

24233 THE OLD ROAD,
LOS ANGELES COUNTY, CALIFORNIA

Biological Constraints Analysis

Prepared for
Redding Properties

March 28, 2012



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Prepared for
Redding Properties
11041 Sepulveda Blvd.
Mission Hills, CA
91345

March 28, 2012

Prepared by
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BIOLOGICAL CONSTRAINTS ANALYSIS

24233 The Old Road

I Introduction

This report has been prepared in accordance with the County of Los Angeles Department of Regional Planning Biological Constraints Analysis Report Guidelines (March, 2004). This report has been prepared by Greg Ainsworth, Director of Biological Resources at Environmental Science Associates (ESA) and Associate Biologist Jon West . Mr. Ainsworth is a Certified Arborist and has over 10 years experience conducting biological assessments in the Los Angeles area and has a strong background in the flora and fauna of the region. Mr. West holds a baccalaureate in Environmental Science from Ithaca College 2007 and has over 5 years experience conducting biological surveys and analyses in region and throughout Southern California. Resumes provided in **Appendix A**.

Project Location

As shown in **Figures 1-3 (Appendix B)**, the project site is located at 24233 The Old Road in northwestern Los Angeles County. The project site is a rectangular parcel of land encompassing 2.86 acres along the east side of The Old Road. The Golden State Freeway (Interstate 5) runs approximately 500 feet to the northeast of the project site.

Project Description

Development plans for the proposed project include the construction of a 8,125 square ft. (125 ft. by 65 ft.) barn-style garage structure to house a private historic car collection . As shown in **Figure 4 (Appendix B)**, the garage and other project features are situated entirely within previously disturbed portions of the property. In addition to the garage, the proposed project includes plans for rows of fruit/vegetable crops, a small livestock building in the southern edge of the property, and a water tower on a flat, graded, previously disturbed area of the hillside where a structure once occurred. The proposed water tower is intended for aesthetic purposes only and will not serve any operative function. This water tower will not require a foundation and no major ground disturbing activities are intended with its construction.

Prior to assessing the site in the field, ESA reviewed existing information for the site and surrounding vicinity, including the California Natural Diversity Database (CNDDDB) (CDFG, 2011) and the California Native Plant Society Electronic Inventory (CNPS, 2011). The CNDDDB lists historical and recently recorded occurrences of both special-status plant and wildlife species and the CNPS database lists historical and recent occurrences of rare and special-status plant

species. ESA queried these sources for special-status species records in the Oat Mountain U.S. Geological Survey 7.5-minute quadrangle and the eight surrounding quadrangles (Warm Springs Mountain, Green Valley, Mint Canyon, San Fernando, Newhall, Santa Susana, Val Verde, and Whitaker Peak). A list of special-status species that have been recorded in the region was established from this query.

A focused assessment of biological resources and Los Angeles County protected oak trees was conducted by Greg Ainsworth and Jon West on 7 September, 2011. The site assessment was conducted on foot from approximately 0800 to 1200 hours under fair weather conditions. The purpose of the field assessment was to gather information on existing conditions including characterization of all onsite and adjacent land uses including plant communities, wildlife habitats and habitat use, wildlife corridors, and any riparian areas, and to assess the habitat suitability for supporting any special-status species. Dominant plant species within each plant community and area were documented and plant communities were characterized and mapped. Casual observations of bird and other vertebrate wildlife species were recorded during the site assessment. The presence of birds was ascertained by song or by direct sighting aided by binoculars, when necessary. The wildlife habitat of the site and surrounding areas were described using the California Department of Fish and Game's (CDFG) *A Guide to Wildlife Habitats* (Mayer and Laudenslayer, 1988).

Oak trees located within the survey area with a trunk diameter of eight inches or greater (or oak trees having two trunks that combine equal 12 inches or greater) when measured at 4.5 feet above the mean natural grade were assessed. Tree locations and survey data were collected from the base of each tree with a Trimble GeoXH Global Positioning System (GPS), and each tree was tagged for identification purposes with 1-inch, round, non-corrosive, all-weather metal tags. The information from the GPS was downloaded directly into the mapping software (ArcGIS 9.2) and overlaid on an ortho-rectified aerial photograph to depict tree locations. All protected trees located on the subject property are depicted on Figure 4. Basic tree characteristics and physical conditions were assessed for each protected oak tree on the site, and overall health was evaluated based on vigor, presence of damage (i.e. pathogens, insect pests, and other forms of natural and human-caused damage), and comparison of the typical archetype of the same species.

II Characteristics of the Site

The project site is situated just east, and within the foothills of the northern flank of the Santa Susana Mountains, southwest of the City of Santa Clarita. As shown in Figures 1-4, the majority of the subject property lies within the Los Angeles County-designated Santa Susana Mountains/Simi Hills Significant Ecological Area (SEA #20). The eastern portion of the site where the project is proposed is flat, compacted, and entirely disturbed. Previous disturbances include mobile homes, storage containers, and various foreign debris. The flat area where the project would occur was formally used as an animal shelter.

Proximity to Los Angeles County-Designated Significant Ecological Areas

The Santa Susana Mountains/Simi Hills SEA is located northwest of the San Fernando Valley within unincorporated areas of Los Angeles County and an incorporated area of the City of Los Angeles west of Chatsworth. The area is south of State Route 126 (SR-126) and the Santa Clara River, west of the Golden State Freeway (Interstate 5), and includes much of the Santa Susana Mountains to the north, the Santa Susana Pass, Chatsworth Reservoir, and the eastern portion of the Simi Hills in the south. The Santa Susana Mountains are one of several relatively small ridges that form the western end of the transverse ranges and blend eastward into the larger San Gabriel and San Bernardino Mountains. The Santa Susana Mountains are the main representative of the small, dry interior mountain ranges of Los Angeles County. The core of this range is in relatively good condition and has not been heavily disturbed by human use, even as urban growth continues in the San Fernando and Simi Valleys and the Saugus-Newhall area.

Watershed Boundaries and Drainage Pattern

The project site falls within the Santa Clara River Watershed. No major drainages or riparian features are contained within the site. The site has a gradual downward slope to the east and surface water during rain events sheet flows from west to east towards the Old Road.

Soils

The project site is geologically located within the Transverse Range geomorphic province of southern California, in the eastern portion of the Ventura depositional basin. Soils at the project site are mapped as Millsholm rocky loam and Yolo loam. The Millsholm series consists of shallow, well-drained soils that formed in material weathered from sandstone, mudstone and shale (NRCS, 2011). Millsholm soils occur on hills and mountains with slopes of 5 to 75 percent. Millsholm rocky loam soils occur in the western portion of the site which is characterized by north-facing slopes at 30 to 50 percent grades. In Southern California, this soil series typically supports native annual grasses, oaks (*Quercus* sp.), manzanita (*Arctostaphylos* sp.), ceanothus (*Ceanothus* sp.), and chamise (*Adenostoma fasciculatum*). The Yolo series is a member of the fine-silty, mixed, nonacid, thermic family of Mollic Xerofluvents. Yolo soils have thick grayish brown, neutral silt loam A horizons and brown and pale brown mildly alkaline silt loam C horizons (NRCS, 2011). Yolo loam occurs in the eastern portion of the site which is relatively flat and disturbed. This soil series in Southern California is usually associated with intensive row, field, and orchard crops, although it naturally supports annual grasses, forbs, and some scattered oak.

No unusual or significant landforms or geologic features are apparent on the site.

Plant Communities and Habitat Types

All areas proposed for development on the site are flat, compacted, and previously disturbed. The eastern two-thirds of the property is in this disturbed condition, while the western one-third of the project site consists of steep (approx. 30 percent) easterly-facing slopes. The toe of the slope to approximately 80 feet up the slope was graded for a former driveway and residence and currently

consists of non-native grasses and non-native trees (Tree-of-Heaven and Peruvian pepper). The remainder of this hillside to the property boundary to the west is characterized as coast live oak/southern California black walnut woodland with an understory of non-native grasses. When compared to natural undisturbed areas to the southwest, west and northwest which are densely vegetated with native scrub oak chaparral and coast live oak and Southern California black walnut woodland, the entire hillside within the property limits may have been formerly grazed. This is speculated based on the dominance of non-native grasses and lack of chaparral and dense tree canopy as compared to adjacent undisturbed land. A total of three (3) mature coast live oaks (*Quercus agrifolia*), several small, immature coast live oak trees, and numerous southern California black walnut trees (*Juglans californica*) occur on the hillside within the property limits. The understory of the hillside, included the previously disturbed portion near the toe of the slope is dominated by non-native grasses and weeds including red-stem filaree (*Erodium cicutarium*), wild oats (*Avena fatua*), black mustard (*Brassica nigra*), red brome (*Bromus madritensis* spp. *rubens*), yellow star thistle (*Centaurea solstitialis*), vinegarweed (*Trichostema lanceolatum*), foxtail fescue (*Vulpia myuros*), and storksbill filaree (*Erodium cicutarium*).

Existing disturbances in the eastern two-thirds of the property include previously graded areas, mobile homes, and storage containers; however, following the assessment of the site on 7 September 2012, it has been reported by the project applicant that the mobile home, storage containers, and other structures and debris have been removed from the property. According to the applicant, the site was previously used as a private residence and animal shelter. Vegetation along the flat, disturbed portion of the property mostly consists of non-native, ornamental shrubs (e.g., *Oleander* sp.), ornamental cacti, and native and non-native trees, including Peruvian pepper (*Schinus molle*), and Fremont cottonwood (*Populus fremontii*).

Flora and Fauna of the Project Site

Common wildlife observed at the site include common raven (*corvus corax*), house finch (*Carpodacus mexicanus*), northern mockingbird (*Mimus polyglottos*), and brush rabbit (*Sylvilagus bachmani cinerascens*). A woodrat (*Neotoma* sp.) nest was observed at the base of an oak tree located in the coast live oak/southern California black walnut woodland in the western portion of the site. Wildlife not directly observed but expected to occur (primarily on the undevelopable slopes on the property and vicinity) include common reptile (snakes and lizards), mammal (mice, rats and ground squirrels), and passerine bird species as well as birds of prey, such as red-tailed hawk (*Buteo jamaicensis*). No raptor nests were observed on the project site, including any of the mature coast live oak trees or any other large trees on the property.

A review of the most recent CNDDDB for the project site found 37 special-status wildlife species recorded in the region (Results provided in **Appendix D**). The potential for special-status species to occur at the project site is based on the proximity to previously recorded occurrences in the CNDDDB and CNPS databases, on-site vegetation and habitat quality, topography, elevation, soils, surrounding land uses, habitat preferences, geographic ranges, and visual observations made during the field assessment. Based on these factors, 9 special-status wildlife species were determined to have the potential to occur in the vicinity of the project site. Because the project

site lacks a natural perennial water source, there is no habitat for fishes or amphibian species to occur; therefore, such species are omitted from consideration.

No special-status species are expected to occur with the previously disturbed portions of the property. However, the coast live oak/Southern California black walnut woodland provides marginal habitat for the following special-status species recorded in the area: grasshopper sparrow (*Ammodramus savannarum*), coast horned lizard (*Phrynosoma blainvillii*), coastal whiptail (*Aspidoscelis tigris stejnegeri*), Cooper's hawk (*Accipiter cooperii*), white-tailed kite (*Elanus leucurus*), loggerhead shrike (*Lanius ludovicianus*), rosy boa (*Charina trivirgata*), San Diego desert woodrat (*Neotoma lepida intermedia*), and southern California rufous-crowned sparrow (*Aimophila ruficeps canescens*). Focused surveys for these species were not conducted for the project site, and none are recommended due to lack of suitable habitat within the portion of the site where the project is proposed. With the exception of the aforementioned special-status avian species, the hillside provides only marginal habitat quality for many of due to the lack of shrub species, and dominance of non-native annual grasses.

A review of the most recent CNPS Electronic Inventory found 32 special-status plant species recorded in the region. The potential for special-status plant species to occur at the project site is based on the proximity to previously recorded occurrences in the CNDDDB and CNPS databases, on-site vegetation and habitat quality, topography, elevation, soils, surrounding land uses, habitat preferences, geographic ranges, and visual observations made during the field assessment. Based on these factors, 10 special-status plant species were determined to have the potential to occur in adjacent undisturbed habitats to the project site, including Newhall sunflower (*Helianthus inexpectatus*), Braunton's milk-vetch (*Astragalus brauntonii*), round-leaved filaree (*California macrophylla*), Parry's spineflower (*Chorizanthe parryi* var. *parryi*), Ojai navarretia (*Navarretia ojaiensis*), Peirson's morning-glory (*Calystegia peirsonii*), Plummer's mariposa-lily (*Calochortus plummerii*), San Fernando Valley spineflower (*Chorizanthe parryi* var. *fernandina*), Santa Susana tarplant (*Deinandra minthornii*), and slender mariposa-lily (*Calochortus clavatus* var. *gracilis*). No special-status plant species have the potential to occur within the previously disturbed portions of the project site. The aforementioned special-status species have a very low potential to occur on the western hillside due to the coverage of non-native grasses that dominate the herbaceous cover.

The oak tree inventory conducted by ESA found five (5) Los Angeles County protected coast live oak trees within the limits of the property. The results of the oak inventory can be found in **Table 1**, below. The oak tree assessment included an evaluation of the health and vigor of each tree and identification of an apparent decline or symptoms of pathogens or insect infestation. A subjective alphabetical ranking ("A" being best and "F" being worst) was assigned for vigor, overall health, aesthetic value, and balance for each tree based on the criteria described below.

"A" = Excellent: A healthy and vigorous tree characteristic of its species and reasonably free of any visible signs of stress, disease, or pest infestation.

“B” = Good: A healthy and vigorous tree with minor visible signs of stress, disease, and/or pest infestation. Some maintenance measures may need to be implemented, such as pruning of dead wood or broken branches.

“C” = Fair: Although healthy in overall appearance, there is abnormal amount of stress or disease/insect infestation, and a substantial amount of maintenance may be needed.

“D” = Poor: A tree that may be exhibiting a substantial amount of stress, disease, or insect damage than what the amount that is expected for the species. The tree may be in a state of rapid decline, and may show various signs of dieback, necrosis, or other symptoms caused by pathogens or insect pests.

“E” = Nearly Dead: An unhealthy tree in which mortality is inevitable. Examples of such trees include those that may show signs of disease and/or pest infestation, have a substantial amount of defoliation, and appear to be a safety hazard.

“F” = Dead: This tree has no foliage and exhibits no sign of life or vigor.

Table 1: Oak Tree Assessment Data

Tree	Trunk Diameter of Tree (inches)	Height of Tree (feet)	Health Assessment Grade	Comments
1	21", 16", 21"	60'	A	Broken limb on south-facing side
2	31", 15"	35'	A	
3	22"	25'	A	Approx. 40% of roots exposed on east-facing slope.
4	23"	30'	A	
5	35"	30'	A	

III Characteristics of the Surrounding Area

Adjacent Land Uses

Adjacent land uses to the north include a mostly disturbed (previously graded) private property containing two structures and an adobe-type bunk house, with scattered coast live oak and blue gum (*Eucalyptus globulus*) trees, beyond which is Townsend Canyon Road; to the east is The Old Road, beyond which is private property with scattered storage containers, abandoned vehicles, and other various items; to the south is a post office distribution center and undisturbed coast live oak/southern California black walnut woodland to the southwest; and to the west is undisturbed

northern mixed chaparral/scrub oak woodland, which further extends into the Santa Susana Mountains. The Interstate 5 is approximately 550 feet northeast of the project site.

Open Space Reserves in the Area

Ed Davis Park, a Santa Monica Mountains Conservancy Zone Parkland managed by the Mountains Recreation and Conservation Authority, is located approximately .15 mile to the northeast of the project site. The park is part of the Towsley Canyon Santa Clarita Woodlands. The public park features trails for hiking, mountain biking, and equestrian use. Notable park features include Towsley Creek and water-worn rock formations in Towsley gorge, as well as scenic trail viewpoints and undisturbed oak woodlands. The park is a part of 4,000 acres of public parkland (the Santa Clarita Woodlands) on the north-facing flank of the Santa Susana Mountains. A portion of the Towsley View Loop Trail, which begins at the entrance to the park on Towsley Canyon Road, runs approximately 300 feet east of the property boundary.

Construction and operation of the proposed project will be confined to the already disturbed areas on the site and would not impact any open space areas in the vicinity.

Habitats, Associations, and Vegetation Communities in the Project Vicinity

The project site is located on the north-facing terminus of the Santa Susana Mountains. Portions of many of the canyons associated with the Santa Susana Mountains include Salt Canyon, Potrero Canyon, Pico Canyon, Towsley Canyon, El Toro Canyon, Sulphur Canyon, Devil Canyon, Ybarra Canyon, Browns Canyon, Bee Canyon, and Mormon Canyon. Several blue-line streams occur within these canyons and support many natural springs. The north slopes of the Santa Susana Mountains are within the Santa Clara River watershed, which drains the Los Padres National Forest to the north, the Angeles National Forest to the northeast and east, and the Santa Susana Mountains to the south and southeast. The north-facing slopes of the mountains support northern mixed chaparral communities, as well as natural oak woodlands and forests. Oak species in the area generally include coast live oak, valley oak (*Quercus lobata*), and scrub oak (*Quercus berberidifolia*). The understory community in this area generally consists of annual grassland of non-native and native grasses and forbes, such as bush monkeyflower (*Diplacus aridus*), mariposa-lily (*Calochortus sp.*), canyon sunflower (*Venegasia carpesioides*), California poppy (*Eschscholzia californica*), purple needlegrass, brome grasses, and wild oats.

Sensitive natural communities occurring in the general area include coast live oak and Southern California black walnut woodland, scrub oak chaparral, coastal sage scrub, alluvial scrub, valley oak woodland, mainland cherry woodland, native grassland, southern willow scrub, and cottonwood-willow riparian forest. These communities or closely related designations are considered highest-inventory priority communities by the CDFG, indicating that they are experiencing a decline throughout their range.

No sensitive communities or any natural community would be disturbed as a result of construction or operation of the project site.

Wildlife in the Project Vicinity

The north-facing slopes of the Santa Susana Mountains support a variety of wildlife common to the Transverse Ranges of southern California. In addition to numerous common passerine bird species, common raptor species in the region include red-tailed hawk, Cooper's hawk, American kestrel (*Falco sparverius*), and red-shouldered hawk (*Buteo lineatus*). Common reptile and amphibian species include southern Pacific rattlesnake (*Crotalus oreganus*), California kingsnake (*Lampropeltis getula californiae*), gophersnake (*Pituophis catenifer*), California treefrog (*Hyla cadaverina*), California slender salamander (*Batrachoseps attenuatus*), western fence lizard (*Sceloporus occidentalis*), and side-blotched lizard (*Uta stansburiana*). In addition to common small mammal species, larger mammals that are known to occur in the Santa Susana mountains include bobcat (*Lynx rufus*), ringtail (*Bassariscus astutus*), American badger (*Taxidea taxus*), mountain lion (*Puma concolor browni*), and black bear (*Ursus americanus*).

While a few wildlife species are entirely dependent on a single vegetative community, the entire mosaic of all the vegetation communities within the area and adjoining areas constitutes a functional ecosystem for a variety of wildlife species. The Santa Susana Mountains feature several important linkages for wildlife movement. The Simi Hills and Santa Susana Mountains provide a vast open space corridor to foster wildlife movement between the Santa Monica Mountains to the south, San Gabriel Mountains to the east, and Los Padres National Forest to the north. Dense, natural habitat associated with the majority of the open spaces in these mountain ranges provide excellent opportunities for concealment and water sources while the grasslands provide an abundance of prey.

Construction and operation of the proposed project would not impact common or special-status wildlife known to occur in the area. No nighttime lighting is proposed and no development would occur outside of the previously disturbed portion of the project site.

Relationship of the Project Site to the Surrounding Biological Mosaic

The Santa Susana Mountains represent a biologically rich and valuable resource for native habitats and wildlife in the region. The project site, however, represents a small patch of coast live oak/southern California black walnut woodland along the bottom of the northern flank of the mountains. The western one-third of the project site which constitutes the closest assemblage of natural woodland is not planned for development, and disturbances on the site will more or less remain the same as the current conditions. All developments planned for the site, including the proposed garage structure and water tower, would occur in previously disturbed areas on flat, compacted ground. The coast live oak/southern California black walnut woodland in this area is contiguous with native areas to the west and provides a natural buffer between native habitats of the SEA and project site.

Construction and operation of the proposed project will be confined to the already disturbed areas on the site and would not impact the biological mosaic of natural areas to the west.

Overall Biological Value of the Area

The Santa Susana Mountains contain natural communities, vegetation associations, and habitats of plant and animal species that are considered to be regionally significant for a variety of reasons. Among the reasons are that these natural communities, vegetation associations, and plant and animal species which occur in this region are either unique or restricted in distribution; that selected habitats may prove critical in providing concentrated breeding, feeding, resting, or migrating grounds for wildlife that are limited in availability; and the area provides for the preservation of relatively undisturbed examples of the original natural communities in Los Angeles County. The project site is contained within the eastern limits of the Santa Susana Mountains/Simi Hills SEA because it is located at the beginning of the foothills of the northern flank of the Santa Susana Mountains. While the Santa Susana Mountains represent a rich and valuable resource to the region, the Santa Clarita and San Fernando Valley's to the north and south of the project site, respectively, are highly urbanized areas which hold little biological value to the region. The project site is a generally disturbed property at the bottom of the foothills of the Santa Susana Mountains, and lacks nearly all of the biological features that characterize the value of the SEA as a whole. What's more, the proximity of the Golden State Freeway (Interstate 5) to the project site, as well as the fact that the site has been completely fenced off for over a decade, prevents the site from being used as a movement corridor for wildlife and with the exception of nesting habitat for native birds, has little overall biological value to the surrounding area.

IV Conclusion

All disturbances and grading activities would occur in previously disturbed portions of the site and would avoid impacting all Los Angeles County protected oak trees identified on the site. The proposed garage structure would be constructed in a flat, graded area that was previously disturbed and contains no natural biological features. The proposed water tower is sited on a previously disturbed graded pad where a structure once stood which occurs approximately 80 feet from the toe of the slope. This previously graded area on the hillside is dominated by non-native grasses (i.e., weeds) and no rare or sensitive plant species are expected to occur. Moreover, no special-status terrestrial species would be expected to occur with this graded area on the hillside.

Given the present level of disturbance, along with the proximity to Interstate 5, the project site provides little ecological value to the surrounding biological mosaic. The coast live oak/southern California black walnut woodland in the western one-third of the property on the hillside is the only feature on the site which could provide a semblance of biological value. However, this area would be completely avoided and preserved in perpetuity. development The woodland area on the hillside functions as a natural buffer between contiguous natural woodland communities in the Santa Susana foothills to the west and proposed project..

Coast live oak trees are considered a valuable resource under the SEA and are protected under the Los Angeles County Oak Tree Ordinance. No protected oak trees would be impacted by project implementation.

Resulting from this analysis, it is ESA's determination that the proposed project would conflict with the values and functions of the Santa Susana Mountains/Simi Hills SEA as designated by the County of Los Angeles.

V References

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APPENDIX A

Resumes



GREGORY C. AINSWORTH

Director, Senior Managing Biologist

Gregory Ainsworth directs the Southern California Biological Resources Group. Greg has provided biological resource consulting on numerous community development projects, solar and wind development, infrastructure, and water agency projects. He is a certified arborist, an experienced wetland delineator, and an approved biologist on several city and county approved lists. Greg's technical strengths include biological resource constraints studies and fatal flaw assessments, rare plant surveys and vegetation mapping, special-status wildlife surveys, avian risk assessments, native plant restoration, wetland delineations, and permitting. He has managed dozens of CEQA and NEPA projects, and projects involving compliance with the Endangered Species Act and has extensive knowledge of habitats found between the California deserts and the coastal shoreline.

Education

M.C.R.P., Environmental Planning, California Polytechnic State University, San Luis Obispo

B.S., Environmental Horticulture Science, California Polytechnic State University, San Luis Obispo

11 Years Experience

Certifications

International Certified Arborist (Cert# WE 7473A)

California Department of Fish and Game Scientific Collection Permit

Southwestern Willow Flycatcher Section 10(a)(1)(A) Recovery Permit (Pending)

Wetland Delineation & Management (ACOE, #2128), 2003

Specialized Training

Snowy plover nesting and roosting surveys, Los Angeles Audubon, 2004-present

Desert Tortoise Workshop, The Desert Tortoise Council, 2006

Mohave ground squirrel Workshop, The Wildlife Society, 2005

California Native Plant Society Plant Survey Techniques, 2004 and 2006

Relevant Experience in Ventura County

California Public Utilities Commission, SCE Presidential Substation EIR, Ventura County, CA. Senior Biologist. Greg is co-managing the preparation of an EIR for the SCE Presidential Substation Project located in Ventura County. The proposed project would involve construction of a substation and associated subtransmission source lines that run through a rural residential area. ESA has implemented a rigorous public and agency outreach program to engage the stakeholders in the CEQA process. Key biological resource issues to be addressed in the EIR include state- and federally-endangered fairy shrimp species, the federally threatened coastal California gnatcatcher, and the federally-listed plant: Lyon's pentachaeta.

Department of Water Resources, Piru Creek Special Use Permit Renewal, Los Angeles and Ventura Counties, CA. Project Manager/Senior Biologist. Greg is providing environmental compliance and permitting for the Department of Water Resources (DWR) for the renewal of a Special Use Permit to operate and maintain access to an existing stream gauging station to measure flows into Pyramid Lake. The permit would also include necessary improvements at a high and low flow gauging station. Greg conducted a habitat assessment for potentially occurring special-status species, a focused plant survey, protocol surveys for the federally endangered arroyo toad, wetland delineation, and wildlife migration corridor analysis. Greg managed the preparation of a BE/BA for Endangered Species Act (ESA) compliance and prepared an EA in accordance with NEPA. Greg will be engaging in formal consultation with the USFWS for their preparation of a Biological Opinion under Section 7b of the ESA.

California Department of Water Resources (DWR), Arroyo Toad Monitoring Plan, Los Padres National Forest, Ventura County, CA. Project Manager/Senior Biologist. Mr. Ainsworth is providing three consecutive years' of biological monitoring and technical analysis for DWR's monitoring program for the federally endangered arroyo toad and other special-status species including California red-legged frog, southwestern pond turtle, and two-striped garter snake in middle Piru Creek in the Los Padres National Forest. Greg

Relevant Experience (Continued)

managed the implementation of the U.S. Fish and Wildlife Service-approved monitoring plan, and is conducting clutch surveys to monitor arroyo toad reproductive success, habitat quality, and hydrological features on middle Piru Creek.

County of Ventura Harbor Department, Channel Islands Harbor, Ventura County, CA. *On-call Arborist and Biologist.* Mr. Ainsworth serves as the Harbor Department's on-call Arborist and has conducted numerous tree health surveys and pre-trimming or removal guidance. Greg also serves as the Department's on-call biologist for conducting focused surveys on herons and egrets for various construction projects within the harbor.

County of Ventura Harbor Department, Channel Islands Harbor, Ventura County, CA. *Construction Monitor.* Greg is conducting weekly monitoring of the construction of the Boating Instruction and Safety Center (BISC). Monitoring includes assessing potential construction-related impacts on great blue herons and black-crowned night herons and other species protected under the Migratory Bird Treaty Act of 1918 and other agency protection.

Greystar Real Estate Partners, Channel Islands Harbor, Ventura County, CA. *Lead Biologist.* Mr. Ainsworth conducted an assessment of all trees within the Paz Mar Select and Paz Mar Reserve condominium complexes for presence of bird nests and active heron roost sites prior to annual tree trimming activities. All trees with sign of heron presence were flagged and specific tree trimming procedures were applied based on recommendations provided by Mr. Ainsworth.

E. Rojas Landscape Inc., Channel Islands Harbor, Ventura County, CA. *Lead Biologist.* Mr. Ainsworth conducted an assessment of all trees within the Paz Mar Select and Paz Mar Reserve condominium complexes for presence of bird nests and active heron roost sites prior to annual tree trimming activities. All trees with sign of heron presence were flagged and specific tree trimming procedures were applied based on recommendations provided by Mr. Ainsworth.

County of Ventura. *Qualified Biologist.* Mr. Ainsworth was a qualified biologist with the County of Ventura from April 2003 through May 2005. He was responsible for conducting biological assessments and special-status species surveys. He prepared numerous biological resource sections of CEQA Initial Studies based on findings. He was a member of the County's committee for establishing criteria for identifying wetlands and vernal pools within the County as well as identifying locally important plant and animal species.

Channel Islands Development Partners, Wildwood Stable Estates, Ventura County, CA. *Project Manager/Senior Biologist.* Mr. Ainsworth prepared a Biological Assessment Report for the Wildwood Stable Estates Project Site. In support of the Report, he mapped all plant communities on the site, conducted focused surveys for southwestern pond turtle, two-striped garter snake, least Bell's vireo, raptors, and special-status plants, and conducted a protected tree survey and prepared a tree report per the Ventura County Protected Tree Ordinance. While conducting focused plant surveys he identified an unknown

Relevant Experience (Continued)

population of Conejo dudleya (*Dudleya parva*), a federally threatened plant species.

Vintage Marina, Channel Islands Harbor, Ventura County, CA. *Project Manager/Senior Biologist.* Managed and conducted construction monitoring for potential impacts to great blue herons and black-crowned night herons at the Channel Islands Harbor, Oxnard, California. Monitor efforts includes an assessment of short- and long-term construction related impacts on breeding and foraging herons. Provided on-call biological resource-related services for various projects within the Harbor.

Marine Emporium Landing, LLC, Channel Islands Harbor, Ventura County, CA. *Lead Biologist.* Conducted biological assessments and prepared technical reports for two separate development projects at the Channel Islands Harbor. Conducted construction monitoring for potential impacts to great blue herons and black-crowned night heron during the construction phases.

Ventura County Regional Sanitation District, Toland Landfill, Ventura County, CA. *Lead Biologist.* Mr. Ainsworth identified ecologically sensitive areas, performed habitat assessments and reconnaissance-level biota surveys, and established a mitigation and monitoring plan for future expansions of the Toland Road Landfill in Santa Paula, California.

City of Oxnard, Parks Division, *Lead Biologist.* Mr. Ainsworth conducted nesting/breeding bird surveys and assessment of active heron roosts prior to tree removal or pruning activities at various location in the City of Oxnard.

Essex Property Trust, Inc., Hidden Valley Development, Ventura County, CA. *Monitoring Biologist.* Mr. Ainsworth managed the implementation of a Revegetation Plan for the creation of wetland and riparian habitats along the Arroyo Simi Creek in Ventura County, California. He monitored weed abatement and restoration activities for the creation of a floodplain terrace and new riparian habitat along the banks of the creek. He helped established weed abatement and planting guidelines for the restoration efforts.

Soule Park Golf Course, Ojai, Ventura County, CA. *Monitoring Biologist.* Greg monitored the installation of a span bridge across a jurisdictional creek. Greg was responsible for ensuring that all BMPs were conducted in accordance with permit conditions and was responsible to for providing recommendations to avoid potential impacts to the creek and its indigenous flora and fauna. Greg led daily construction meetings and was responsible for preparing daily monitoring reports and communication with jurisdictional agencies.

City of Ojai, Libbey Bowl Reconstruction Project, Ventura County, CA. *Arborist.* Greg conducted a focused survey of all trees located at the Libbey Bowl. Greg prepared a detailed tree assessment report for the City of Ojai that included data collected on the health and physical structure of each tree, as well as recommendation for preserving trees and mitigating those trees that would be removed or otherwise impacted.

Relevant Experience (Continued)

Conejo Valley Development Corporation, Corporate Ridge Development Project, Ventura County, CA. *Arborist.* Greg conducted on-call monitoring of oaks to be preserved within the development project. Greg prescribed specific measures for avoiding impacts to oak trees and monitored all construction activities within 15 feet from all protected tree canopies. Greg prepared monitoring logs and communicated directly with the City of Agoura Hills Arborist on prescribed preservation and avoidance measures.

City of Simi Valley. *Lead Biologist.* Prepared biological resource section of the Lost Canyon Specific Plan EIR; mapped all plant communities and biological resources on the 1,200 acre project site, conducted a floristic inventory and rare plant survey and assessment of impacts to wildlife migration corridors.

Rockwell Scientific. *Lead Biologist.* Mr. Ainsworth conducted a protected tree survey and prepared a tree report per the City of Thousand Oaks and County of Ventura protected tree ordinances for proposed residential development.

City of Santa Paula. *Lead Biologist.* Mr. Ainsworth prepared a biological impact assessment, mapping and characterization of plant communities, and a migration corridor study on the proposed East Area 1 Specific Plan project site in Santa Paula, California. Conducting a protected tree survey per the requirements of the City of Santa Paula's Protected Tree Guidelines.

Pinnacle Development Group. *Lead Biologist.* Mr. Ainsworth conducted a jurisdictional resources delineation (i.e., streams and drainages) per the recent Corps Rapanos decision and prepared a draft jurisdictional delineation report for over 300 stream reaches located on the Adams Canyon Preserve Project site located in Santa Paula, California. Mapped all plant communities and conducted a focused floristic inventory and rare plant survey and general wildlife surveys for proposed development areas. Prepared biological technical studies in support of future EIR.

City of Oxnard. *Lead Biologist.* Mr. Ainsworth conducted nesting/breeding bird surveys and monitored a great blue heron heronry and American crow rookery prior to grading of the 1,200 acre Riverpark Development Site in Oxnard, California.

Weston, Benshoof, Rochefort, Rubalcava, MacCuish, LLP. *Lead Biologist.* Mr. Ainsworth conducted a biological resource assessment and focused presence/absence botanical survey for potentially-occurring special status plant species on proposed residential development in Malibu, Unincorporated Ventura County, California.

Hilltop Builders, LLC. *Lead Biologist.* Conducted a biological resource assessment and focused presence/absence botanical survey for potentially-occurring special status plant species on the on the Gateway Commercial Development Project in Newbury Park, California.

Relevant Experience (Continued)

Additional Project Experience

Grossmont High School Tree Survey, San Diego, CA. *Arborist.* Greg conducted a tree survey for a proposed high school alternative location for the Grossmont Union High School District. The locations of oak trees and mature riparian woodland species located on the alternative high school site were assessed and mapped by Greg, our certified arborist. A subsequent tree report was prepared and all attribute data (e.g., tree number, size, health, balance) collected were provided in the report. The report identified the number of trees that were removed, encroached, and preserved by the proposed alternative high school location.

Helix Water District, El Monte Groundwater Recharge, Mining and Reclamation Project EIR, San Diego, CA. *Arborist.* Greg conducted a tree survey and identify trees that should be removed based on poor health conditions and which should be preserved based on overall value and aesthetics. He collected specific information during the assessment such as: type of species, trunk diameter, estimated height and radius of canopy, physical conditional and overall health rating. A subsequent tree report was prepared and all attribute data collected were provided in the report. The report identified the number of trees that were removed, encroached, and preserved.

Western Wind Energy Corporation, Aero Windswept Lower Resource Energy Project Biota Surveys, Tehachapi, CA. *Project Manager.* Greg is the project director and daily manager of all data collection, reporting, and permitting service being provided on this project. Biota surveys have included rare plant surveys, wildlife surveys including burrowing owl, desert tortoise, Mojave ground squirrel, bats, bird use counts, and raptor surveys (in accordance with CEC Guidelines for Reducing Impacts to Birds and Bats from Wind Development). Greg is the primary author of the biological technical report and avian risk assessment being prepared to support the project's EIR.

San Diego Gas and Electric, Manzanita Wind Generation Project, San Diego County, CA. *Project Manger of Biological Resources.* Greg is managing all focused surveys for the proposed gen-tie line, substation locations, switchyard, and other ancillary features. Focused studies under the management of Greg include: avian studies (bird use counts, small bird counts and migration counts), Quino checkerspot butterfly and Hermes copper butterfly, rare plant surveys, wetland delineation, vegetation mapping, and biological constraints analysis. Greg will be managing the preparation of the PEA for the proposed project and participating in Section 7 consultation related to potential impacts to the Golden Eagle.

Sunshine Canyon Landfill Arborist Support and Revegetation Plan, Los Angeles, CA. *Biological Resources Task Leader.* Greg is conducting annual monitoring for several mitigation requirements that include City of Los Angeles oak tree mitigation, PM10 tree buffer mitigation, big cone Douglas fir mitigation, coastal sage scrub restoration, coastal sage scrub and chaparral revegetation required by the Air Quality Control Management District. Greg prepared a

Relevant Experience (Continued)

restoration and revegetation plan introducing native coastal sage scrub and chaparral vegetation between the landfill and adjacent neighborhoods. Greg is monitoring the implementation of the plan for the next five years. Greg is providing on-call services that include: preconstruction bird surveys, protected tree surveys for proposed grading activities, and identification of suitable native revegetation sites throughout the landfill property.

City of Calabasas, On-Call Services, Calabasas, CA. *Arborist.* Greg is the City of Calabasas' on-call arborist. His services include providing oak tree damage assessments for the Code Enforcement Department, review of oak tree reports prepared by city-approved arborists, and preparation of oak tree damage and appraisal reports.

Department of Water Resources, Templin HWY Culvert Repair, Los Angeles County, CA. *Senior Biologist.* ESA is providing environmental compliance and permitting for the Department of Water Resources for their installation of a new culvert below Templin Highway. The proposed culvert is within a blue line stream that falls under the jurisdiction of the USACE, RWQCB and the CDFG. Greg conducted a wetland delineation for Waters of the U.S. and State jurisdictional waters and is preparing permits in accordance to the Clean Water Act (401/404) and California Department of Fish and Game Code (1602), Streambed Alteration Agreement.

Metropolitan Water District City of La Verne Tree Ordinance Compliance and Breeding Bird Surveys, La Verne, CA. *Senior Biologist.* Greg conducted a significant tree survey, prepared a tree report, and submitted a tree permit to the City of La Verne for the Metropolitan Water District Weymouth Treatment Plant Main Line Project. Greg conducted a preconstruction breeding bird and nest survey for the proposed project and identified appropriate buffers to avoid impacts to breeding birds.

Private Wind Developers, Los Angeles County, CA. *Biological Resources Task Leader.* Greg has managed and conducted several confidential biological resource fatal flaw assessments for potential wind development projects in the Mojave desert and rural areas of Los Angeles County. Tasks included reconnaissance-level biological field assessments, identification of adjacent land uses and zoning, and preparation of technical biological constraints reports. Greg has provided consultation to wind developers on the local, state, and federal permitting requirements associated with biological resources and wind development.

Red Mountain Ridge Wind Project, San Diego, CA. *Biological Resources Task Leader.* Greg managed a 30-day fatal flaw analysis for biological, cultural, and paleo resources on a proposed 7.5 square mile wind development project known as the Red Mountain Ridge Wind Project, which includes approximately 8 miles of transmission line. The results of the fatal flaw assessment was used to develop a detailed scope and budget for conducting baseline biology and cultural assessments that will support the preparation of an EIR by Kern County's CEQA

Relevant Experience (Continued)

consultant for a zone change, Wind Energy overlay, CUP for the solar portion, and a variance.

Bureau of Land Management, Ocotillo Wind Farm Express, El Centro, CA.
Biological Resources Task Leader. The Ocotillo Express Wind Energy Project is a 15,000-acre, 561 megawatt wind energy project including a substation, transmission facilities, administration facilities, operations and maintenance facilities, and temporary construction lay-down areas. The project would be located almost entirely on BLM administered lands in the Imperial Valley, approximately 5 miles west of Ocotillo, Imperial County, California. Greg is serving as a third-party biological consultant under the direction of the BLM El Centro Field Office. Specifically, Greg and ESA are contracted to assist with implementation of the BLM NEPA process including review and support for the project's Plan of Development, Notice of Intent, formal scoping meetings, Plan Amendment to the BLM California Desert Conservation Area Plan, EIS/EIR, required technical studies, Notice of Availability, and ultimately the Record of Decision. Greg is providing field verification to the BLM on data collection efforts being conducted by the applicants biological consultants.

Solar Millennium Blythe and Palen Solar Power Projects, Blythe, CA.
Biological Resources Task Leader. The Blythe Solar Power Project will be a concentrated STE generating facility with two adjacent, independent, and identical solar plants of 250 MW nominal capacity each for a total capacity of 500 MW nominal. The project site is located approximately two miles north of Interstate 10 and eight miles west of the City of Blythe in an unincorporated area of Riverside County. Greg served as a third-party biological consultant under the direction of the BLM Palm Springs Field Office. Greg assisted with implementation of the BLM NEPA process including review and support for the project's Plan of Development, Notice of Intent, formal scoping meetings, Plan Amendment to the BLM California Desert Conservation Area Plan, EIS/EIR, required technical studies, Notice of Availability, and ultimately the Record of Decision. Greg provided field verification to the BLM on data collection efforts being conducted by the applicants biological consultants.

Desert Sunlight Solar Project BLM Support Services, Desert Center, CA.
Biological Resources Task Leader. The Desert Sunlight Solar project will be a solar PV energy generating facility with a total capacity of 550 MW. The project is proposed to be located on federal lands managed by the BLM approximately six miles north of the community of Desert Center, in Riverside County. Greg is serving as a third-party biological consultant under the direction of the BLM Palm Springs Field Office. Specifically, Greg and ESA are contracted to assist with implementation of the BLM NEPA process including review and support for the project's Plan of Development, Notice of Intent, formal scoping meetings, Plan Amendment to the BLM California Desert Conservation Area Plan, EIS/EIR, required technical studies, Notice of Availability, and ultimately the Record of Decision. Greg is providing field verification to the BLM on data collection efforts being conducted by the applicants biological consultants.

Relevant Experience (Continued)

NextEra Genesis Solar Energy Project, BLM Support Services, Palm Springs, CA. *Senior Biologist.* Greg and ESA provided regulatory review for the California South Coast BLM for the Genesis Solar project application. Greg's role in this project included review of the biological resources technical reports that accompanied the permit applications. He determined appropriate mitigation strategies in consultation with project managers to help facilitate compliance with the Endangered Species Act and BLM Wildlife Management Areas.

Sun Peak Chuckwalla and Superstition Solar, Riverside County, CA. *Biological Resources Task Leader.* The Chuckwalla Solar I project is a 200 megawatt photovoltaic power plant located in Riverside County. All components of the proposed facility would be located on public lands managed by the BLM, under the jurisdiction of the Palm Springs Field Office. Specifically, Greg and ESA are contracted to assist with implementation of the BLM NEPA process including review and support for the project's Plan of Development, Notice of Intent, formal scoping meetings, Plan Amendment to the BLM California Desert Conservation Area Plan, EIS/EIR, required technical studies, Notice of Availability, and ultimately the Record of Decision. Greg is providing field verification to the BLM on data collection efforts being conducted by the applicants biological consultants.

Hollywood Heights Biological Resource Assessment, Los Angeles, CA. *Project Manager.* Greg prepared a biological resource assessment for a proposed residential development in the Hollywood Heights area of Los Angeles County. Following a literature and database review of the project area, Greg prepared a technical biological assessment report documenting the methods and results of the database and field assessment and provided mitigation measures and recommendations, where applicable, to reduce potential impacts to biological resources to levels of less than significant (per CEQA thresholds).

Department of Water Resources, East Branch Enlargement Project, Los Angeles and San Bernardino Counties, CA. *Senior Biologist.* Greg conducted habitat assessments for special-status plant and animal species in proposed construction areas, as well as, presence/absence surveys for burrowing owls. He is currently conducting a floristic inventory and rare plant survey within the Department's easement areas. ESA has conducted technical studies to complete the EIR and has begun negotiating permit requirements and restoration planning with resource agencies including the USACE, RWQCB, and USFWS.

Las Virgenes Municipal Water District, April Road Reservoir Environmental Constraints Analysis, Agoura Hills, CA. *Senior Biologist.* Greg is preparing a Biological Constraints Analysis for the proposed April Road Recycled Water Reservoir Site for the Las Virgenes Municipal Water District. The purpose of the assessment is to identify fatal flaws of the site and to characterize key biological resource hurdles. His analysis includes an assessment of potential incompatibilities with Los Angeles County's Sensitive Ecological Areas, impacts to wildlife migration corridors and sensitive plants and wildlife, and potential mitigation options. Greg prepared a draft oak tree appraisal to

Relevant Experience (Continued)

assessment the potential cost of impacting approximately 200 coast live oak trees and conducted a rare plant survey of the proposed project site.

County of Los Angeles Department of Public Works (LADPW), Sorensen Community Park Phase III MND, Los Angeles, CA. Senior Biologist. Greg prepared the biological resource section of the EIR/EA for the LADPW for Phase III of the Stephen Sorensen County Park Project. Greg conducted and managed special-status wildlife surveys including protocol-level surveys for burrowing owl (*Athene cunicularia*) and southern grasshopper mouse (*Onychomys torridus Ramona*), terrestrial mammal trapping and relocation, and implementing an employee education and awareness training.

Orange County Sanitation District, Newport Trunk Sewer Biological Mitigation Monitoring and Reporting Program, Newport, CA. Senior Biologist. Greg provided construction monitoring efforts for sensitive biological resources in the area of the Santa Ana River Marsh. Greg assisted in the demarcation of boundaries for construction through the marsh area and conducted breeding surveys for the federally and state listed Belding's savannah sparrow. He also provided training for the construction workers to ensure they are aware of their responsibilities with regard to protecting sensitive species and habitats in the area.

Irvine Ranch Water District (IRWD), Baker Regional Water Treatment Plant MND. Irvine, CA. Senior Biologist. Greg prepared the biological resource section of this Initial Study and MND for the IRWD Baker Regional Water Treatment Plant project. The goal of the proposed project is to increase water supply reliability in southern Orange County by creating redundancy of treatment system capacity and distribution infrastructure for potable water in the event of facility outages due to routine maintenance or unforeseen emergencies. Greg conducted a rare plant survey, habitat assessment for potentially occurring special-status species, mapped plant communities and sensitive habitats, and assessment potential mitigation options.

City of San Juan Capistrano, Terminal Reservoir MND, San Juan Capistrano, CA. Senior Biologist. Greg conducted a biological resource assessment, floristic inventory and rare plant survey, and prepared the biological resource section of the MND.

Additional Professional Experience

- Senior Biologist, Impact Sciences (05/2004 – 02/2009)
- Southwestern Willow Flycatcher Surveying Biologist, SWCA (05/2008 - 07/2008)
- Environmental Scientist/Biologist, ENSR International (04/2003 - 5/2004)
- Environmental Scientist, Rincon Environmental Consultants, Inc (10/2001-04/2004)
- Project Manager/ Field Biologist, Pacific Agricultural Research and Vintners Lab (06/1999 - 09/2001)



JON WEST

Associate Biologist II, Southern California Biological Resources and Land Management

Jon West is an Associate Biologist II in ESA's Biological Resources and Land Management Group and has over 4 years of experience as a biologist with private consulting firms and federal agencies. Jon has worked on numerous community development projects, solar and wind development, infrastructure, and water agency projects throughout Southern California and the southwest region. He has a wide variety of experience in biology and resource management, including habitat assessments and focused surveys for rare and special-status plants and wildlife. Other experience includes biological and mitigation monitoring, avian studies and nest searches, wetland and riparian jurisdictional delineations, vegetation mapping, terrestrial mammal trapping, and exotic plant management. Jon also has experience with GPS and ArcGIS software, and provides a variety of technical analysis functions in support of CEQA, NEPA and Endangered Species Act compliance and documentation.

Education

B.A. Environmental Studies

B.A. Writing,

Ithaca College, Ithaca, NY

Years Experience: 05

Relevant Training

38 Hour Army Corps of Engineers Wetland Delineation Training Program

USFWS protocol-level surveys for southwest willow flycatcher presence/absence surveys and nest monitoring.

USFWS protocol-level surveys for arroyo toad presence/absence and breeding surveys.

Successful CEQA Compliance – UCLA Extension.

Professional Affiliations

Association of Environmental Professionals – Channel Counties Chapter

Wildlife Society – Western Section

Los Angeles Audubon Society – western snowy plover (*Charadrius alexandrinus*) survey volunteer

Relevant Experience

Focused Studies

California Department of Water Resources (DWR) Arroyo Toad Monitoring Plan. Los Padres National Forest, CA. *Wildlife Biologist and Technical Analyst.* Jon assisted ESA with biological monitoring and technical analysis for DWR's monitoring program for the federally endangered arroyo toad (*Anaxyrus californicus*) and other special-status species including California red-legged frog (*Rana aurora draytonii*), southwestern pond turtle (*Actinemys marmorata pallida*), and two-striped garter snake (*Thamnophis hammondi*) in middle Piru Creek in the Los Padres National Forest. Jon assisted in formulating and implementing the U.S. Fish and Wildlife Service-approved monitoring plan, and conducting field surveys to monitor *A. californicus* reproductive success, habitat quality, and hydrological features on Piru Creek.

DWR Lake Perris Remediation Project. Riverside County, CA. *Wildlife Biologist.* Jon assisted ESA in performing protocol-level presence/absence surveys for least Bell's vireo (*Vireo bellii pusillus*) at Lake Perris and multiple mitigation sites in Riverside County. Focused surveys were performed to assist in assessing impacts from a drawdown of the lake and to provide the basis for impact mitigation under the MSHCP.

Aero Lower West Biota Surveys. Kern County, CA. *Deputy Project Manager, Wildlife Biologist.* Jon assisted ESA in performing biota surveys for a technical biological study for Aero Energy's submittal package to Kern County for pursuing wind energy development in the Tehachapi Pass Wind Resource Area. Jon helped coordinate and perform focused bird and bat studies in accordance with the California Energy Commission's *Guidelines for Reducing Impacts to Birds and Bats from Wind Energy Development*. Bat studies were conducted using digital mist netting and SonoBat software to analyze and compare high-resolution full-spectrum sonograms of bat echolocation calls. Jon assisted with coordinating field efforts and performing

Relevant Experience (Continued)

focused surveys for desert tortoise (*Gopherus agassizii*), Mohave ground squirrel (*Xerospermophilus mohavensis*), and burrowing owl (*Athene cunicularia*). Jon also provided technical analysis in drafting the technical biological report.

San Diego Gas and Electric (SDG&E) Wind Interconnection Project. San Diego County, CA. Technical Analyst and Biological Technician. Jon assisted ESA in developing a Biological Resources Technical Report and Proponent's Environmental Assessment for SDG&E's project to construct a switchyard and 6.7 miles of interconnection facilities to provide transmission interconnection for current and future wind energy projects in east San Diego County. Jon performed general wildlife reconnaissance surveys and focused rare plant surveys on the site and assisted SDG&E with siting of transmission poles and stringing sites in the field. Jon also provided technical analysis in developing the reports for the Project.

DWR Piru Creek Special Use Permit Renewal. Los Padres National Forest, Ventura County, CA. Technical Analyst and Wildlife Biologist. Jon assisted ESA with completing a Biological Assessment in support of DWR's renewal of a Special Use Permit to access and maintain the Piru Creek Gauging Station in Los Padres National Forest. Presence/absence surveys and habitat assessments were conducted for special-status species including arroyo toad, southwestern pond turtle, red-legged frog, and two-striped garter snake. Jon also assisted in the technical analysis of biological data and project plans while drafting the document in consultation with DWR, USFS, and USFWS.

DWR Templin Highway Culvert Repair. Angeles National Forest, San Bernardino County, CA. Biological Technician. Jon assisted ESA with conducting biological resources reconnaissance surveys and performing jurisdictional wetland delineations in support of DWR's environmental compliance and federal permitting for installation of a new culvert below Templin Highway. Jon assisted in characterizing and mapping vegetation in the project area, conducting a floristic inventory and rare plant survey, and surveying for special-status wildlife including arroyo toad and coastal California gnatcatcher (*Polioptila californica californica*).

Sunshine Canyon Landfill (SCL) Vegetation Plan. Los Angeles County, CA. Biological Technician and Technical Analyst. Jon assisted ESA in developing and implementing a vegetation plan to satisfy requirements of the South Coast Air Quality Management District's Order of Abatement for the landfill. The vegetation plan included augmentation of existing vegetation that remained after a wildfire swept through the site, selection of new planting trees, maintaining plants to maturity, replacement of dead trees, and an analysis of ownership of properties downslope of the landfill site. Jon performed field reconnaissance and monitoring surveys and provided technical analysis in developing and implementing the vegetation plan.

Santa Clarita Valley Sanitation District (SCVSD) Chloride Compliance Facilities Plan. Los Angeles County, CA. Technical Analyst and Biological

Relevant Experience (Continued)

Technician. Jon assisted ESA in preparing an EIR and Biological Technical Report for the SCVSD's project which aims to provide alternatives to reduce chloride discharges into the Santa Clara River in compliance with the Regional Water Quality Control Board's Chloride TMDL limit levels of 100 milligrams per liter (mg/L) for the District's wastewater treatment and discharge facilities. Jon performed field reconnaissance surveys of the site and provided technical analysis in drafted the reports for the Project.

Cadiz Groundwater Project. San Bernardino County, CA. Biological Technician and Technical Analyst. Jon assisted ESA with developing a Biological Technical Report and EIR for Cadiz, Inc's. Project to develop a water conservation program that involves capturing natural recharge in the Fenner and northern Bristol valley's and implementing a groundwater storage component that would involve extraction of native groundwater from subsurface groundwater in storage. Jon performed reconnaissance biological surveys and focused rare plant surveys of the proposed pipeline corridor and other project impact areas.

Las Virgenes Municipal Water District Environmental Constraints Assessment for Recycled Water Reservoir Site. Los Angeles County, CA. Technical Analyst and Biological Technician. Jon assisted ESA in conducting a reconnaissance-level biological survey and drafting a constraints assessment identifying fatal flaws and significant environmental and regulatory hurdles to developing a reservoir site in the Santa Monica Mountains.

Las Virgenes Municipal Water District Seminole Check Valve Project. Los Angeles County, CA. Technical Analyst and Biological Technician. Jon assisted ESA with completing a Biological Constraints Assessment for LVMWD's proposed project to install three check valves as safety measures to protect an existing potable water main that passes through a canyon in the Santa Monica Mountains. The assessment evaluated the existing conditions of biological resources in the area and identified potential impacts to said resources as a result of implementation of the proposed project.

Tylerhorse Wind Energy Project. Kern County, CA. Technical Analyst. Jon assisted ESA with developing an Environmental Impact Statement (EIS) for the U.S. Bureau of Land Management (BLM) to analyze potential impacts to environmental resources from the construction, operation, and maintenance of up to 40 wind turbines in the Tehachapi Pass Wind Resource Area. The analysis included the proposed project as well as three alternatives.

DWR California Aqueduct East Branch Extension Project. San Bernardino County, CA. Biological Technician. Jon assisted ESA with conducting biological resources reconnaissance surveys for special-status wildlife and rare and special-status plants along segments of DWR's proposed East Branch Extension Project.

Los Angeles County Waterworks District No. 40 (LACWWD40) Regional Recycled Water Project. Los Angeles County, CA. Biological Technician

Relevant Experience (Continued)

and Technical Analyst. Jon is assisted ESA with conducting biological resource reconnaissance surveys and providing technical analysis in support of LACWWD40's Program EIR for the Project.

Irvine Ranch Water District (IRWD) Baker Water Treatment Plant Project. Orange County, CA. *Biological Technician and Technical Analyst.* Jon assisted ESA with conducting biological resources reconnaissance surveys and providing technical analysis in support of IRWD's Program EIR for the Project.

24233 The Old Road Focused Biological Constraints Assessment. Los Angeles County, CA. *Biological Technician and Technical Analyst.* Jon assisted ESA with conducting a focused Biological Constraints Assessment, oak tree survey, and providing support with Los Angeles County permitting support for a private development project in Newhall, CA. The focused study was conducted for submittal to the Los Angeles County Significant Ecological Areas Technical Advisory Committee (SEATAC).

Saddle Crest Homes Environmental Impact Report (EIR). Orange County, CA. *Biological Technician and Technical Analyst.* Jon assisted ESA with developing an EIR for the proposed development of 65 single family homes on approximately 113 acres within the Foothill/Trabuco Specific Plan area of Orange County. Jon performed field reconnaissance surveys on-site and provided technical analysis for the EIR's evaluation of two project designs.

Construction Monitoring

San Diego Gas and Electric (SDG&E) TL-680A Reconductor Project. San Diego County, CA. *Biological and Wetland Monitor.* Jon served as a construction monitor for biological and wetland resources for SDG&E's Project to reconductor approximately 4.5 miles of existing and new transmission and distribution lines along TL-680 in Oceanside and Carlsbad, CA. Duties included conducting pre-construction reconnaissance surveys for special-status species, nesting birds, and other sensitive biological and wetland resources. Other responsibilities included holding pre-construction meetings with crews and monitoring construction activities to assist crews in avoiding and minimizing impacts to NCCP habitats during project-related activities.

U.S. Bureau of Land Management (BLM) Desert Sunlight Solar Farm Project. Riverside County, CA. *Compliance Monitor.* Jon assisted ESA in providing BLM-third party compliance monitoring and documentation as part of the Project's Environmental and Construction Compliance Monitoring Plan (ECCMP). The project includes the construction of a 550-megawatt solar photovoltaic generating facility and 220-kilovolt generation interconnection line on approximately 4,144 acres of BLM-managed land in the Mojave Desert.

Metropolitan Water District of Southern California (MWD) F.E. Weymouth Water Treatment Plant Mitigation Monitoring and Reporting

Relevant Experience (Continued)

Program (MMRP). Los Angeles County, CA. Construction Monitor. Jon is assisting ESA's Consulting Mitigation Monitoring Team with providing on-site construction monitoring and reporting for MWD's Inlet Conduit Construction, Power Systems and Seismic Upgrades, and Filter Rehabilitation Demonstration Projects, respectively. Jon is monitoring construction activities and mitigation measures, and providing reporting and communication documentation in support of the Project's MMRP.

Southern California Edison (SCE) Tehachapi Renewable Transmission Project. Los Angeles County, CA. Construction and Bird Nest Monitor. Jon monitored construction activities and active bird nests on Segments 4-11 of SCE's Project to construct transmission lines, substations, and other support structures intended to connect renewable energy generated at the Tehachapi Pass Wind Resource Area to the Greater Los Angeles Area. Jon performed pre-construction reconnaissance surveys and monitored construction activities and active bird nests to reduce impacts to sensitive biological resources from project-related activities. Other duties included monitoring for burrowing owls and other nesting bird species, ensuring compliance with adopted BMP's, and communicating with crews.

Long Beach Unified School District Early College Academic and Training School Project. Los Angeles County, CA. Biological Monitor. Under the provisions of the Project's MMRP, Jon monitored protected oak trees and nesting birds during demolition activities and worked with the Project's engineer on-site to ensure that activities did not negatively impact protected biological resources.

County of Los Angeles Department of Public Works Steven Sorensen County Park, Gymnasium/Community Building Project. Los Angeles County, CA. Biological Monitor. Jon assisted ESA with providing biological resources mitigation monitoring and reporting for Phase III of the Project. Monitoring responsibilities included pre-construction focused surveys for burrowing owl and southern grasshopper mouse (*Onychomys torridus Ramona*). Other duties included pre-construction terrestrial mammal trapping and relocation, and implementing an employee education and awareness training program.

U.S. Bureau of Land Management (BLM) Ocotillo Wind Energy Project. Imperial County, CA. Biological Monitor. Jon assisted ESA with conducting pre-construction biological resources clearance surveys for meteorological tower installation in support of the Ocotillo Wind Energy Project in the Sonoran Desert of Imperial County, CA. Pre-construction clearance surveys were conducted for rare and special-status vegetation and wildlife.

Orange County Sanitation District (OCSD) Newport Trunk Sewer Biological Mitigation Monitoring and Reporting Program. Orange County, CA. Biological Monitor. Jon assisted ESA in providing biological monitoring in support of OCSD's Mitigation Monitoring and Reporting Program for the Project located in the area of the Santa Ana River Marsh. Monitoring

Relevant Experience (Continued)

responsibilities included BMP inspections, special-status plant and wildlife clearance surveys, nest searches, and supporting employee education and awareness programs.

Prior to ESA

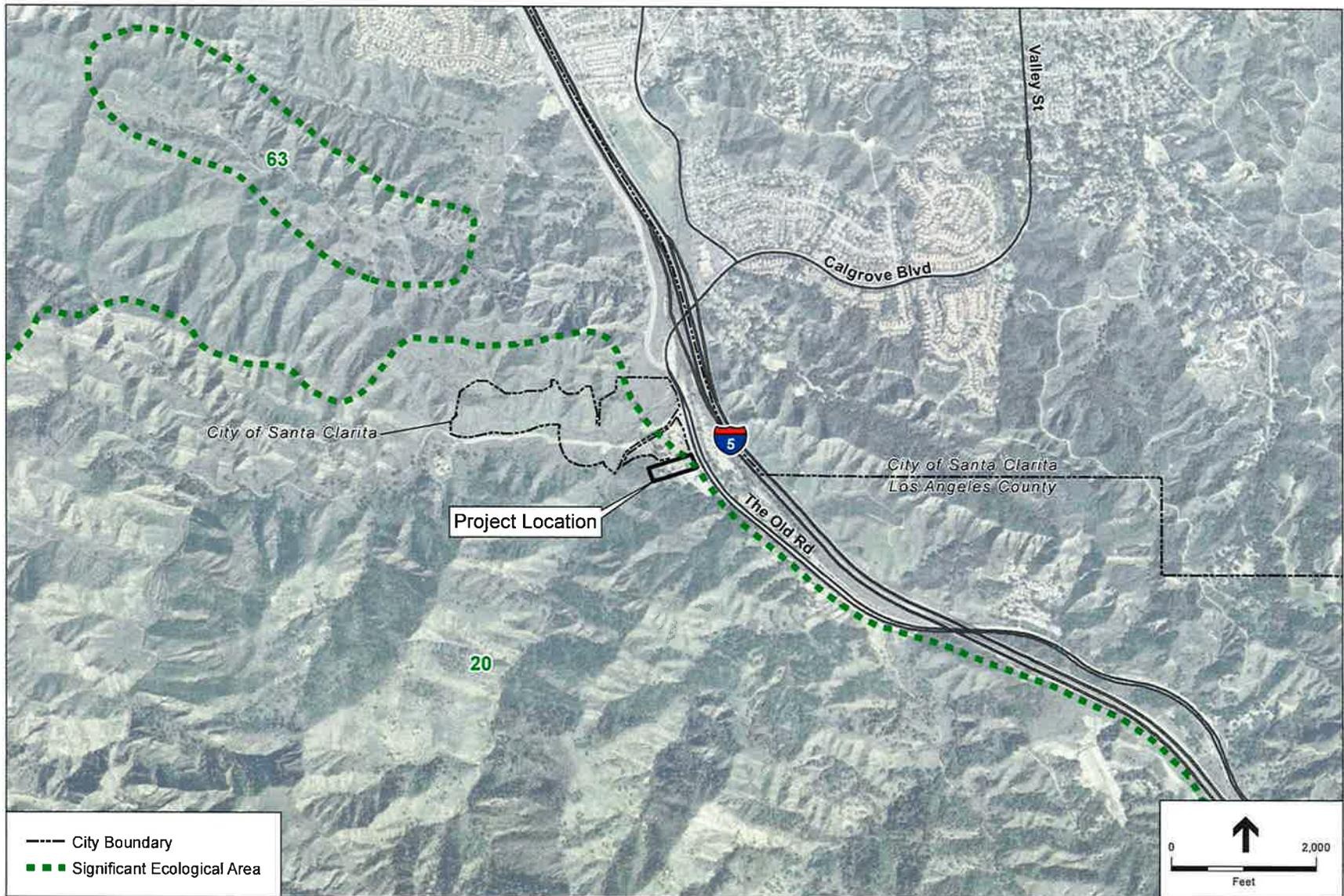
U.S Bureau of Reclamation Southwestern Willow Flycatcher Management Plan. Lower Colorado River, CA/AZ. *Biological Technician and Survey Coordinator.* Jon conducted USFWS protocol-level, presence/absence surveys and nest monitoring for the southwestern willow flycatcher (*Empidonax traillii extimus*) along the lower Colorado River. In addition to performing focused surveys for southwestern willow flycatcher, Jon also surveyed for other special-status bird species such as least Bell's vireo (*Vireo bellii pusillus*), yellow-breasted chat (*Icteria virens*), summer tanager (*Piranga rubra*), clapper rail (*Rallus longirostris*), black rail (*Laterallus jamaicensis*), and yellow-billed cuckoo (*Coccyzus americanus occidentalis*). Study methods included collecting resight and behavioral data for *E. traillii*, analyzing microclimate conditions, and maintaining field data equipment, such as data loggers. Jon collected hydrology, vegetation, and wildlife data in the field for field reports, and used GPS to map localities of *E. traillii* and other biological resource data.

National Park Service. White Sands National Monument, NM. *Biological Science Technician.* As a member of the Exotic Plant Management Team, Jon surveyed and mitigated exotic plant species, including salt cedar (*Tamarix*) and African rue (*Peganum harmala*) in backcountry environments using foliar spray and cut-stump treatment techniques in accordance with NPS protocol and safety procedures. He used GPS and ArcMap software to document and map localities of exotic plant infestations and treatment areas, maintained and analyzed exotic plant management data, and completed a management report to the NPS Exotic Plant Management Team. He also conducting various wildlife, hydrology, and paleontology surveys in support of NPS and independent research efforts.

BLM Resource Management Plan. Vernal, UT. *Biological Technician.* Jon conducted USBLM protocol-level presence/status surveys for special-status plants, including Uintah basin hookless cactus (*Sclerocactus wetlandicus*) and Pariette cactus (*Sclerocactus brevispinus*) in the oil and gas fields of the Uinta basin, Utah. Jon also conducted habitat delineation surveys for Graham's penstemon (*Penstemon grahamii*) in backcountry environments. Used GPS to map habitat delineations as well as proposed oil pad and pipeline locations.

APPENDIX B

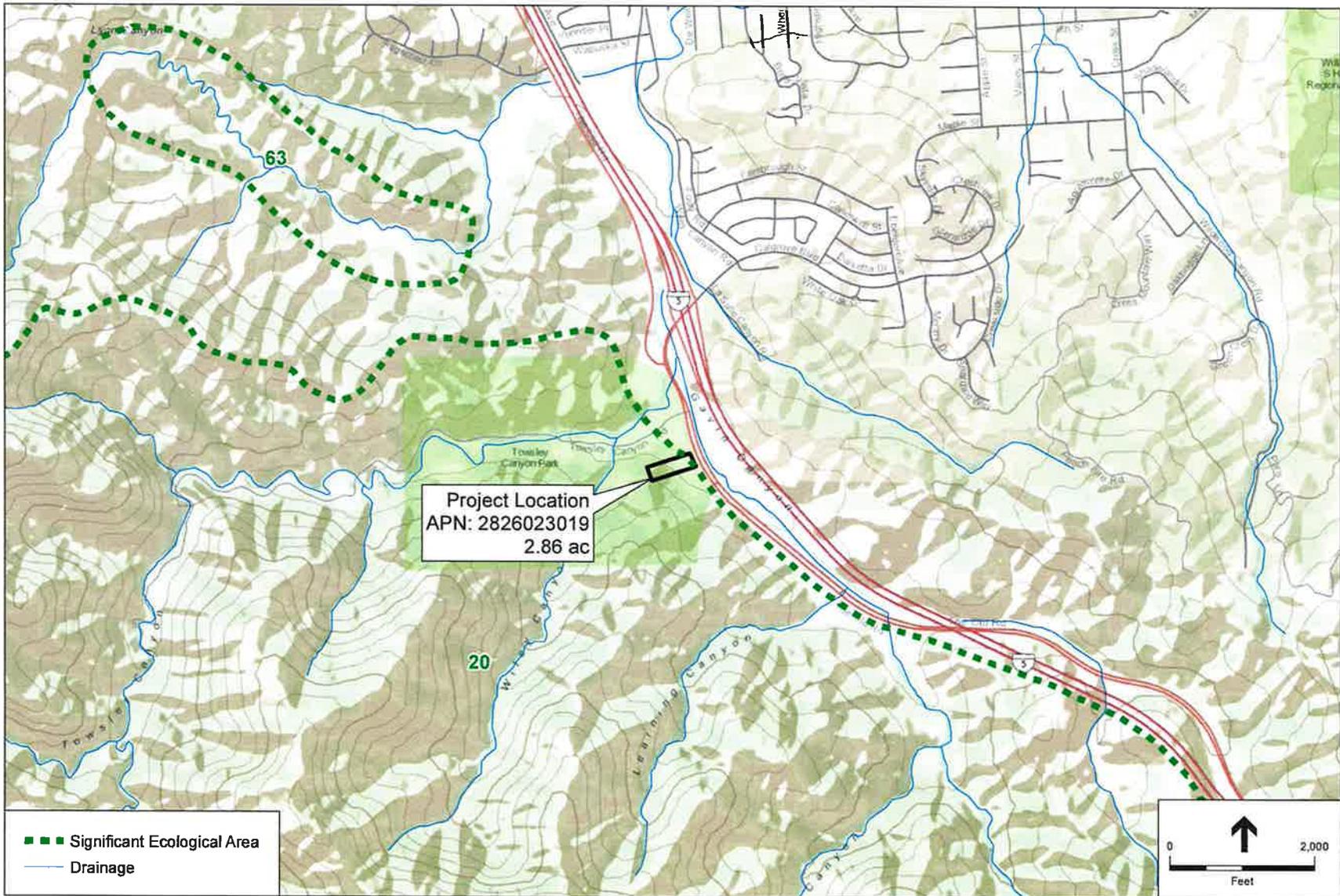
Figures



SOURCE: Aerial Express, 2011; Los Angeles County GIS, 2012.

24233 The Old Road . 211740

Figure 1
Project Vicinity



SOURCE: USGS Topoquad: Oat Mountain

24233 The Old Road . 211740

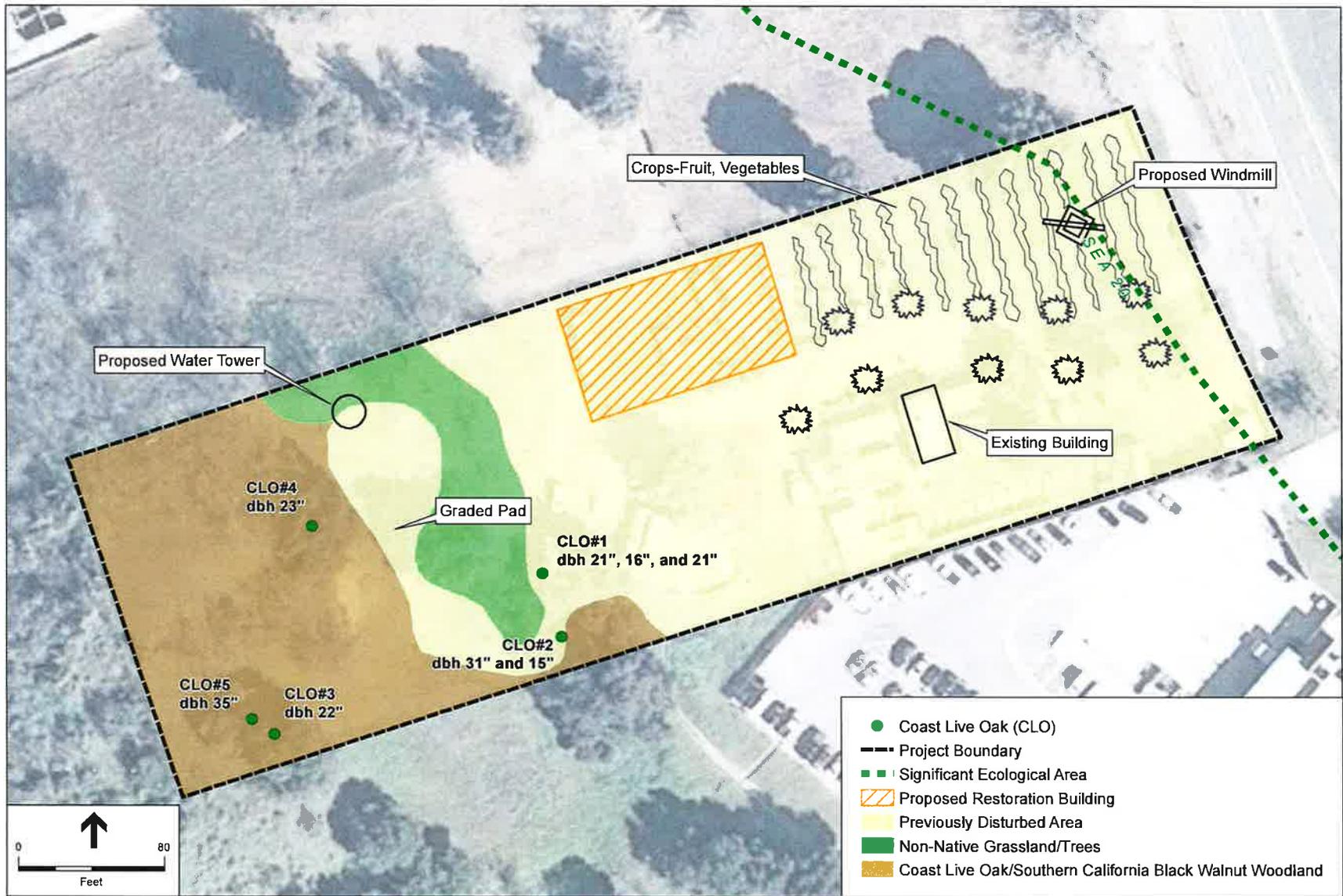
Figure 2
USGS 7.5 Minute Topographic Map



SOURCE: USGS Topoquad: Oat Mountain

24233 The Old Road . 211740

Figure 3
Aerial Photograph



SOURCE: Bing Maps; Los Angeles County GIS; ESA, 2011.

24233 The Old Road, 211740

Figure 4
Project Features, Biological Resources and SEA Boundary

APPENDIX C

Photo Exhibits

24233 The Old Road
Biological Constraints Analysis

ESA / 211740
March 2012



Photo 1. Facing east from site towards The Old Road.



Photo 2. Facing west from site towards disturbed hillside with non-native grassess and trees.



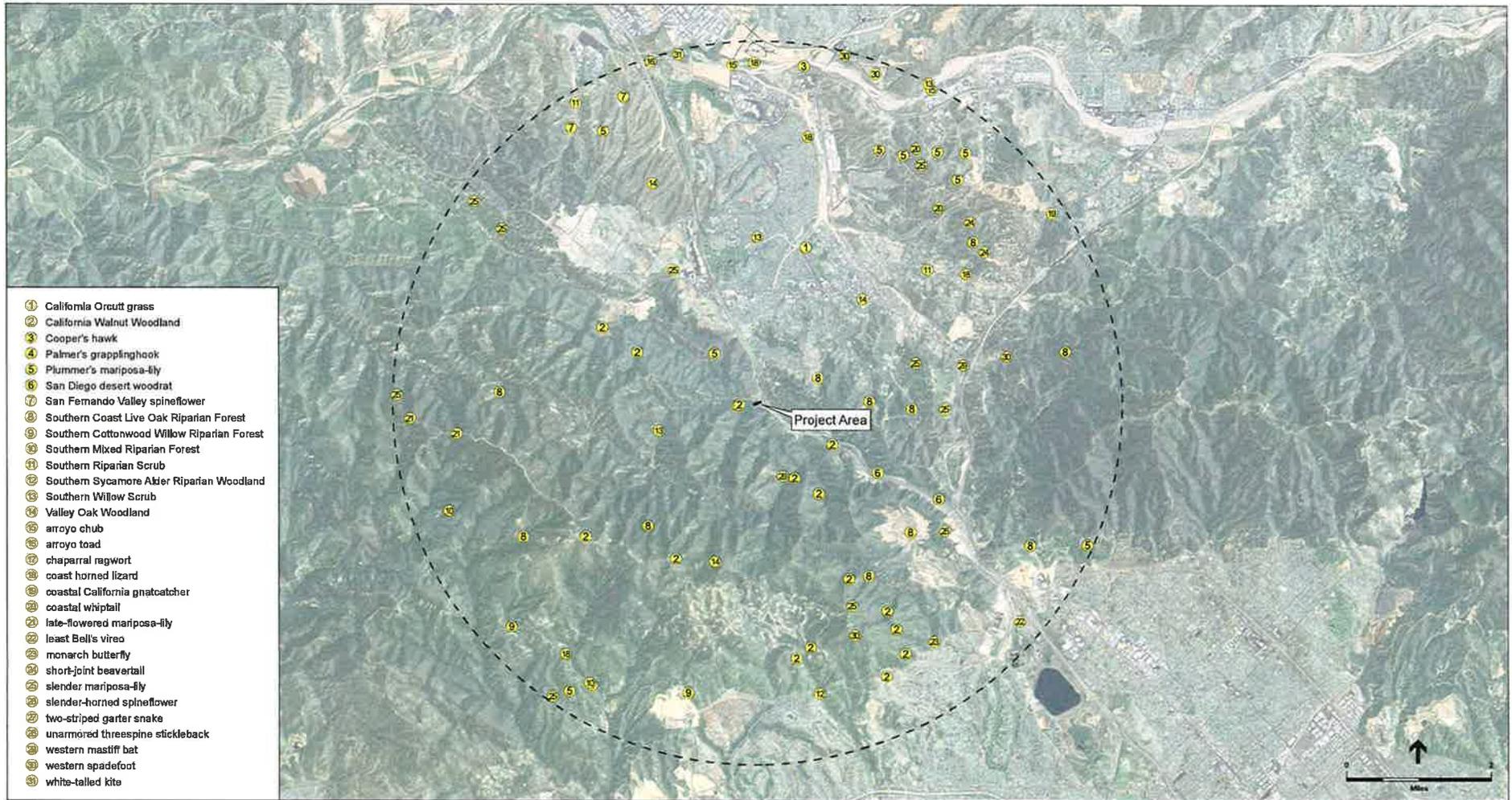
Photo 3. Facing northeast from hillside at view of coast live oak/southern California black walnut woodland.



Photo 4. View of previously graded area on hillside where water tower is proposed.

APPENDIX D

CNDDDB and CNPS Search Results



SOURCE: California Department of Fish and Game; California Natural Diversity Database, 2012

24233 The Old Road, 211740

Figure 5
Special Status Species Occurrences within 5-Mile Radius of the Project Site



Selected Elements by Scientific Name
 California Department of Fish and Game
 California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFG SSC or FP
arroyo chub <i>Gila orcuttii</i>	AFCJB13120	None	None	G2	S2	SSC
arroyo toad <i>Anaxyrus californicus</i>	AAABB01230	Endangered	None	G2G3	S2S3	SSC
bank swallow <i>Riparia riparia</i>	ABPAU08010	None	Threatened	G5	S2S3	
Bell's sage sparrow <i>Amphispiza belli belli</i>	ABPBX97021	None	None	G5T2T4	S2?	WL
burrowing owl <i>Athene cunicularia</i>	ABNSB10010	None	None	G4	S2	SSC
California condor <i>Gymnogyps californianus</i>	ABNKA03010	Endangered	Endangered	G1	S1	
California horned lark <i>Eremophila alpestris actia</i>	ABPAT02011	None	None	G5T3Q	S3	WL
California leaf-nosed bat <i>Macrotus californicus</i>	AMACB01010	None	None	G4	S2S3	SSC
California Orcutt grass <i>Orcuttia californica</i>	PMPOA4G010	Endangered	Endangered	G1	S1	1B.1
California red-legged frog <i>Rana draytonii</i>	AAABH01022	Threatened	None	G4T2T3	S2S3	SSC
California Walnut Woodland <i>California Walnut Woodland</i>	CTT71210CA	None	None	G2	S2.1	
chaparral ragwort <i>Senecio aphanactis</i>	PDAST8H060	None	None	G3?	S1.2	2.2
Cismontane Alkali Marsh <i>Cismontane Alkali Marsh</i>	CTT52310CA	None	None	G1	S1.1	
coast horned lizard <i>Phrynosoma blainvillii</i>	ARACF12100	None	None	G4G5	S3S4	SSC
coastal California gnatcatcher <i>Polioptila californica californica</i>	ABPBJ08081	Threatened	None	G3T2	S2	SSC
coastal whiptail <i>Aspidoscelis tigris stejnegeri</i>	ARACJ02143	None	None	G5T3T4	S2S3	
Cooper's hawk <i>Accipiter cooperii</i>	ABNKC12040	None	None	G5	S3	WL
Davidson's bush-mallow <i>Malacothamnus davidsonii</i>	PDMAL0Q040	None	None	G1	S1.1	1B.2
grasshopper sparrow <i>Ammodramus savannarum</i>	ABPBXA0020	None	None	G5	S2	SSC
Greata's aster <i>Symphyotrichum greatae</i>	PDASTE80U0	None	None	G2	S2.3	1B.3
hoary bat <i>Lasiurus cinereus</i>	AMACC05030	None	None	G5	S4?	



Selected Elements by Scientific Name
California Department of Fish and Game
California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFG SSC or FP
late-flowered mariposa-lily <i>Calochortus fimbriatus</i>	PMLIL0D1J2	None	None	G3G4	S2.2	1B.2
least Bell's vireo <i>Vireo bellii pusillus</i>	ABPBW01114	Endangered	Endangered	G5T2	S2	
lodgepole chipmunk <i>Neotamias speciosus speciosus</i>	AMAFB02172	None	None	G4T2T3	S2S3	
loggerhead shrike <i>Lanius ludovicianus</i>	ABPBR01030	None	None	G4	S4	SSC
Mainland Cherry Forest <i>Mainland Cherry Forest</i>	CTT81820CA	None	None	G1	S1.1	
monarch butterfly <i>Danaus plexippus</i>	IILEPP2010	None	None	G5	S3	
Nevin's barberry <i>Berberis nevinii</i>	PDBER060A0	Endangered	Endangered	G1	S1	1B.1
Newhall sunflower <i>Helianthus inexpectatus</i>	PDAST4N250	None	None	G1	S1	1B.1
Ojai navarretia <i>Navarretia ojaiensis</i>	PDPLM0C130	None	None	G1	S1	1B.1
pallid bat <i>Antrozous pallidus</i>	AMACC10010	None	None	G5	S3	SSC
Palmer's grapplinghook <i>Harpagonella palmeri</i>	PDBOR0H010	None	None	G4	S3.2	4.2
Parry's spineflower <i>Chorizanthe parryi</i> var. <i>parryi</i>	PDPGN040J2	None	None	G3T2	S2	1B.1
Peirson's morning-glory <i>Calystegia peirsonii</i>	PDCON040A0	None	None	G3	S3.2	4.2
Piute Mountains navarretia <i>Navarretia setiloba</i>	PDPLM0C0S0	None	None	G1	S1.1	1B.1
Plummer's mariposa-lily <i>Calochortus plummerae</i>	PMLIL0D150	None	None	G3	S3	1B.2
Riversidian Alluvial Fan Sage Scrub <i>Riversidian Alluvial Fan Sage Scrub</i>	CTT32720CA	None	None	G1	S1.1	
Ross' pitcher sage <i>Lepechinia rossii</i>	PDLAM0V060	None	None	G1	S1.2	1B.2
rosy boa <i>Charina trivirgata</i>	ARADA01020	None	None	G4G5	S3S4	
round-leaved filaree <i>California macrophylla</i>	PDGER01070	None	None	G2	S2	1B.1
San Diego black-tailed jackrabbit <i>Lepus californicus bennettii</i>	AMAEB03051	None	None	G5T3?	S3?	SSC
San Diego desert woodrat <i>Neotoma lepida intermedia</i>	AMAFF08041	None	None	G5T3?	S3?	SSC



Selected Elements by Scientific Name
California Department of Fish and Game
California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFG SSC or FP
San Fernando Valley spineflower <i>Chorizanthe parryi</i> var. <i>fernandina</i>	PDPGN040J1	Candidate	Endangered	G2T1	S1.1	1B.1
San Gabriel bedstraw <i>Galium grande</i>	PDRUB0N0V0	None	None	G2	S2.2	1B.2
Santa Ana sucker <i>Catostomus santaanae</i>	AFCJC02190	Threatened	None	G1	S1	SSC
Santa Susana tarplant <i>Deinandra minthornii</i>	PDAST4R0J0	None	Rare	G2	S2.2	1B.2
short-joint beavertail <i>Opuntia basilaris</i> var. <i>brachyclada</i>	PDCAC0D053	None	None	G5T3	S3	1B.2
Sierra Madre yellow-legged frog <i>Rana muscosa</i>	AAABH01330	Endangered	Candidate Endangered	G1	S1	SSC
silvery legless lizard <i>Anniella pulchra pulchra</i>	ARACC01012	None	None	G3G4T3T4Q	S3	SSC
slender mariposa-lily <i>Calochortus clavatus</i> var. <i>gracilis</i>	PMLIL0D096	None	None	G4T2	S2	1B.2
slender-horned spineflower <i>Dodecahema leptoceras</i>	PDPGN0V010	Endangered	Endangered	G1	S1	1B.1
southern California rufous-crowned sparrow <i>Aimophila ruficeps canescens</i>	ABPBX91091	None	None	G5T2T4	S2S3	WL
Southern California Threespine Stickleback Stream <i>Southern California Threespine Stickleback Stream</i>	CARE2320CA	None	None	G?	SNR	
Southern Coast Live Oak Riparian Forest <i>Southern Coast Live Oak Riparian Forest</i>	CTT61310CA	None	None	G4	S4	
Southern Cottonwood Willow Riparian Forest <i>Southern Cottonwood Willow Riparian Forest</i>	CTT61330CA	None	None	G3	S3.2	
southern grasshopper mouse <i>Onychomys torridus ramona</i>	AMAFF06022	None	None	G5T3?	S3?	SSC
Southern Mixed Riparian Forest <i>Southern Mixed Riparian Forest</i>	CTT61340CA	None	None	G2	S2.1	
Southern Riparian Scrub <i>Southern Riparian Scrub</i>	CTT63300CA	None	None	G3	S3.2	
Southern Sycamore Alder Riparian Woodland <i>Southern Sycamore Alder Riparian Woodland</i>	CTT62400CA	None	None	G4	S4	
Southern Willow Scrub <i>Southern Willow Scrub</i>	CTT63320CA	None	None	G3	S2.1	
spotted bat <i>Euderma maculatum</i>	AMACC07010	None	None	G4	S2S3	SSC
spreading navarretia <i>Navarretia fossalis</i>	PDPLM0C080	Threatened	None	G1	S1	1B.1
two-striped garter snake <i>Thamnophis hammondi</i>	ARADB36160	None	None	G3	S2	SSC



Selected Elements by Scientific Name
California Department of Fish and Game
California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFG SSC or FP
unarmored threespine stickleback <i>Gasterosteus aculeatus williamsoni</i>	AFCPA03011	Endangered	Endangered	G5T1	S1	FP
Valley Oak Woodland <i>Valley Oak Woodland</i>	CTT71130CA	None	None	G3	S2.1	
western mastiff bat <i>Eumops perotis californicus</i>	AMACD02011	None	None	G5T4	S3?	SSC
western pond turtle <i>Emys marmorata</i>	ARAAD02030	None	None	G3G4	S3	SSC
western spadefoot <i>Spea hammondi</i>	AAABF02020	None	None	G3	S3	SSC
western yellow-billed cuckoo <i>Coccyzus americanus occidentalis</i>	ABNRB02022	Candidate	Endangered	G5T3Q	S1	
white-tailed kite <i>Elanus leucurus</i>	ABNKC06010	None	None	G5	S3	FP
yellow warbler <i>Dendroica petechia brewsteri</i>	ABPBX03018	None	None	G5T3?	S2	SSC
yellow-breasted chat <i>Icteria virens</i>	ABPBX24010	None	None	G5	S3	SSC

Record Count: 72



CNPS
California Native Plant Society

Inventory of Rare and Endangered Plants

v7-12mar 3-28-12

Status: search results - Thu, Mar. 29, 2012 04:40 c

{QUADS_123} =~ m/138D|112A|112B|137B|137C|111B|138A|138E

Tip: +DNT Jun Jul returns Del Norte taxa with those blooming both months listed first.
[\[all tips and help.\]](#)[\[search history\]](#)

Your Quad Selection: Oat Mountain (138D) 3411835, Canoga Park (112A) 3411825, Calabasas (112B) 3411826, Mint Canyon (137B) 3411844, San Fernando (137C) 3411834, Van Nuys (111B) 3411824, Newhall (138A) 3411845, Val Verde (138B) 3411846, Santa Susana (138C) 3411836

Hits 1 to 26 of 26
Requests that specify topo quads will return only Lists 1-3.

To save selected records for later study, click the ADD button.

Selections will appear in a new window.

open	save	hits	scientific	common	family	CNPS
	<input type="checkbox"/>	1	<u>Astragalus brauntonii</u>	Braunton's milk-vetch	Fabaceae	List 1B.1
	<input type="checkbox"/>	1	<u>Berberis nevinii</u>	Nevin's barberry	Berberidaceae	List 1B.1
	<input type="checkbox"/>	1	<u>California macrophylla</u>	round-leaved filaree	Geraniaceae	List 1B.1
	<input type="checkbox"/>	1	<u>Calochortus clavatus</u> var. <u>gracilis</u>	slender mariposa lily	Liliaceae	List 1B.2
	<input type="checkbox"/>	1	<u>Calochortus fimbriatus</u>	late-flowered mariposa lily	Liliaceae	List 1B.2
	<input type="checkbox"/>	1	<u>Calochortus plummerae</u>	Plummer's mariposa lily	Liliaceae	List 1B.2
	<input type="checkbox"/>	1	<u>Centromadia parryi</u> ssp. <u>australis</u>	southern tarplant	Asteraceae	List 1B.1
	<input type="checkbox"/>	1	<u>Chorizanthe parryi</u> var. <u>fernandina</u>	San Fernando Valley spineflower	Polygonaceae	List 1B.1
	<input type="checkbox"/>	1	<u>Deinandra minthornii</u>	Santa Susana tarplant	Asteraceae	List 1B.2
	<input type="checkbox"/>	1	<u>Dodecahema leptoceras</u>	slender-horned spineflower	Polygonaceae	List 1B.1
	<input type="checkbox"/>	1	<u>Dudleya blochmaniae</u> ssp. <u>blochmaniae</u>	Blochman's dudleya	Crassulaceae	List 1B.1
	<input type="checkbox"/>	1	<u>Dudleya cymosa</u> ssp. <u>agourensis</u>	Agoura Hills dudleya	Crassulaceae	List 1B.2
	<input type="checkbox"/>	1	<u>Dudleya multicaulis</u>	many-stemmed dudleya	Crassulaceae	List 1B.2
	<input type="checkbox"/>	1	<u>Helianthus inexpectatus</u>	Newhall sunflower	Asteraceae	List 1B.1
	<input type="checkbox"/>	1	<u>Lasthenia glabrata</u> ssp. <u>coulteri</u>	Coulter's goldfields	Asteraceae	List 1B.1
	<input type="checkbox"/>	1	<u>Lepidium virginicum</u> var. <u>robinsonii</u>	Robinson's pepper-grass	Brassicaceae	List 1B.2

	<input type="checkbox"/>	1	<u>Malacothamnus davidsonii</u> 	Davidson's bush-mallow	Malvaceae	List 1B.2
	<input type="checkbox"/>	1	<u>Navarretia fossalis</u> 	spreading navarretia	Polemoniaceae	List 1B.1
	<input type="checkbox"/>	1	<u>Navarretia ojaiensis</u> 	Ojai navarretia	Polemoniaceae	List 1B.1
	<input type="checkbox"/>	1	<u>Navarretia setiloba</u> 	Piute Mountains navarretia	Polemoniaceae	List 1B.1
	<input type="checkbox"/>	1	<u>Nolina cismontana</u> 	chaparral nolina	Ruscaceae	List 1B.2
	<input type="checkbox"/>	1	<u>Opuntia basilaris</u> var. <u>brachyclada</u> 	short-joint beavertail	Cactaceae	List 1B.2
	<input type="checkbox"/>	1	<u>Orcuttia californica</u> 	California Orcutt grass	Poaceae	List 1B.1
	<input type="checkbox"/>	1	<u>Pseudognaphalium leucocephalum</u>	white rabbit-tobacco	Asteraceae	List 2.2
	<input type="checkbox"/>	1	<u>Senecio aphanactis</u> 	chaparral ragwort	Asteraceae	List 2.2
	<input type="checkbox"/>	1	<u>Symphyotrichum greatae</u> 	Greata's aster	Asteraceae	List 1B.3

To save selected records for later study, click the ADD button.

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