



# JACOBSZOOM & ASSOCIATES, INC.

natural resource planning & management

## **Re: Biological Resource Assessment Addendum Rare Plant Assessment and Botanical Survey**

Prepared for:

City of Ukiah  
Department of Community Development  
300 Seminary Avenue Ukiah, CA 95482

APN: 001-040-83, 157-070-01, 157-070-02, 003-190-01

Prepared by:

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**Survey Objectives:**

Rare plant assessments and botanical surveys are conducted to maximize the likelihood of locating rare, threatened, or endangered plants and plant communities that may be present within a Study Area. Survey findings are useful in assessing the potential for significant adverse impacts on botanical resources and critical in mitigating those impacts. If special-status plant species are located during a survey, mitigation measures will be recommended to avoid or minimized damage to the species.

The Rare Plant Assessment and Botanical Survey for the City of Ukiah constitutes a seasonally appropriate floristic survey and was conducted during appropriate blooming periods for all potentially occurring rare plant species within a nine-quad scoping range of the project area. Every plant taxon encountered during the survey was identified to the taxonomic level necessary to determine rarity and listing status. Habitat requirements for special-status species and their potential to occur within the Study Area are discussed in Appendix A: Table of Potential for Special-Status Plants and Wildlife within the Study Area, of the Biological Resource Assessment.

The survey employs the methods and guidance outlined in the *Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities* (CDFW 2018). The Study Area referred to in this report includes areas shown in the Biological Resource Assessment Figure 2: Biological Assessment Map, Aerial.

**Botanical Survey Results:**

Field surveys within the Study Area were conducted on 03/30/2021 by Miles Hartnett, Staff Biologist/Botanist and Becca Cosmero, Environmental Technician. Jacobszoon and Associates Environmental Technician, Becca Cosmero conducted field surveys on 5/17/2021 and 7/9/2021. Survey protocol was based on *Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities* (CDFW 2018). An intuitively controlled, seasonally appropriate, floristic survey was performed, which was moderate in coverage density (60-80%) in the potential rare plant habitat areas.

A complete list of all plant species observed within the Study Area during the Botanical Survey is included in Table 1: List of Observed Taxa within the Study Area. Plants listed in Table 1 were identified using *The Jepson Manual: Vascular Plants of California 2nd Edition* (Baldwin et al. 2012) to the taxonomic level necessary to determine rarity. The names provided in the Rare Plant Assessment and Botanical Survey follow The Jepson Flora Project.



The Rare Plant Assessment and Botanical Survey identified a total of 96 plant taxa within the Study Area including both native and introduced species. (Table 1: List of Observed Taxa). Of the 96 species observed, none were special-status, rare, threatened, or endangered species.

**Table 1: List of Observed Taxa within the Study Area**

Species name	Common name
<i>Acer macrophyllum</i>	bigleaf maple
<i>Acmispon brachycarpus</i>	Short-podded lotus
<i>Adenostoma fasciculatum</i>	chamise
<i>Adiantum jordanii</i>	maiden hair fern
<i>Aesculus californica</i>	California buckeye
<i>Arbutus menziesii</i>	Pacific madrone
<i>Arctostaphylos canescens</i> ssp. <i>canescens</i>	hoary manzanita
<i>Arctostaphylos glandulosa</i>	Eastwood manzanita
<i>Arctostaphylos glandulosa</i> ssp. <i>glandulosa</i>	Eastwood manzanita
<i>Arctostaphylos glauca</i>	Bigberry manzanita
<i>Arctostaphylos manzanita</i> ssp. <i>manzanita</i>	common manzanita
<i>Arctostaphylos patula</i>	greenleaf manzanita
<i>Baccharis pilularis</i>	coyote bush
<i>Calochortus tolmiei</i>	pussy ears
<i>Cardamine californica</i>	milk maids
<i>Cardamine hirsuta</i>	hairy bittercress
<i>Cardamine oligosperma</i>	Idaho bittercress
<i>Ceanothus cuneatus</i> var. <i>cuneatus</i>	buckbrush
<i>Ceanothus foliosus</i> var. <i>foliosus</i>	wavyleaf ceanothus
<i>Centaurea melitensis</i>	Maltese star-thistle
<i>Cerastium glomeratum</i>	mouseear chickweed
<i>Cercocarpus betuloides</i>	mountain mahogany
<i>Chlorogalum pomeridianum</i>	Wavy leaf soaproot
<i>Claytonia perfoliata</i>	miner's lettuce
<i>Collomia heterophylla</i>	variable leaf collomia
<i>Crocanthemum scoparium</i>	peak rushrose
<i>Cynoglossum grande</i>	Pacific houndstongue
<i>Cynosurus echinatus</i>	bristly dogtail
<i>Delphinium nudicaule</i>	red larkspur
<i>Dichelostemma capitatum</i>	blue dicks
<i>Dichelostemma ida-maia</i>	firecracker flower
<i>Diplacus aurantiacus</i>	sticky monkeyflower
<i>Dittrichia graveolens</i>	stinkwort



Species name	Common name
<i>Dryopteris arguta</i>	California wood fern
<i>Elymus glaucus</i>	blue wild rye
<i>Eriophyllum lanatum</i>	common woolly sunflower
<i>Erythronium californicum</i>	California fawn lily
<i>Euphorbia oblongata</i>	eggleaf spurge
<i>Festuca arundinacea</i>	tall fescue
<i>Festuca microstachys</i>	small fescue
<i>Festuca perennis</i>	Italian rye
<i>Festuca temulenta</i>	darnel
<i>Galium aparine</i>	cleavers
<i>Galium bolanderi</i>	Bolander's bedstraw
<i>Gastridium phleoides</i>	nit grass
<i>Genista monspessulana</i>	french broom
<i>Geranium molle</i>	woodland geranium
<i>Hesperolinon</i>	dwarf-flax
<i>Heteromeles arbutifolia</i>	toyon
<i>Hieracium spp</i>	hawkweed
<i>Holodiscus discolor</i>	oceanspray
<i>Hordeum brachyantherum</i>	common barley
<i>Hypericum concinnum</i>	goldwire
<i>Iris macrosiphon</i>	ground iris
<i>Lithophragma affine</i>	common woodland star
<i>Lonicera hispidula</i>	pink honeysuckle
<i>Luzula comosa</i>	hairy wood rush
<i>Lysimachia latifolia</i>	Pacific star flower
<i>Madia gracilis</i>	grassy tarweed
<i>Marrubium vulgare</i>	white horehound
<i>Micranthes californica</i>	Greene's saxifrage
<i>Micropus californicus</i>	Q tips
<i>Nemophila heterophylla</i>	small baby blue eyes
<i>Notholithocarpus densiflorus</i>	tanoak
<i>Pedicularis densiflora</i>	warrior's plume
<i>Pentagramma triangularis</i>	goldenback fern
<i>Phacelia imbricata</i>	mountain phacelia
<i>Pinus attenuata</i>	knobcone pine
<i>Plagiobothrys tenellus</i>	slender popcorn flower
<i>Polygala californica</i>	California milkwort
<i>Polypodium glycyrrhiza</i>	licorice fern
<i>Polystichum munitum</i>	western sword fern
<i>Primula hendersonii</i>	Henderson's shooting star
<i>Pseudotsuga menziesii</i>	Douglas-fir



Species name	Common name
<i>Pteridium aquilinum var. pubescens</i>	bracken fern
<i>Quercus berberidifolia</i>	scrub oak
<i>Quercus garryana</i>	Oregon white oak
<i>Quercus kelloggii</i>	California black oak
<i>Quercus parvula var. shrevei</i>	Shreve oak
<i>Quercus wislizeni var. wislizeni</i>	interior live oak
<i>Ranunculus occidentalis</i>	western buttercup
<i>Rosa gymnocarpa</i>	wood rose
<i>Sanicula crassicaulis</i>	Pacific sanicle
<i>Scutellaria tuberosa</i>	blue skullcap
<i>Sequoia sempervirens</i>	redwood
<i>Sidalcea diploscypha</i>	fringed checkerbloom
<i>Symphoricarpos albus</i>	snowberry
<i>Tauschia spp.</i>	umbrellawort
<i>Torreya californica</i>	California nutmeg
<i>Toxicodendron diversilobum</i>	poison oak
<i>Trifolium hirtum</i>	rose clover
<i>Trifolium microcephalum</i>	small headed clover
<i>Umbellularia californica</i>	bay laurel
<i>Vicia americana</i>	American vetch
<i>Whipplea modesta</i>	modesty
<i>Wyethia glabra</i>	smooth mule ears

No special status plant species were observed during the Rare Plant Assessment and Botanical Survey.

**Recommendations:**

No special status plant species were observed during the Rare Plant Assessment and Botanical Survey.

There are no recommendations for special status plant species at this time.



**Report Author:**

**Becca Cosmero**

Becca Cosmero is an environmental technician at Jacobszoon and Associates Inc. with three years of professional experience in fisheries management, biological monitoring, and ecological restoration. She received a Bachelor's of Science in Biology with an emphasis in Ecology and Evolutionary Studies from the University of California, Merced in 2018. Prior to working with Jacobszoon and Associates Inc., Ms. Cosmero has worked with FISHBIO to monitor and study predator populations threatening salmonids within the Stanislaus and Tuolumne Rivers, Sequoia Ecological Consulting as an on-call biologist conducting compliance monitoring, and Grassroots Ecology as an AmeriCorps intern. She received a Rare Plant and Vegetation Sampling certificate from the California Native Plant Society in March 2019 and holds a Rare Plant Voucher Collecting Permit through CDFW (No. 2081 a-21-076-V).

Sincerely,

Becca Cosmero (she/her)

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