<i>Glehnia littoralis</i> ssp. <i>leiocarpa</i>	American glehnia	None	None	G5T5	S2S3	4.2	Coastal dunes	No potential. The PSB does not contain suitable habitat for this species.
<i>Hemizonia congesta</i> ssp. <i>tracyi</i>	Tracy's tarplant	None	None	G5T4	S4	4.3	Coastal prairie, Lower montane coniferous forest, North Coast coniferous forest	Low potential. The PSB contains only marginally suitable habitat for this species.
<i>Hesperevax sparsiflora</i> var. <i>brevifolia</i>	short-leaved evax	None	None	G4T3	S3	1B.2	Coastal bluff scrub, Coastal dunes, Coastal prairie	Low potential. The PSB contains only marginally suitable habitat for this species.
<i>Hosackia gracilis</i>	harlequin lotus	None	None	G3G4	S3	4.2	Broadleafed upland forest, Cismontane woodland, Closed-cone coniferous forest, Coastal bluff scrub, Coastal prairie, Coastal	Present. Species was observed within the PSB on June 13 th , 2023.

This Technical Memorandum is provided as an interim output under our agreement with Life Plan Humboldt. It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any other way.

Scientific Name	Common Name	FESA	CESA	Global Rank ²	State Rank ²	CRPR ²	Habitat Requirements ¹	Potential to Occur in the PSB
							scrub, Marshes and swamps, Meadows and seeps, North Coast coniferous forest, Valley and foothill grassland	
<i>Iliamna latibracteata</i>	California globe mallow	None	None	G2G3	S2	1B.2	Chaparral (montane), Lower montane coniferous forest, North Coast coniferous forest (mesic), Riparian scrub (streambanks)	No potential. The PSB does not contain suitable habitat for this species.
<i>Lasthenia californica</i> ssp. <i>macrantha</i>	perennial goldfields	None	None	G3T2	S2	1B.2	Coastal bluff scrub, Coastal dunes, Coastal scrub	No potential. The PSB does not contain suitable habitat for this species.
<i>Lathyrus glandulosus</i>	sticky pea	None	None	G3	S3	4.3	Cismontane woodland	No potential. The PSB does not contain suitable habitat for this species.
<i>Lathyrus japonicus</i>	seaside pea	None	None	G5	S2	2B.1	Coastal dunes	No potential. The PSB does not contain suitable habitat for this species.
<i>Lathyrus palustris</i>	marsh pea	None	None	G5	S2	2B.2	Bogs and fens, Coastal prairie, Coastal scrub, Lower montane coniferous forest, Marshes and swamps, North Coast coniferous forest	Low potential. The PSB contains only marginally suitable habitat for this species.
<i>Layia carnosa</i>	beach layia	FE	CE	G2	S2	1B.1	Coastal dunes, Coastal scrub	No potential. The PSB does not contain suitable habitat for this species.
<i>Lilium kelloggii</i>	Kellogg's lily	None	None	G3	S3	4.3	Lower montane coniferous forest, North Coast coniferous forest	No potential. The PSB does not contain suitable habitat for this species.
<i>Lilium occidentale</i>	western lily	FE	CE	G1	S1	1B.1	Bogs and fens, Coastal bluff scrub, Coastal prairie, Coastal scrub, Marshes	Moderate potential. The PSB contains wet pasture and meadow habitat that may be suitable for this species. The closest recent occurrences (< 20 years) are

This Technical Memorandum is provided as an interim output under our agreement with Life Plan Humboldt. It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any other way.

Scientific Name	Common Name	FESA	CESA	Global Rank ²	State Rank ²	CRPR ²	Habitat Requirements ¹	Potential to Occur in the PSB
							and swamps, North Coast coniferous forest	located at the Table Bluff Ecological Reserve in the Fields Landing quad.
<i>Listera cordata</i>	heart-leaved twayblade	None	None	G5	S4	4.2	Bogs and fens, Lower montane coniferous forest, North Coast coniferous forest	Low potential. The PSB contains only marginally suitable habitat for this species.
<i>Lycopodium clavatum</i>	running pine	None	None	G5	S3	4.1	Lower montane coniferous forest (mesic) Marshes and swamps North Coast coniferous forest (mesic)	Low potential. The PSB contains only marginally suitable habitat for this species.
<i>Mitellastrum caulescens</i>	leafy-stemmed mitrewort	None	None	G5	S4	4.2	Broadleafed upland forest, Lower montane coniferous forest, Meadows and seeps, North Coast coniferous forest	Moderate potential. Wetland meadow habitat is present in the PSB and may contain suitable habitat for this species.
<i>Monotropa uniflora</i>	ghost-pipe	None	None	G5	S2	2B.2	Broadleafed upland forest, North Coast coniferous forest	No potential. The PSB does not contain suitable habitat for this species.
<i>Montia howellii</i>	Howell's montia	None	None	G3G4	S2	2B.2	Meadows and seeps, North Coast coniferous forest, Vernal pools	Moderate potential. Wetland meadow habitat is present in the PSB and may contain suitable habitat for this species.
<i>Oenothera wolffii</i>	Wolf's evening-primrose	None	None	G2	S1	1B.1	Coastal bluff scrub, Coastal dunes, Coastal prairie, Lower montane coniferous forest	Low potential. The PSB contains only marginally suitable habitat for this species.
<i>Packera bolanderi</i> var. <i>bolanderi</i>	seacoast ragwort	None	None	G4T4	S2S3	2B.2	Coastal scrub, North Coast coniferous forest	No potential. The PSB does not contain suitable habitat for this species.
<i>Piperia candida</i>	white-flowered rein orchid	None	None	G3	S3	1B.2	Broadleafed upland forest, Lower montane coniferous	No potential. The PSB does not contain suitable habitat for this species.

This Technical Memorandum is provided as an interim output under our agreement with Life Plan Humboldt. It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any other way.

Scientific Name	Common Name	FESA	CESA	Global Rank ²	State Rank ²	CRPR ²	Habitat Requirements ¹	Potential to Occur in the PSB
							forest, North Coast coniferous forest	
<i>Pityopus californicus</i>	California pinefoot	None	None	G4G5	S4	4.2	Broadleafed upland forest, Lower montane coniferous forest, North Coast coniferous forest, Upper montane coniferous forest	No potential. The PSB does not contain suitable habitat for this species.
<i>Pleuropogon refractus</i>	nodding semaphore grass	None	None	G4	S4	4.2	Lower montane coniferous forest, Meadows and seeps, North Coast coniferous forest, Riparian forest	Moderate potential. Wetland meadow habitat is present in the PSB and may contain suitable habitat for this species.
<i>Ribes laxiflorum</i>	trailing black currant	None	None	G5?	S3	4.3	North Coast coniferous forest	No potential. The PSB does not contain suitable habitat for this species.
<i>Sidalcea malachroides</i>	maple-leaved checkerbloom	None	None	G3	S3	4.2	Broadleafed upland forest, Coastal prairie, Coastal scrub, North Coast coniferous forest, Riparian woodland	Moderate potential. The PSB contains some habitat that may be suitable for this species.
<i>Sidalcea malviflora</i> ssp. <i>patula</i>	Siskiyou checkerbloom	None	None	G5T2	S2	1B.2	Coastal bluff scrub, Coastal prairie, North Coast coniferous forest	Moderate potential. The PSB contains some habitat that may be suitable for this species
<i>Sidalcea oregana</i> ssp. <i>eximia</i>	coast checkerbloom	None	None	G5T1	S1	1B.2	Lower montane coniferous forest, Meadows and seeps, North Coast coniferous forest	Moderate potential. Wetland meadow habitat is present in the PSB and may contain suitable habitat for this species.
<i>Silene scouleri</i> ssp. <i>scouleri</i>	Scouler's catchfly	None	None	G5T4T5	S2S3	2B.2	Coastal bluff scrub, Coastal prairie, Valley and foothill grassland	Moderate potential. The PSB contains some habitat that may be suitable for this species

This Technical Memorandum is provided as an interim output under our agreement with Life Plan Humboldt. It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any other way.

Scientific Name	Common Name	FESA	CESA	Global Rank ²	State Rank ²	CRPR ²	Habitat Requirements ¹	Potential to Occur in the PSB
<i>Spergularia canadensis</i> var. <i>occidentalis</i>	western sand-spurrey	None	None	G5T4	S1	2B.1	Marshes and swamps (coastal salt)	No potential. The PSB does not contain suitable habitat (i.e. coastal salt marsh) for this species.
<i>Sulcaria spiralifera</i>	twisted horsehair lichen	None	None	G3G4	S2	1B.2	Coastal dunes, North Coast coniferous forest	No potential. The PSB does not contain suitable habitat for this species.
<i>Tiarella trifoliata</i> var. <i>trifoliata</i>	trifoliolate laceflower	None	None	G5T5	S2S3	3.2	Lower montane coniferous forest, North Coast coniferous forest	No potential. The PSB does not contain suitable habitat for this species.
<i>Trichodon cylindricus</i>	cylindrical trichodon	None	None	G4G5	S2	2B.2	Broadleafed upland forest, Meadows and seeps, Upper montane coniferous forest	Moderate potential. Wetland meadow habitat is present in the PSB and may contain suitable habitat for this species.
<i>Usnea longissima</i>	Methuselah's beard lichen	None	None	G4	S4	4.2	Broadleafed upland forest, North Coast coniferous forest	No potential. The PSB does not contain suitable habitat for this species.
<i>Viola palustris</i>	alpine marsh violet	None	None	G5	S1S2	2B.2	Bogs and fens, Coastal scrub	Low potential. The PSB contains only marginally suitable habitat for this species.

Footnotes:

1 General habitat, and microhabitat column information, reprinted from CNDDB (April 7, 2023).

2 Rankings from CNDDB (April 7, 2023)

Column Header Categories and Abbreviations:

FESA Listing status under the federal Endangered Species Act (ESA)

FE Federal Endangered; FT = Federal Threatened; FC = Federal Candidate; FD = Federally Delisted

CESA Listing status under the California state Endangered Species Act (CESA)

SE State Endangered; SD = State Delisted; ST = State Threatened.

G-Rank: Global Rank from NatureServe's Heritage Methodology (NatureServe 2021) (ranking according to degree of global imperilment - G1 = Critically Imperiled—At very high risk of extinction due to extreme rarity (often 5 or fewer populations), very steep declines, or other factors; G2 = Imperiled—At high risk of extinction due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors; G3 = Vulnerable—At moderate risk of extinction due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors; G4 = Apparently Secure—Uncommon but not rare; some cause for long-term concern due to declines or other factors; G5 = Secure—Common; widespread and abundant.

Subspecies/variety level: "Subspecies/varieties receive a T-rank attached to the G-rank. With the subspecies/varieties, the G-rank reflects the condition of the entire species, whereas the T-rank reflects the global situation of just the subspecies or variety" (CDFW 2021b); ? = "Denotes inexact numeric rank" (NatureServe 2021); Q = "Questionable taxonomy that may reduce conservation priority" (NatureServe 2021)

S-Rank: State Rank from NatureServe's Heritage Methodology (NatureServe 2021) (ranking according to degree of imperilment in the state (California) - S1 = Critically Imperiled—Critically imperiled in the state because of extreme rarity (often 5 or fewer populations) or because of factor(s) such as very steep declines making it especially vulnerable to extirpation from the state; S2 = Imperiled—Imperiled in the state because of rarity due to very restricted range, very few populations (often 20 or fewer), steep declines, or other factors making it very vulnerable to extirpation from the state; S3 = Vulnerable—Vulnerable in the state due to a restricted range, relatively few populations (often 80 or fewer), recent and widespread declines, or other factors making it vulnerable to extirpation from the state; S4 = Apparently Secure—Uncommon but not rare in the state; some cause for long-term concern due to declines or other factors; S5 = Secure—Common, widespread, and abundant in the state; SNR = State Not Ranked.

CRPR: California Rare Plant Ratings (CNPS 2023a) - 1A = Plants presumed extinct in California; 1B = Plants rare, threatened or endangered in California and elsewhere; 2 = Plants rare, threatened, or endangered in California, but more common elsewhere; 3 = Plants about which more information is needed (a review list); 4 = Plants of limited distribution (a watch list); n/a = not applicable; Threat Code extensions and their meanings: ".1 - Seriously threatened in California (over 80% of occurrences threatened / high degree and immediacy of threat); .2 – Moderately threatened in California (20-80% of occurrences threatened / moderate degree and immediacy of threat); .3 – Not very threatened in California (<20% of occurrences threatened / low degree and immediacy of threat or no current threats known)"

Potential to Occur:

No potential: Habitat in and adjacent to the PSB is clearly unsuitable for the species requirements (cover, substrate, elevation, hydrology, plant community, site history, disturbance regime).

Low potential: Few of the habitat components meeting the species requirements are present, and/or the majority of habitat on and adjacent to the site is unsuitable or of very poor quality. The species is not likely to be found in the PSB.

Moderate potential: Some of the habitat components meeting the species requirements are present, and/or only some of the habitat on or adjacent to the site is unsuitable. The species has a moderate probability of being found in the PSB.

High potential: All of the habitat components meeting the species requirements are present and/or most of the habitat on or adjacent to the site is highly suitable. The species has a high probability of being found on in the PSB

Present: Detected or documented on-site.

3.2 Floristic Surveys

GHD wildlife biologist/botanist, Miles Hartnett, conducted floristic surveys on May 9th, 2023 and June 13th, 2023 during the appropriate blooming period for each special status plant species with moderate or high potential to occur within the PSB as determined above in **Table 1**. The special status plant survey followed *Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities* (CDFW 2018) and *General Rare Plant Survey Guidelines by the Endangered Species Recovery Program* (USFWS 2002). The special status plant survey was conducted by walking the site and identifying all plant species encountered to the lowest taxonomic level necessary for rare plant identification. Nomenclature follows *The Jepson Manual, Second Edition* (Baldwin et al 2012).

Miles Hartnett has nine years of professional experience in wildlife biology, forestry, botany, and environmental compliance and received a Bachelor of Science degree in Environmental Science and Ecological Restoration from Humboldt State University in 2011 with multiple studies pertaining to plant taxonomy, biology, ecology, soils, wetland soils, and watershed management. Mr. Hartnett holds a Rare Plant Voucher Collecting Permit (No. 2081 a-20-090-V).

A complete list of all species observed within the project area is provided in **Attachment B: List of Observed Taxa**. Observed SNCs were recording using the *Combined Vegetation Rapid Assessment and Releve Filed Form* provided in Attachment D.

4. Results

4.1 Special Status Plants

This study constitutes a seasonally appropriate botanical survey for this project. A total of 87 plant species were observed within the PSB during all site visits. A complete list of all plant species observed is included in **Attachment B: List of Observed Taxa**.

One special status plant species was observed within the PSB during the survey site visits and is detailed below:

1). Harlequin lotus (*Hosackia gracilis* Benth) (Attachment C: Photos 1-2)

Conservation Status:

- CA Rare Plant Rank of 4.2 (Watch List/Limited Distribution; fairly threatened in California).
- Global Rank: G3G4 (Vulnerable to Apparently Secure)
- State Rank: S3 (Vulnerable)

A population of approximately 1,000 individuals of *H. gracilis* was identified throughout the PSB on June 13, 2023. Prior to this occurrence, there have been no other occurrences of *H. gracilis* documented on the CNDDB or Rare Plant Inventory within the Arcata North USGS 7.5-Minute quadrangle. *H. gracilis* individuals observed were primarily associated with non-native pasture grasses such as *Anthoxanthum odoratum*, *Holcus lanatus*, and *Agrostis stolonifera*, and were integrating closing with *Lotus ulginosus*. The occurrences were located in open pasture areas between GPS coordinates (40.941981, -124.105896) and (40.940997, -124.104844) at an elevation of approximately 135 feet above sea level (**Attachment A: Figure 3, Special Status Plant Species**).

H. gracilis is a perennial rhizomatous herb in the Fabaceae family and associates with many general habitat types including broadleafed upland forest, cismontane woodland, closed-cone coniferous forest, coastal bluff scrub, coastal prairie, coastal scrub, marshes and swamps, meadows and seeps, north

coast coniferous forest, and valley and foothill grassland. General micro habitats include wetlands and roadsides. Threats to this species include development, grazing, feral pigs, habitat alteration, and competition (CNPS 2023a).

4.2 Sensitive Natural Communities

Natural communities within the PSB were classified according to *A Manual of California Vegetation Online Edition* (Sawyer et. al. 2019). SNC's include those that are listed in CNDDDB as well as observed alliances or associations with NatureServe State Rarity Ranks of S1 to S3 and are listed on CDFW's *List of California Sensitive Natural Communities* (CDFW 2023a). Observed SNC's were recorded in the field using the *Combined Vegetation Rapid Assessment and Releve Field Form* provided in **Attachment D: Rapid Assessment Datasheets**.

Aquatic resources including wetlands are also classified as sensitive communities. Aquatic resources identified within the PSB during the Aquatic Resources Delineation completed for Life Plan Humboldt on March 8, 2023 are included with SNC's for the purposes of this report. Please see the Aquatic Resources Delineation Report for Life Plan Humboldt for details, maps, and datasheets regarding wetland communities identified within the PSB (GHD 2023).

Non-sensitive vegetative communities observed within the PSB include common velvet grass-sweet vernal grass meadows (*Anthoxanthum odoratum* - *Holcus lanatus*) Herbaceous Semi-Natural Alliance, Kentucky bluegrass - Redtop – Creeping bentgrass meadows (*Poa pratensis* - *Agrostis gigantea* - *Agrostis stolonifera*) Herbaceous Semi-Natural Alliance, and Eucalyptus groves (*Eucalyptus spp.*) Woodland Semi-Natural Alliance.

One SNC was observed within the PSB in addition to previously delineated wetlands and is detailed below:

1). Coastal dune willow- Sitka willow – Douglas spiraea (*Salix hookeriana* - *Salix sitchensis* - *Spiraea douglasii*) Shrubland Alliance **Attachment C: Photos 3-4**:

Conservation Status:

- Global Rank: G3 (Vulnerable)
- State Rank: S3 (Vulnerable)

One discontinuous community of Coastal dune willow- Sitka willow – Douglas spiraea (*Salix hookeriana* - *Salix sitchensis* - *Spiraea douglasii*) Shrubland Alliance comprising approximately 3,025 sqft within the PSB was identified on May 9th, 2023. The occurrences were located primarily along the outer edges of wetland communities between GPS coordinates (40.942177, -124.104115) and (40.941778, -124.106008) at an elevation of approximately 135 feet above sea level (**Appendix A: Figure 4, Wetlands and Sensitive Natural Communities**).

Salix hookeriana and *Salix sitchensis* alliances were treated as separate alliances in *A Manual of California Vegetation, Second Edition* (2009), however, they have since been merged into a combined alliance in *A Manual of California Vegetation, Online Edition* (2023). *Salix sitchensis* and *S. hookeriana* are typical dominants or co-dominants in this alliance and stands range from Alaska to California. They grow along low elevation streams and lagoons along the North Coast of California. Stands commonly occur in road banks and along shores of creeks, rivers, lagoons, and dune hollows. It is the major willow scrub along the moist, northwestern coastal belt of California (CNPS 2023b).

5. Conclusion

Seasonally appropriate floristic surveys for special status plants and SNCs with potential to occur within the PSB were conducted by GHD on May 9th and June 13th, 2023. One special-status plant species, Harlequin lotus (*Hosackia gracilis*-CRPR 4.2) and one SNC, Coastal dune willow- Sitka willow – Douglas spiraea (*Salix hookeriana* - *Salix sitchensis* - *Spiraea douglasii*) Shrubland Alliance (G3/S3) were observed throughout the PSB.

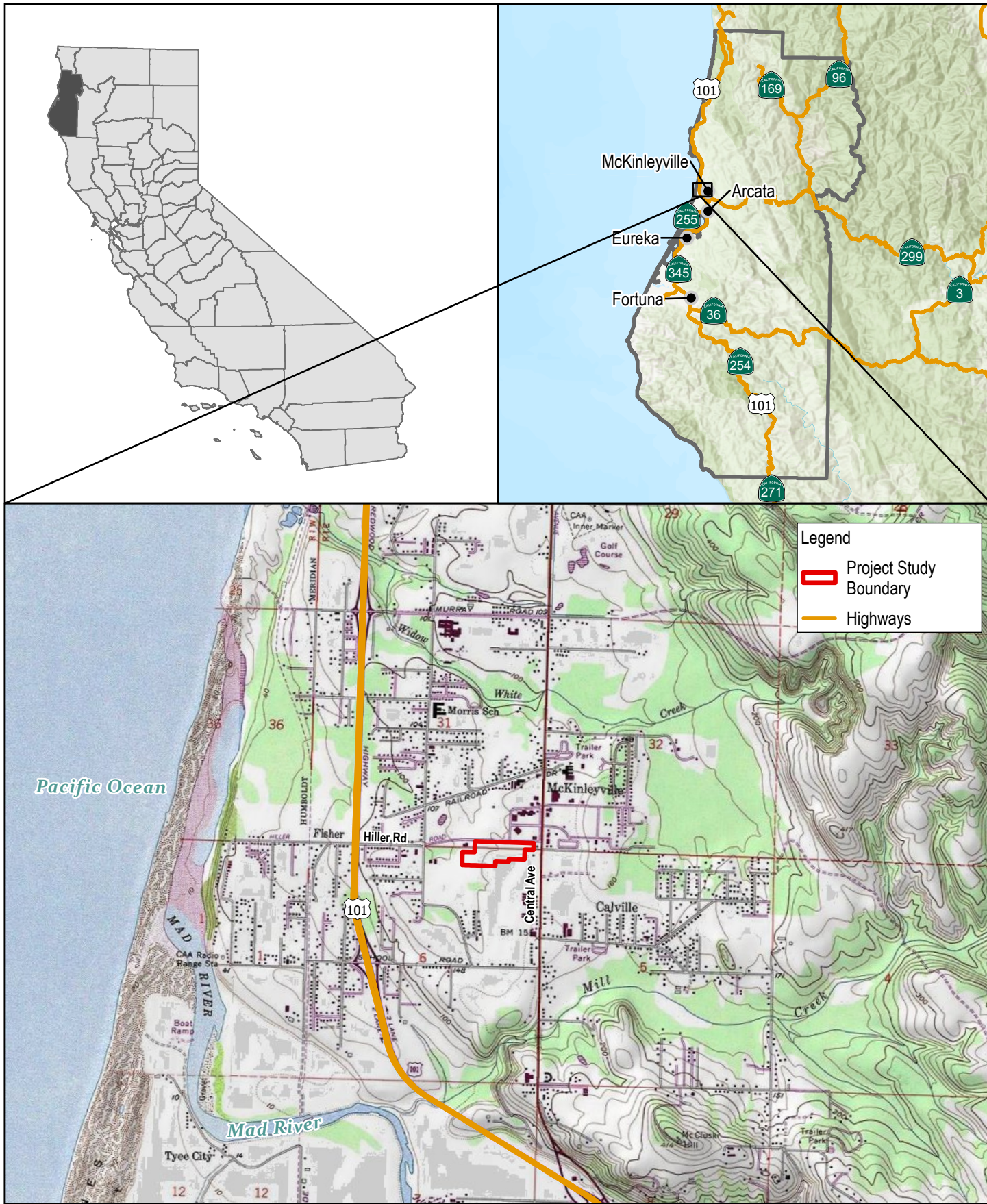
6. References

- Baldwin, B. D. 2012. The Jepson Manual, Second Edition. University of California Press. Berkeley, CA.
- California Department of Fish and Wildlife (CDFW). 2018. Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Sensitive Natural Communities. Sacramento, CA.
- California Department of Fish and Wildlife (CDFW). 2023a. List of California Sensitive Natural Communities. California Department of Fish and Wildlife Natural Communities website. Accessed April 7, 2023. <https://wildlife.ca.gov/Data/VegCAMP/Natural-Communities>
- California Department of Fish and Wildlife (CDFW) 2023b. California Natural Diversity Database (CNDDDB). Sacramento, California. Accessed April 7, 2023 <https://wildlife.ca.gov/Data/CNDDDB/Maps-and-Data#43018410-cnddb-quickview-tool>
- California Native Plant Society (CNPS). 2020. Technical Memorandum: Considerations for including CRPR 4 plant taxa in CEQA biological resource impact analysis. California Native Plant Society. Sacramento, CA.
- California Native Plant Society (CNPS). 2023a. Rare Plant Inventory (online edition, v9.5). California Native Plant Society, Rare Plant Program Website. Accessed April 7, 2023. <http://www.rareplants.cnps.org>
- California Native Plant Society (CNPS). 2023b. A Manual of California Vegetation (online edition). California Native Plant Society. Sacramento, CA. Accessed July 11, 2023. <http://vegetation.cnps.org/>.
- GHD. 2023. Aquatic Resources Delineation Report, Life Plan Humboldt. GHD. Eureka, CA.
- Holland, R. F. 1986. Preliminary Descriptions of the Terrestrial Natural Communities of California. Nongame- Heritage Program, California Department of Fish and Game. Sacramento, CA.
- NatureServe. 2023. NatureServe Explorer: An online encyclopedia of life [web application]. NatureServe, Arlington, Virginia.. Accessed on April 7, 2023. from: <http://explorer.natureserve.org>.
- Sawyer, J. O. and T. Keeler-Wolfe. 2019. A Manual of California Vegetation. Online Edition. California Native Plant Society. Accessed on July 11, 2023. <https://vegetation.cnps.org/>
- Sawyer, J.O., T. Keeler-Wolf, and J.M. Evans. 2009. A Manual of California Vegetation, Second Edition. California Native Plant Society. Sacramento, CA.
- United States Fish and Wildlife Service (USFWS). 2002. General Rare Plant Survey Guidelines by the Endangered Species Recovery Program.
- United States Fish and Wildlife Service (USFWS). 2023. Information for Planning and Consultation (IPaC). Accessed January 9, 2023. <https://ecos.fws.gov/ipac/>

This Technical Memorandum is provided as an interim output under our agreement with Life Plan Humboldt. It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any other way.

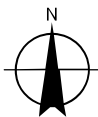
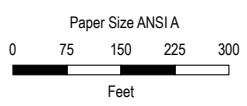
Attachment A

Figures





Legend
 Project Study Boundary



Map Projection: Lambert Conformal Conic
 Horizontal Datum: North American 1983
 Grid: NAD 1983 StatePlane California I FIPS 0401 Feet



Life Plan Humboldt
 Rare Plants and Sensitive Natural Communities Survey
 McKinleyville

**Project Study Boundary
 (PSB)**

Project No. 12603187
 Revision No. -
 Date Jun 2023

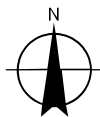
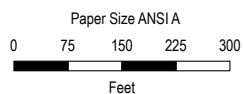
FIGURE 2



Legend

Project Study Boundary

▲ Harlequin lotus (*Hosackia gracilis*): CRPR 4.2



Map Projection: Lambert Conformal Conic
Horizontal Datum: North American 1983
Grid: NAD 1983 StatePlane California I FIPS 0401 Feet

Life Plan Humboldt
Rare Plants and Sensitive Natural Communities Survey
McKinleyville

Project No. 12603187
Revision No. -
Date Jun 2023

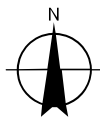
Special Status Species

FIGURE 3



Paper Size ANSI A
0 75 150 225 300
Feet

Map Projection: Lambert Conformal Conic
Horizontal Datum: North American 1983
Grid: NAD 1983 StatePlane California I FIPS 0401 Feet



Life Plan Humboldt
Rare Plants and Sensitive Natural Communities Survey
McKinleyville

**Wetlands and Sensitive Natural
Communities (SNC)**

Project No. 12603187
Revision No. -
Date Jul 2023

FIGURE 4

Attachment B

List of Observed Taxa

Attachment B. Plant species observed in the PSB 2022.

Scientific Name	Common Name	Family	Status
<i>Abies grandis</i>	grand fir	Pinaceae	native
<i>Acemisson parvula</i>	hill lotus	Fabaceae	native
<i>Agrostis stolonifera</i>	redtop	Poaceae	invasive non-native
<i>Alnus rubra</i>	red alder	Betulaceae	native
<i>Anthoxanthum odoratum</i>	sweet vernal grass	Poaceae	invasive non-native
<i>Avena barbata</i>	slim oat	Poaceae	non-native
<i>Baccharis pilularis</i>	coyote brush	Asteraceae	non-native
<i>Bellis perennis</i>	English daisy	Asteraceae	non-native
<i>Brassica nigra</i>	black mustard	Brassicaceae	invasive non-native
<i>Briza maxima</i>	rattlesnake grass	Poaceae	non-native
<i>Bromus carinatus</i>	California brome	Poaceae	native
<i>Bromus diandrus</i>	ripgut	Poaceae	non-native
<i>Bromus hordeaceus</i>	soft chess	Poaceae	invasive non-native
<i>Carex hartfordii</i>	Monterey sedge	Cyperaceae	native
<i>Carex obnupta</i>	slough sedge	Cyperaceae	native
<i>Cerastrium fontanum</i>	common chickweed	Caryophyllaceae	non-native
<i>Cerastrium glomeratum</i>	sticky chickweed	Caryophyllaceae	non-native
<i>Cirsium vulgare</i>	bullthistle	Asteraceae	invasive non-native
<i>Claytonia sibirica</i>	candy flower	Montiaceae	native
<i>Cortaderia sp.</i>	pampas grass	Poaceae	invasive non-native
<i>Crocodymia x crocodymiflora</i>	monbretia	Iridaceae	invasive non-native
<i>Cytisus scoparius</i>	Scotch broom	Fabaceae	invasive non-native
<i>Dactylus glomeratus</i>	orchard grass	Poaceae	non-native
<i>Daucus carota</i>	carrot	Apiaceae	non-native
<i>Daucus pusillus</i>	wild carrot	Apiaceae	native
<i>Epilobium ciliatum</i>	Northern willow herb	Onagraceae	native
<i>Equisetum arvense</i>	common horsetail	Equisetaceae	native
<i>Erigeron canadensis</i>	horseweed	Asteraceae	native
<i>Erodium moschatum</i>	whitestem filaree	Geraniaceae	non-native
<i>Eucalyptus globulus</i>	blue gum	Myrtaceae	invasive non-native
<i>Festuca arundinacea</i>	reed fescue	Poaceae	invasive non-native
<i>Festuca perennis</i>	Italian rye grass	Poaceae	invasive non-native
<i>Fragaria vesca</i>	wild strawberry	Rosaceae	native
<i>Gallium aparine</i>	cleavers	Rubiaceae	non-native
<i>Gaultheria shallon</i>	salal	Ericaceae	native
<i>Geranium dissectum</i>	cutleaf geranium	Geraniaceae	non-native
<i>Geranium molle</i>	dove's foot geranium	Geraniaceae	non-native
<i>Geranium robertianum</i>	Rpobert geranium	Geraniaceae	non-native

This Technical Memorandum is provided as an interim output under our agreement with Life Plan Humboldt. It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any other way.

Scientific Name	Common Name	Family	Status
<i>Holcus lanatus</i>	common velvetgrass	Poaceae	invasive non-native
<i>Hosackia gracilis</i>	harlequin lotus	Fabacea	native (CRPR 4.2)
<i>Hypochaeris glabra</i>	smooth cats ear	Asteraceae	invasive non-native
<i>Hypochaeris radicata</i>	hairy cats ear	Asteraceae	invasive non-native
<i>Ilex aquifolium</i>	holly	Aquifoliaceae	invasive non-native
<i>Juncus effusus</i> var. <i>pacifica</i>	Pacific rush	Juncaceae	native
<i>Juncus hesperius</i>	coast rush	Juncaceae	native
<i>Lactuca saligna</i>	willow lettuce	Asteraceae	non-native
<i>Lapsana communis</i>	nipplewort	Asteraceae	non-native
<i>Leucanthemum vulgare</i>	oxe eye daisy	Asteraceae	invasive non-native
<i>Linum bienne</i>	flax	Linaceae	non-native
<i>Lonicera involucrata</i>	coast twinberry	Caprifoliaceae	native
<i>Lotus corniculatus</i>	bird's foot trefoil	Fabaceae	non-native
<i>Lotus ulginosus</i>	marsh lotus	Fabaceae	non-native
<i>Lupinus rivularis</i>	riverbank lupine	Fabaceae	native
<i>Medicago polymorpha</i>	burclover	Fabaceae	invasive non-native
<i>Narcissus</i> spp.	daffodil	Amaryllidaceae	non-native
<i>Oenanthe sarmentosa</i>	water parsley	Apiaceae	non-native
<i>Oxalis articulata</i>	windowbox woodsorrel	Oxalidaceae	non-native
<i>Oxalis pes-caprae</i>	Burmuda buttercup	Oxalidaceae	invasive non-native
<i>Picea sitchensis</i>	Sitka spruce	Pinaceae	native
<i>Pinus radiata</i>	Monterey pine	Pinaceae	invasive non-native
<i>Plantago lanceolata</i>	ribwort	Plantaginaceae	invasive non-native
<i>Poa annua</i>	annual blue grass	Poaceae	non-native
<i>Polystichum munitum</i>	Western sword fern	Dryopteridaceae	native
<i>Pseudotsuga menziesii</i>	Douglas-fir	Pinaceae	native
<i>Pteridium aquilinum</i>	bracken fern	Dennstaedtiaceae	native
<i>Ranunculus repens</i>	creeping buttercup	Ranunculaceae	invasive non-native
<i>Raphanus sativus</i>	wild radish	Brassicaceae	non-native
<i>Rubus armeniacus</i>	Himalayan blackberry	Rosaceae	invasive non-native
<i>Rubus parviflorus</i>	thimbleberry	Rosaceae	native
<i>Rubus ursinus</i>	California blackberry	Rosaceae	native
<i>Rumex acetosella</i>	sheep sorrel	Polygonaceae	invasive non-native
<i>Rumex crispus</i>	curley dock	Polygonaceae	invasive non-native
<i>Salix hookeriana</i>	coastal willow	Salicaceae	native
<i>Salix sitchensis</i>	Sitka willow	Salicaceae	native
<i>Sambucus racemosa</i>	red elderberry	Viburnaceae	native
<i>Scrophularia californica</i>	California figwort	Scrophulariaceae	native
<i>Sonchus asper</i>	prickly sow thistle	Asteraceae	non-native

This Technical Memorandum is provided as an interim output under our agreement with Life Plan Humboldt. It is provided to foster discussion in relation to technical matters associated with the project and should not be relied upon in any other way.

Scientific Name	Common Name	Family	Status
<i>Stachys chamissonis</i>	hedge nettle	Lamiaceae	native
<i>Taraxacum officinale</i>	common dandelion	Asteraceae	non-native
<i>Trifolium pratensis</i>	red clover	Fabaceae	non-native
<i>Trifolium dubium</i>	lesser trefoil	Fabaceae	non-native
<i>Trifolium repens</i>	white clover	Fabaceae	non-native
<i>Tropaeolum majus</i>	garden nasturtium	Tropaeolaceae	non-native
<i>Vaccinium ovatum</i>	evergreen huckleberry	Ericaceae	native
<i>Veronica anagallis-aquatica</i>	water speedwell	Plantaginaceae	non-native
<i>Vicia americana</i>	American vetch	Fabaceae	native
<i>Vicia sativa</i>	spring vetch	Fabaceae	non-native

Attachment C

Site Photographs

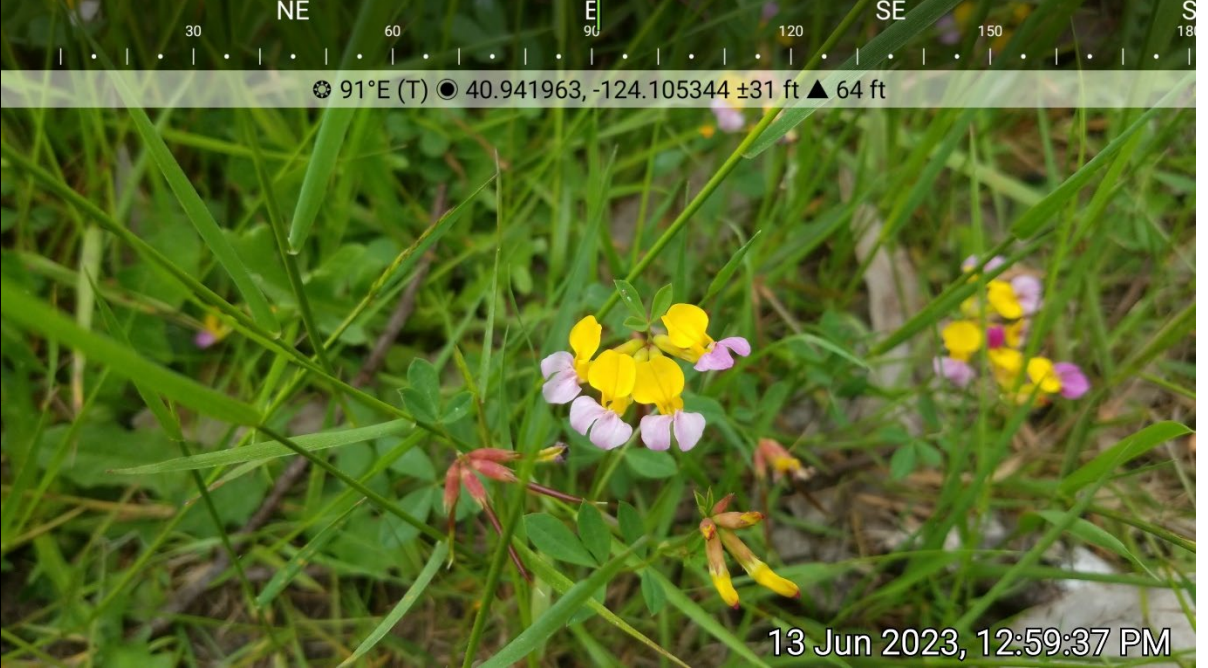
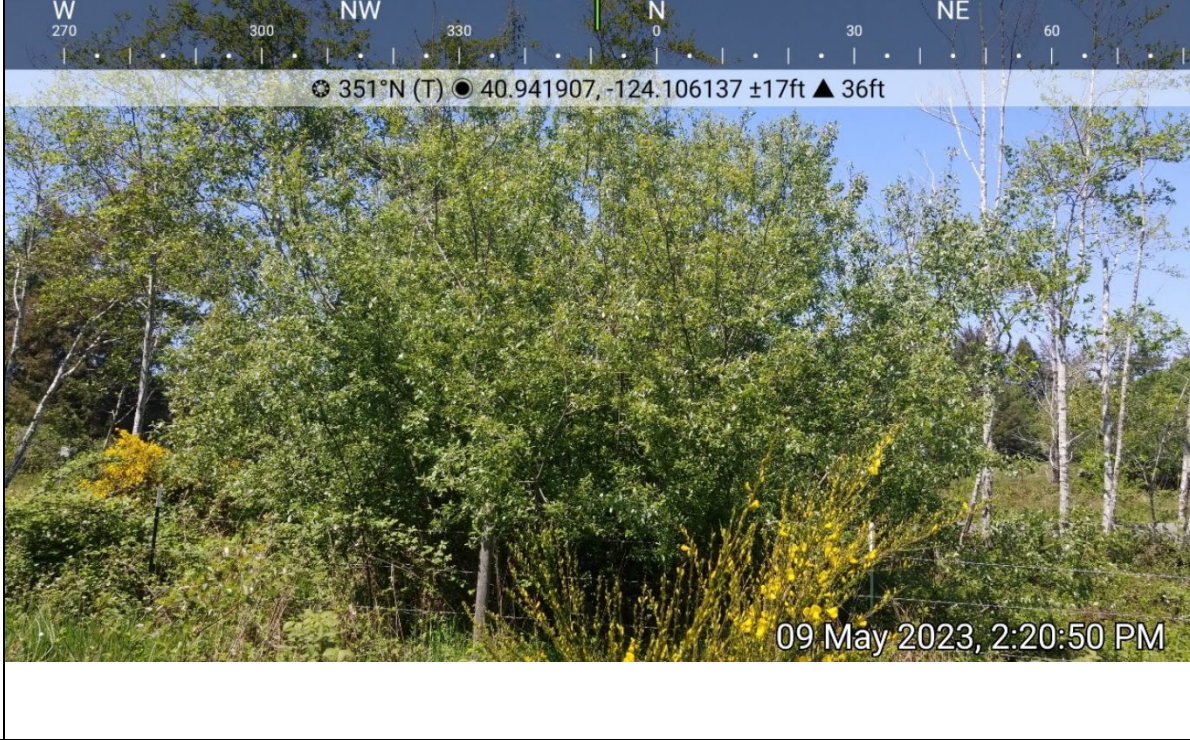
Photo 1: <u>Description:</u> Harlequin lotus (<i>Hosackia gracilis</i>- CRPR 4.2). Approximately 1,000 individuals observed throughout the PSB. <u>Location:</u> 40.941963,- 124.105344 <u>Date:</u> June 13, 2023	
Photo 2: <u>Description:</u> Harlequin lotus (<i>Hosackia gracilis</i>- CRPR 4.2) community associated with non- native <i>A. odoratum</i> and <i>H. lanatus</i>, Integrating closely with non-native <i>L.</i> <i>ulginosus</i>. <u>Location:</u> 40.941691,- 124.105763 <u>Date:</u> June 13, 2023	

Photo 3: <u>Description:</u> Coastal dune willow- Sitka willow – Douglas spiraea (<i>Salix hookeriana</i> - <i>Salix sitchensis</i> - <i>Spiraea douglasii</i>) Shrubland Alliance comprising approximately 3,025 sqft within the PSB. <u>Location:</u> 40.941907,- 124.106137 <u>Date:</u> May 09, 2023	
Photo 4: <u>Description:</u> Coastal dune willow- Sitka willow – Douglas spiraea (<i>Salix hookeriana</i> - <i>Salix sitchensis</i> - <i>Spiraea douglasii</i>) Shrubland Alliance comprising approximately 3,025 sqft within the PSB. <u>Location:</u> 40.941878,- 124.106091 <u>Date:</u> May 09, 2023	

Attachment D

Rapid Assessment Datasheets

Combined Vegetation Rapid Assessment and Relevé Field Form
(Revised March 27, 2018)
SPECIES SHEET

IV. VEGETATION DESCRIPTION

[illegible]

Page 2

Combined Vegetation Rapid Assessment and Relevé Field Form

(Revised March 27, 2018)

For Office Use:	Final database #:	Final vegetation type:	Alliance Association
I. LOCATIONAL/ENVIRONMENTAL DESCRIPTION			circle: Relevé or RA
Database #:	Date: 5/9/2023	Name of recorder: Miles H. Hult - GHD	
	UID:	Other surveyors:	
		Location Name: Hilled Rd. McKinleyville, CA	
GPS name: FOX Arrow 100		For Relevé only: Bearing°, left axis at ID point of Long / Short side	
UTME		UTMN Zone: 11 NAD83 GPS error: ft./ m./ PDOP 1m	
Decimal degrees: LAT 40.941996		LONG -124.106074	
GPS within stand? Yes / No		If No, cite from GPS to stand: distance (m) bearing° inclination°	
and record: Base point ID		Projected UTM: UTME UTMN	
Camera Name: Samsung Galaxy		Cardinal photos at ID point: No	
Other photos: 99		see Attached photo, North bearing from 409419326, -124.106074	
Stand Size (acres): 0.1 , 1-5, >5		Plot Area (m²): 100 / Plot Dimensions x m RA Radius 3 m	
Exposure, Actual°: NE NW SE SW Flat Variable		Steepness, Actual°: 1-5% 0° 15° >5-25° >25	
Topography: Macro: top upper mid lower bottom		Micro: convex flat concave undulating	
Geology code: MSE Soil Texture code: Loam		Upland or Wetland/Riparian (circle one)	
% Surface cover: (Incl. outcrops) (>60cm diam) (25-60cm) (7.5-25cm) (2mm-7.5cm) (Incl sand, mud)			
H2O: 0 BA Stems: 5 Litter: 5 Bedrock: 0 Boulder: 0 Stone: 0 Cobble: 0 Gravel: 0 Fines: 90 =100%			
% Current year bioturbation		Past bioturbation present? Yes / No	
Fire evidence: Yes / No (circle one)		If yes, describe in Site history section, including date of fire, if known.	
Site history, stand age, comments:			
- Adjacent to wet pasture wetland (Juniperus sp., Salix, Ranunculus, etc.) - Some of stand growing on old spoils pile - Site has been actively managed for pasture land - Patchy, small ~ approximately 3000 sq ft total			
Disturbance code / Intensity (L,M,H): 04 / L 0.5 / H 19 / M 1 / "Other" 1			
II. HABITAT DESCRIPTION			
Tree DBH: T1 (<1" dbh), T2 (1-6" dbh), T3 (6-11" dbh), T4 (11-24" dbh), T5 (>24" dbh), T6 multi-layered (T3 or T4 layer under T5, >60% cover)			
Shrub: S1 seedling (<3 yr. old), S2 young (<1% dead), S3 mature (1-25% dead), S4 decadent (>25% dead)			
Herbaceous: H1 (<12" plant ht.), H2 (>12" ht.)			
Desert Riparian Tree/Shrub: 1 (<2ft. stem ht.), 2 (2-10ft. ht.), 3 (10-20ft. ht.), 4 (>20ft. ht.)			
Desert Palm/Joshua Tree: 1 (<1.5" base diameter), 2 (1.5-6" diam.), 3 (>6" diam.)			
III. INTERPRETATION OF STAND			
Field-assessed vegetation Alliance name: Salix hookeriana - Salix sitchensis - Salix douglasii			
Field-assessed Association name (optional): Shrubland Alliance			
Adjacent Alliances/direction: Holcus lanatus - Anthoxanthum odoratum Herbaceous Alliance (911)			
Confidence in Alliance identification: L M H Explain: met membership rules			
Phenology (E,P,L): Herb Shrub X Tree X Other identification or mapping information:			

Attachment E

Database Query Results

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location

Humboldt County, California



Local office

Arcata Fish And Wildlife Office

☎ (707) 822-7201

📅 (707) 822-8411

1655 Heindon Road

Arcata, CA 95521-4573

NOT FOR CONSULTATION

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

-
1. Species listed under the [Endangered Species Act](#) are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information. IPaC only shows species that are regulated by USFWS (see FAQ).

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

The following species are potentially affected by activities in this location:

Mammals

NAME	STATUS
Pacific Marten, Coastal Distinct Population Segment <i>Martes caurina</i> Wherever found There is proposed critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/9081	Threatened

Birds

NAME	STATUS
Marbled Murrelet <i>Brachyramphus marmoratus</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/4467	Threatened
Northern Spotted Owl <i>Strix occidentalis caurina</i> Wherever found There is final critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/1123	Threatened
Western Snowy Plover <i>Charadrius nivosus nivosus</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/8035	Threatened
Yellow-billed Cuckoo <i>Coccyzus americanus</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/3911	Threatened

Reptiles

NAME	STATUS
------	--------

Green Sea Turtle *Chelonia mydas*

Threatened

No critical habitat has been designated for this species.

<https://ecos.fws.gov/ecp/species/6199>

Fishes

NAME

STATUS

Tidewater Goby *Eucyclogobius newberryi*

Endangered

Wherever found

There is **final** critical habitat for this species. Your location does not overlap the critical habitat.<https://ecos.fws.gov/ecp/species/57>

Insects

NAME

STATUS

Monarch Butterfly *Danaus plexippus*

Candidate

Wherever found

No critical habitat has been designated for this species.

<https://ecos.fws.gov/ecp/species/9743>

Flowering Plants

NAME

STATUS

Western Lily *Lilium occidentale*

Endangered

Wherever found

No critical habitat has been designated for this species.

<https://ecos.fws.gov/ecp/species/998>

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described [below](#).

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern <https://www.fws.gov/program/migratory-birds/species>
- Measures for avoiding and minimizing impacts to birds
<https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds>
- Nationwide conservation measures for birds
<https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>

The birds listed below are birds of particular concern either because they occur on the [USFWS Birds of Conservation Concern](#) (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ [below](#). This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the [E-bird data mapping tool](#) (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found [below](#).

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Allen's Hummingbird <i>Selasphorus sasin</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9637	Breeds Feb 1 to Jul 15

Bald Eagle <i>Haliaeetus leucocephalus</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.	Breeds Jan 1 to Sep 30
Black Oystercatcher <i>Haematopus bachmani</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9591	Breeds Apr 15 to Oct 31
Black Swift <i>Cypseloides niger</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/8878	Breeds Jun 15 to Sep 10
Black Turnstone <i>Arenaria melanocephala</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds elsewhere
California Gull <i>Larus californicus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Mar 1 to Jul 31
Cassin's Auklet <i>Ptychoramphus aleuticus</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/6967	Breeds Mar 21 to Sep 21
Clark's Grebe <i>Aechmophorus clarkii</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Jun 1 to Aug 31
Evening Grosbeak <i>Coccothraustes vespertinus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 15 to Aug 10

Golden Eagle *Aquila chrysaetos*

Breeds Jan 1 to Aug 31

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

<https://ecos.fws.gov/ecp/species/1680>

Lesser Yellowlegs *Tringa flavipes*

Breeds elsewhere

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/9679>

Marbled Godwit *Limosa fedoa*

Breeds elsewhere

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/9481>

Olive-sided Flycatcher *Contopus cooperi*

Breeds May 20 to Aug 31

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/3914>

Rufous Hummingbird *selasphorus rufus*

Breeds Apr 15 to Jul 15

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/8002>

Short-billed Dowitcher *Limnodromus griseus*

Breeds Jun 1 to Aug 10

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/9480>

Western Grebe *aechmophorus occidentalis*

Breeds Jun 1 to Aug 31

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

<https://ecos.fws.gov/ecp/species/6743>

Willet *Tringa semipalmata*

Breeds elsewhere

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Wrentit *Chamaea fasciata*

Breeds Mar 15 to Aug 10

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (I)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

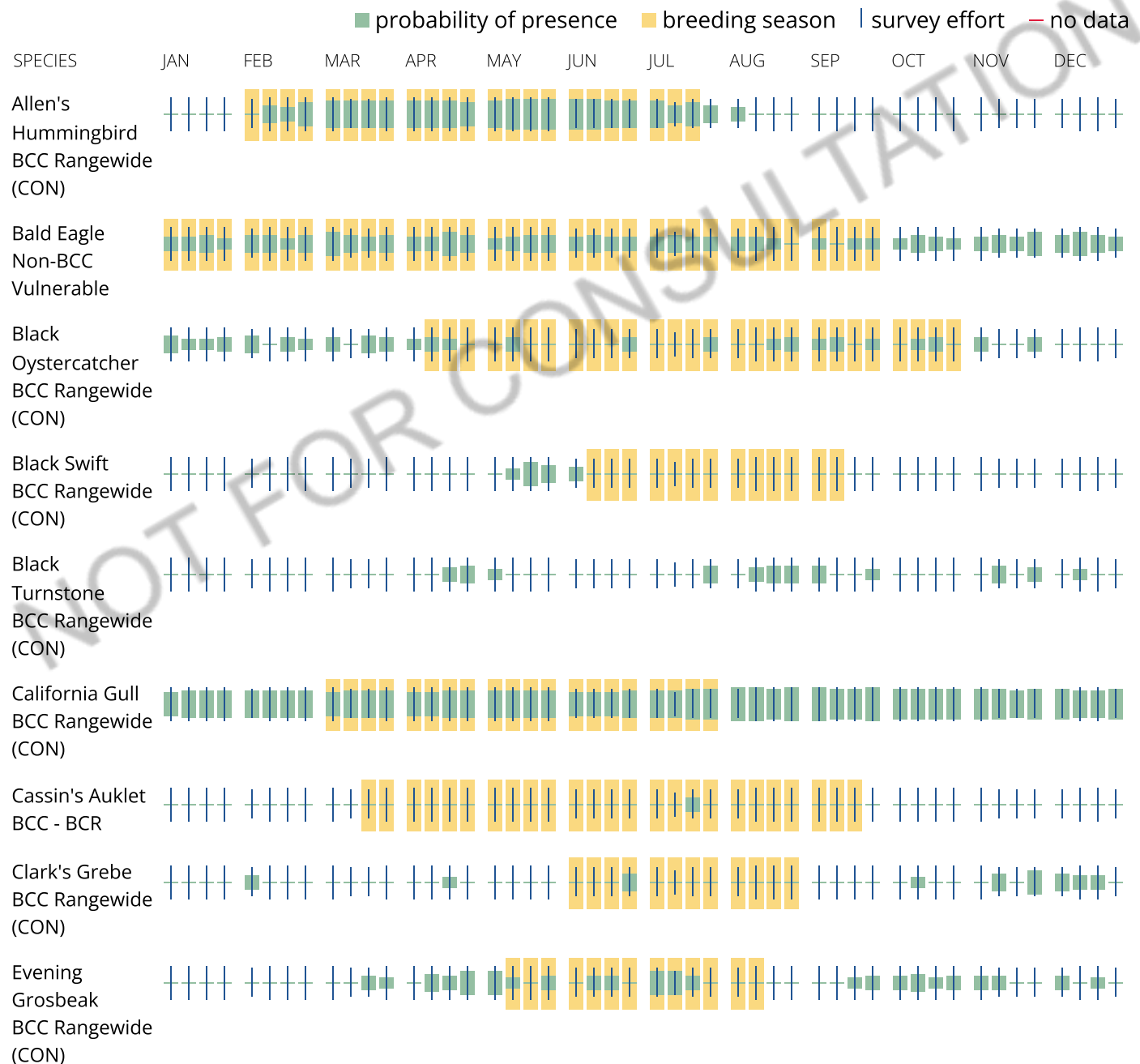
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

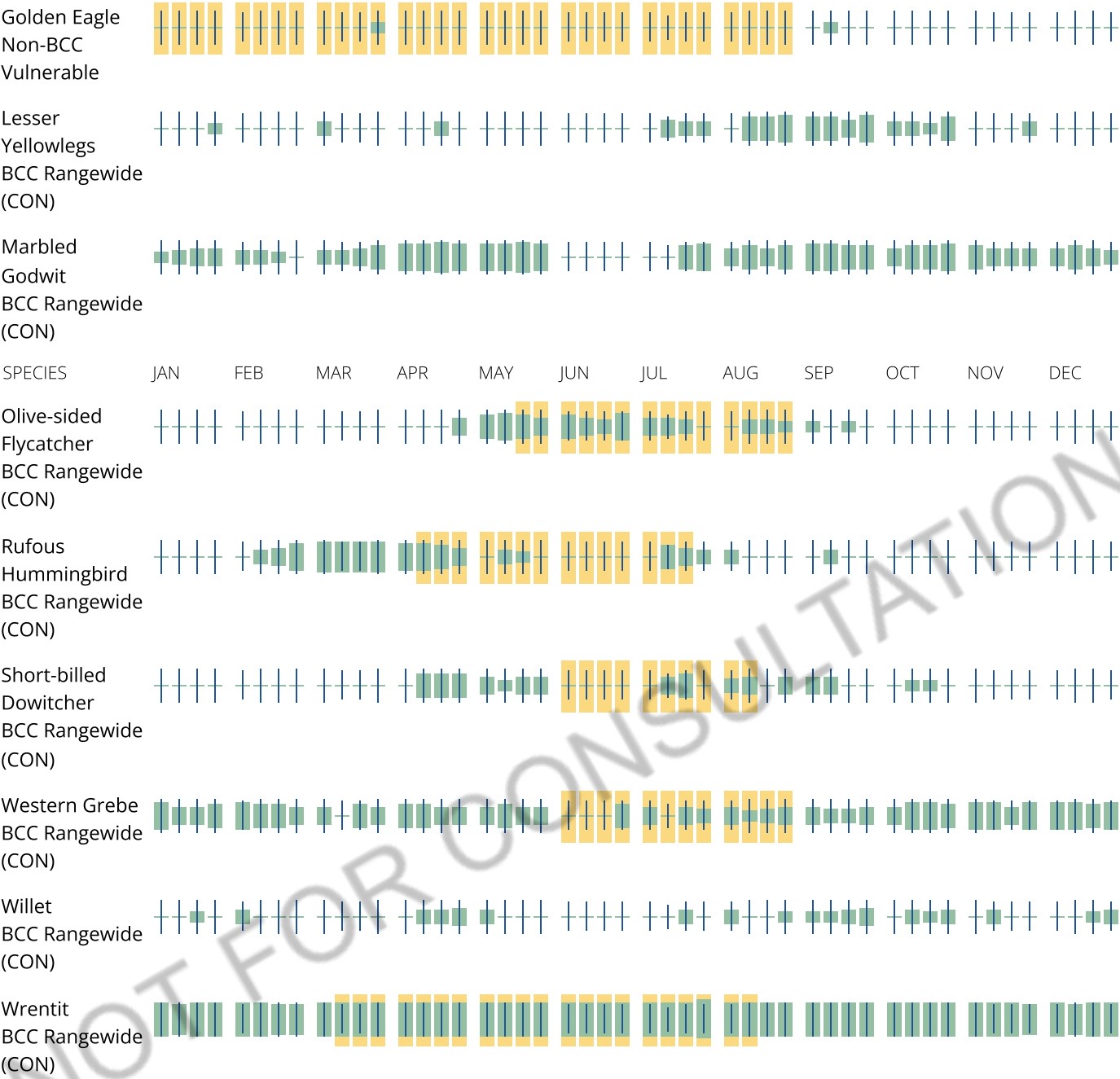
No Data (—)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.





Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [Rapid Avian Information Locator \(RAIL\) Tool](#).

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go to the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the [RAIL Tool](#) and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory (NWI)

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

Wetland information is not available at this time

This can happen when the National Wetlands Inventory (NWI) map service is unavailable, or for very large projects that intersect many wetland areas. Try again, or visit the [NWI map](#) to view wetlands at this location.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

Element_Type	Scientific_Name	Common_Name	Element_Code	Federal_Status	State_Status	CDFW_Status	CA_Rare_Plant_Rank	Quad_Code	Quad_Name	Data_Status	Taxonomic_Sort
Animals - Amphibians	Ascaphus truei	Pacific tailed frog	AAABA01010	None	None	SSC	-	4112411	CRANNELL	Mapped and Unprocessed	Animals - Amphibians - Ascaphidae - Ascaphus truei
Animals - Amphibians	Ascaphus truei	Pacific tailed frog	AAABA01010	None	None	SSC	-	4112318	PANTHER CREEK	Mapped and Unprocessed	Animals - Amphibians - Ascaphidae - Ascaphus truei
Animals - Amphibians	Ascaphus truei	Pacific tailed frog	AAABA01010	None	None	SSC	-	4012481	ARCATA NORTH	Mapped and Unprocessed	Animals - Amphibians - Ascaphidae - Ascaphus truei
Animals - Amphibians	Ascaphus truei	Pacific tailed frog	AAABA01010	None	None	SSC	-	4012388	BLUE LAKE	Mapped and Unprocessed	Animals - Amphibians - Ascaphidae - Ascaphus truei
Animals - Amphibians	Ascaphus truei	Pacific tailed frog	AAABA01010	None	None	SSC	-	4012471	ARCATA SOUTH	Mapped and Unprocessed	Animals - Amphibians - Ascaphidae - Ascaphus truei
Animals - Amphibians	Ascaphus truei	Pacific tailed frog	AAABA01010	None	None	SSC	-	4012378	KORBEL	Mapped and Unprocessed	Animals - Amphibians - Ascaphidae - Ascaphus truei
Animals - Amphibians	Plethodon elongatus	Del Norte salamander	AAAAD12050	None	None	WL	-	4012378	KORBEL	Mapped and Unprocessed	Animals - Amphibians - Plethodontidae - Plethodon elongatus
Animals - Amphibians	Plethodon elongatus	Del Norte salamander	AAAAD12050	None	None	WL	-	4012388	BLUE LAKE	Mapped and Unprocessed	Animals - Amphibians - Plethodontidae - Plethodon elongatus
Animals - Amphibians	Plethodon elongatus	Del Norte salamander	AAAAD12050	None	None	WL	-	4112318	PANTHER CREEK	Mapped and Unprocessed	Animals - Amphibians - Plethodontidae - Plethodon elongatus
Animals - Amphibians	Plethodon elongatus	Del Norte salamander	AAAAD12050	None	None	WL	-	4112411	CRANNELL	Unprocessed	Animals - Amphibians - Plethodontidae - Plethodon elongatus
Animals - Amphibians	Rana aurora	northern red-legged frog	AAABH01021	None	None	SSC	-	4112411	CRANNELL	Mapped and Unprocessed	Animals - Amphibians - Ranidae - Rana aurora
Animals - Amphibians	Rana aurora	northern red-legged frog	AAABH01021	None	None	SSC	-	4112318	PANTHER CREEK	Mapped	Animals - Amphibians - Ranidae - Rana aurora
Animals - Amphibians	Rana aurora	northern red-legged frog	AAABH01021	None	None	SSC	-	4012481	ARCATA NORTH	Mapped and Unprocessed	Animals - Amphibians - Ranidae - Rana aurora
Animals - Amphibians	Rana aurora	northern red-legged frog	AAABH01021	None	None	SSC	-	4012482	TYEE CITY	Mapped	Animals - Amphibians - Ranidae - Rana aurora
Animals - Amphibians	Rana aurora	northern red-legged frog	AAABH01021	None	None	SSC	-	4012388	BLUE LAKE	Mapped and Unprocessed	Animals - Amphibians - Ranidae - Rana aurora
Animals - Amphibians	Rana aurora	northern red-legged frog	AAABH01021	None	None	SSC	-	4012472	EUREKA	Mapped and Unprocessed	Animals - Amphibians - Ranidae - Rana aurora
Animals - Amphibians	Rana aurora	northern red-legged frog	AAABH01021	None	None	SSC	-	4012471	ARCATA SOUTH	Mapped and Unprocessed	Animals - Amphibians - Ranidae - Rana aurora
Animals - Amphibians	Rana aurora	northern red-legged frog	AAABH01021	None	None	SSC	-	4012378	KORBEL	Mapped and Unprocessed	Animals - Amphibians - Ranidae - Rana aurora
Animals - Amphibians	Rana boylei pop. 1	foothill yellow-legged frog - north coast DPS	AAABH01051	None	None	SSC	-	4012378	KORBEL	Mapped and Unprocessed	Animals - Amphibians - Ranidae - Rana boylei pop. 1
Animals - Amphibians	Rana boylei pop. 1	foothill yellow-legged frog - north coast DPS	AAABH01051	None	None	SSC	-	4012471	ARCATA SOUTH	Mapped	Animals - Amphibians - Ranidae - Rana boylei pop. 1
Animals - Amphibians	Rana boylei pop. 1	foothill yellow-legged frog - north coast DPS	AAABH01051	None	None	SSC	-	4012388	BLUE LAKE	Mapped and Unprocessed	Animals - Amphibians - Ranidae - Rana boylei pop. 1
Animals - Amphibians	Rana boylei pop. 1	foothill yellow-legged frog - north coast DPS	AAABH01051	None	None	SSC	-	4012481	ARCATA NORTH	Mapped and Unprocessed	Animals - Amphibians - Ranidae - Rana boylei pop. 1
Animals - Amphibians	Rana boylei pop. 1	foothill yellow-legged frog - north coast DPS	AAABH01051	None	None	SSC	-	4112318	PANTHER CREEK	Mapped	Animals - Amphibians - Ranidae - Rana boylei pop. 1
Animals - Amphibians	Rana boylei pop. 1	foothill yellow-legged frog - north coast DPS	AAABH01051	None	None	SSC	-	4112411	CRANNELL	Mapped	Animals - Amphibians - Ranidae - Rana boylei pop. 1

Animals - Amphibians	Rhyacotriton variegatus	southern torrent salamander	AAAAJ01020	None	None	SSC	-	4112411	CRANNELL	Mapped and Unprocessed	Animals - Amphibians - Rhyacotritonidae - Rhyacotriton variegatus
Animals - Amphibians	Rhyacotriton variegatus	southern torrent salamander	AAAAJ01020	None	None	SSC	-	4112318	PANTHER CREEK	Mapped and Unprocessed	Animals - Amphibians - Rhyacotritonidae - Rhyacotriton variegatus
Animals - Amphibians	Rhyacotriton variegatus	southern torrent salamander	AAAAJ01020	None	None	SSC	-	4012481	ARCATA NORTH	Mapped and Unprocessed	Animals - Amphibians - Rhyacotritonidae - Rhyacotriton variegatus
Animals - Amphibians	Rhyacotriton variegatus	southern torrent salamander	AAAAJ01020	None	None	SSC	-	4012388	BLUE LAKE	Mapped and Unprocessed	Animals - Amphibians - Rhyacotritonidae - Rhyacotriton variegatus
Animals - Amphibians	Rhyacotriton variegatus	southern torrent salamander	AAAAJ01020	None	None	SSC	-	4012471	ARCATA SOUTH	Mapped and Unprocessed	Animals - Amphibians - Rhyacotritonidae - Rhyacotriton variegatus
Animals - Amphibians	Rhyacotriton variegatus	southern torrent salamander	AAAAJ01020	None	None	SSC	-	4012378	KORBEL	Mapped and Unprocessed	Animals - Amphibians - Rhyacotritonidae - Rhyacotriton variegatus
Animals - Birds	Accipiter cooperii	Coopers hawk	ABNKC12040	None	None	WL	-	4012378	KORBEL	Mapped	Animals - Birds - Accipitridae - Accipiter cooperii
Animals - Birds	Accipiter cooperii	Coopers hawk	ABNKC12040	None	None	WL	-	4012471	ARCATA SOUTH	Unprocessed	Animals - Birds - Accipitridae - Accipiter cooperii
Animals - Birds	Accipiter cooperii	Coopers hawk	ABNKC12040	None	None	WL	-	4012472	EUREKA	Unprocessed	Animals - Birds - Accipitridae - Accipiter cooperii
Animals - Birds	Accipiter cooperii	Coopers hawk	ABNKC12040	None	None	WL	-	4012482	TYEE CITY	Unprocessed	Animals - Birds - Accipitridae - Accipiter cooperii
Animals - Birds	Accipiter striatus	sharp-shinned hawk	ABNKC12020	None	None	WL	-	4012481	ARCATA NORTH	Unprocessed	Animals - Birds - Accipitridae - Accipiter striatus
Animals - Birds	Circus hudsonius	northern harrier	ABNKC11011	None	None	SSC	-	4012481	ARCATA NORTH	Unprocessed	Animals - Birds - Accipitridae - Circus hudsonius
Animals - Birds	Circus hudsonius	northern harrier	ABNKC11011	None	None	SSC	-	4012482	TYEE CITY	Unprocessed	Animals - Birds - Accipitridae - Circus hudsonius
Animals - Birds	Circus hudsonius	northern harrier	ABNKC11011	None	None	SSC	-	4012472	EUREKA	Mapped and Unprocessed	Animals - Birds - Accipitridae - Circus hudsonius
Animals - Birds	Circus hudsonius	northern harrier	ABNKC11011	None	None	SSC	-	4012471	ARCATA SOUTH	Unprocessed	Animals - Birds - Accipitridae - Circus hudsonius
Animals - Birds	Elanus leucurus	white-tailed kite	ABNKC06010	None	None	FP	-	4012471	ARCATA SOUTH	Unprocessed	Animals - Birds - Accipitridae - Elanus leucurus
Animals - Birds	Elanus leucurus	white-tailed kite	ABNKC06010	None	None	FP	-	4012472	EUREKA	Mapped	Animals - Birds - Accipitridae - Elanus leucurus
Animals - Birds	Elanus leucurus	white-tailed kite	ABNKC06010	None	None	FP	-	4012481	ARCATA NORTH	Mapped and Unprocessed	Animals - Birds - Accipitridae - Elanus leucurus
Animals - Birds	Haliaeetus leucocephalus	bald eagle	ABNKC10010	Delisted	Endangered	FP	-	4012471	ARCATA SOUTH	Mapped and Unprocessed	Animals - Birds - Accipitridae - Haliaeetus leucocephalus
Animals - Birds	Haliaeetus leucocephalus	bald eagle	ABNKC10010	Delisted	Endangered	FP	-	4012378	KORBEL	Mapped and Unprocessed	Animals - Birds - Accipitridae - Haliaeetus leucocephalus
Animals - Birds	Brachyramphus marmoratus	marbled murrelet	ABNNN06010	Threatened	Endangered	-	-	4012472	EUREKA	Unprocessed	Animals - Birds - Alcidae - Brachyramphus marmoratus
Animals - Birds	Cerorhinca monocerata	rhinoceros auklet	ABNNN11010	None	None	WL	-	4112411	CRANNELL	Mapped	Animals - Birds - Alcidae - Cerorhinca monocerata
Animals - Birds	Fratercula cirrhata	tufted puffin	ABNNN12010	None	None	SSC	-	4112411	CRANNELL	Mapped	Animals - Birds - Alcidae - Fratercula cirrhata
Animals - Birds	Chaetura vauxi	Vauxs swift	ABNUA03020	None	None	SSC	-	4012472	EUREKA	Unprocessed	Animals - Birds - Apodidae - Chaetura vauxi
Animals - Birds	Ardea alba	great egret	ABNGA04040	None	None	-	-	4012472	EUREKA	Mapped and Unprocessed	Animals - Birds - Ardeidae - Ardea alba
Animals - Birds	Ardea herodias	great blue heron	ABNGA04010	None	None	-	-	4012472	EUREKA	Mapped and Unprocessed	Animals - Birds - Ardeidae - Ardea herodias
Animals - Birds	Ardea herodias	great blue heron	ABNGA04010	None	None	-	-	4012471	ARCATA SOUTH	Mapped	Animals - Birds - Ardeidae - Ardea herodias
Animals - Birds	Ardea herodias	great blue heron	ABNGA04010	None	None	-	-	4012481	ARCATA NORTH	Mapped and Unprocessed	Animals - Birds - Ardeidae - Ardea herodias
Animals - Birds	Ardea herodias	great blue heron	ABNGA04010	None	None	-	-	4012482	TYEE CITY	Unprocessed	Animals - Birds - Ardeidae - Ardea herodias

											herodias
Animals - Birds	Ardea herodias	great blue heron	ABNGA04010	None	None	-	-	4012378	KORBEL	Unprocessed	Animals - Birds - Ardeidae - Ardea herodias
Animals - Birds	Botaurus lentiginosus	American bittern	ABNGA01020	None	None	-	-	4012481	ARCATA NORTH	Unprocessed	Animals - Birds - Ardeidae - Botaurus lentiginosus
Animals - Birds	Botaurus lentiginosus	American bittern	ABNGA01020	None	None	-	-	4012471	ARCATA SOUTH	Unprocessed	Animals - Birds - Ardeidae - Botaurus lentiginosus
Animals - Birds	Egretta thula	snowy egret	ABNGA06030	None	None	-	-	4012472	EUREKA	Mapped and Unprocessed	Animals - Birds - Ardeidae - Egretta thula
Animals - Birds	Egretta thula	snowy egret	ABNGA06030	None	None	-	-	4012482	TYEE CITY	Unprocessed	Animals - Birds - Ardeidae - Egretta thula
Animals - Birds	Nycticorax nycticorax	black-crowned night heron	ABNGA11010	None	None	-	-	4012482	TYEE CITY	Unprocessed	Animals - Birds - Ardeidae - Nycticorax nycticorax
Animals - Birds	Nycticorax nycticorax	black-crowned night heron	ABNGA11010	None	None	-	-	4012472	EUREKA	Mapped and Unprocessed	Animals - Birds - Ardeidae - Nycticorax nycticorax
Animals - Birds	Nycticorax nycticorax	black-crowned night heron	ABNGA11010	None	None	-	-	4012388	BLUE LAKE	Mapped and Unprocessed	Animals - Birds - Ardeidae - Nycticorax nycticorax
Animals - Birds	Nycticorax nycticorax	black-crowned night heron	ABNGA11010	None	None	-	-	4012471	ARCATA SOUTH	Mapped	Animals - Birds - Ardeidae - Nycticorax nycticorax
Animals - Birds	Nycticorax nycticorax	black-crowned night heron	ABNGA11010	None	None	-	-	4012378	KORBEL	Unprocessed	Animals - Birds - Ardeidae - Nycticorax nycticorax
Animals - Birds	Charadrius montanus	mountain plover	ABNNB03100	None	None	SSC	-	4012471	ARCATA SOUTH	Mapped	Animals - Birds - Charadriidae - Charadrius montanus
Animals - Birds	Charadrius montanus	mountain plover	ABNNB03100	None	None	SSC	-	4012472	EUREKA	Mapped and Unprocessed	Animals - Birds - Charadriidae - Charadrius montanus
Animals - Birds	Charadrius montanus	mountain plover	ABNNB03100	None	None	SSC	-	4012482	TYEE CITY	Unprocessed	Animals - Birds - Charadriidae - Charadrius montanus
Animals - Birds	Charadrius montanus	mountain plover	ABNNB03100	None	None	SSC	-	4012481	ARCATA NORTH	Unprocessed	Animals - Birds - Charadriidae - Charadrius montanus
Animals - Birds	Charadrius montanus	mountain plover	ABNNB03100	None	None	SSC	-	4112411	CRANNELL	Unprocessed	Animals - Birds - Charadriidae - Charadrius montanus
Animals - Birds	Charadrius nivosus nivosus	western snowy plover	ABNNB03031	Threatened	None	SSC	-	4112411	CRANNELL	Unprocessed	Animals - Birds - Charadriidae - Charadrius nivosus nivosus
Animals - Birds	Charadrius nivosus nivosus	western snowy plover	ABNNB03031	Threatened	None	SSC	-	4012481	ARCATA NORTH	Mapped and Unprocessed	Animals - Birds - Charadriidae - Charadrius nivosus nivosus
Animals - Birds	Charadrius nivosus nivosus	western snowy plover	ABNNB03031	Threatened	None	SSC	-	4012482	TYEE CITY	Mapped and Unprocessed	Animals - Birds - Charadriidae - Charadrius nivosus nivosus
Animals - Birds	Charadrius nivosus nivosus	western snowy plover	ABNNB03031	Threatened	None	SSC	-	4012472	EUREKA	Mapped and Unprocessed	Animals - Birds - Charadriidae - Charadrius nivosus nivosus
Animals - Birds	Falco columbarius	merlin	ABNKD06030	None	None	WL	-	4012472	EUREKA	Unprocessed	Animals - Birds - Falconidae - Falco columbarius
Animals - Birds	Falco peregrinus anatum	American peregrine falcon	ABNKD06071	Delisted	Delisted	FP	-	4012472	EUREKA	Mapped and Unprocessed	Animals - Birds - Falconidae - Falco peregrinus anatum
Animals - Birds	Falco peregrinus anatum	American peregrine falcon	ABNKD06071	Delisted	Delisted	FP	-	4012481	ARCATA NORTH	Mapped	Animals - Birds - Falconidae - Falco peregrinus anatum
Animals - Birds	Falco peregrinus anatum	American peregrine falcon	ABNKD06071	Delisted	Delisted	FP	-	4112411	CRANNELL	Unprocessed	Animals - Birds - Falconidae - Falco peregrinus anatum
Animals - Birds	Falco peregrinus anatum	American peregrine falcon	ABNKD06071	Delisted	Delisted	FP	-	4012471	ARCATA SOUTH	Mapped and Unprocessed	Animals - Birds - Falconidae - Falco peregrinus anatum
Animals - Birds	Riparia riparia	bank swallow	ABPAU08010	None	Threatened	-	-	4012378	KORBEL	Mapped	Animals - Birds - Hirundinidae - Riparia riparia
Animals - Birds	Riparia riparia	bank swallow	ABPAU08010	None	Threatened	-	-	4112411	CRANNELL	Mapped	Animals - Birds - Hirundinidae - Riparia riparia
Animals - Birds	Riparia riparia	bank swallow	ABPAU08010	None	Threatened	-	-	4012481	ARCATA NORTH	Mapped and Unprocessed	Animals - Birds - Hirundinidae - Riparia riparia

Animals - Birds	Riparia riparia	bank swallow	ABPAU08010	None	Threatened	-	-	4012472	EUREKA	Mapped	Animals - Birds - Hirundinidae - Riparia riparia
Animals - Birds	Hydrobates furcatus	fork-tailed storm-petrel	ABNDC04010	None	None	SSC	-	4112411	CRANNELL	Mapped and Unprocessed	Animals - Birds - Hydrobatidae - Hydrobates furcatus
Animals - Birds	Icteria virens	yellow-breasted chat	ABPBX24010	None	None	SSC	-	4012378	KORBEL	Unprocessed	Animals - Birds - Icteridae - Icteria virens
Animals - Birds	Pandion haliaetus	osprey	ABNKC01010	None	None	WL	-	4012378	KORBEL	Mapped and Unprocessed	Animals - Birds - Pandionidae - Pandion haliaetus
Animals - Birds	Pandion haliaetus	osprey	ABNKC01010	None	None	WL	-	4112411	CRANNELL	Mapped	Animals - Birds - Pandionidae - Pandion haliaetus
Animals - Birds	Pandion haliaetus	osprey	ABNKC01010	None	None	WL	-	4012481	ARCATA NORTH	Mapped and Unprocessed	Animals - Birds - Pandionidae - Pandion haliaetus
Animals - Birds	Pandion haliaetus	osprey	ABNKC01010	None	None	WL	-	4012482	TYEE CITY	Unprocessed	Animals - Birds - Pandionidae - Pandion haliaetus
Animals - Birds	Pandion haliaetus	osprey	ABNKC01010	None	None	WL	-	4012471	ARCATA SOUTH	Mapped and Unprocessed	Animals - Birds - Pandionidae - Pandion haliaetus
Animals - Birds	Pandion haliaetus	osprey	ABNKC01010	None	None	WL	-	4012472	EUREKA	Mapped and Unprocessed	Animals - Birds - Pandionidae - Pandion haliaetus
Animals - Birds	Pandion haliaetus	osprey	ABNKC01010	None	None	WL	-	4012388	BLUE LAKE	Unprocessed	Animals - Birds - Pandionidae - Pandion haliaetus
Animals - Birds	Poecile atricapillus	black-capped chickadee	ABPAW01010	None	None	WL	-	4012472	EUREKA	Unprocessed	Animals - Birds - Paridae - Poecile atricapillus
Animals - Birds	Poecile atricapillus	black-capped chickadee	ABPAW01010	None	None	WL	-	4012481	ARCATA NORTH	Unprocessed	Animals - Birds - Paridae - Poecile atricapillus
Animals - Birds	Poecile atricapillus	black-capped chickadee	ABPAW01010	None	None	WL	-	4012378	KORBEL	Unprocessed	Animals - Birds - Paridae - Poecile atricapillus
Animals - Birds	Passerculus sandwichensis alaudinus	Bryants savannah sparrow	ABPBX99011	None	None	SSC	-	4012471	ARCATA SOUTH	Unprocessed	Animals - Birds - Passerellidae - Passerculus sandwichensis alaudinus
Animals - Birds	Passerculus sandwichensis alaudinus	Bryants savannah sparrow	ABPBX99011	None	None	SSC	-	4012481	ARCATA NORTH	Unprocessed	Animals - Birds - Passerellidae - Passerculus sandwichensis alaudinus
Animals - Birds	Passerculus sandwichensis alaudinus	Bryants savannah sparrow	ABPBX99011	None	None	SSC	-	4012472	EUREKA	Unprocessed	Animals - Birds - Passerellidae - Passerculus sandwichensis alaudinus
Animals - Birds	Pelecanus occidentalis californicus	California brown pelican	ABNFC01021	Delisted	Delisted	FP	-	4012471	ARCATA SOUTH	Unprocessed	Animals - Birds - Pelecanidae - Pelecanus occidentalis californicus
Animals - Birds	Pelecanus occidentalis californicus	California brown pelican	ABNFC01021	Delisted	Delisted	FP	-	4012472	EUREKA	Unprocessed	Animals - Birds - Pelecanidae - Pelecanus occidentalis californicus
Animals - Birds	Pelecanus occidentalis californicus	California brown pelican	ABNFC01021	Delisted	Delisted	FP	-	4012482	TYEE CITY	Unprocessed	Animals - Birds - Pelecanidae - Pelecanus occidentalis californicus
Animals - Birds	Pelecanus occidentalis californicus	California brown pelican	ABNFC01021	Delisted	Delisted	FP	-	4112411	CRANNELL	Unprocessed	Animals - Birds - Pelecanidae - Pelecanus occidentalis californicus
Animals - Birds	Nannopterum auritum	double-crested cormorant	ABNFD01020	None	None	WL	-	4112411	CRANNELL	Mapped and Unprocessed	Animals - Birds - Phalacrocoracidae - Nannopterum auritum
Animals - Birds	Nannopterum auritum	double-crested cormorant	ABNFD01020	None	None	WL	-	4012472	EUREKA	Unprocessed	Animals - Birds - Phalacrocoracidae - Nannopterum auritum
Animals - Birds	Nannopterum auritum	double-crested cormorant	ABNFD01020	None	None	WL	-	4012471	ARCATA SOUTH	Mapped	Animals - Birds - Phalacrocoracidae - Nannopterum auritum
Animals - Birds	Nannopterum auritum	double-crested cormorant	ABNFD01020	None	None	WL	-	4012378	KORBEL	Unprocessed	Animals - Birds - Phalacrocoracidae - Nannopterum auritum
Animals - Birds	Sphyrapicus ruber	red-breasted sapsucker	ABNYF05020	None	None	-	-	4012472	EUREKA	Unprocessed	Animals - Birds - Picidae - Sphyrapicus ruber
Animals - Birds	Coturnicops noveboracensis	yellow rail	ABNME01010	None	None	SSC	-	4012472	EUREKA	Mapped and Unprocessed	Animals - Birds - Rallidae - Coturnicops noveboracensis
Animals - Birds	Coturnicops noveboracensis	yellow rail	ABNME01010	None	None	SSC	-	4012471	ARCATA SOUTH	Mapped and Unprocessed	Animals - Birds - Rallidae - Coturnicops noveboracensis

Animals - Birds	Rallus obsoletus obsoletus	California Ridgways rail	ABNME05011	Endangered	Endangered	FP	-	4012472	EUREKA	Mapped and Unprocessed	Animals - Birds - Rallidae - Rallus obsoletus obsoletus
Animals - Birds	Rallus obsoletus obsoletus	California Ridgways rail	ABNME05011	Endangered	Endangered	FP	-	4012482	TYEE CITY	Mapped	Animals - Birds - Rallidae - Rallus obsoletus obsoletus
Animals - Birds	Numenius americanus	long-billed curlew	ABNNF07070	None	None	WL	-	4012471	ARCATA SOUTH	Unprocessed	Animals - Birds - Scolopacidae - Numenius americanus
Animals - Birds	Asio flammeus	short-eared owl	ABNSB13040	None	None	SSC	-	4012471	ARCATA SOUTH	Unprocessed	Animals - Birds - Strigidae - Asio flammeus
Animals - Birds	Asio flammeus	short-eared owl	ABNSB13040	None	None	SSC	-	4012481	ARCATA NORTH	Unprocessed	Animals - Birds - Strigidae - Asio flammeus
Animals - Birds	Asio flammeus	short-eared owl	ABNSB13040	None	None	SSC	-	4012472	EUREKA	Unprocessed	Animals - Birds - Strigidae - Asio flammeus
Animals - Birds	Asio otus	long-eared owl	ABNSB13010	None	None	SSC	-	4012388	BLUE LAKE	Unprocessed	Animals - Birds - Strigidae - Asio otus
Animals - Birds	Strix occidentalis caurina	Northern Spotted Owl	ABNSB12011	Threatened	Threatened	-	-	4012378	KORBEL	Mapped	Animals - Birds - Strigidae - Strix occidentalis caurina
Animals - Birds	Strix occidentalis caurina	Northern Spotted Owl	ABNSB12011	Threatened	Threatened	-	-	4012388	BLUE LAKE	Mapped	Animals - Birds - Strigidae - Strix occidentalis caurina
Animals - Birds	Strix occidentalis caurina	Northern Spotted Owl	ABNSB12011	Threatened	Threatened	-	-	4012471	ARCATA SOUTH	Mapped	Animals - Birds - Strigidae - Strix occidentalis caurina
Animals - Birds	Strix occidentalis caurina	Northern Spotted Owl	ABNSB12011	Threatened	Threatened	-	-	4012472	EUREKA	Mapped	Animals - Birds - Strigidae - Strix occidentalis caurina
Animals - Birds	Strix occidentalis caurina	Northern Spotted Owl	ABNSB12011	Threatened	Threatened	-	-	4012481	ARCATA NORTH	Mapped	Animals - Birds - Strigidae - Strix occidentalis caurina
Animals - Birds	Strix occidentalis caurina	Northern Spotted Owl	ABNSB12011	Threatened	Threatened	-	-	4112318	PANTHER CREEK	Mapped	Animals - Birds - Strigidae - Strix occidentalis caurina
Animals - Birds	Strix occidentalis caurina	Northern Spotted Owl	ABNSB12011	Threatened	Threatened	-	-	4112411	CRANNELL	Mapped	Animals - Birds - Strigidae - Strix occidentalis caurina
Animals - Birds	Contopus cooperi	olive-sided flycatcher	ABPAE32010	None	None	SSC	-	4012481	ARCATA NORTH	Unprocessed	Animals - Birds - Tyrannidae - Contopus cooperi
Animals - Birds	Empidonax traillii	willow flycatcher	ABPAE33040	None	Endangered	-	-	4012378	KORBEL	Unprocessed	Animals - Birds - Tyrannidae - Empidonax traillii
Animals - Fish	Acipenser medirostris pop. 1	green sturgeon - southern DPS	AFCAA01031	Threatened	None	-	-	4012471	ARCATA SOUTH	Mapped	Animals - Fish - Acipenseridae - Acipenser medirostris pop. 1
Animals - Fish	Acipenser medirostris pop. 1	green sturgeon - southern DPS	AFCAA01031	Threatened	None	-	-	4012472	EUREKA	Mapped	Animals - Fish - Acipenseridae - Acipenser medirostris pop. 1
Animals - Fish	Acipenser medirostris pop. 2	green sturgeon - northern DPS	AFCAA01032	None	None	SSC	-	4012472	EUREKA	Unprocessed	Animals - Fish - Acipenseridae - Acipenser medirostris pop. 2
Animals - Fish	Acipenser medirostris pop. 2	green sturgeon - northern DPS	AFCAA01032	None	None	SSC	-	4012378	KORBEL	Unprocessed	Animals - Fish - Acipenseridae - Acipenser medirostris pop. 2
Animals - Fish	Acipenser transmontanus	white sturgeon	AFCAA01050	None	None	SSC	-	4012472	EUREKA	Unprocessed	Animals - Fish - Acipenseridae - Acipenser transmontanus
Animals - Fish	Eucyclogobius newberryi	tidewater goby	AFCQN04010	Endangered	None	-	-	4012472	EUREKA	Mapped and Unprocessed	Animals - Fish - Gobiidae - Eucyclogobius newberryi
Animals - Fish	Eucyclogobius newberryi	tidewater goby	AFCQN04010	Endangered	None	-	-	4012471	ARCATA SOUTH	Mapped and Unprocessed	Animals - Fish - Gobiidae - Eucyclogobius newberryi
Animals - Fish	Spirinchus thaleichthys	longfin smelt	AFCHB03010	Candidate	Threatened	-	-	4012471	ARCATA SOUTH	Mapped and Unprocessed	Animals - Fish - Osmeridae - Spirinchus thaleichthys
Animals - Fish	Spirinchus thaleichthys	longfin smelt	AFCHB03010	Candidate	Threatened	-	-	4012472	EUREKA	Mapped and Unprocessed	Animals - Fish - Osmeridae - Spirinchus thaleichthys
Animals - Fish	Spirinchus thaleichthys	longfin smelt	AFCHB03010	Candidate	Threatened	-	-	4012482	TYEE CITY	Unprocessed	Animals - Fish - Osmeridae - Spirinchus thaleichthys
Animals - Fish	Thaleichthys pacificus	eulachon	AFCHB04010	Threatened	None	-	-	4012482	TYEE CITY	Mapped	Animals - Fish - Osmeridae - Thaleichthys pacificus

Animals - Fish	Thaleichthys pacificus	eulachon	AFCHB04010	Threatened	None	-	-	4012481	ARCATA NORTH	Mapped and Unprocessed	Animals - Fish - Osmeridae - Thaleichthys pacificus
Animals - Fish	Thaleichthys pacificus	eulachon	AFCHB04010	Threatened	None	-	-	4112411	CRANNELL	Unprocessed	Animals - Fish - Osmeridae - Thaleichthys pacificus
Animals - Fish	Thaleichthys pacificus	eulachon	AFCHB04010	Threatened	None	-	-	4012472	EUREKA	Mapped	Animals - Fish - Osmeridae - Thaleichthys pacificus
Animals - Fish	Thaleichthys pacificus	eulachon	AFCHB04010	Threatened	None	-	-	4012388	BLUE LAKE	Mapped	Animals - Fish - Osmeridae - Thaleichthys pacificus
Animals - Fish	Thaleichthys pacificus	eulachon	AFCHB04010	Threatened	None	-	-	4012471	ARCATA SOUTH	Mapped	Animals - Fish - Osmeridae - Thaleichthys pacificus
Animals - Fish	Thaleichthys pacificus	eulachon	AFCHB04010	Threatened	None	-	-	4012378	KORBEL	Mapped	Animals - Fish - Osmeridae - Thaleichthys pacificus
Animals - Fish	Entosphenus tridentatus	Pacific lamprey	AFBAA02100	None	None	SSC	-	4012471	ARCATA SOUTH	Mapped and Unprocessed	Animals - Fish - Petromyzontidae - Entosphenus tridentatus
Animals - Fish	Entosphenus tridentatus	Pacific lamprey	AFBAA02100	None	None	SSC	-	4012378	KORBEL	Unprocessed	Animals - Fish - Petromyzontidae - Entosphenus tridentatus
Animals - Fish	Entosphenus tridentatus	Pacific lamprey	AFBAA02100	None	None	SSC	-	4012472	EUREKA	Mapped and Unprocessed	Animals - Fish - Petromyzontidae - Entosphenus tridentatus
Animals - Fish	Entosphenus tridentatus	Pacific lamprey	AFBAA02100	None	None	SSC	-	4112411	CRANNELL	Unprocessed	Animals - Fish - Petromyzontidae - Entosphenus tridentatus
Animals - Fish	Entosphenus tridentatus	Pacific lamprey	AFBAA02100	None	None	SSC	-	4112318	PANTHER CREEK	Unprocessed	Animals - Fish - Petromyzontidae - Entosphenus tridentatus
Animals - Fish	Entosphenus tridentatus	Pacific lamprey	AFBAA02100	None	None	SSC	-	4012481	ARCATA NORTH	Mapped and Unprocessed	Animals - Fish - Petromyzontidae - Entosphenus tridentatus
Animals - Fish	Lampetra richardsoni	western brook lamprey	AFBAA02180	None	None	SSC	-	4012481	ARCATA NORTH	Mapped and Unprocessed	Animals - Fish - Petromyzontidae - Lampetra richardsoni
Animals - Fish	Lampetra richardsoni	western brook lamprey	AFBAA02180	None	None	SSC	-	4112318	PANTHER CREEK	Unprocessed	Animals - Fish - Petromyzontidae - Lampetra richardsoni
Animals - Fish	Lampetra richardsoni	western brook lamprey	AFBAA02180	None	None	SSC	-	4112411	CRANNELL	Unprocessed	Animals - Fish - Petromyzontidae - Lampetra richardsoni
Animals - Fish	Lampetra richardsoni	western brook lamprey	AFBAA02180	None	None	SSC	-	4012472	EUREKA	Mapped and Unprocessed	Animals - Fish - Petromyzontidae - Lampetra richardsoni
Animals - Fish	Lampetra richardsoni	western brook lamprey	AFBAA02180	None	None	SSC	-	4012378	KORBEL	Unprocessed	Animals - Fish - Petromyzontidae - Lampetra richardsoni
Animals - Fish	Lampetra richardsoni	western brook lamprey	AFBAA02180	None	None	SSC	-	4012471	ARCATA SOUTH	Mapped	Animals - Fish - Petromyzontidae - Lampetra richardsoni
Animals - Fish	Oncorhynchus clarkii clarkii	coast cutthroat trout	AFCHA0208A	None	None	SSC	-	4012471	ARCATA SOUTH	Mapped and Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus clarkii clarkii
Animals - Fish	Oncorhynchus clarkii clarkii	coast cutthroat trout	AFCHA0208A	None	None	SSC	-	4012378	KORBEL	Mapped and Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus clarkii clarkii
Animals - Fish	Oncorhynchus clarkii clarkii	coast cutthroat trout	AFCHA0208A	None	None	SSC	-	4012472	EUREKA	Mapped and Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus clarkii clarkii
Animals - Fish	Oncorhynchus clarkii clarkii	coast cutthroat trout	AFCHA0208A	None	None	SSC	-	4012388	BLUE LAKE	Mapped and Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus clarkii clarkii
Animals - Fish	Oncorhynchus clarkii clarkii	coast cutthroat trout	AFCHA0208A	None	None	SSC	-	4112411	CRANNELL	Mapped and Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus clarkii clarkii
Animals - Fish	Oncorhynchus clarkii clarkii	coast cutthroat trout	AFCHA0208A	None	None	SSC	-	4112318	PANTHER CREEK	Mapped and Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus clarkii clarkii
Animals - Fish	Oncorhynchus clarkii clarkii	coast cutthroat trout	AFCHA0208A	None	None	SSC	-	4012481	ARCATA NORTH	Mapped and Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus clarkii clarkii
Animals - Fish	Oncorhynchus gorboscha	pink salmon	AFCHA02010	None	None	-	-	4012481	ARCATA NORTH	Unprocessed	Animals - Fish - Salmonidae -

											Oncorhynchus gorboscha
Animals - Fish	Oncorhynchus keta	chum salmon	AFCHA02020	None	None	-	-	4012481	ARCATA NORTH	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus keta
Animals - Fish	Oncorhynchus kisutch pop. 2	coho salmon - southern Oregon / northern California ESU	AFCHA02032	Threatened	Threatened	-	-	4012481	ARCATA NORTH	Mapped and Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus kisutch pop. 2
Animals - Fish	Oncorhynchus kisutch pop. 2	coho salmon - southern Oregon / northern California ESU	AFCHA02032	Threatened	Threatened	-	-	4112318	PANTHER CREEK	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus kisutch pop. 2
Animals - Fish	Oncorhynchus kisutch pop. 2	coho salmon - southern Oregon / northern California ESU	AFCHA02032	Threatened	Threatened	-	-	4112411	CRANNELL	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus kisutch pop. 2
Animals - Fish	Oncorhynchus kisutch pop. 2	coho salmon - southern Oregon / northern California ESU	AFCHA02032	Threatened	Threatened	-	-	4012388	BLUE LAKE	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus kisutch pop. 2
Animals - Fish	Oncorhynchus kisutch pop. 2	coho salmon - southern Oregon / northern California ESU	AFCHA02032	Threatened	Threatened	-	-	4012472	EUREKA	Mapped and Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus kisutch pop. 2
Animals - Fish	Oncorhynchus kisutch pop. 2	coho salmon - southern Oregon / northern California ESU	AFCHA02032	Threatened	Threatened	-	-	4012378	KORBEL	Mapped and Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus kisutch pop. 2
Animals - Fish	Oncorhynchus kisutch pop. 2	coho salmon - southern Oregon / northern California ESU	AFCHA02032	Threatened	Threatened	-	-	4012471	ARCATA SOUTH	Mapped and Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus kisutch pop. 2
Animals - Fish	Oncorhynchus mykiss irideus pop. 1	steelhead - Klamath Mountains Province DPS	AFCHA0209D	None	None	SSC	-	4112318	PANTHER CREEK	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus pop. 1
Animals - Fish	Oncorhynchus mykiss irideus pop. 48	steelhead - northern California DPS summer-run	AFCHA0213P	Threatened	Endangered	-	-	4112318	PANTHER CREEK	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus pop. 48
Animals - Fish	Oncorhynchus mykiss irideus pop. 48	steelhead - northern California DPS summer-run	AFCHA0213P	Threatened	Endangered	-	-	4012481	ARCATA NORTH	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus pop. 48
Animals - Fish	Oncorhynchus mykiss irideus pop. 48	steelhead - northern California DPS summer-run	AFCHA0213P	Threatened	Endangered	-	-	4012482	TYEE CITY	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus pop. 48
Animals - Fish	Oncorhynchus mykiss irideus pop. 48	steelhead - northern California DPS summer-run	AFCHA0213P	Threatened	Endangered	-	-	4012388	BLUE LAKE	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus pop. 48
Animals - Fish	Oncorhynchus mykiss irideus pop. 48	steelhead - northern California DPS summer-run	AFCHA0213P	Threatened	Endangered	-	-	4012378	KORBEL	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus pop. 48
Animals - Fish	Oncorhynchus mykiss irideus pop. 49	steelhead - northern California DPS winter-run	AFCHA0213Q	Threatened	None	-	-	4012378	KORBEL	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus pop. 49
Animals - Fish	Oncorhynchus mykiss irideus pop. 49	steelhead - northern California DPS winter-run	AFCHA0213Q	Threatened	None	-	-	4012471	ARCATA SOUTH	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus pop. 49
Animals - Fish	Oncorhynchus mykiss irideus pop. 49	steelhead - northern California DPS winter-run	AFCHA0213Q	Threatened	None	-	-	4012388	BLUE LAKE	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus pop. 49
Animals - Fish	Oncorhynchus mykiss irideus pop. 49	steelhead - northern California DPS winter-run	AFCHA0213Q	Threatened	None	-	-	4012472	EUREKA	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus pop. 49
Animals - Fish	Oncorhynchus mykiss irideus pop. 49	steelhead - northern California DPS winter-run	AFCHA0213Q	Threatened	None	-	-	4012482	TYEE CITY	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus pop. 49
Animals - Fish	Oncorhynchus mykiss irideus pop. 49	steelhead - northern California DPS winter-run	AFCHA0213Q	Threatened	None	-	-	4012481	ARCATA NORTH	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus pop. 49
Animals - Fish	Oncorhynchus mykiss irideus pop. 49	steelhead - northern California DPS winter-run	AFCHA0213Q	Threatened	None	-	-	4112318	PANTHER CREEK	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus pop. 49
Animals - Fish	Oncorhynchus mykiss irideus pop. 49	steelhead - northern California DPS winter-run	AFCHA0213Q	Threatened	None	-	-	4112411	CRANNELL	Mapped	Animals - Fish - Salmonidae - Oncorhynchus

											mykiss irideus pop. 49
Animals - Fish	Oncorhynchus tshawytscha pop. 17	chinook salmon - California coastal ESU	AFCHA0205S	Threatened	None	-	-	4112411	CRANNELL	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha pop. 17
Animals - Fish	Oncorhynchus tshawytscha pop. 17	chinook salmon - California coastal ESU	AFCHA0205S	Threatened	None	-	-	4112318	PANTHER CREEK	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha pop. 17
Animals - Fish	Oncorhynchus tshawytscha pop. 17	chinook salmon - California coastal ESU	AFCHA0205S	Threatened	None	-	-	4012481	ARCATA NORTH	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha pop. 17
Animals - Fish	Oncorhynchus tshawytscha pop. 17	chinook salmon - California coastal ESU	AFCHA0205S	Threatened	None	-	-	4012472	EUREKA	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha pop. 17
Animals - Fish	Oncorhynchus tshawytscha pop. 17	chinook salmon - California coastal ESU	AFCHA0205S	Threatened	None	-	-	4012388	BLUE LAKE	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha pop. 17
Animals - Fish	Oncorhynchus tshawytscha pop. 17	chinook salmon - California coastal ESU	AFCHA0205S	Threatened	None	-	-	4012471	ARCATA SOUTH	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha pop. 17
Animals - Fish	Oncorhynchus tshawytscha pop. 17	chinook salmon - California coastal ESU	AFCHA0205S	Threatened	None	-	-	4012378	KORBEL	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha pop. 17
Animals - Fish	Oncorhynchus tshawytscha pop. 30	chinook salmon - upper Klamath and Trinity Rivers ESU	AFCHA02056	Candidate	Threatened	SSC	-	4012378	KORBEL	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha pop. 30
Animals - Fish	Oncorhynchus tshawytscha pop. 30	chinook salmon - upper Klamath and Trinity Rivers ESU	AFCHA02056	Candidate	Threatened	SSC	-	4112318	PANTHER CREEK	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha pop. 30
Animals - Fish	Oncorhynchus tshawytscha pop. 30	chinook salmon - upper Klamath and Trinity Rivers ESU	AFCHA02056	Candidate	Threatened	SSC	-	4112411	CRANNELL	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha pop. 30
Animals - Insects	Bombus caliginosus	obscure bumble bee	IIHYM24380	None	None	-	-	4112411	CRANNELL	Mapped and Unprocessed	Animals - Insects - Apidae - Bombus caliginosus
Animals - Insects	Bombus caliginosus	obscure bumble bee	IIHYM24380	None	None	-	-	4012481	ARCATA NORTH	Mapped and Unprocessed	Animals - Insects - Apidae - Bombus caliginosus
Animals - Insects	Bombus caliginosus	obscure bumble bee	IIHYM24380	None	None	-	-	4012482	TYEE CITY	Mapped and Unprocessed	Animals - Insects - Apidae - Bombus caliginosus
Animals - Insects	Bombus caliginosus	obscure bumble bee	IIHYM24380	None	None	-	-	4012472	EUREKA	Mapped and Unprocessed	Animals - Insects - Apidae - Bombus caliginosus
Animals - Insects	Bombus caliginosus	obscure bumble bee	IIHYM24380	None	None	-	-	4012471	ARCATA SOUTH	Mapped and Unprocessed	Animals - Insects - Apidae - Bombus caliginosus
Animals - Insects	Bombus caliginosus	obscure bumble bee	IIHYM24380	None	None	-	-	4012378	KORBEL	Mapped and Unprocessed	Animals - Insects - Apidae - Bombus caliginosus
Animals - Insects	Bombus crotchii	Crotch bumble bee	IIHYM24480	None	Candidate Endangered	-	-	4012482	TYEE CITY	Mapped	Animals - Insects - Apidae - Bombus crotchii
Animals - Insects	Bombus crotchii	Crotch bumble bee	IIHYM24480	None	Candidate Endangered	-	-	4012481	ARCATA NORTH	Mapped	Animals - Insects - Apidae - Bombus crotchii
Animals - Insects	Bombus occidentalis	western bumble bee	IIHYM24252	None	Candidate Endangered	-	-	4012482	TYEE CITY	Mapped and Unprocessed	Animals - Insects - Apidae - Bombus occidentalis
Animals - Insects	Bombus occidentalis	western bumble bee	IIHYM24252	None	Candidate Endangered	-	-	4112411	CRANNELL	Mapped	Animals - Insects - Apidae - Bombus occidentalis
Animals - Insects	Bombus occidentalis	western bumble bee	IIHYM24252	None	Candidate Endangered	-	-	4012472	EUREKA	Mapped and Unprocessed	Animals - Insects - Apidae - Bombus occidentalis
Animals - Insects	Bombus occidentalis	western bumble bee	IIHYM24252	None	Candidate Endangered	-	-	4012481	ARCATA NORTH	Mapped and Unprocessed	Animals - Insects - Apidae - Bombus occidentalis
Animals - Insects	Bombus occidentalis	western bumble bee	IIHYM24252	None	Candidate Endangered	-	-	4012378	KORBEL	Mapped and Unprocessed	Animals - Insects - Apidae - Bombus occidentalis
Animals - Insects	Bombus occidentalis	western bumble bee	IIHYM24252	None	Candidate Endangered	-	-	4012471	ARCATA SOUTH	Mapped and Unprocessed	Animals - Insects - Apidae - Bombus occidentalis
Animals - Insects	Cicindela hirticollis gravida	sandy beach tiger beetle	IICOL02101	None	None	-	-	4012471	ARCATA SOUTH	Mapped	Animals - Insects - Carabidae - Cicindela hirticollis gravida
Animals - Insects	Cicindela hirticollis gravida	sandy beach tiger beetle	IICOL02101	None	None	-	-	4012472	EUREKA	Mapped	Animals - Insects - Carabidae - Cicindela hirticollis gravida

Animals - Insects	Scaphinotus behrensi	Behrens snail-eating beetle	IICOL4L070	None	None	-	-	4012481	ARCATA NORTH	Mapped	Animals - Insects - Carabidae - Scaphinotus behrensi
Animals - Insects	Scaphinotus behrensi	Behrens snail-eating beetle	IICOL4L070	None	None	-	-	4012471	ARCATA SOUTH	Mapped	Animals - Insects - Carabidae - Scaphinotus behrensi
Animals - Mammals	Apodontia rufa humboldtiana	Humboldt mountain beaver	AMAF01017	None	None	-	-	4012471	ARCATA SOUTH	Mapped	Animals - Mammals - Apodontiidae - Apodontia rufa humboldtiana
Animals - Mammals	Apodontia rufa humboldtiana	Humboldt mountain beaver	AMAF01017	None	None	-	-	4012378	KORBEL	Mapped	Animals - Mammals - Apodontiidae - Apodontia rufa humboldtiana
Animals - Mammals	Apodontia rufa humboldtiana	Humboldt mountain beaver	AMAF01017	None	None	-	-	4012481	ARCATA NORTH	Mapped	Animals - Mammals - Apodontiidae - Apodontia rufa humboldtiana
Animals - Mammals	Apodontia rufa humboldtiana	Humboldt mountain beaver	AMAF01017	None	None	-	-	4112411	CRANNELL	Mapped	Animals - Mammals - Apodontiidae - Apodontia rufa humboldtiana
Animals - Mammals	Apodontia rufa humboldtiana	Humboldt mountain beaver	AMAF01017	None	None	-	-	4012472	EUREKA	Mapped	Animals - Mammals - Apodontiidae - Apodontia rufa humboldtiana
Animals - Mammals	Apodontia rufa humboldtiana	Humboldt mountain beaver	AMAF01017	None	None	-	-	4012388	BLUE LAKE	Mapped	Animals - Mammals - Apodontiidae - Apodontia rufa humboldtiana
Animals - Mammals	Arborimus albipes	white-footed vole	AMAFF23010	None	None	SSC	-	4012482	TYEE CITY	Mapped	Animals - Mammals - Cricetidae - Arborimus albipes
Animals - Mammals	Arborimus albipes	white-footed vole	AMAFF23010	None	None	SSC	-	4012378	KORBEL	Mapped	Animals - Mammals - Cricetidae - Arborimus albipes
Animals - Mammals	Arborimus pomo	Sonoma tree vole	AMAFF23030	None	None	SSC	-	4012378	KORBEL	Mapped and Unprocessed	Animals - Mammals - Cricetidae - Arborimus pomo
Animals - Mammals	Arborimus pomo	Sonoma tree vole	AMAFF23030	None	None	SSC	-	4012471	ARCATA SOUTH	Mapped and Unprocessed	Animals - Mammals - Cricetidae - Arborimus pomo
Animals - Mammals	Arborimus pomo	Sonoma tree vole	AMAFF23030	None	None	SSC	-	4012481	ARCATA NORTH	Mapped	Animals - Mammals - Cricetidae - Arborimus pomo
Animals - Mammals	Arborimus pomo	Sonoma tree vole	AMAFF23030	None	None	SSC	-	4112411	CRANNELL	Mapped and Unprocessed	Animals - Mammals - Cricetidae - Arborimus pomo
Animals - Mammals	Arborimus pomo	Sonoma tree vole	AMAFF23030	None	None	SSC	-	4112318	PANTHER CREEK	Unprocessed	Animals - Mammals - Cricetidae - Arborimus pomo
Animals - Mammals	Arborimus pomo	Sonoma tree vole	AMAFF23030	None	None	SSC	-	4012388	BLUE LAKE	Mapped and Unprocessed	Animals - Mammals - Cricetidae - Arborimus pomo
Animals - Mammals	Erethizon dorsatum	North American porcupine	AMAFJ01010	None	None	-	-	4012388	BLUE LAKE	Unprocessed	Animals - Mammals - Erethizontidae - Erethizon dorsatum
Animals - Mammals	Erethizon dorsatum	North American porcupine	AMAFJ01010	None	None	-	-	4012472	EUREKA	Mapped and Unprocessed	Animals - Mammals - Erethizontidae - Erethizon dorsatum
Animals - Mammals	Erethizon dorsatum	North American porcupine	AMAFJ01010	None	None	-	-	4112411	CRANNELL	Mapped	Animals - Mammals - Erethizontidae - Erethizon dorsatum
Animals - Mammals	Erethizon dorsatum	North American porcupine	AMAFJ01010	None	None	-	-	4012481	ARCATA NORTH	Mapped and Unprocessed	Animals - Mammals - Erethizontidae - Erethizon dorsatum
Animals - Mammals	Erethizon dorsatum	North American porcupine	AMAFJ01010	None	None	-	-	4012482	TYEE CITY	Unprocessed	Animals - Mammals - Erethizontidae - Erethizon dorsatum
Animals - Mammals	Erethizon dorsatum	North American porcupine	AMAFJ01010	None	None	-	-	4012471	ARCATA SOUTH	Mapped	Animals - Mammals - Erethizontidae - Erethizon dorsatum
Animals - Mammals	Erethizon dorsatum	North American porcupine	AMAFJ01010	None	None	-	-	4012378	KORBEL	Mapped and Unprocessed	Animals - Mammals - Erethizontidae - Erethizon dorsatum

											Erethizon dorsatum
Animals - Mammals	Enhydra lutris nereis	southern sea otter	AMAJF09012	Threatened	None	FP	-	4112411	CRANNELL	Unprocessed	Animals - Mammals - Mustelidae - Enhydra lutris nereis
Animals - Mammals	Enhydra lutris nereis	southern sea otter	AMAJF09012	Threatened	None	FP	-	4012472	EUREKA	Unprocessed	Animals - Mammals - Mustelidae - Enhydra lutris nereis
Animals - Mammals	Martes caurina humboldtensis	Humboldt marten	AMAJF01012	Threatened	Endangered	SSC	-	4112411	CRANNELL	Unprocessed	Animals - Mammals - Mustelidae - Martes caurina humboldtensis
Animals - Mammals	Martes caurina humboldtensis	Humboldt marten	AMAJF01012	Threatened	Endangered	SSC	-	4112318	PANTHER CREEK	Unprocessed	Animals - Mammals - Mustelidae - Martes caurina humboldtensis
Animals - Mammals	Pekania pennanti	Fisher	AMAJF01020	None	None	SSC	-	4112318	PANTHER CREEK	Mapped and Unprocessed	Animals - Mammals - Mustelidae - Pekania pennanti
Animals - Mammals	Pekania pennanti	Fisher	AMAJF01020	None	None	SSC	-	4112411	CRANNELL	Unprocessed	Animals - Mammals - Mustelidae - Pekania pennanti
Animals - Mammals	Pekania pennanti	Fisher	AMAJF01020	None	None	SSC	-	4012481	ARCATA NORTH	Mapped and Unprocessed	Animals - Mammals - Mustelidae - Pekania pennanti
Animals - Mammals	Pekania pennanti	Fisher	AMAJF01020	None	None	SSC	-	4012388	BLUE LAKE	Mapped and Unprocessed	Animals - Mammals - Mustelidae - Pekania pennanti
Animals - Mammals	Pekania pennanti	Fisher	AMAJF01020	None	None	SSC	-	4012378	KORBEL	Mapped and Unprocessed	Animals - Mammals - Mustelidae - Pekania pennanti
Animals - Mammals	Pekania pennanti	Fisher	AMAJF01020	None	None	SSC	-	4012471	ARCATA SOUTH	Mapped and Unprocessed	Animals - Mammals - Mustelidae - Pekania pennanti
Animals - Mammals	Corynorhinus townsendii	Townsend's big-eared bat	AMACC08010	None	None	SSC	-	4012471	ARCATA SOUTH	Mapped	Animals - Mammals - Vespertilionidae - Corynorhinus townsendii
Animals - Mammals	Corynorhinus townsendii	Townsend's big-eared bat	AMACC08010	None	None	SSC	-	4012378	KORBEL	Mapped	Animals - Mammals - Vespertilionidae - Corynorhinus townsendii
Animals - Mammals	Lasionycteris noctivagans	silver-haired bat	AMACC02010	None	None	-	-	4012472	EUREKA	Unprocessed	Animals - Mammals - Vespertilionidae - Lasionycteris noctivagans
Animals - Mammals	Lasiurus cinereus	hoary bat	AMACC05032	None	None	-	-	4012471	ARCATA SOUTH	Unprocessed	Animals - Mammals - Vespertilionidae - Lasiurus cinereus
Animals - Mammals	Myotis evotis	long-eared myotis	AMACC01070	None	None	-	-	4012471	ARCATA SOUTH	Mapped	Animals - Mammals - Vespertilionidae - Myotis evotis
Animals - Mammals	Myotis evotis	long-eared myotis	AMACC01070	None	None	-	-	4012481	ARCATA NORTH	Mapped	Animals - Mammals - Vespertilionidae - Myotis evotis
Animals - Mammals	Myotis evotis	long-eared myotis	AMACC01070	None	None	-	-	4112411	CRANNELL	Mapped	Animals - Mammals - Vespertilionidae - Myotis evotis
Animals - Mammals	Myotis yumanensis	Yuma myotis	AMACC01020	None	None	-	-	4012472	EUREKA	Unprocessed	Animals - Mammals - Vespertilionidae - Myotis yumanensis
Animals - Mollusks	Littorina subrotundata	Newcombs littorine snail	IMGASR3010	None	None	-	-	4012472	EUREKA	Unprocessed	Animals - Mollusks - Littorinidae - Littorina subrotundata
Animals - Mollusks	Littorina subrotundata	Newcombs littorine snail	IMGASR3010	None	None	-	-	4012471	ARCATA SOUTH	Unprocessed	Animals - Mollusks - Littorinidae - Littorina subrotundata
Animals - Mollusks	Margaritifera falcata	western pearlshell	IMBIV27020	None	None	-	-	4012471	ARCATA SOUTH	Unprocessed	Animals - Mollusks - Margaritiferidae - Margaritifera falcata
Animals - Mollusks	Margaritifera falcata	western pearlshell	IMBIV27020	None	None	-	-	4012388	BLUE LAKE	Mapped	Animals - Mollusks - Margaritiferidae - Margaritifera falcata

Animals - Mollusks	Margaritifera falcata	western pearlshell	IMBIV27020	None	None	-	-	4112411	CRANNELL	Mapped	Animals - Mollusks - Margaritiferidae - Margaritifera falcata
Animals - Mollusks	Margaritifera falcata	western pearlshell	IMBIV27020	None	None	-	-	4112318	PANTHER CREEK	Mapped	Animals - Mollusks - Margaritiferidae - Margaritifera falcata
Animals - Mollusks	Margaritifera falcata	western pearlshell	IMBIV27020	None	None	-	-	4012481	ARCATA NORTH	Mapped	Animals - Mollusks - Margaritiferidae - Margaritifera falcata
Animals - Mollusks	Anodonta californiensis	California floater	IMBIV04220	None	None	-	-	4012472	EUREKA	Mapped and Unprocessed	Animals - Mollusks - Unionidae - Anodonta californiensis
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	4012472	EUREKA	Mapped and Unprocessed	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	4012388	BLUE LAKE	Mapped	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	4012481	ARCATA NORTH	Mapped	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	4112411	CRANNELL	Mapped	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	4012471	ARCATA SOUTH	Mapped and Unprocessed	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	4012378	KORBEL	Mapped and Unprocessed	Animals - Reptiles - Emydidae - Emys marmorata
Community - Terrestrial	Northern Coastal Salt Marsh	Northern Coastal Salt Marsh	CTT52110CA	None	None	-	-	4012471	ARCATA SOUTH	Mapped	Community - Terrestrial - Northern Coastal Salt Marsh
Community - Terrestrial	Northern Coastal Salt Marsh	Northern Coastal Salt Marsh	CTT52110CA	None	None	-	-	4012482	TYEE CITY	Mapped	Community - Terrestrial - Northern Coastal Salt Marsh
Community - Terrestrial	Northern Coastal Salt Marsh	Northern Coastal Salt Marsh	CTT52110CA	None	None	-	-	4012472	EUREKA	Mapped	Community - Terrestrial - Northern Coastal Salt Marsh
Community - Terrestrial	Northern Foredune Grassland	Northern Foredune Grassland	CTT21211CA	None	None	-	-	4012482	TYEE CITY	Mapped	Community - Terrestrial - Northern Foredune Grassland
Plants - Bryophytes	Trichodon cylindricus	cylindrical trichodon	NBMUS7N020	None	None	-	2B.2	4012481	ARCATA NORTH	Mapped	Plants - Bryophytes - Ditrichaceae - Trichodon cylindricus
Plants - Bryophytes	Fissidens pauperculus	minute pocket moss	NBMUS2W0U0	None	None	-	1B.2	4012481	ARCATA NORTH	Mapped	Plants - Bryophytes - Fissidentaceae - Fissidens pauperculus
Plants - Bryophytes	Fissidens pauperculus	minute pocket moss	NBMUS2W0U0	None	None	-	1B.2	4012471	ARCATA SOUTH	Mapped	Plants - Bryophytes - Fissidentaceae - Fissidens pauperculus
Plants - Lichens	Sulcaria spiralis	twisted horsehair lichen	NLT0042560	None	None	-	1B.2	4012482	TYEE CITY	Mapped	Plants - Lichens - Alectoriaceae - Sulcaria spiralis
Plants - Lichens	Sulcaria spiralis	twisted horsehair lichen	NLT0042560	None	None	-	1B.2	4112411	CRANNELL	Mapped	Plants - Lichens - Alectoriaceae - Sulcaria spiralis
Plants - Lichens	Sulcaria spiralis	twisted horsehair lichen	NLT0042560	None	None	-	1B.2	4012472	EUREKA	Mapped	Plants - Lichens - Alectoriaceae - Sulcaria spiralis
Plants - Lichens	Usnea longissima	Methuselahs beard lichen	NLLEC5P420	None	None	-	4.2	4012388	BLUE LAKE	Unprocessed	Plants - Lichens - Parmeliaceae - Usnea longissima
Plants - Lichens	Usnea longissima	Methuselahs beard lichen	NLLEC5P420	None	None	-	4.2	4112318	PANTHER CREEK	Unprocessed	Plants - Lichens - Parmeliaceae - Usnea longissima
Plants - Lichens	Usnea longissima	Methuselahs beard lichen	NLLEC5P420	None	None	-	4.2	4112411	CRANNELL	Unprocessed	Plants - Lichens - Parmeliaceae - Usnea longissima
Plants - Lichens	Usnea longissima	Methuselahs beard lichen	NLLEC5P420	None	None	-	4.2	4012471	ARCATA SOUTH	Mapped	Plants - Lichens - Parmeliaceae - Usnea longissima
Plants - Lichens	Usnea longissima	Methuselahs beard lichen	NLLEC5P420	None	None	-	4.2	4012378	KORBEL	Mapped and Unprocessed	Plants - Lichens - Parmeliaceae - Usnea longissima
Plants - Vascular	Angelica lucida	sea-watch	PDAPI070G0	None	None	-	4.2	4012471	ARCATA SOUTH	Unprocessed	Plants - Vascular - Apiaceae - Angelica lucida
Plants - Vascular	Angelica lucida	sea-watch	PDAPI070G0	None	None	-	4.2	4112411	CRANNELL	Unprocessed	Plants - Vascular - Apiaceae - Angelica lucida
Plants - Vascular	Angelica lucida	sea-watch	PDAPI070G0	None	None	-	4.2	4012482	TYEE CITY	Unprocessed	Plants - Vascular - Apiaceae -

											Angelica lucida
Plants - Vascular	Angelica lucida	sea-watch	PDAP1070G0	None	None	-	4.2	4012481	ARCATA NORTH	Unprocessed	Plants - Vascular - Apiaceae - Angelica lucida
Plants - Vascular	Angelica lucida	sea-watch	PDAP1070G0	None	None	-	4.2	4012472	EUREKA	Unprocessed	Plants - Vascular - Apiaceae - Angelica lucida
Plants - Vascular	Glehnia littoralis ssp. leiocarpa	American glehnia	PDAP113011	None	None	-	4.2	4012472	EUREKA	Unprocessed	Plants - Vascular - Apiaceae - Glehnia littoralis ssp. leiocarpa
Plants - Vascular	Glehnia littoralis ssp. leiocarpa	American glehnia	PDAP113011	None	None	-	4.2	4012481	ARCATA NORTH	Unprocessed	Plants - Vascular - Apiaceae - Glehnia littoralis ssp. leiocarpa
Plants - Vascular	Glehnia littoralis ssp. leiocarpa	American glehnia	PDAP113011	None	None	-	4.2	4012482	TYEE CITY	Unprocessed	Plants - Vascular - Apiaceae - Glehnia littoralis ssp. leiocarpa
Plants - Vascular	Glehnia littoralis ssp. leiocarpa	American glehnia	PDAP113011	None	None	-	4.2	4112411	CRANNELL	Unprocessed	Plants - Vascular - Apiaceae - Glehnia littoralis ssp. leiocarpa
Plants - Vascular	Hemizonia congesta ssp. tracyi	Tracys tarplant	PDAST4R067	None	None	-	4.3	4012378	KORBEL	Unprocessed	Plants - Vascular - Asteraceae - Hemizonia congesta ssp. tracyi
Plants - Vascular	Hesperrevax sparsiflora var. brevifolia	short-leaved evax	PDASTE5011	None	None	-	1B.2	4012472	EUREKA	Mapped and Unprocessed	Plants - Vascular - Asteraceae - Hesperrevax sparsiflora var. brevifolia
Plants - Vascular	Lasthenia californica ssp. macrantha	perennial goldfields	PDAST5L0C5	None	None	-	1B.2	4012472	EUREKA	Mapped	Plants - Vascular - Asteraceae - Lasthenia californica ssp. macrantha
Plants - Vascular	Layia carnosa	beach layia	PDAST5N010	Threatened	Endangered	-	1B.1	4012472	EUREKA	Mapped and Unprocessed	Plants - Vascular - Asteraceae - Layia carnosa
Plants - Vascular	Layia carnosa	beach layia	PDAST5N010	Threatened	Endangered	-	1B.1	4112411	CRANNELL	Mapped	Plants - Vascular - Asteraceae - Layia carnosa
Plants - Vascular	Layia carnosa	beach layia	PDAST5N010	Threatened	Endangered	-	1B.1	4012482	TYEE CITY	Mapped and Unprocessed	Plants - Vascular - Asteraceae - Layia carnosa
Plants - Vascular	Packera bolanderi var. bolanderi	seacoast ragwort	PDAST8H0H1	None	None	-	2B.2	4112411	CRANNELL	Mapped and Unprocessed	Plants - Vascular - Asteraceae - Packera bolanderi var. bolanderi
Plants - Vascular	Packera bolanderi var. bolanderi	seacoast ragwort	PDAST8H0H1	None	None	-	2B.2	4112318	PANTHER CREEK	Mapped	Plants - Vascular - Asteraceae - Packera bolanderi var. bolanderi
Plants - Vascular	Cardamine angulata	seaside bittercress	PDBRA0K010	None	None	-	2B.1	4012471	ARCATA SOUTH	Mapped	Plants - Vascular - Brassicaceae - Cardamine angulata
Plants - Vascular	Erysimum menziesii	Menzies wallflower	PDBRA160R0	Endangered	Endangered	-	1B.1	4012482	TYEE CITY	Mapped and Unprocessed	Plants - Vascular - Brassicaceae - Erysimum menziesii
Plants - Vascular	Erysimum menziesii	Menzies wallflower	PDBRA160R0	Endangered	Endangered	-	1B.1	4012472	EUREKA	Mapped	Plants - Vascular - Brassicaceae - Erysimum menziesii
Plants - Vascular	Silene scouleri ssp. scouleri	Scoulers catchfly	PDCAR0U1MC	None	None	-	2B.2	4012472	EUREKA	Mapped	Plants - Vascular - Caryophyllaceae - Silene scouleri ssp. scouleri
Plants - Vascular	Spergularia canadensis var. occidentalis	western sand-spurrey	PDCAR0W032	None	None	-	2B.1	4012472	EUREKA	Mapped and Unprocessed	Plants - Vascular - Caryophyllaceae - Spergularia canadensis var. occidentalis
Plants - Vascular	Spergularia canadensis var. occidentalis	western sand-spurrey	PDCAR0W032	None	None	-	2B.1	4012471	ARCATA SOUTH	Mapped	Plants - Vascular - Caryophyllaceae - Spergularia canadensis var. occidentalis
Plants - Vascular	Carex arcta	northern clustered sedge	PMCYP030X0	None	None	-	2B.2	4012472	EUREKA	Mapped	Plants - Vascular - Cyperaceae - Carex arcta
Plants - Vascular	Carex arcta	northern clustered sedge	PMCYP030X0	None	None	-	2B.2	4012481	ARCATA NORTH	Mapped	Plants - Vascular - Cyperaceae - Carex arcta
Plants - Vascular	Carex leptalea	bristle-stalked sedge	PMCYP037E0	None	None	-	2B.2	4112411	CRANNELL	Mapped and Unprocessed	Plants - Vascular - Cyperaceae - Carex leptalea
Plants - Vascular	Carex lyngbyei	Lyngbyes sedge	PMCYP037Y0	None	None	-	2B.2	4112411	CRANNELL	Mapped	Plants - Vascular - Cyperaceae - Carex lyngbyei
Plants - Vascular	Carex lyngbyei	Lyngbyes sedge	PMCYP037Y0	None	None	-	2B.2	4012482	TYEE CITY	Mapped	Plants - Vascular - Cyperaceae - Carex lyngbyei
Plants - Vascular	Carex lyngbyei	Lyngbyes sedge	PMCYP037Y0	None	None	-	2B.2	4012481	ARCATA NORTH	Mapped	Plants - Vascular - Cyperaceae - Carex lyngbyei
Plants - Vascular	Carex lyngbyei	Lyngbyes sedge	PMCYP037Y0	None	None	-	2B.2	4012472	EUREKA	Mapped and Unprocessed	Plants - Vascular - Cyperaceae - Carex lyngbyei

Plants - Vascular	Carex lyngbyei	Lyngbyes sedge	PMCYP037Y0	None	None	-	2B.2	4012471	ARCATA SOUTH	Mapped and Unprocessed	Plants - Vascular - Cyperaceae - Carex lyngbyei
Plants - Vascular	Carex praticola	northern meadow sedge	PMCYP03B20	None	None	-	2B.2	4012471	ARCATA SOUTH	Mapped	Plants - Vascular - Cyperaceae - Carex praticola
Plants - Vascular	Carex praticola	northern meadow sedge	PMCYP03B20	None	None	-	2B.2	4012472	EUREKA	Mapped	Plants - Vascular - Cyperaceae - Carex praticola
Plants - Vascular	Eleocharis parvula	small spikerush	PMCPY091G0	None	None	-	4.3	4012471	ARCATA SOUTH	Unprocessed	Plants - Vascular - Cyperaceae - Eleocharis parvula
Plants - Vascular	Astragalus pycnostachyus var. pycnostachyus	coastal marsh milk-vetch	PDFAB0F7B2	None	None	-	1B.2	4012472	EUREKA	Mapped	Plants - Vascular - Fabaceae - Astragalus pycnostachyus var. pycnostachyus
Plants - Vascular	Astragalus rattanii var. rattanii	Rattans milk-vetch	PDFAB0F7E2	None	None	-	4.3	4012481	ARCATA NORTH	Unprocessed	Plants - Vascular - Fabaceae - Astragalus rattanii var. rattanii
Plants - Vascular	Hosackia gracilis	harlequin lotus	PDFAB2A0D0	None	None	-	4.2	4012472	EUREKA	Unprocessed	Plants - Vascular - Fabaceae - Hosackia gracilis
Plants - Vascular	Hosackia gracilis	harlequin lotus	PDFAB2A0D0	None	None	-	4.2	4012471	ARCATA SOUTH	Unprocessed	Plants - Vascular - Fabaceae - Hosackia gracilis
Plants - Vascular	Hosackia gracilis	harlequin lotus	PDFAB2A0D0	None	None	-	4.2	4012378	KORBEL	Unprocessed	Plants - Vascular - Fabaceae - Hosackia gracilis
Plants - Vascular	Lathyrus glandulosus	sticky pea	PDFAB251A0	None	None	-	4.3	4012378	KORBEL	Unprocessed	Plants - Vascular - Fabaceae - Lathyrus glandulosus
Plants - Vascular	Lathyrus glandulosus	sticky pea	PDFAB251A0	None	None	-	4.3	4012471	ARCATA SOUTH	Unprocessed	Plants - Vascular - Fabaceae - Lathyrus glandulosus
Plants - Vascular	Lathyrus glandulosus	sticky pea	PDFAB251A0	None	None	-	4.3	4012481	ARCATA NORTH	Unprocessed	Plants - Vascular - Fabaceae - Lathyrus glandulosus
Plants - Vascular	Lathyrus glandulosus	sticky pea	PDFAB251A0	None	None	-	4.3	4012388	BLUE LAKE	Unprocessed	Plants - Vascular - Fabaceae - Lathyrus glandulosus
Plants - Vascular	Lathyrus japonicus	seaside pea	PDFAB250C0	None	None	-	2B.1	4012481	ARCATA NORTH	Mapped	Plants - Vascular - Fabaceae - Lathyrus japonicus
Plants - Vascular	Lathyrus japonicus	seaside pea	PDFAB250C0	None	None	-	2B.1	4012472	EUREKA	Mapped	Plants - Vascular - Fabaceae - Lathyrus japonicus
Plants - Vascular	Lathyrus japonicus	seaside pea	PDFAB250C0	None	None	-	2B.1	4112411	CRANNELL	Mapped	Plants - Vascular - Fabaceae - Lathyrus japonicus
Plants - Vascular	Lathyrus japonicus	seaside pea	PDFAB250C0	None	None	-	2B.1	4012471	ARCATA SOUTH	Mapped	Plants - Vascular - Fabaceae - Lathyrus japonicus
Plants - Vascular	Lathyrus palustris	marsh pea	PDFAB250P0	None	None	-	2B.2	4012472	EUREKA	Mapped	Plants - Vascular - Fabaceae - Lathyrus palustris
Plants - Vascular	Ribes laxiflorum	trailing black currant	PDGRO020V0	None	None	-	4.3	4012481	ARCATA NORTH	Unprocessed	Plants - Vascular - Grossulariaceae - Ribes laxiflorum
Plants - Vascular	Ribes laxiflorum	trailing black currant	PDGRO020V0	None	None	-	4.3	4012388	BLUE LAKE	Unprocessed	Plants - Vascular - Grossulariaceae - Ribes laxiflorum
Plants - Vascular	Ribes laxiflorum	trailing black currant	PDGRO020V0	None	None	-	4.3	4112411	CRANNELL	Unprocessed	Plants - Vascular - Grossulariaceae - Ribes laxiflorum
Plants - Vascular	Ribes laxiflorum	trailing black currant	PDGRO020V0	None	None	-	4.3	4112318	PANTHER CREEK	Unprocessed	Plants - Vascular - Grossulariaceae - Ribes laxiflorum
Plants - Vascular	Ribes laxiflorum	trailing black currant	PDGRO020V0	None	None	-	4.3	4012471	ARCATA SOUTH	Unprocessed	Plants - Vascular - Grossulariaceae - Ribes laxiflorum
Plants - Vascular	Ribes laxiflorum	trailing black currant	PDGRO020V0	None	None	-	4.3	4012378	KORBEL	Unprocessed	Plants - Vascular - Grossulariaceae - Ribes laxiflorum
Plants - Vascular	Erythronium oregonum	giant fawn lily	PMLIL0U0C0	None	None	-	2B.2	4112318	PANTHER CREEK	Mapped	Plants - Vascular - Liliaceae - Erythronium oregonum
Plants - Vascular	Erythronium oregonum	giant fawn lily	PMLIL0U0C0	None	None	-	2B.2	4012388	BLUE LAKE	Mapped	Plants - Vascular - Liliaceae - Erythronium oregonum
Plants - Vascular	Erythronium revolutum	coast fawn lily	PMLIL0U0F0	None	None	-	2B.2	4012388	BLUE LAKE	Mapped and Unprocessed	Plants - Vascular - Liliaceae - Erythronium revolutum
Plants - Vascular	Erythronium revolutum	coast fawn lily	PMLIL0U0F0	None	None	-	2B.2	4012472	EUREKA	Mapped	Plants - Vascular - Liliaceae - Erythronium revolutum
Plants - Vascular	Erythronium revolutum	coast fawn lily	PMLIL0U0F0	None	None	-	2B.2	4012378	KORBEL	Mapped and Unprocessed	Plants - Vascular - Liliaceae -

											Erythronium revolutum
Plants - Vascular	Fritillaria purdyi	Purdys fritillary	PMLIL0V0H0	None	None	-	4.3	4012378	KORBEL	Unprocessed	Plants - Vascular - Liliaceae - Fritillaria purdyi
Plants - Vascular	Lilium kelloggii	Kelloggs lily	PMLIL1A0A0	None	None	-	4.3	4012378	KORBEL	Unprocessed	Plants - Vascular - Liliaceae - Lilium kelloggii
Plants - Vascular	Lilium kelloggii	Kelloggs lily	PMLIL1A0A0	None	None	-	4.3	4012471	ARCATA SOUTH	Unprocessed	Plants - Vascular - Liliaceae - Lilium kelloggii
Plants - Vascular	Lilium occidentale	western lily	PMLIL1A0G0	Endangered	Endangered	-	1B.1	4012471	ARCATA SOUTH	Mapped	Plants - Vascular - Liliaceae - Lilium occidentale
Plants - Vascular	Lilium occidentale	western lily	PMLIL1A0G0	Endangered	Endangered	-	1B.1	4012472	EUREKA	Mapped	Plants - Vascular - Liliaceae - Lilium occidentale
Plants - Vascular	Lilium occidentale	western lily	PMLIL1A0G0	Endangered	Endangered	-	1B.1	4012481	ARCATA NORTH	Mapped	Plants - Vascular - Liliaceae - Lilium occidentale
Plants - Vascular	Lycopodium clavatum	running-pine	PPLYC01080	None	None	-	4.1	4012481	ARCATA NORTH	Mapped and Unprocessed	Plants - Vascular - Lycopodiaceae - Lycopodium clavatum
Plants - Vascular	Lycopodium clavatum	running-pine	PPLYC01080	None	None	-	4.1	4012388	BLUE LAKE	Mapped and Unprocessed	Plants - Vascular - Lycopodiaceae - Lycopodium clavatum
Plants - Vascular	Lycopodium clavatum	running-pine	PPLYC01080	None	None	-	4.1	4012472	EUREKA	Unprocessed	Plants - Vascular - Lycopodiaceae - Lycopodium clavatum
Plants - Vascular	Lycopodium clavatum	running-pine	PPLYC01080	None	None	-	4.1	4112318	PANTHER CREEK	Mapped and Unprocessed	Plants - Vascular - Lycopodiaceae - Lycopodium clavatum
Plants - Vascular	Lycopodium clavatum	running-pine	PPLYC01080	None	None	-	4.1	4112411	CRANNELL	Mapped and Unprocessed	Plants - Vascular - Lycopodiaceae - Lycopodium clavatum
Plants - Vascular	Lycopodium clavatum	running-pine	PPLYC01080	None	None	-	4.1	4012471	ARCATA SOUTH	Mapped and Unprocessed	Plants - Vascular - Lycopodiaceae - Lycopodium clavatum
Plants - Vascular	Lycopodium clavatum	running-pine	PPLYC01080	None	None	-	4.1	4012378	KORBEL	Mapped and Unprocessed	Plants - Vascular - Lycopodiaceae - Lycopodium clavatum
Plants - Vascular	Iliamna latibracteata	California globe mallow	PDMAL0K040	None	None	-	1B.2	4012378	KORBEL	Mapped	Plants - Vascular - Malvaceae - Iliamna latibracteata
Plants - Vascular	Iliamna latibracteata	California globe mallow	PDMAL0K040	None	None	-	1B.2	4012388	BLUE LAKE	Mapped	Plants - Vascular - Malvaceae - Iliamna latibracteata
Plants - Vascular	Sidalcea malachroides	maple-leaved checkerbloom	PDMAL110E0	None	None	-	4.2	4012388	BLUE LAKE	Mapped and Unprocessed	Plants - Vascular - Malvaceae - Sidalcea malachroides
Plants - Vascular	Sidalcea malachroides	maple-leaved checkerbloom	PDMAL110E0	None	None	-	4.2	4012481	ARCATA NORTH	Mapped and Unprocessed	Plants - Vascular - Malvaceae - Sidalcea malachroides
Plants - Vascular	Sidalcea malachroides	maple-leaved checkerbloom	PDMAL110E0	None	None	-	4.2	4012472	EUREKA	Mapped and Unprocessed	Plants - Vascular - Malvaceae - Sidalcea malachroides
Plants - Vascular	Sidalcea malachroides	maple-leaved checkerbloom	PDMAL110E0	None	None	-	4.2	4012378	KORBEL	Mapped and Unprocessed	Plants - Vascular - Malvaceae - Sidalcea malachroides
Plants - Vascular	Sidalcea malachroides	maple-leaved checkerbloom	PDMAL110E0	None	None	-	4.2	4012471	ARCATA SOUTH	Mapped and Unprocessed	Plants - Vascular - Malvaceae - Sidalcea malachroides
Plants - Vascular	Sidalcea malviflora ssp. patula	Siskiyou checkerbloom	PDMAL110F9	None	None	-	1B.2	4012378	KORBEL	Mapped and Unprocessed	Plants - Vascular - Malvaceae - Sidalcea malviflora ssp. patula
Plants - Vascular	Sidalcea malviflora ssp. patula	Siskiyou checkerbloom	PDMAL110F9	None	None	-	1B.2	4012472	EUREKA	Mapped	Plants - Vascular - Malvaceae - Sidalcea malviflora ssp. patula
Plants - Vascular	Sidalcea malviflora ssp. patula	Siskiyou checkerbloom	PDMAL110F9	None	None	-	1B.2	4012481	ARCATA NORTH	Mapped	Plants - Vascular - Malvaceae - Sidalcea malviflora ssp. patula
Plants - Vascular	Sidalcea oregana ssp. eximia	coast checkerbloom	PDMAL110K9	None	None	-	1B.2	4012481	ARCATA NORTH	Mapped	Plants - Vascular - Malvaceae - Sidalcea oregana ssp. eximia
Plants - Vascular	Sidalcea oregana ssp. eximia	coast checkerbloom	PDMAL110K9	None	None	-	1B.2	4012472	EUREKA	Mapped	Plants - Vascular - Malvaceae - Sidalcea oregana ssp. eximia
Plants - Vascular	Monotropa uniflora	ghost-pipe	PDMON03030	None	None	-	2B.2	4012472	EUREKA	Mapped	Plants - Vascular - Monotropaceae -

											Monotropa uniflora
Plants - Vascular	Monotropa uniflora	ghost-pipe	PDMON03030	None	None	-	2B.2	4012471	ARCATA SOUTH	Mapped	Plants - Vascular - Monotropaceae - Monotropa uniflora
Plants - Vascular	Pityopus californicus	California pinefoot	PDMON05010	None	None	-	4.2	4012378	KORBEL	Unprocessed	Plants - Vascular - Monotropaceae - Pityopus californicus
Plants - Vascular	Pityopus californicus	California pinefoot	PDMON05010	None	None	-	4.2	4012481	ARCATA NORTH	Unprocessed	Plants - Vascular - Monotropaceae - Pityopus californicus
Plants - Vascular	Pityopus californicus	California pinefoot	PDMON05010	None	None	-	4.2	4012388	BLUE LAKE	Unprocessed	Plants - Vascular - Monotropaceae - Pityopus californicus
Plants - Vascular	Pityopus californicus	California pinefoot	PDMON05010	None	None	-	4.2	4112411	CRANNELL	Unprocessed	Plants - Vascular - Monotropaceae - Pityopus californicus
Plants - Vascular	Pityopus californicus	California pinefoot	PDMON05010	None	None	-	4.2	4112318	PANTHER CREEK	Unprocessed	Plants - Vascular - Monotropaceae - Pityopus californicus
Plants - Vascular	Montia howellii	Howells montia	PDPOR05070	None	None	-	2B.2	4112318	PANTHER CREEK	Mapped	Plants - Vascular - Montiaceae - Montia howellii
Plants - Vascular	Montia howellii	Howells montia	PDPOR05070	None	None	-	2B.2	4012481	ARCATA NORTH	Mapped	Plants - Vascular - Montiaceae - Montia howellii
Plants - Vascular	Montia howellii	Howells montia	PDPOR05070	None	None	-	2B.2	4012472	EUREKA	Mapped	Plants - Vascular - Montiaceae - Montia howellii
Plants - Vascular	Montia howellii	Howells montia	PDPOR05070	None	None	-	2B.2	4012378	KORBEL	Mapped and Unprocessed	Plants - Vascular - Montiaceae - Montia howellii
Plants - Vascular	Montia howellii	Howells montia	PDPOR05070	None	None	-	2B.2	4012471	ARCATA SOUTH	Mapped	Plants - Vascular - Montiaceae - Montia howellii
Plants - Vascular	Abronia umbellata var. breviflora	pink sand-verbena	PDNYC010N4	None	None	-	1B.1	4012472	EUREKA	Mapped and Unprocessed	Plants - Vascular - Nyctaginaceae - Abronia umbellata var. breviflora
Plants - Vascular	Abronia umbellata var. breviflora	pink sand-verbena	PDNYC010N4	None	None	-	1B.1	4012481	ARCATA NORTH	Mapped	Plants - Vascular - Nyctaginaceae - Abronia umbellata var. breviflora
Plants - Vascular	Abronia umbellata var. breviflora	pink sand-verbena	PDNYC010N4	None	None	-	1B.1	4112411	CRANNELL	Mapped	Plants - Vascular - Nyctaginaceae - Abronia umbellata var. breviflora
Plants - Vascular	Abronia umbellata var. breviflora	pink sand-verbena	PDNYC010N4	None	None	-	1B.1	4012482	TYEE CITY	Mapped	Plants - Vascular - Nyctaginaceae - Abronia umbellata var. breviflora
Plants - Vascular	Epilobium septentrionale	Humboldt County fuchsia	PDONA06110	None	None	-	4.3	4012378	KORBEL	Unprocessed	Plants - Vascular - Onagraceae - Epilobium septentrionale
Plants - Vascular	Oenothera wolffii	Wolfs evening-primrose	PDONA0C1K0	None	None	-	1B.1	4112411	CRANNELL	Mapped	Plants - Vascular - Onagraceae - Oenothera wolffii
Plants - Vascular	Oenothera wolffii	Wolfs evening-primrose	PDONA0C1K0	None	None	-	1B.1	4012481	ARCATA NORTH	Mapped	Plants - Vascular - Onagraceae - Oenothera wolffii
Plants - Vascular	Oenothera wolffii	Wolfs evening-primrose	PDONA0C1K0	None	None	-	1B.1	4012472	EUREKA	Mapped	Plants - Vascular - Onagraceae - Oenothera wolffii
Plants - Vascular	Listera cordata	heart-leaved twayblade	PMORC1N060	None	None	-	4.2	4012481	ARCATA NORTH	Unprocessed	Plants - Vascular - Orchidaceae - Listera cordata
Plants - Vascular	Listera cordata	heart-leaved twayblade	PMORC1N060	None	None	-	4.2	4012388	BLUE LAKE	Unprocessed	Plants - Vascular - Orchidaceae - Listera cordata
Plants - Vascular	Listera cordata	heart-leaved twayblade	PMORC1N060	None	None	-	4.2	4112411	CRANNELL	Unprocessed	Plants - Vascular - Orchidaceae - Listera cordata
Plants - Vascular	Listera cordata	heart-leaved twayblade	PMORC1N060	None	None	-	4.2	4112318	PANTHER CREEK	Unprocessed	Plants - Vascular - Orchidaceae - Listera cordata
Plants - Vascular	Listera cordata	heart-leaved twayblade	PMORC1N060	None	None	-	4.2	4012378	KORBEL	Unprocessed	Plants - Vascular - Orchidaceae - Listera cordata
Plants - Vascular	Listera cordata	heart-leaved twayblade	PMORC1N060	None	None	-	4.2	4012471	ARCATA SOUTH	Unprocessed	Plants - Vascular - Orchidaceae - Listera cordata
Plants - Vascular	Piperia candida	white-flowered rein orchid	PMORC1X050	None	None	-	1B.2	4112411	CRANNELL	Mapped	Plants - Vascular - Orchidaceae - Piperia candida
Plants - Vascular	Castilleja ambigua var. humboldtiensis	Humboldt Bay owls-clover	PDSCR0D402	None	None	-	1B.2	4012482	TYEE CITY	Mapped	Plants - Vascular - Orobanchaceae - Castilleja ambigua var. humboldtiensis
Plants - Vascular	Castilleja ambigua var. humboldtiensis	Humboldt Bay owls-clover	PDSCR0D402	None	None	-	1B.2	4012481	ARCATA NORTH	Mapped	Plants - Vascular - Orobanchaceae - Castilleja ambigua var. humboldtiensis

Plants - Vascular	Castilleja ambigua var. humboldtensis	Humboldt Bay owls-clover	PDSCR0D402	None	None	-	1B.2	4012472	EUREKA	Mapped	Plants - Vascular - Orobanchaceae - Castilleja ambigua var. humboldtensis
Plants - Vascular	Castilleja ambigua var. humboldtensis	Humboldt Bay owls-clover	PDSCR0D402	None	None	-	1B.2	4012471	ARCATA SOUTH	Mapped and Unprocessed	Plants - Vascular - Orobanchaceae - Castilleja ambigua var. humboldtensis
Plants - Vascular	Castilleja litoralis	Oregon coast paintbrush	PDSCR0D012	None	None	-	2B.2	4012472	EUREKA	Mapped	Plants - Vascular - Orobanchaceae - Castilleja litoralis
Plants - Vascular	Castilleja litoralis	Oregon coast paintbrush	PDSCR0D012	None	None	-	2B.2	4112411	CRANNELL	Mapped	Plants - Vascular - Orobanchaceae - Castilleja litoralis
Plants - Vascular	Chloropyron maritimum ssp. palustre	Point Reyes salty birds-beak	PDSCR0J0C3	None	None	-	1B.2	4012482	TYEE CITY	Mapped	Plants - Vascular - Orobanchaceae - Chloropyron maritimum ssp. palustre
Plants - Vascular	Chloropyron maritimum ssp. palustre	Point Reyes salty birds-beak	PDSCR0J0C3	None	None	-	1B.2	4012472	EUREKA	Mapped and Unprocessed	Plants - Vascular - Orobanchaceae - Chloropyron maritimum ssp. palustre
Plants - Vascular	Chloropyron maritimum ssp. palustre	Point Reyes salty birds-beak	PDSCR0J0C3	None	None	-	1B.2	4012471	ARCATA SOUTH	Mapped	Plants - Vascular - Orobanchaceae - Chloropyron maritimum ssp. palustre
Plants - Vascular	Collinsia corymbosa	round-headed collinsia	PDSCR0H060	None	None	-	1B.2	4012472	EUREKA	Mapped	Plants - Vascular - Plantaginaceae - Collinsia corymbosa
Plants - Vascular	Calamagrostis bolanderi	Bolanders reed grass	PMPOA17010	None	None	-	4.2	4112411	CRANNELL	Unprocessed	Plants - Vascular - Poaceae - Calamagrostis bolanderi
Plants - Vascular	Pleuropogon refractus	nodding semaphore grass	PMPOA4Y080	None	None	-	4.2	4112411	CRANNELL	Unprocessed	Plants - Vascular - Poaceae - Pleuropogon refractus
Plants - Vascular	Pleuropogon refractus	nodding semaphore grass	PMPOA4Y080	None	None	-	4.2	4112318	PANTHER CREEK	Unprocessed	Plants - Vascular - Poaceae - Pleuropogon refractus
Plants - Vascular	Pleuropogon refractus	nodding semaphore grass	PMPOA4Y080	None	None	-	4.2	4012472	EUREKA	Unprocessed	Plants - Vascular - Poaceae - Pleuropogon refractus
Plants - Vascular	Pleuropogon refractus	nodding semaphore grass	PMPOA4Y080	None	None	-	4.2	4012481	ARCATA NORTH	Unprocessed	Plants - Vascular - Poaceae - Pleuropogon refractus
Plants - Vascular	Pleuropogon refractus	nodding semaphore grass	PMPOA4Y080	None	None	-	4.2	4012388	BLUE LAKE	Unprocessed	Plants - Vascular - Poaceae - Pleuropogon refractus
Plants - Vascular	Pleuropogon refractus	nodding semaphore grass	PMPOA4Y080	None	None	-	4.2	4012471	ARCATA SOUTH	Unprocessed	Plants - Vascular - Poaceae - Pleuropogon refractus
Plants - Vascular	Pleuropogon refractus	nodding semaphore grass	PMPOA4Y080	None	None	-	4.2	4012378	KORBEL	Unprocessed	Plants - Vascular - Poaceae - Pleuropogon refractus
Plants - Vascular	Gilia capitata ssp. pacifica	Pacific gilia	PDPLM040B6	None	None	-	1B.2	4012388	BLUE LAKE	Unprocessed	Plants - Vascular - Polemoniaceae - Gilia capitata ssp. pacifica
Plants - Vascular	Gilia capitata ssp. pacifica	Pacific gilia	PDPLM040B6	None	None	-	1B.2	4012472	EUREKA	Mapped	Plants - Vascular - Polemoniaceae - Gilia capitata ssp. pacifica
Plants - Vascular	Gilia capitata ssp. pacifica	Pacific gilia	PDPLM040B6	None	None	-	1B.2	4112411	CRANNELL	Mapped	Plants - Vascular - Polemoniaceae - Gilia capitata ssp. pacifica
Plants - Vascular	Gilia millefoliata	dark-eyed gilia	PDPLM04130	None	None	-	1B.2	4112411	CRANNELL	Mapped and Unprocessed	Plants - Vascular - Polemoniaceae - Gilia millefoliata
Plants - Vascular	Gilia millefoliata	dark-eyed gilia	PDPLM04130	None	None	-	1B.2	4012482	TYEE CITY	Mapped	Plants - Vascular - Polemoniaceae - Gilia millefoliata
Plants - Vascular	Gilia millefoliata	dark-eyed gilia	PDPLM04130	None	None	-	1B.2	4012472	EUREKA	Mapped and Unprocessed	Plants - Vascular - Polemoniaceae - Gilia millefoliata
Plants - Vascular	Coptis laciniata	Oregon goldthread	PDRAN0A020	None	None	-	4.2	4012388	BLUE LAKE	Mapped and Unprocessed	Plants - Vascular - Ranunculaceae - Coptis laciniata
Plants - Vascular	Coptis laciniata	Oregon goldthread	PDRAN0A020	None	None	-	4.2	4112318	PANTHER CREEK	Unprocessed	Plants - Vascular - Ranunculaceae - Coptis laciniata
Plants - Vascular	Coptis laciniata	Oregon goldthread	PDRAN0A020	None	None	-	4.2	4012378	KORBEL	Unprocessed	Plants - Vascular - Ranunculaceae - Coptis laciniata
Plants - Vascular	Chrysosplenium glechomifolium	Pacific golden saxifrage	PDSAX07020	None	None	-	4.3	4012378	KORBEL	Unprocessed	Plants - Vascular - Saxifragaceae - Chrysosplenium glechomifolium

Plants - Vascular	Chrysosplenium glechomifolium	Pacific golden saxifrage	PDSAX07020	None	None	-	4.3	4012471	ARCATA SOUTH	Unprocessed	Plants - Vascular - Saxifragaceae - Chrysosplenium glechomifolium
Plants - Vascular	Chrysosplenium glechomifolium	Pacific golden saxifrage	PDSAX07020	None	None	-	4.3	4112411	CRANNELL	Unprocessed	Plants - Vascular - Saxifragaceae - Chrysosplenium glechomifolium
Plants - Vascular	Chrysosplenium glechomifolium	Pacific golden saxifrage	PDSAX07020	None	None	-	4.3	4012388	BLUE LAKE	Unprocessed	Plants - Vascular - Saxifragaceae - Chrysosplenium glechomifolium
Plants - Vascular	Chrysosplenium glechomifolium	Pacific golden saxifrage	PDSAX07020	None	None	-	4.3	4012481	ARCATA NORTH	Unprocessed	Plants - Vascular - Saxifragaceae - Chrysosplenium glechomifolium
Plants - Vascular	Chrysosplenium glechomifolium	Pacific golden saxifrage	PDSAX07020	None	None	-	4.3	4012472	EUREKA	Unprocessed	Plants - Vascular - Saxifragaceae - Chrysosplenium glechomifolium
Plants - Vascular	Mitellastra caulescens	leafy-stemmed mitrewort	PDSAX0N020	None	None	-	4.2	4012481	ARCATA NORTH	Unprocessed	Plants - Vascular - Saxifragaceae - Mitellastra caulescens
Plants - Vascular	Mitellastra caulescens	leafy-stemmed mitrewort	PDSAX0N020	None	None	-	4.2	4012388	BLUE LAKE	Unprocessed	Plants - Vascular - Saxifragaceae - Mitellastra caulescens
Plants - Vascular	Mitellastra caulescens	leafy-stemmed mitrewort	PDSAX0N020	None	None	-	4.2	4112411	CRANNELL	Unprocessed	Plants - Vascular - Saxifragaceae - Mitellastra caulescens
Plants - Vascular	Mitellastra caulescens	leafy-stemmed mitrewort	PDSAX0N020	None	None	-	4.2	4112318	PANTHER CREEK	Unprocessed	Plants - Vascular - Saxifragaceae - Mitellastra caulescens
Plants - Vascular	Mitellastra caulescens	leafy-stemmed mitrewort	PDSAX0N020	None	None	-	4.2	4012471	ARCATA SOUTH	Mapped and Unprocessed	Plants - Vascular - Saxifragaceae - Mitellastra caulescens
Plants - Vascular	Mitellastra caulescens	leafy-stemmed mitrewort	PDSAX0N020	None	None	-	4.2	4012378	KORBEL	Mapped and Unprocessed	Plants - Vascular - Saxifragaceae - Mitellastra caulescens
Plants - Vascular	Tiarella trifoliata var. trifoliata	trifoliolate laceflower	PDSAX10031	None	None	-	3.2	4012378	KORBEL	Unprocessed	Plants - Vascular - Saxifragaceae - Tiarella trifoliata var. trifoliata
Plants - Vascular	Tiarella trifoliata var. trifoliata	trifoliolate laceflower	PDSAX10031	None	None	-	3.2	4012388	BLUE LAKE	Unprocessed	Plants - Vascular - Saxifragaceae - Tiarella trifoliata var. trifoliata
Plants - Vascular	Viola palustris	alpine marsh violet	PDVIO041G0	None	None	-	2B.2	4012472	EUREKA	Mapped	Plants - Vascular - Violaceae - Viola palustris
Plants - Vascular	Viola palustris	alpine marsh violet	PDVIO041G0	None	None	-	2B.2	4012471	ARCATA SOUTH	Mapped	Plants - Vascular - Violaceae - Viola palustris



Search Results

58 matches found. Click on scientific name for details

Search Criteria: 9-Quad include [4112411:4112318:4012472:4012471:4012378:4012481:4012482:4012388]

▲ SCIENTIFIC NAME	COMMON NAME	FAMILY	LIFEFORM	BLOOMING PERIOD	FED LIST	STATE LIST	STATE RANK	CA RARE PLANT RANK	GENERAL HABITATS	MICROHABITATS	LOWEST ELEVATION (FT)	HIGHEST ELEVATION (FT)
Abronia umbellata var. breviflora	pink sand-verbena	Nyctaginaceae	annual herb	Jun-Oct	None	None	S2	1B.1	Coastal dunes		0	35
Angelica lucida	sea-watch	Apiaceae	perennial herb	Apr-Sep	None	None	S3	4.2	Coastal bluff scrub, Coastal dunes, Coastal scrub, Marshes and swamps (coastal salt)		0	490
Astragalus pycnostachyus var. pycnostachyus	coastal marsh milk-vetch	Fabaceae	perennial herb	(Apr)Jun-Oct	None	None	S2	1B.2	Coastal dunes (mesic), Coastal scrub, Marshes and swamps (coastal salt, streamsides)		0	180
Astragalus rattanii var. rattanii	Rattan's milk-vetch	Fabaceae	perennial herb	Apr-Jul	None	None	S4	4.3	Chaparral, Cismontane woodland, Lower montane coniferous forest	Gravelly, Streambanks	100	2705
Calamagrostis bolanderi	Bolander's reed grass	Poaceae	perennial rhizomatous herb	May-Aug	None	None	S4	4.2	Bogs and fens, Broadleafed upland forest, Closed-cone coniferous forest, Coastal scrub, Marshes and swamps (freshwater), Meadows and seeps (mesic), North Coast coniferous forest	Mesic	0	1495

Cardamine angulata	seaside bittercress	Brassicaceae	perennial herb	(Jan)Mar-Jul	None	None	S3	2B.2	Lower montane coniferous forest, North Coast coniferous forest	Streambanks	50	3000
Carex arcta	northern clustered sedge	Cyperaceae	perennial herb	Jun-Sep	None	None	S1	2B.2	Bogs and fens, North Coast coniferous forest (mesic)		195	4595
Carex leptalea	bristle-stalked sedge	Cyperaceae	perennial rhizomatous herb	Mar-Jul	None	None	S1	2B.2	Bogs and fens, Marshes and swamps, Meadows and seeps (mesic)		0	2295
Carex lyngbyei	Lyngbye's sedge	Cyperaceae	perennial rhizomatous herb	Apr-Aug	None	None	S3	2B.2	Marshes and swamps (brackish, freshwater)		0	35
Carex praticola	northern meadow sedge	Cyperaceae	perennial herb	May-Jul	None	None	S2	2B.2	Meadows and seeps (mesic)		0	10500
Castilleja ambigua var. humboldtiensis	Humboldt Bay owl's-clover	Orobanchaceae	annual herb (hemiparasitic)	Apr-Aug	None	None	S2	1B.2	Marshes and swamps (coastal salt)		0	10
Castilleja litoralis	Oregon coast paintbrush	Orobanchaceae	perennial herb (hemiparasitic)	Jun	None	None	S3	2B.2	Coastal bluff scrub, Coastal dunes, Coastal scrub	Sandy	50	330
Chloropyron maritimum ssp. palustre	Point Reyes salty bird's-beak	Orobanchaceae	annual herb (hemiparasitic)	Jun-Oct	None	None	S2	1B.2	Marshes and swamps (coastal salt)		0	35
Chrysosplenium glechomifolium	Pacific golden saxifrage	Saxifragaceae	perennial herb	Feb-Jun	None	None	S3	4.3	North Coast coniferous forest, Riparian forest	Roadsides (sometimes), Seeps (sometimes), Streambanks	35	1770
Collinsia corymbosa	round-headed collinsia	Plantaginaceae	annual herb	Apr-Jun	None	None	S1	1B.2	Coastal dunes		0	65
Coptis laciniata	Oregon goldthread	Ranunculaceae	perennial rhizomatous herb	(Feb)Mar-May(Sep-Nov)	None	None	S3?	4.2	Meadows and seeps, North Coast coniferous forest (streambanks)	Mesic	0	3280
Eleocharis parvula	small spikerush	Cyperaceae	perennial herb	(Apr)Jun-Aug(Sep)	None	None	S3	4.3	Marshes and swamps		5	9910

Epilobium septentrionale	Humboldt County fuchsia	Onagraceae	perennial herb	Jul-Sep	None	None	S4	4.3	Broadleafed upland forest, North Coast coniferous forest	Rocky (sometimes), Sandy (sometimes)	150	5905
Erysimum menziesii	Menzies' wallflower	Brassicaceae	perennial herb	Mar-Sep	FE	CE	S1	1B.1	Coastal dunes		0	115
Erythronium oregonum	giant fawn lily	Liliaceae	perennial herb	Mar-Jun(Jul)	None	None	S2	2B.2	Cismontane woodland, Meadows and seeps	Openings, Rocky, Serpentine (sometimes)	330	3775
Erythronium revolutum	coast fawn lily	Liliaceae	perennial bulbiferous herb	Mar-Jul(Aug)	None	None	S3	2B.2	Bogs and fens, Broadleafed upland forest, North Coast coniferous forest	Mesic, Streambanks	0	5250
Fissidens pauperculus	minute pocket moss	Fissidentaceae	moss		None	None	S2	1B.2	North Coast coniferous forest (damp coastal soil)		35	3360
Fritillaria purdyi	Purdy's fritillary	Liliaceae	perennial bulbiferous herb	Mar-Jun	None	None	S4	4.3	Chaparral, Cismontane woodland, Lower montane coniferous forest	Serpentine (usually)	575	7400
Gilia capitata ssp. pacifica	Pacific gilia	Polemoniaceae	annual herb	Apr-Aug	None	None	S2	1B.2	Chaparral (openings), Coastal bluff scrub, Coastal prairie, Valley and foothill grassland		15	5465
Gilia millefoliata	dark-eyed gilia	Polemoniaceae	annual herb	Apr-Jul	None	None	S2	1B.2	Coastal dunes		5	100
Glehnia littoralis ssp. leiocarpa	American glehnia	Apiaceae	perennial herb	May-Aug	None	None	S2S3	4.2	Coastal dunes		0	65
Hemizonia congesta ssp. tracyi	Tracy's tarplant	Asteraceae	annual herb	(Mar-Apr)May-Oct	None	None	S4	4.3	Coastal prairie, Lower montane coniferous forest, North Coast coniferous forest	Openings, Serpentine (sometimes)	395	3935
Hesperevax sparsiflora var. brevifolia	short-leaved evax	Asteraceae	annual herb	Mar-Jun	None	None	S3	1B.2	Coastal bluff scrub (sandy), Coastal dunes, Coastal prairie		0	705

Hosackia gracilis	harlequin lotus	Fabaceae	perennial rhizomatous herb	Mar-Jul	None	None	S3	4.2	Broadleafed upland forest, Cismontane woodland, Closed-cone coniferous forest, Coastal bluff scrub, Coastal prairie, Coastal scrub, Marshes and swamps, Meadows and seeps, North Coast coniferous forest, Valley and foothill grassland	Roadsides	0	2295
Iliamna latibracteata	California globe mallow	Malvaceae	perennial herb	Jun-Aug	None	None	S2	1B.2	Chaparral (montane), Lower montane coniferous forest, North Coast coniferous forest (mesic), Riparian scrub (streambanks)	Burned areas (often)	195	6560
Lasthenia californica ssp. macrantha	perennial goldfields	Asteraceae	perennial herb	Jan-Nov	None	None	S2	1B.2	Coastal bluff scrub, Coastal dunes, Coastal scrub		15	1705
Lathyrus glandulosus	sticky pea	Fabaceae	perennial rhizomatous herb	Apr-Jun	None	None	S3	4.3	Cismontane woodland		985	2625
Lathyrus japonicus	seaside pea	Fabaceae	perennial rhizomatous herb	May-Aug	None	None	S2	2B.1	Coastal dunes		5	100
Lathyrus palustris	marsh pea	Fabaceae	perennial herb	Mar-Aug	None	None	S2	2B.2	Bogs and fens, Coastal prairie, Coastal scrub, Lower montane coniferous forest, Marshes and swamps, North Coast coniferous forest	Mesic	5	330

Layia carnosae	beach layia	Asteraceae	annual herb	Mar-Jul	FT	CE	S2	1B.1	Coastal dunes, Coastal scrub (sandy)		0	195
Lilium kelloggii	Kellogg's lily	Liliaceae	perennial bulbiferous herb	(Feb)May-Aug	None	None	S3	4.3	Lower montane coniferous forest, North Coast coniferous forest	Openings, Roadsides	10	4265
Lilium occidentale	western lily	Liliaceae	perennial bulbiferous herb	Jun-Jul	FE	CE	S1	1B.1	Bogs and fens, Coastal bluff scrub, Coastal prairie, Coastal scrub, Marshes and swamps (freshwater), North Coast coniferous forest (openings)		5	605
Listera cordata	heart-leaved twayblade	Orchidaceae	perennial herb	Feb-Jul	None	None	S4	4.2	Bogs and fens, Lower montane coniferous forest, North Coast coniferous forest		15	4495
Lycopodium clavatum	running-pine	Lycopodiaceae	perennial rhizomatous herb	Jun-Aug(Sep)	None	None	S3	4.1	Lower montane coniferous forest (mesic), Marshes and swamps, North Coast coniferous forest (mesic)	Edges (often), Openings, Roadsides	150	4020
Mitellastrae caulescens	leafy-stemmed mitrewort	Saxifragaceae	perennial rhizomatous herb	(Mar)Apr-Oct	None	None	S4	4.2	Broadleafed upland forest, Lower montane coniferous forest, Meadows and seeps, North Coast coniferous forest	Mesic, Roadsides (sometimes)	15	5580
Monotropae uniflora	ghost-pipe	Ericaceae	perennial herb (achlorophyllous)	Jun-Aug(Sep)	None	None	S2	2B.2	Broadleafed upland forest, North Coast coniferous forest		35	1805

Montia howellii	Howell's montia	Montiaceae	annual herb	(Feb)Mar-May	None	None	S2	2B.2	Meadows and seeps, North Coast coniferous forest, Vernal pools	Roadsides (sometimes), Vernally Mesic	0	2740
Oenothera wolffi	Wolf's evening-primrose	Onagraceae	perennial herb	May-Oct	None	None	S1	1B.1	Coastal bluff scrub, Coastal dunes, Coastal prairie, Lower montane coniferous forest	Mesic (usually), Sandy	10	2625
Packera bolanderi var. bolanderi	seacoast ragwort	Asteraceae	perennial rhizomatous herb	(Jan-Apr)May-Jul(Aug)	None	None	S2S3	2B.2	Coastal scrub, North Coast coniferous forest	Roadsides (sometimes)	100	2135
Piperia candida	white-flowered rein orchid	Orchidaceae	perennial herb	(Mar-Apr)May-Sep	None	None	S3	1B.2	Broadleafed upland forest, Lower montane coniferous forest, North Coast coniferous forest	Serpentine (sometimes)	100	4300
Pityopus californicus	California pinefoot	Ericaceae	perennial herb (achlorophyllous)	(Mar-Apr)May-Aug	None	None	S4	4.2	Broadleafed upland forest, Lower montane coniferous forest, North Coast coniferous forest, Upper montane coniferous forest	Mesic	50	7300
Pleuropogon refractus	nodding semaphore grass	Poaceae	perennial rhizomatous herb	(Feb-Mar)Apr-Aug	None	None	S4	4.2	Lower montane coniferous forest, Meadows and seeps, North Coast coniferous forest, Riparian forest	Mesic	0	5250
Ribes laxiflorum	trailing black currant	Grossulariaceae	perennial deciduous shrub	Mar-Jul(Aug)	None	None	S3	4.3	North Coast coniferous forest	Roadsides (sometimes)	15	4575

Sidalcea malachroides	maple-leaved checkerbloom	Malvaceae	perennial herb	(Mar)Apr-Aug	None	None	S3	4.2	Broadleafed upland forest, Coastal prairie, Coastal scrub, North Coast coniferous forest, Riparian woodland	Disturbed areas (often)	0	2395
Sidalcea malviflora ssp. patula	Siskiyou checkerbloom	Malvaceae	perennial rhizomatous herb	(Mar)May-Aug	None	None	S2	1B.2	Coastal bluff scrub, Coastal prairie, North Coast coniferous forest	Roadsides (often)	50	4035
Sidalcea oregana ssp. eximia	coast checkerbloom	Malvaceae	perennial herb	Jun-Aug	None	None	S1	1B.2	Lower montane coniferous forest, Meadows and seeps, North Coast coniferous forest		15	4395
Silene scouleri ssp. scouleri	Scouler's catchfly	Caryophyllaceae	perennial herb	(Mar-May)Jun-Aug(Sep)	None	None	S2S3	2B.2	Coastal bluff scrub, Coastal prairie, Valley and foothill grassland		0	1970
Spergularia canadensis var. occidentalis	western sand-spurrey	Caryophyllaceae	annual herb	Jun-Aug	None	None	S1	2B.1	Marshes and swamps (coastal salt)		0	10
Sulcaria spiralifera	twisted horsehair lichen	Parmeliaceae	fruticose lichen (epiphytic)		None	None	S2	1B.2	Coastal dunes (SLO Co.), North Coast coniferous forest (immediate coast)		0	295
Tiarella trifoliata var. trifoliata	trifoliate laceflower	Saxifragaceae	perennial rhizomatous herb	(May)Jun-Aug	None	None	S2S3	3.2	Lower montane coniferous forest, North Coast coniferous forest	Edges, Streambanks	560	4920
Trichodon cylindricus	cylindrical trichodon	Ditrichaceae	moss		None	None	S2	2B.2	Broadleafed upland forest, Meadows and seeps, Upper montane coniferous forest	Roadsides, Sandy	165	6570

Usnea longissima	Methuselah's beard lichen	Parmeliaceae	fruticose lichen (epiphytic)		None	None	S4	4.2	Broadleafed upland forest, North Coast coniferous forest	165	4790
Viola palustris	alpine marsh violet	Violaceae	perennial rhizomatous herb	Mar-Aug	None	None	S1S2	2B.2	Bogs and fens (coastal), Coastal scrub (mesic)	0	490

Showing 1 to 58 of 58 entries

Suggested Citation:

California Native Plant Society, Rare Plant Program. 2023. Rare Plant Inventory (online edition, v9.5). Website <https://www.rareplants.cnps.org> [accessed 7 April 2023].