

**Botanical Survey  
Addendum to Biological Report**

for

**Brynildson Residence APN 046-031-033**

Old Creek Road

PRE2018-00056

San Luis Obispo County



Prepared for

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## **1 INTRODUCTION**

### **1.1 Purpose**

This report serves as an addendum to the *Biological Report for Brynildson Residence APN 046-031-033* (Althouse and Meade, Inc. 2018) and provides information regarding botanical resources associated with an approximately 56-acre portion (Study Area) of a 162-acre parcel in San Luis Obispo County, California (refer to Figures 1 and 2 of Biological Report). As described in the Biological Report, a survey of the Study Area in September 2018 identified 31 species, subspecies, and varieties of vascular plants. No rare plants were detected in September 2018, however an appropriately timed (i.e., spring) botanical survey was recommended based on the potential for four (4) special status plants to occur in the Study Area. Survey methodology, results, and plant and animal evaluation of the effect of the proposed project on botanical resources is included.

### **1.2 Location**

The Study Area is a 56-acre portion of an approximately 162-acre parcel (APN 046-031-033) located in western San Luis Obispo County, approximately 1.8 miles south of the intersection of Highway 46 and Old Creek Road. Approximate coordinates for the center of the Study Area are 35.508611, -120.847828 (WGS84) in the United States Geological Survey (USGS) 7.5-minute topographic quadrangle.

## **2 METHODS**

Focused surveys of the Study Area for botanical resources were conducted on April 2 and 18, 2019 by Principal Biologist Jason Dart according to agency protocols. The survey period was selected based on the known blooming periods of the four special-status plant species that were determined to have potential to occur in the Study Area (refer to Table 3 of Biological Report), as well as an evaluation of weather trends and the phenological status of plant populations in the area. The survey focused on potential impact areas shown on the April 23, 2018 site plans (Appendix A of Biological Report), including the access road and proposed structure locations. The survey was conducted on foot utilizing meandering transects to compile species lists and search for special status plants. All vascular plant species observed in the Study Area were identified and recorded. Identification of botanical resources included field observations and laboratory analysis of collected material.

Botanical nomenclature used in this document follows the Jepson Flora Project (Jepson Flora Project (eds.) 2019). A full description of the literature review and mapping methodologies is provided in the Biological Report (2018).

A complete list of all plant species detected within the Study Area to date was compiled and includes plants identified during the focused botanical survey, as well as the general biological survey in September 2018 and wetland and waters delineation surveys conducted in February and April 2019.

**TABLE 1. SURVEY DATES**

Date	Surveyor(s)	Weather Observations	Activities
September 27, 2018	Lisa Gadsby Mike Hill	63 to 80 °F, clear skies, calm winds	General biological survey
February 25, 2019	Jacqueline Tilligkeit Jessica Boone Jason Dart	50 °F, partly cloudy, winds 4-7 mph	Delineation of wetlands and waters
April 2, 2019	Jason Dart	59 °F, partly cloudy, calm	Botanical Survey
April 18, 2019	Jason Dart	55 °F, drizzly rain, cold	Botanical Survey
April 23, 2019	Jacqueline Tilligkeit Kristen Andersen	72 °F, clear skies, calm	Delineation of wetlands and waters

### 3 RESULTS

A total of 84 vascular plant species, subspecies, and varieties were identified within the Study Area between September 27, 2018 and April 23, 2019 (Table 2). Approximately 60 percent of the species are native, with the remaining 40 percent being planted or introduced. No special-status plant species were detected.

**TABLE 2: VASCULAR PLANT LIST**

Common Name	Scientific Name	Special Status	Origin
<b>Trees - 6 Species</b>			
Big-leaf maple	<i>Acer macrophyllum</i>	None	Native
California buckeye	<i>Aesculus californica</i>	None	Native
Madrone	<i>Arbutus menziesii</i>	None	Native
Cypress	<i>Hesperocyparis</i> sp.	None	Planted
California bay	<i>Umbellularia californica</i>	None	Native
Coast live oak	<i>Quercus agrifolia</i> var. <i>agrifolia</i>	None	Native
<b>Shrubs - 9 Species</b>			
Agave	<i>Agave</i> sp.	None	Planted
Arroyo willow	<i>Salix lasiolepis</i>	None	Native
Blue elderberry	<i>Sambucus nigra</i> ssp. <i>caerulea</i>	None	Native
California fuchsia	<i>Epilobium canum</i>	None	Native
Coffeeberry	<i>Frangula californica</i>	None	Native
Coyote brush	<i>Baccharis pilularis</i>	None	Native
Poison oak	<i>Toxicodendron diversilobum</i>	None	Native
Saw-toothed goldenbush	<i>Hazardia squarrosa</i>	None	Native

Common Name	Scientific Name	Special Status	Origin
Sticky monkeyflower	<i>Diplacus aurantiacus</i>	None	Native
<b>Forbs - 54 Species</b>			
Annual stinging nettle	<i>Urtica urens</i>	None	Native
Black mustard	<i>Brassica nigra</i>	None	Introduced
Blue dicks	<i>Dichelostemma capitatum</i>	None	Native
Bull thistle	<i>Cirsium vulgare</i>	None	Introduced
California aster	<i>Corethrogyne filaginifolia</i>	None	Native
California bee plant	<i>Scrophularia californica</i>	None	Native
California buttercup	<i>Ranunculus californica</i>	None	Native
California bur-clover	<i>Medicago polymorpha</i>	None	Introduced
California dandelion	<i>Agoseris grandiflora</i>	None	Native
Chickweed	<i>Stellaria media</i>	None	Introduced
Clarkia	<i>Clarkia purpurea</i>	None	Native
Clover	<i>Trifolium sp.</i>	None	Native
Common pineapple weed	<i>Matricaria discoidea</i>	None	Introduced
Common sheep sorrel	<i>Rumex acetosella</i>	None	Introduced
Common tansyaster	<i>Corethrogyne filaginifolia</i>	None	Native
Common verbena	<i>Verbena lasiostachys</i>	None	Native
Crane's bill geranium	<i>Geranium molle</i>	None	Introduced
Curly dock	<i>Rumex crispus</i>	None	Introduced
English plantain	<i>Plantago lanceolata</i>	None	Introduced
Everlasting nest straw	<i>Stylocline gnaphalioides</i>	None	Native
Featherweed	<i>Gamochaeta ustulata</i>	None	Native
Glandular big tarweed	<i>Blepharizonia laxa</i>	None	Native
Goosegrass	<i>Galium aparine</i>	None	Introduced
Hairy vetch	<i>Vicia sativa</i>	None	Introduced
Herba impia	<i>Logfia gallica</i>	None	Introduced
Italian thistle	<i>Carduus pycnocephalus</i>	None	Introduced
Knotweed	<i>Polygonum aviculare</i>	None	Introduced
Ladies mantle	<i>Aphanes occidentale</i>	None	Native
Ladies' tobacco	<i>Pseudognaphalium californicum</i>	None	Native
Miniature lupine	<i>Lupinus bicolor</i>	None	Native
Milk thistle	<i>Silybum marianum</i>	None	Introduced
Miner's lettuce	<i>Claytonia perfoliata</i>	None	Native
Mugwort	<i>Artemisia douglasiana</i>	None	Native

Common Name	Scientific Name	Special Status	Origin
Oriental hedge mustard	<i>Sisymbrium orientale</i>	None	Introduced
Pacific sanicle	<i>Sanicula crassicaulis</i>	None	Native
Poison hemlock	<i>Conium maculatum</i>	None	Introduced
Prickly sow thistle	<i>Sonchus asper</i>	None	Introduced
Redstem filaree	<i>Erodium cicutarium</i>	None	Introduced
Rose clover	<i>Trifolium hirtum</i>	None	Introduced
Roughleaf aster	<i>Eurybia radulina</i>	None	Native
Rusty haired popcorn flower	<i>Plagiobothrys nothofulvus</i>	None	Native
Scarlet pimpernel	<i>Lysimachia arvensis</i>	None	Introduced
Sharp toothed sanicle	<i>Sanicula arguta</i>	None	Native
Shooting stars	<i>Primula clevelandii</i>	None	Native
Smooth cat's ear	<i>Hypochaeris glabra</i>	None	Introduced
Stinging nettle	<i>Urtica dioica</i>	None	Native
Tocalote	<i>Centaurea melitensis</i>	None	Introduced
Wild geranium	<i>Geranium dissectum</i>	None	Introduced
Wild mustard	<i>Hirschfeldia incana</i>	None	Introduced
Willow lettuce	<i>Lactuca saligna</i>	None	Introduced
Wood mint	<i>Stachys</i> sp.	None	Native
Woodland strawberry	<i>Fragaria vesca</i>	None	Native
Yellow star-thistle	<i>Centaurea solstitialis</i>	None	Introduced
Yerba buena	<i>Clinopodium douglasii</i>	None	Native
<b>Graminoids – 13 Species</b>			
Annual beard grass	<i>Polypogon monspeliensis</i>	None	Introduced
Annual bluegrass	<i>Poa annua</i>	None	Introduced
Annual fescue	<i>Festuca microstachys</i>	None	Native
Brown-headed rush	<i>Juncus phaeocephalus</i>	None	Native
California brome	<i>Bromus carinatus</i>	None	Native
Common toad rush	<i>Juncus bufonius</i>	None	Native
Foxtail barley	<i>Hordeum murinum</i>	None	Introduced
Giant wild rye	<i>Leymus condensatus</i>	None	Native
Italian rye grass	<i>Festuca perennis</i>	None	Native
Red-top brome	<i>Bromus madritensis</i> subsp. <i>rubens</i>	None	Introduced
Ripgut brome	<i>Bromus diandrus</i>	None	Introduced
Purple needlegrass	<i>Stipa pulchra</i>	None	Native
Wild oat	<i>Avena fatua</i>	None	Introduced



Common Name	Scientific Name	Special Status	Origin
<b>Ferns - 2 Species</b>			
Bracken fern	<i>Pteridium aquilinum</i> var. <i>pubescens</i>	None	Native
California wood fern	<i>Dryopteris arguta</i>	None	Native

## **4 RECOMMENDATIONS**

Appropriately timed botanical surveys did not detect any special-status plant species within the Study Area; therefore, no further botanical studies are recommended. If modifications to the project design occur that will impact areas not included within the Study Area for this report, additional surveys should be conducted to evaluate those areas.