# JANE VALERIUS ENVIRONMENTAL CONSULTING

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Paul Cook, Executive Director Community Housing Sonoma County 131-A Stony Circle, Suite 500 Santa Rosa, CA 95401 pcook@ch-sc.org

RE: Special status plant surveys for 2021 for 2149 West Hearn Avenue, Santa Rosa Hearn Veterans Village.

This letter report presents my findings of protocol plant surveys for 2021 for the Hearn Veterans Village project site located at 2149 West Hearn Avenue in Santa Rosa, Sonoma County, CA. Plant surveys were also conducted in 2020 so that the 2021 surveys comprise the second year of surveys as requested by the California Department of Fish & Wildlife (CDFW). Please refer to the *Biological Resource Assessment Hearn Veterans Village*, 2149 West Hearn Avenue, Santa Rosa prepared by Wildlife Research Associates and Jane Valerius Environmental Consulting dated December 7, 2020 for additional details about the project and previous studies.

#### **METHODS**

Jane Valerius, botanist, conducted a second year of surveys for special status plants. Surveys for special status plants were conducted per CDFW and U.S. Fish & Wildlife Service (USFWS) protocols for projects located on the Santa Rosa Plain (SRP). The protocols require that the floristic surveys be conducted at the time when special status species were in flower and identifiable and a list of all species identifiable at the time of the surveys was recorded. A list of plant species observed during the 2020 and 2021 surveys is provided as Attachment A.

Surveys for special status plants were conducted on April 16, April 22, and May 6, 2021 and on March 17, April 8, and April 27, 2020. The project area had been mowed prior to the May 6, 2021 site visit for fire control purposes.

The surveys were timed so that at least one or more of the three listed vernal pool plants known to occur on the Santa Rosa Plain were in flower. These three species are Sonoma sunshine (*Blennosperma bakeri*), Burke's goldfields (*Lasthenia burkei*), and Sebastopol meadowfoam (*Limnanthes vinculans*). Prior to conducting surveys at the project site, a site visit to an established reference site was conducted at the Alton Lane Preserve for the three listed vernal pool plants known to occur on the SRP. The purpose of the reference site visits was to establish that one or more of the three listed vernal pool plants known to occur on the SRP were in flower at the time of the site survey. All three of the vernal pool plants were in flower and identifiable

during the April 16 and April 22, 2021 site visits, although the Sonoma sunshine was approximately 50 to 70% in seed with 50 to 30% in flower. For the May 6, 2021 reference site visit the Sonoma sunshine and Sebastopool meadowfoam were 100% past flowering and had gone to see. The Burke's goldfields was approximately 50% in flower and 50% gone to seed.

As required by the USFWS protocol, a minimum of three surveys were conducted in both 2020 and 2021. Due to the dry conditions in 2020 and 2021 the three surveys were conducted relatively close together as the plant flowering season advanced quickly.

The entire site was surveyed by conducting wandering transects across the project area. Special attention was given to the two small wetland areas mapped for the site during the October 15, 2009 delineation which was verified by the U.S. Army Corps of Engineers in 2010.

### **RESULTS**

Three vegetation communities have been described for the site and are described below:

Non-Native Grassland: Non-native grassland is the main vegetation type on the site and is composed of mostly non-native grasses such as wild oats (Avena barbata, A. fatua), tall fescue (Festuca arundinacea), Harding grass (Phalaris aquatica), annual ryegrass (Fesctuca perennis), Bermuda grass (Cynodon dactylon), and hare barley (Hordeum murinum ssp. leporinum). Forb species include teasel (Dipsacus fullonum), fennel (Foeniculum vulgare), bristly ox-tongue (Picris echioides), wild radish (Raphanus sativus), bindweed (Convolvulus arvensis), and knotweed (Polygonum aviculare). Two native grass species were also observed: meadow barley (Hordeum brachyantherum) and creeping wildrye (Elymus triticoides). These occur as small patches and not as separate community types. Native forb species observed include California poppy (Eschscholzia californica), lupines (Lupinus nanus, L. bicolor), and bedstraw (Galium aparine).

Individual Trees and Shrubs: The western and northern portion of the property is undeveloped and consists primarily of non-native grassland with some native valley oak (*Quercus lobata*) and coast live oak (*Quercus agrifolia*) trees. A small stand of arroyo willow with oaks along occurs in the undeveloped portion as well as a thicket of Himalayan blackberry (*Rubus discolor*. Native shrubs noted include poison oak (*Toxicodendron diversilobum*), toyon (*Heteromeles arbutifolia*), and coyote brush (*Baccharis pilularis*). Other trees and shrubs on the site are primarily planted ornamentals and include fruit trees, magnolia, palm, and walnut.

Seasonal Wetlands: Two small seasonal wetland areas were mapped for the project area. The dominant plant species observed in 2009 and 2020 was common lippia (*Phyla nodiflora*) which is a facultative wetland (FACW) plant species. The wetland in the northwest corner also has a lot of creeping wildrye, a FAC species. Both areas are marginal wetlands and were dry during the 2020 and 2021 surveys. Although these areas met the three criteria to qualify as wetlands based on the 2009 delineation, the plant species that occur on the project site wetlands are not typically associated with vernal pools and these areas would not be considered as potential suitable habitat for any of the listed vernal pool plants.

## **Special Status Plants**

No special status plants were observed during the 2020 and 2021 plant surveys. The 2020 and 2021 rainfall amounts were below normal; however, all three of the listed vernal pool plants were observed in flower at the reference site, so if those species were present, they would have been identifiable on the project site. Wetland A, located along the south boundary parallel to West Hearn Avenue, is dominated by common lippia as described above. Wetland B, located in the northwest corner, is a depression that is dominated by creeping wildrye, a rhizomatous grass species, which is not a vernal pool species.

As stated above, the wetlands on the site are not potential suitable habitat for the listed vernal pool plants primarily due to the lack of suitable wetland hydrology. No standing water was observed in the wetlands during the 2020 and 2021 plant surveys. In addition, no standing water was observed at the time of the 2009 wetland delineation. Sample data points were collected for the delineation on October 15, 2009 and in the data sheets it was noted that prior to the site visit it had rained +/- 3 inches in the first storm of the year, which began on October 12, 2009. Despite this amount of rainfall there was no standing water at either of the two wetland areas or anywhere on the project site. Evidence of wetland hydrology was based on the presence of oxidized rhizospheres in the top 12 inches of soil. There was no saturated soils or standing water observed. Wetland A is almost flat with little to no perceptible depression that would hold water long enough for any of the vernal pool plants to develop. Wetland B, despite having the topographic shape to allow for water to pond, also did not support ponding.

#### SUMMARY AND CONCLUSION

Two years of protocol plant surveys were conducted for the 2149 West Hearn Avenue site in Santa Rosa in 2020 and in 2021. No special status plants were observed during the appropriately timed surveys. Despite the lack of rain in 2020 and 2021, special status plants were observed at the reference site on Alton Lane. The two small seasonal wetlands mapped for the site as part of the 2009 wetland delineation do not provide potential suitable habitat for any of the listed vernal pools plants as they lack sufficient hydrology to support these species.

I hope this information was helpful.

Sincerely,

Jane Valerius Botanist

# ATTACHMENT A

# Plant species observed on March 17, April 8 and April 27, 2020 and April 16, April 22 and May 6, 2021.

Avena barbata Wild oats  Avena fatua Oats*  Baccharis pilularis Coyote brush  Brassica rapa Field mustard*  Bromes Bromus diandrus Ripgut brome*  Bromus hordaeceus Cichorium intybus Chicory*  Convolvulus arvensis Bindweed*  Cottoneaster sp. Cotoneaster*  Coperus eragrostis Tall flat sedge  Daucus carota Queen Anne's lace*  Dipsacus fullonum Teasel*  Elymus triticoides Creeping wildrye  Erodium spp. Filarees*  Eschscholzia californica California poppy  Festuca arundinaeca Tall fescue*  Festuca perennis Ryegrass*  Foeniculum vulgare Fennel*  Gallium aparine Bedstraw  Geranium dissectum Glyceria x iccudebtakus Western manna grass*  Helminthotheca echioides Bristly ox-tongue*  Hereromeles arbutifolia Toyon  Hordeum brachyantherum Meadow barley  Hordeum marninum ssp. gussoneanum Mediterranean barley*  Hordeum murinum ssp. leporinum Hare barley*  Juglans hindsii Northern California black walnut  Lactuca serriola Prickly lettuce*  Lupinus bicolor Dwarf lupine  Lupinus nanus  Magnolia*	Scientific Name	Common Name
Baccharis pilularis Brassica nigra Brassica rapa Bromus catharticus Bromus diandrus Bromus hordaeceus Cichorium intybus Convolvulus arvensis Broucs arata Dipsacus fullonum Elymus triticoides Creeping wildrye Erodium spp. Eschscholzia californica Festuca perennis Festuca perennis Gallium aparine Geranium dissectum Glyceria x iccudebtakus Helminthotheca echioides Heteromeles arbutifolia Hordeum marninum ssp. leporinum Hare barley* Huginus nanus Brome* Brome* Brome* Brome* Brome* Brome* Bried mustard* Briggut brome* Soft chess* Chicory* Chicory* Chicory* Chicory* Cotneaster* Chicory* Cotneaster* Cotneaster* Cotneaster* Cotneaster* Cotneaster* Cotneaster* Cotneaster* Cueen Anne's lace* Festel* Elymus triticoides Creeping wildrye Filarees* Eschscholzia californica California poppy Festuca arundinacea Tall fescue* Fennel* Bedstraw Cut-leaf geranium* Cut-leaf geranium* Meadow barley Heteromeles arbutifolia Toyon Hordeum brachyantherum Meadow barley Hordeum marninum ssp. gussoneanum Mediterranean barley* Hordeum murinum ssp. leporinum Hare barley* Juglans hindsii Northern California black walnut Lactuca serriola Lupinus bicolor Lupinus nanus Sky lupine	Avena barbata	Wild oats
Brassica nigra Black mustard* Brassica rapa Field mustard* Bromus catharticus Brome* Bromus diandrus Ripgut brome* Bromus hordaceus Soft chess* Cichorium intybus Chicory* Convolvulus arvensis Bindweed* Cottoneaster sp. Cotoneaster* Cyperus eragrostis Tall flat sedge Daucus carota Queen Anne's lace* Dipsacus fullonum Teasel* Elymus triticoides Creeping wildrye Erodium spp. Filarees* Eschscholzia californica California poppy Festuca arundinacea Tall fescue* Festuca perennis Ryegrass* Foeniculum vulgare Fennel* Gallium aparine Bedstraw Geranium dissectum Cut-leaf geranium* Glyceria x iccudebtakus Western manna grass* Helminthotheca echioides Bristly ox-tongue* Heteromeles arbutifolia Toyon Hordeum brachyantherum Meadow barley Hordeum marninum ssp. gussoneanum Hare barley* Juglans hindsii Northern California black walnut Lactuca serriola Lupinus nanus Sky lupine	Avena fatua	Oats*
Brassica rapa Bromus catharticus Bromus diandrus Bromus hordaeceus Cichorium intybus Convolvulus arvensis Brouce aragnostis Dipsacus fullonum Elymus triticoides Erodium spp. Eschscholzia californica Festuca perennis Festuca perennis Geranium dissectum Glyceria x iccudebtakus Helminthotheca echioides Heteromeles arbutinum spp. gussoneanum Hordeum marninum ssp. gussoneanum Hare barley* Juglans hindsii Luctuca serriola Lupinus naus Soft chess* Ripgut brome* Birgut brome* Birgut brome* Soft chess* Cothoeaster* Chicory* Cothoeaster* Cotoneaster* Cotoneaster* Cotoneaster* Cotoneaster* Cotoneaster* Cueen Anne's lace* Teasel* Creeping wildrye Filarees* California poppy Filarees* California poppy Festuca arundinacea Tall fescue* Fesnel* Ryegrass* Foeniculum vulgare Fennel* Bedstraw Cut-leaf geranium* Western manna grass* Helminthotheca echioides Bristly ox-tongue* Heteromeles arbutifolia Toyon Hordeum marninum ssp. gussoneanum Hare barley* Hordeum murinum ssp. leporinum Hare barley* Juglans hindsii Northern California black walnut Lactuca serriola Lupinus bicolor Dwarf lupine Sky lupine	Baccharis pilularis	Coyote brush
Bromus catharticus Bromus diandrus Ripgut brome*  Bromus hordaeceus Cichorium intybus Chicory* Convolvulus arvensis Bindweed* Cottoneaster sp. Cotoneaster sp. Cyperus eragrostis Daucus carota Queen Anne's lace* Dipsacus fullonum Teasel* Elymus triticoides Erodium spp. Filarees* Eschscholzia californica California poppy Festuca arundinacea Tall fescue* Fesuca perennis Ryegrass* Foeniculum vulgare Gallium aparine Bedstraw Geranium dissectum Gulyeeria x iccudebtakus Helminthotheca echioides Heteromeles arbutifolia Hordeum brachyantherum Hordeum marninum ssp. gussoneanum Hordeum murinum ssp. leporinum Luginus hindsii Northern California black walnut Luctuca serriola Lupinus nanus Sky lupine	Brassica nigra	Black mustard*
Bromus diandrus Bromus hordaeceus Cichorium intybus Chicory* Convolvulus arvensis Bindweed* Cottoneaster sp. Cotoneaster's Cyperus eragrostis Tall flat sedge Daucus carota Queen Anne's lace* Dipsacus fullonum Teasel* Elymus triticoides Creeping wildrye Erodium spp. Filarees* Eschscholzia californica California poppy Festuca arundinaeca Tall fescue* Fesuca perennis Ryegrass* Foeniculum vulgare Gallium aparine Bedstraw Geranium dissectum Gut-leaf geranium* Glyceria x iccudebtakus Helminthotheca echioides Heteromeles arbutifolia Hordeum brachyantherum Hordeum marninum ssp. gussoneanum Hordeum marninum ssp. leporinum Hare barley* Juglans hindsii Northern California black walnut Luctuca serriola Lupinus nanus Sky lupine	Brassica rapa	Field mustard*
Bromus hordaeceus Cichorium intybus Chicory* Convolvulus arvensis Bindweed* Cottoneaster sp. Cotoneaster sp. Cyperus eragrostis Tall flat sedge Daucus carota Queen Anne's lace* Dipsacus fullonum Teasel* Elymus triticoides Creeping wildrye Erodium spp. Filarees* Eschscholzia californica California poppy Festuca arundinacea Tall fescue* Festuca perennis Ryegrass* Foeniculum vulgare Gallium aparine Bedstraw Geranium dissectum Cut-leaf geranium* Glyceria x iccudebtakus Helminthotheca echioides Heteromeles arbutifolia Hordeum brachyantherum Meadow barley Hordeum marninum ssp. gussoneanum Hordeum marninum ssp. leporinum Juglans hindsii Northern California black walnut Lactuca serriola Lupinus nanus Sky lupine	Bromus catharticus	Brome*
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Convolvulus arvensis Cottoneaster sp. Cotoneaster* Cyperus eragrostis Daucus carota Dipsacus fullonum Teasel* Elymus triticoides Creeping wildrye Erodium spp. Eschscholzia californica California poppy Festuca arundinacea Tall fescue* Fennel* Gallium aparine Bedstraw Geranium dissectum Guyceria x iccudebtakus Helminthotheca echioides Heteromeles arbutifolia Hordeum marninum ssp. gussoneanum Hordeum murinum ssp. leporinum Luginus bicolor Lupinus bicolor Lupinus nanus  Tall flat sedge Queen Anne's lace* Teasel* Cueen Anne's lace* Creeping wildrye Ereal* California poppy Tall fescue* Festuca erundinacea Festuca perennis Ryegrass* Foeniculum vulgare Fennel* Geranium dissectum Cut-leaf geranium* Glyceria x iccudebtakus Western manna grass* Helminthotheca echioides Bristly ox-tongue* Heteromeles arbutifolia Toyon Hordeum marninum ssp. gussoneanum Mediterranean barley* Hordeum murinum ssp. leporinum Hare barley* Juglans hindsii Northern California black walnut Prickly lettuce* Dwarf lupine	Bromus hordaeceus	Soft chess*
Cottoneaster sp.  Cyperus eragrostis  Tall flat sedge  Daucus carota  Queen Anne's lace*  Dipsacus fullonum  Teasel*  Elymus triticoides  Creeping wildrye  Erodium spp.  Eilarees*  Eschscholzia californica  California poppy  Festuca arundinacea  Tall fescue*  Festuca perennis  Ryegrass*  Foeniculum vulgare  Gallium aparine  Bedstraw  Geranium dissectum  Cut-leaf geranium*  Glyceria x iccudebtakus  Helminthotheca echioides  Heteromeles arbutifolia  Hordeum brachyantherum  Hordeum marninum ssp. gussoneanum  Hordeum marninum ssp. leporinum  Hare barley*  Juglans hindsii  Lactuca serriola  Lupinus bicolor  Dwarf lupine  Cutenease  Cottoneaster*  Tall flat sedge  Queen Anne's lace*  Teasel*  Creeping wildrye  Erodium reasel*  Elymus ricudes*  Cut-leaf geranium*  Western manna grass*  Bristly ox-tongue*  Toyon  Heddow barley  Heddow barley  Hordeum marninum ssp. gussoneanum  Mediterranean barley*  Hare barley*  Juglans hindsii  Northern California black walnut  Prickly lettuce*  Lupinus nanus  Sky lupine	Cichorium intybus	Chicory*
Cyperus eragrostis  Daucus carota  Queen Anne's lace*  Dipsacus fullonum  Teasel*  Elymus triticoides  Creeping wildrye  Erodium spp.  Eschscholzia californica  California poppy  Festuca arundinacea  Tall fescue*  Festuca perennis  Ryegrass*  Foeniculum vulgare  Gallium aparine  Bedstraw  Geranium dissectum  Cut-leaf geranium*  Glyceria x iccudebtakus  Helminthotheca echioides  Heteromeles arbutifolia  Toyon  Hordeum brachyantherum  Hordeum marninum ssp. gussoneanum  Hordeum murinum ssp. leporinum  Hare barley*  Juglans hindsii  Lactuca serriola  Lupinus bicolor  Lupinus nanus  Teasel*  Tall flat sedge  Queen Anne's lace*  Dearel*  Teasel*  Ta	Convolvulus arvensis	Bindweed*
Daucus carota       Queen Anne's lace*         Dipsacus fullonum       Teasel*         Elymus triticoides       Creeping wildrye         Erodium spp.       Filarees*         Eschscholzia californica       California poppy         Festuca arundinacea       Tall fescue*         Festuca perennis       Ryegrass*         Foeniculum vulgare       Fennel*         Gallium aparine       Bedstraw         Geranium dissectum       Cut-leaf geranium*         Glyceria x iccudebtakus       Western manna grass*         Helminthotheca echioides       Bristly ox-tongue*         Heteromeles arbutifolia       Toyon         Hordeum brachyantherum       Meadow barley         Hordeum marninum ssp. gussoneanum       Mediterranean barley*         Hordeum murinum ssp. leporinum       Hare barley*         Juglans hindsii       Northern California black walnut         Lactuca serriola       Prickly lettuce*         Lupinus bicolor       Dwarf lupine         Lupinus nanus       Sky lupine	Cottoneaster sp.	Cotoneaster*
Dipsacus fullonum  Elymus triticoides  Erodium spp.  Eschscholzia californica  Festuca arundinacea  Festuca perennis  Foeniculum vulgare  Gallium aparine  Geranium dissectum  Glyceria x iccudebtakus  Helminthotheca echioides  Heteromeles arbutifolia  Hordeum marninum ssp. gussoneanum  Hordeum murinum ssp. leporinum  Juglans hindsii  Lactuca serriola  Lupinus nanus  Filarees*  California poppy  Filarees*  Elymus ricaees*  California poppy  Festuca perennis  Ryegrass*  Fennel*  Bedstraw  Cut-leaf geranium*  Western manna grass*  Heteromeles arbutifolia  Toyon  Meadow barley  Herdeum brachyantherum  Meadow barley  Hare barley*  Juglans hindsii  Northern California black walnut  Lactuca serriola  Lupinus bicolor  Dwarf lupine  Sky lupine	Cyperus eragrostis	Tall flat sedge
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Erodium spp.  Eschscholzia californica  Eschscholzia californica  California poppy  Festuca arundinacea  Tall fescue*  Ryegrass*  Foeniculum vulgare  Gallium aparine  Bedstraw  Geranium dissectum  Cut-leaf geranium*  Glyceria x iccudebtakus  Helminthotheca echioides  Heteromeles arbutifolia  Hordeum brachyantherum  Hordeum marninum ssp. gussoneanum  Hordeum murinum ssp. leporinum  Hare barley*  Hordeum murinum sp. leporinum  Luginus bicolor  Lupinus nanus  Filarees*  California poppy  Tall fescue*  Ryegrass*  Ryegrass*  Ryegrass*  Ryegrass*  Ryegrass*  Fennel*  Bedstraw  Cut-leaf geranium*  Tout-leaf geranium*  Mestern manna grass*  Bristly ox-tongue*  Toyon  Headow barley  Here barley*  Hordeum murinum ssp. aussoneanum  Hare barley*  Dwarf lupine  Lupinus nanus  Sky lupine	Dipsacus fullonum	Teasel*
Eschscholzia californica California poppy  Festuca arundinacea Tall fescue*  Festuca perennis Ryegrass*  Foeniculum vulgare Fennel*  Gallium aparine Bedstraw Geranium dissectum Cut-leaf geranium*  Glyceria x iccudebtakus Western manna grass*  Helminthotheca echioides Bristly ox-tongue*  Heteromeles arbutifolia Toyon Hordeum brachyantherum Meadow barley  Hordeum marninum ssp. gussoneanum Hare barley*  Hordeum murinum ssp. leporinum  Juglans hindsii Northern California black walnut Lactuca serriola Lupinus bicolor Dwarf lupine Lupinus nanus Sky lupine	Elymus triticoides	Creeping wildrye
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Festuca perennis  Foeniculum vulgare  Fennel*  Gallium aparine  Bedstraw  Cut-leaf geranium*  Glyceria x iccudebtakus  Helminthotheca echioides  Heteromeles arbutifolia  Hordeum brachyantherum  Hordeum marninum ssp. gussoneanum  Hordeum murinum ssp. leporinum  Hare barley*  Juglans hindsii  Lactuca serriola  Lupinus bicolor  Lupinus nanus  Ryegrass*  Fennel*  Bedstraw  Cut-leaf geranium*  Western manna grass*  Heteromeles arbutifolia  Toyon  Meadow barley  Meadow barley  Hare barley*  Indicator aparticula black walnut  Prickly lettuce*  Lupinus nanus  Sky lupine	Eschscholzia californica	California poppy
Foeniculum vulgare  Gallium aparine  Bedstraw  Cut-leaf geranium*  Glyceria x iccudebtakus  Western manna grass*  Helminthotheca echioides  Bristly ox-tongue*  Heteromeles arbutifolia  Toyon  Hordeum brachyantherum  Meadow barley  Hordeum marninum ssp. gussoneanum  Hordeum murinum ssp. leporinum  Hare barley*  Juglans hindsii  Northern California black walnut  Lactuca serriola  Lupinus bicolor  Dwarf lupine  Sky lupine	Festuca arundinacea	Tall fescue*
Gallium aparine  Geranium dissectum  Cut-leaf geranium*  Glyceria x iccudebtakus  Western manna grass*  Helminthotheca echioides  Heteromeles arbutifolia  Toyon  Hordeum brachyantherum  Meadow barley  Hordeum marninum ssp. gussoneanum  Mediterranean barley*  Hordeum murinum ssp. leporinum  Hare barley*  Juglans hindsii  Northern California black walnut  Lactuca serriola  Lupinus bicolor  Lupinus nanus  Sky lupine	Festuca perennis	Ryegrass*
Geranium dissectum  Glyceria x iccudebtakus  Helminthotheca echioides  Heteromeles arbutifolia  Hordeum brachyantherum  Hordeum marninum ssp. gussoneanum  Hordeum murinum ssp. leporinum  Juglans hindsii  Lactuca serriola  Lupinus bicolor  Lupinus nanus  Western manna grass*  Western manna grass*  Mediterranean barley*  Headow barley  Meadow barley  Mediterranean barley*  Northern California black walnut  Prickly lettuce*  Dwarf lupine  Sky lupine	Foeniculum vulgare	Fennel*
Glyceria x iccudebtakusWestern manna grass*Helminthotheca echioidesBristly ox-tongue*Heteromeles arbutifoliaToyonHordeum brachyantherumMeadow barleyHordeum marninum ssp. gussoneanumMediterranean barley*Hordeum murinum ssp. leporinumHare barley*Juglans hindsiiNorthern California black walnutLactuca serriolaPrickly lettuce*Lupinus bicolorDwarf lupineLupinus nanusSky lupine	Gallium aparine	Bedstraw
Helminthotheca echioides  Heteromeles arbutifolia  Hordeum brachyantherum  Hordeum marninum ssp. gussoneanum  Hordeum murinum ssp. leporinum  Hare barley*  Juglans hindsii  Northern California black walnut  Lactuca serriola  Lupinus bicolor  Lupinus nanus  Bristly ox-tongue*  Meadow barley  Mediterranean barley*  Morthern California black walnut  Prickly lettuce*  Sky lupine	Geranium dissectum	Cut-leaf geranium*
Heteromeles arbutifolia Toyon  Hordeum brachyantherum Meadow barley  Hordeum marninum ssp. gussoneanum Hordeum murinum ssp. leporinum Hare barley*  Juglans hindsii Northern California black walnut  Lactuca serriola Prickly lettuce*  Lupinus bicolor Dwarf lupine  Lupinus nanus Sky lupine	Glyceria x iccudebtakus	Western manna grass*
Hordeum brachyantherum  Hordeum marninum ssp. gussoneanum  Hordeum murinum ssp. leporinum  Hare barley*  Juglans hindsii  Northern California black walnut  Lactuca serriola  Lupinus bicolor  Lupinus nanus  Meadow barley  Mediterranean barley*  Hare barley*  Northern California black walnut  Prickly lettuce*  Sky lupine	Helminthotheca echioides	Bristly ox-tongue*
Hordeum marninum ssp. gussoneanum  Hordeum murinum ssp. leporinum  Hare barley*  Juglans hindsii  Northern California black walnut  Lactuca serriola  Prickly lettuce*  Lupinus bicolor  Dwarf lupine  Lupinus nanus  Sky lupine	Heteromeles arbutifolia	Toyon
Hordeum murinum ssp. leporinum  Juglans hindsii  Northern California black walnut  Lactuca serriola  Lupinus bicolor  Lupinus nanus  Sky lupine	Hordeum brachyantherum	Meadow barley
Juglans hindsii       Northern California black walnut         Lactuca serriola       Prickly lettuce*         Lupinus bicolor       Dwarf lupine         Lupinus nanus       Sky lupine	Hordeum marninum ssp. gussoneanum	Mediterranean barley*
Lactuca serriola Prickly lettuce*  Lupinus bicolor Dwarf lupine  Lupinus nanus Sky lupine	Hordeum murinum ssp. leporinum	Hare barley*
Lupinus bicolor  Lupinus nanus  Sky lupine	Juglans hindsii	Northern California black walnut
Lupinus nanus Sky lupine	Lactuca serriola	Prickly lettuce*
	Lupinus bicolor	Dwarf lupine
Magnolia * Magnolia*	Lupinus nanus	Sky lupine
	Magnolia sp.	Magnolia*

Scientific Name	Common Name
Malva parviflora	Mallow*
Marrubium vulgare	White horehound*
Medicago polymorpha	Bur clover*
Phalaris aquatica	Harding grass*
Phyla nodiflora	Common lippia
Plantago lanceolata	English plantain*
Polygonum aviculare	Knotweed*
Populus alba	White poplar*
Prunus spp.	Fruit trees*
Quercus agrifolia	Coast live oak
Quercus lobata	Valley oak
Raphanus sativus	Wild radish*
Rubus armeniacus	Himalayan blackberry*
Rumex crispus	Curly dock*
Rumex pulcher	Fiddle dock*
Salix lasiolepis	Arroyo willow
Senecio vulgaris	Common groundsel*
Sonchus asper	Sowthistle*
Taraxacum officinale	Dandelion*
Toxicodendron diversilobum	Poison oak
Tragopogon porrifolius	Salsify*
Unknown palm	Palm*
Vicia sativa	Spring vetch*
Vicia villosa	Hairy vetch*

Species with an \* are non-native.