



**U.S. Department of Housing and Urban
Development**

San Francisco Regional Office - Region IX

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**Environmental Assessment
for HUD-funded Proposals**

Recommended format per 24 CFR 58.36, revised March 2005
[Previously recommended EA formats are obsolete].

Project Identification: Winterhaven Public Safety Facility

Preparer: Kevin L. Grant, Ericsson-Grant, Inc.

Responsible Entity: County of Imperial

Month/Year: February/2017

Environmental Assessment

Responsible Entity: County of Imperial

[24 CFR 58.2(a)(7)]

Certifying Officer: Ralph Cordova, Jr.

[24 CFR 58.2(a)(2)]

Project Name: Winterhaven Public Safety Facility

Project Location: 518 Railroad Avenue, Winterhaven, CA 92281

Estimated total project cost: \$2,870,446

Grant Recipient County of Imperial

[24 CFR 58.2(a)(5)]

Recipient Address: 940 W. Main Street, Suite 208, El Centro, CA 92243

Project Representative: Esperanza Colio Warren, Community & Economic Development Manager

Telephone Number: (442) 265-1100

Conditions for Approval: (List all mitigation measures adopted by the responsible entity to eliminate or minimize adverse environmental impacts. These conditions must be included in project contracts and other relevant documents as requirements). [24 CFR 58.40(d), 40 CFR 1505.2(c)]

Mitigation Measure AQ-1: During clearing, grading, earth moving, or excavation operations, excessive fugitive dust emissions shall be controlled by the following techniques:

- Prepare a high wind dust control plan and implement plan elements and terminate soil disturbance when winds exceed 25 mph.
- Limit the simultaneous disturbance area to as small an area as practical when winds exceed 25 mph.
- Stabilize previously disturbed areas if subsequent construction is delayed.
- Water exposed surfaces and haul roads 3 times per day.
- Cover all stock piles with tarps.
- Replace ground cover in disturbed areas quickly.
- Reduce speeds on unpaved roads to less than 15 mph.

Mitigation Measure CUL-1: Should archaeological resources be encountered during construction of the project, all work in that area shall be halted and a qualified archaeologist shall be summoned and shall have the authority to halt and redirect construction until the significance of the find can be determined. If the resource is determined to be significant, a recovery and catalog program shall be implemented.

Mitigation Measure CUL-2: Should artifacts or items of potential paleontological significance be discovered during the project construction activities, all work in that area shall be halted and a qualified paleontologist shall be summoned to the site to evaluate the find. If the resource is determined to be significant, a recovery and catalog program shall be implemented.

Mitigation Measure CUL-3: If human remains are uncovered during project construction, State Health and Safety Code Section 7050.5 states that no further disturbance shall occur in the immediate area until the County Coroner has made the necessary findings as to origin and disposition pursuant to Public Resources Code Section 5097.98. If the coroner recognizes the human remains to be those of a Native American, or has reason to believe that they are those of a Native American, he or she shall contact, by telephone within 24 hours, the State Native American Heritage Commission (NAHC) who will then contact the appropriate tribal representative.

Mitigation Measure NOI-1: During construction, the project shall be subject to noise control via implementation of the County of Imperial Noise Ordinance.

Mitigation Measure NOI-2: Construction equipment operation shall be limited to the hours of 7 a.m. to 7 p.m., Monday through Friday, and 9 a.m. to 5 p.m. Saturday. No commercial construction operations are permitted on Sunday or holidays.

Mitigation Measure NOI-3: No construction equipment, or combination of equipment regardless of age or date of acquisition, shall be operated so as to cause noise at a level in excess of seventy-five (75) decibels for more than eight (8) hours during any twenty-four (24) hour period when measured at or within the property lines of any property which is developed and used either in part or in whole for residential purposes.

Mitigation Measure HYD-1: To mitigate impacts from short-term erosion and discharge of pollutants, best management practices (BMPs) would be implemented. Construction BMPs shall include, but may not be limited to the following:

- Store stockpiled materials and wastes under a roof or plastic sheeting;
- Berm around stockpile/storage areas to prevent contact with runoff;
- Perform major maintenance, repair and vehicle and equipment washing off-site or in designated and controlled areas on-site;
- Sweep up spilled dry construction materials (e.g. cement) immediately: water will not be used to wash away these materials.
- Clean up liquid spills on paved or impermeable surfaces using "dry" clean-up methods (e.g. absorbent materials, cat litter, rags) and dispose of clean-up materials properly.

Statement of Purpose and Need for the Proposal: [40 CFR 1508.9(b)]

The Winterhaven Colonia was originally under the protection and services of the Winterhaven Fire District located at 495 3rd Avenue through the designation of the Imperial County Local Agency Formation Commission. In recent years, the County has been deliberating whether to dissolve the District. As the Winterhaven Fire District only provided services to the Winterhaven Colonia, the Imperial County Fire Department (ICFD) was requested to respond to the areas surrounding the Winterhaven Colonia. The ICFD has been actively servicing the Winterhaven Colonia since June 2015 out of Substation located at 518 Railroad Avenue. The County owns the property and the Substation currently consists of a leased modular unit occupying a portion of the site on an existing concrete slab (see photo below). The modular unit is a temporary solution to house the ICFD, but does not provide all amenities needed to safely and adequately serve the firefighters operating out of the Substation.



On June 30, 2016, the Winterhaven Fire District disbanded and became non-operational due to financial difficulties. Subsequently, the ICFD has been responding to calls within the Winterhaven Colonia and its surrounding areas. In addition to fire protection services, the ICFD also provides classes (CPR, First Aid, Fire Extinguisher, and Smoke Detector Education) to the community a few times a year or upon request. However, the current modular unit serving as the Winterhaven Fire Substation does not have sufficient space to hold these classes and trainings.

Since the lease of the modular unit in 2015, the County has been working diligently on solutions to provide an adequate facility. One of the primary issues to provide a fully operational facility is the distance from Winterhaven Colonia and the nearest County substations. The Palo Verde Fire Substation is approximately 68 miles north of the Winterhaven Colonia. The Heber Fire Substation is approximately 57 miles west of Winterhaven Colonia. In a case where assistance would be needed that cannot be provided due to limitations of the modular unit, assistance from a neighboring substation would not arrive for an hour at a minimum after receiving the call. Also, as the personnel utilize the facility for housing while on duty, it is essential that proper living conditions and amenities be available in the facility. For example, a letter from the Imperial County Fire Chief notes the need for restroom and shower facilities. This could be considered a possible health issue as lack of proper hygiene can impact the health of firefighters. Especially after returning from a fire incident, firefighters need to shower to wash off soot and any other harmful materials.

The modular unit occupies a portion of the project site at 518 Railroad Avenue in Winterhaven. Two metal canopies are also located on the site to provide shade for parked fire vehicles (see photo on previous page). The modular unit provides an interim solution to address existing inadequacies facing the ICFD Substation. However, a permanent facility is need to provide adequate accommodations for firefighters (e.g. showers).

In addition to the County Fire Substation, the County also has a Sheriff's Office Substation in the Winterhaven Colonia located at 513 2nd Avenue (one block west of the project site). The current facility housing the Imperial County Sheriff's Office (ICSO) poses a health threat to the staff and residents. A large amount of mold was found in the building during an inspection conducted by Imperial County Facilities Management. The presence of mold has resulted in closure of portions of this facility. The Sheriff's Office also indicated that the sewer system is in constant need of repairs and the water coming from the faucet is brown and undrinkable.

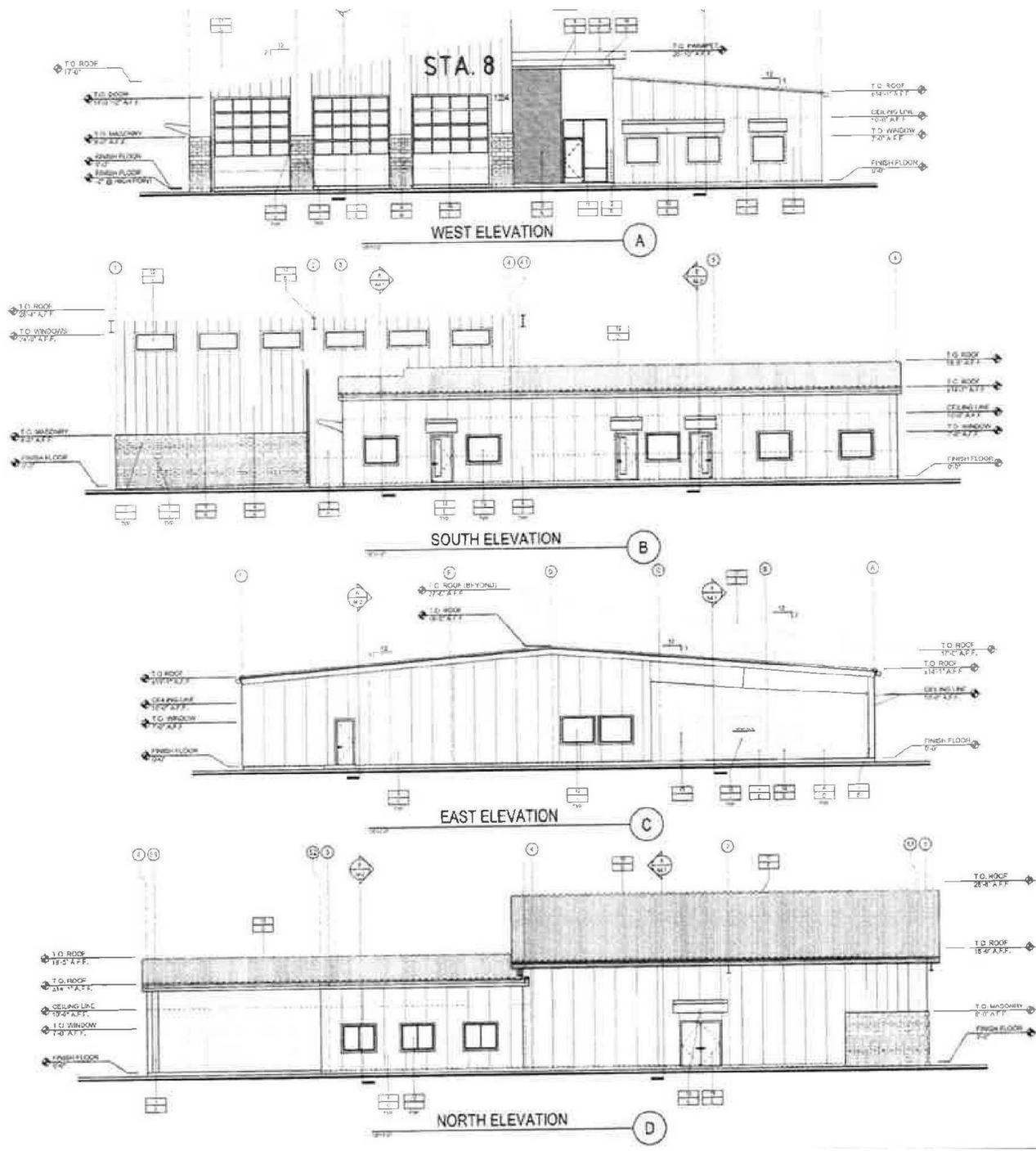
Another issue raised in association with Sheriff's Office Substation was the poor condition of the roof which leaks and is requires repairs after every rainfall. These conditions are signs of that the facility is dilapidated. If the building continues to deteriorate, the Sheriff's Office will need to vacate the building. Therefore, it is in the best interest of the well-being of the Sheriff's Office personnel that a safe environment be provided for these employees and the public needing their services. The goal is to construct a facility that will be shared by both the ICFD and the ICSO.

The ICFD will have 4 firemen occupying the Substation and ICSO will staff 15 employees with the highest average of 6 employees at one time. This would bring the County staff occupancy to 10 employees at a time (Padilla, pers. comm. 2017).

The ICFD Substation responded to approximately 900 calls for service in 2016. The ICSO Substation averages 5,100 calls for service each year (Padilla, pers. comm. 2017).

Description of the Proposal: Include all contemplated actions which logically are either geographically or functionally a composite part of the project, regardless of the source of funding. [24 CFR 58.32, 40 CFR 1508.25]

The proposed project is intended to be a shared facility for the County Fire Substation and the Imperial County Sheriff's Office Substation located at 518 Railroad Avenue in the Winterhaven Colonia. The property is owned by the County. Currently, the ICFD is working out of a modular unit located at this site. The County proposes to construct a new facility on this site to be utilized equally as a County Fire Substation and Sheriff's Office Substation. The facility will be a pre-engineered metal building approximately 9,603 square feet (see elevations on following page). Of the total square footage of the building, approximately 5,280 square feet will be dedicated to the County Fire Substation and the other 4,323 will be occupied by the Sheriff's Office Substation. In addition to the new facility, this project will also include a parking lot, sidewalks, driveways, and perimeter fencing. Construction for the project is tentatively scheduled for 2017 with an approximate construction length of 8 months.



Existing Conditions and Trends: Describe the existing conditions of the project area and its surroundings, and trends likely to continue in the absence of the project. [24 CFR 58.40(a)]

The proposed project site at 518 Railroad Avenue is located in the Winterhaven Colonia, a small urban area in an unincorporated portion of southeastern Imperial County. The Colonia is surrounded on the west, east and north by Indian Reservation land.

Single-family residential units surround the site on the north, east and a four-unit apartment borders the site on the south. A vacant lot is to the west (see Site Map below).



The area surrounding the project site is characterized by rural residential development, mobile homes and empty lots. There are no sidewalks, curbs, gutters or street lights in the Winterhaven Colonia.

Access to the site would be from the west off Railroad Avenue. Regional access is provided by Interstate 8 (West Winterhaven Drive) approximately 350 feet south of the site off Railroad Avenue (see Access Map below).



Statutory Checklist

[24CFR §58.5]

Record the determinations made regarding each listed statute, executive order or regulation. Provide appropriate source documentation. [Note reviews or consultations completed as well as any applicable permits or approvals obtained or required. Note dates of contact or page references]. Provide compliance or consistency documentation. Attach additional material as appropriate. Note conditions, attenuation or mitigation measures required.

Factors	Determination and Compliance Documentation
<p>Historic Preservation [36 CFR 800]</p>	<p>The project site is not listed in the CA Historic Sites Database or the National Register of Historical Places Databased. (Refer to Attachment A, EDR NEPACheck, p. 2 and p. 68). All work will be done within previously disturbed areas at 518 Railroad Avenue. Construction workers, vehicles and staged materials will be monitored to ensure that project boundaries are maintained and that no areas outside of the project site disturbed. The likelihood of encountering cultural resources at the project site is low. However, as with any project involving earthmoving activities, the potential exists to uncover unknown subsurface cultural resources or human remains. Mitigation Measures CUL-1, CUL-2, and CUL-3 would be implemented if any previously unknown resources or human remains are discovered during construction.</p>
<p>Floodplain Management [24 CFR 55, Executive Order 11988]</p>	<p>The project site is within the 500-year flood zone per FEMA FIRM Map No 06025C2250C (Refer Attachment A, EDR NEPACheck, p. 72-73 [Flood Plain Map and Flood Plain Map Findings] and Attachment B, FEMA FIRM). The 500-year floodplain is the boundary of the flood that has a 0.2-percent chance of being equaled or exceeded in any given year (i.e. 0.2-percent annual chance floodplain). Potential for flooding at the project site is very low.</p>
<p>Wetlands Protection [Executive Order 11990]</p>	<p>No wetlands are located on or within 1/8-mile of the project site based on a search of the National Wetlands Inventory. (Refer to Attachment A EDR NEPACheck, p. 74 and pp. 75-81). The project would have no impact on a wetland. The site has been previously disturbed and a portion is currently occupied by a leased modular unit temporarily housing the ICFD Substation and parking for ICFD vehicles.</p>
<p>Coastal Zone Management Act [Sections 307(c),(d)]</p>	<p>The Winterhaven Colonia is located approximately 150 miles east of the California Coast. (Refer to Attachment C, Project Site Location Map). The project would have no impact on a Coastal Zone.</p>
<p>Sole Source Aquifers [40 CFR 149]</p>	<p>EPA Region 9 (Pacific Southwest) includes California, Arizona, Nevada and the Hawaiian Islands. No sole source aquifers are located beneath or in proximity to the project site (Refer to Attachment D Map of Region 9 Sole Source Aquifers in California).</p>

Factors

Determination and Compliance Documentation

<p>Endangered Species Act [50 CFR 402]</p>	<p>Based on a search of the California Natural Diversity Database, areas within a 1-mile radius of the project site contain threatened or endangered species or critical habitat. However, based on the Natural Areas Map, none of the species are located on the project site. (Refer to Attachment A, EDR NEPACheck, page 3 Natural Areas Map, and pp. 4-66, Natural Areas Map Findings of EDR NEPACheck). The site is highly disturbed and a portion is currently occupied by a leased modular unit temporarily housing the ICFD Substation and parking for ICFD vehicles. A monitor will be present during construction to ensure that any birds or other wildlife are properly protected or avoided.</p>
<p>Wild and Scenic Rivers Act [Sections 7 (b), (c)]</p>	<p>California has approximately 189,454 miles of rivers. Of this total, approximately 1,999.6 miles are designated as wild and scenic. None of these rivers align through Imperial County. (Refer to Attachment E, California Wild and Scenic River System and Management Agencies).</p>
<p>Air Quality [Clean Air Act, Sections 176 (c) and (d), and 40 CFR 6, 51, 93]</p>	<p>Imperial County has been designated as a nonattainment area for both ozone and PM₁₀ (fugitive dust, 10 micrometers or less) standards. Construction of the project could result in a temporary increase in PM₁₀ in association with demolition, clearing and grubbing, grading and excavation. The total area to be disturbed is 1.07 acres including 0.99 acres on site and 0.08 acres off-site (Padilla, pers. comm., 2017). The project also requires 2,000 cubic yards of import fill and 2,995 cubic yards of export fill for the building pad, flatwork and retention basins (Dynamic Consulting Group 2016). The Imperial County Air Pollution Control District (ICAPCD) has construction emissions thresholds of 150 pounds per day (lbs/day) for PM₁₀ and PM_{2.5}; 75 lbs/day for Nitrogen Oxide (NO_x); 100 lbs/day for Carbon Monoxide (CO); and 500 lbs/day for Reactive Organic Gases (ROG) (ICAPCD 2007, p. 19). Due to size (approximately one acre) and duration of the project (approximately 8 months with grading activities occurring during the first few weeks of construction), no significant emissions of ozone precursors or other criteria pollutants would occur (i.e. ICAPCD thresholds would not be exceeded). Operation of the proposed Winterhaven Public Safety Facility would not result in the generation of significant quantities of ozone precursors, or PM₁₀. Although the project is expected to be well below emission thresholds and no significant air quality impacts are anticipated, the project will utilize standard dust suppression measures to further minimize dust generation during project construction (demolition of existing slab, clearing and grubbing, excavation and earthwork) (see Mitigation Measure AQ-1). The project site will be paved and the amount of operational traffic is not anticipated to increase as the Winterhaven Public Safety Facility would merely re-locate and combine the existing ICFD and ICSD substations rather than adding a new substation to the service areas. Maximum employees at the facility at one time would be 10 (Padilla, pers., comm. 2017) which would not result in substantial vehicle trip emissions during operation. Documentation: ICAPCD CEQA Air Quality Handbook 2007.</p>

Factors	Determination and Compliance Documentation
Farmland Protection Policy Act [7 CFR 658]	<p>Based on the "Imperial County Important Farmland 2010 Map" (Refer to Attachment F) prepared by the California Department of Conservation, the project site is designated as "Urban and Built-Up Land." The project site is not located within an area designated as Prime, Unique or Farmland of Statewide Importance. The project would not result in any adverse impacts with regard to the Farmland Protection Policy Act. Documentation: Imperial County Important Farmland 2010 Map.</p>
Environmental Justice [Executive Order 12898]	<p>The project site is suitable for the proposed Winterhaven Public Safety Facility. The project will not result in a disproportionately high or adverse human health or environmental impact on a minority population, low-income population or Indian tribe, because there is no disproportionate impact from one or more environmental hazards and no health risks present in association with the proposed project. On the contrary, the project would provide adequate housing and facilities for the ICFD and ICSD.</p>

HUD Environmental Standards Determination and Compliance Documentation

Noise Abatement and Control [24 CFR 51 B]	<p>An increase in noise levels would occur during project construction in association with equipment and material deliveries, demolition, workers, etc. Noise associated with site preparation to install the pre-engineered metal building, paving, driveways, fencing, etc., would be temporary (8 months) and would be subject to Mitigation Measures NOI-1, NOI-2 and NOI-3 to ensure compliance with the Imperial County Noise Ordinance. Once operational, an increase in noise may occur as first responders leave the Substation. ICFD use of sirens are based on the surrounding traffic and intersections, time of day and general area (rural vs. urban). The Winterhaven Public Safety Facility is proposed in an area that is not congested. Accordingly, the use of the sirens will be minimal with no noticeable increase in ICFD siren use than previous to date in association with the temporary ICFD Substation currently occupying a portion of the project site. In an emergency, ICSDO patrol vehicles will sound sirens immediately after leaving the property of the Substation in keeping with department policy and state law (Padilla, pers. comm. 2017). However, the existing ICFO Substation at 513 2nd Avenue is also located in the Winterhaven Colonia just one block west of the project site. Thus, residents would not be anticipated to notice an increase in siren noise, only a change in location from the existing facility to the new location at 518 Railroad Avenue. Documentation: Imperial County General Plan Noise Element, 1993.</p>
Toxic/Hazardous/ Radioactive Materials, Contamination, Chemicals or Gases [24 CFR 58.5(i)(2)]	<p>The project site is located in the Winterhaven Colonia. The Colonia is a small urban area characterized by residential uses and surrounded by undeveloped land (Indian Reservation) in unincorporated southeastern Imperial County. The project involves construction of a pre-engineered 9,603 square foot metal building to house the County Fire Substation and Sheriff's Office Substation; a parking lot; sidewalks; driveways and perimeter fencing. None of the processes associated with</p>

HUD Environmental Standards Determination and Compliance Documentation

<p>Toxic/Hazardous/ Radioactive Materials, Contamination, Chemicals or Gases (Con't) [24 CFR 58.5(i)(2)]</p>	<p>construction or operation of the project would result in the routine transport, use, or disposal of hazardous materials. Further, the project does not propose the handling of hazardous or acutely hazardous materials, substances or waste. No recognized hazardous conditions are present that would create a significant hazard to the public or the environment as a result of the project. (Refer to EDR NEPACheck [Attachment A])</p>
<p>Siting of HUD-Assisted Projects near Hazardous Operations [24 CFR 51 C]</p>	<p>The location of the proposed project is not found on a list of hazardous materials sites nor were any hazardous materials sites identified on or proximate to the project site (Refer to EDR NEPACheck Attachment A)</p>
<p>Airport Clear Zones and Accident Potential Zones [24 CFR 51 D]</p>	<p>No airports are located within a 1 mile radius of the project site (Refer to Attachment A, EDR NEPACheck, p. 3). The closest airport to the project site is the Yuma International Airport located approximately 5.25 miles to the southeast. The project would not interfere with any airport clear zones or accident potential zones.</p>

Environmental Assessment Checklist

[Environmental Review Guide HUD CPD 782, 24 CFR 58.40; Ref. 40 CFR 1508.8 & 1508.27]

Evaluate the significance of the effects of the proposal on the character, features and resources of the project area. Enter relevant base data and verifiable source documentation to support the finding. Then enter the appropriate impact code from the following list to make a determination of impact. **Impact Codes:** (1) - No impact anticipated; (2) - Potentially beneficial; (3) - Potentially adverse; (4) - Requires mitigation;

(5) - Requires project modification. Note names, dates of contact, telephone numbers and page references. Attach additional material as appropriate. Note conditions or mitigation measures required.

Land Development	Code	Source or Documentation
Conformance with Comprehensive Plans and Zoning	1	The project would result in construction and operation of a combined County Fire Substation and Sheriff's Office Substation at 518 Railroad Avenue in the Winterhaven Colonia. The Colonia has been designated as an "Urban Area" (Refer to Attachment G) in the Land Use Element of the Imperial County General Plan (adopted November 9, 1993), which encompasses approximately 200 acres (Imperial County Land Use Element 1993, Revised 2008, p. 5). The site is zoned C-2, General Commercial. The project would conform to the development standards as set out under Title 9: Division III Land Use Ordinances. According to the County's Zoning Code, the project is a principally permitted use (Fire/Police Station) in the C-2 zone and would be consistent with development patterns allowed in the Winterhaven Urban Area. Therefore, the proposed project would not conflict with land use plans and policies. Documentation: Imperial County General Plan Land Use Element 2008, p. 5)
Compatibility and Urban Impact	2	The proposed project would be sited on a single parcel surrounded by residential uses. The physical arrangement of the surrounding land uses would not be affected through construction and operation of the proposed Winterhaven Public Safety Facility. The project is urgently needed to provide adequate housing for ICFD and Sheriff's Office staff.
Slope	1	The project site is flat and has been previously graded and has an existing slab on grade that will be removed. The site is not adjacent to any slopes.
Erosion	1	Construction of the proposed improvements could result in a temporary increase in erosion and sedimentation from soil disturbance at the project site, including import (2,000 cubic yards) and export (2,995 cubic yards) fill. The proposed project would be required to comply with the grading and erosion control regulations set forth by the County of Imperial. In addition, a Storm Water Pollution Prevention Plan (SWPPP) would be prepared in accordance with National Pollutant Discharge Elimination System (NPDES) regulations. Best Management Practices (BMPs) would be implemented during construction (Mitigation Measure HYD-1) as well thereby mitigating any anticipated impacts from erosion.
Soil Suitability	1	On-site soils are suitable for the proposed project as evidenced by prior development that has occurred on the site (i.e. existing slab on grade).

Land Development

Code

Source or Documentation

<p>Hazards and Nuisances including Site Safety</p>	<p>1</p>	<p>The proposed project would not create any hazards or nuisances. The proposed Winterhaven Public Safety Facility would provide facilities for co-location of the County Fire Substation and Sheriff's Office Substation. No site safety issues are present.</p>
<p>Energy Consumption</p>	<p>2</p>	<p>The project is a 9,603-square foot pre-engineered metal building. Energy consumption would occur in association with heating and lighting the structure on a 24-hour basis, 365 days of the year. However, based on the size of the facility, the small number of employees at any given time (ten) and the use of energy efficient lighting and appliances, energy consumption is not anticipated to be substantial or wasteful. Moreover, the proposed project would upgrade existing, substantial facilities currently being used which likely require more energy to operate based on outdated and inefficient design.</p>
<p>Noise - Contribution to Community Noise Levels</p>	<p>1</p>	<p>There will be a slight increase in noise levels during project construction in association with heavy equipment, delivery of materials, and worker vehicle trips. Heavy equipment used during the grading and construction activities may generate some ground vibration. When the construction equipment is operating, nearby residences could be disturbed as noise levels would temporarily increase. However, construction would be temporary (8 months) and would be subject to Mitigation Measures NOI-1, NOI-2 and NOI-3 to ensure compliance with the Imperial County Noise Ordinance (7 a.m. to 7 p.m. Monday through Friday, 9 a.m. to 5 p.m. Saturdays; no construction is allowed on Sundays or holidays). Once operational, an increase in noise may occur as first responders leave the Substation. ICFD use of sirens are based on the surrounding traffic and intersections, time of day and general area (rural vs. urban). The Winterhaven Public Safety Facility is proposed in an area that is not congested. Accordingly, the use of the sirens will be minimal with no noticeable increase in ICFD siren use than previous to date in association with the temporary ICFD Substation currently occupying a portion of the project site. In an emergency, ICSO patrol vehicles will sound sirens immediately after leaving the property of the Substation in keeping with department policy and state law (Padilla, pers. comm. 2017). However, the existing ICFO Substation at 513 2nd Avenue is also located in the Winterhaven Colonia just one block west of the project site. Thus, residents would not be anticipated to notice an increase in siren noise, only a change in location from the existing facility to the new location at 518 Railroad Avenue. No ground vibration or excessive noise increases would occur once the facility is operational as fire trucks would be driven on paved roads and driveways. The proposed Winterhaven Public Safety Facility will be located on the same site that is currently occupied by a modular facility used to temporarily house the ICFD. Once operational, the proposed project is not</p>

Land Development	Code	Source or Documentation
		anticipated to result in substantial increases in existing noise levels from ongoing operations of the temporary facility. However, there would be a few more trips and personnel on site with the addition of the Sheriff's Office at this location. Documentation: Imperial County General Plan Noise Element, 1993.
Air Quality Effects of Ambient Air Quality on Project and Contribution to Community Pollution Levels	1	Although the project is expected to be well below emission thresholds and no significant air quality impacts are anticipated, the project will utilize standard dust suppression measures to further minimize dust generation during project construction (Mitigation Measure AQ-1). No long-term operational emissions are associated with the project as it represents combining two existing facilities (the ICFD Substation and the ICSO Substation) into one location rather than adding an additional facility. No new employees will be hired, and ten employees from both agencies are proposed to staff the facility at any one time. As such, there will not be an increase in vehicle trip emissions once the project is operational.
Environmental Design Visual Quality - Coherence, Diversity, Compatible Use and Scale	1	The proposed project includes a 9,603-square foot pre-engineered metal building, parking lot, sidewalks, driveways and perimeter fencing. The site is surrounded by residential uses in the Winterhaven Colonia. The project site is not within the view of any officially designated scenic vistas or scenic highways. No trees, rock outcroppings or historic buildings would be disturbed or removed to accommodate the proposed project as the site was previously developed. No adverse changes to existing scenic views or vistas are expected to occur from the implementation of the proposed project. Rather, the project would replace the existing temporary modular structure that is currently on a portion of the project site.

Socioeconomic	Code	Source or Documentation
Demographic Character Changes	1	The proposed project would place a new Public Safety Facility co-locating the ICFD and ICSO Substations in the Colonia of Winterhaven. The proposed project would not result in any changes to the demographic character of the Colonia.
Displacement	1	The site is currently vacant aside from a concrete pad and a leased modular structure used to temporarily house the ICFD on a portion of the site. Construction of the proposed project would replace the temporary modular structure but would not involve the displacement of any housing, business, or people.

Socioeconomic	Code	Source or Documentation
Employment and Income Patterns	1	The proposed project would co-locate ICFD personnel and ICSD personal in a single public safety facility. Existing employees from the two existing separate facilities would be relocated to this facility. The ICFD will have 4 firemen occupying the Winterhaven Public Safety Facility and the ICSD will staff 15 employees with the highest average of 6 employees at one time. This would bring the County staff occupancy to 10 employees at a time (Padilla, pers. comm. 2017). No additional employees would be hired to occupy the facility. A few short-term construction jobs would occur would be generated for approximately 8 months. The minimal number and temporary nature of the construction employment would not create a substantial increase in population in the project area. Therefore, on an overall basis, the proposed project would have no effect on employment and income patterns.

Community Facilities and Services	Code	Source or Documentation
Educational Facilities	1	The proposed Winterhaven Public Safety Facility would not generate population growth and therefore would not place a new demand on schools. The project would not construct new permanent housing or induce population growth necessitating the need for new or expanded educational facilities. Therefore, the project would have no effect on educational facilities.
Commercial Facilities	1	The proposed Winterhaven Public Safety Facility consists of a 9,603-square foot pre-engineered metal building, parking lot, sidewalks, driveways and perimeter fencing. The project would not induce population growth creating the need for more commercial facilities. Therefore, the project would have no effect on commercial facilities.
Health Care	1	The proposed project is construction of the Winterhaven Public Safety Facility. The project would not affect health care service in Imperial County.
Social Services	1	The proposed project is construction of the Winterhaven Public Safety Facility. The project would not affect social services in Imperial County.
Solid Waste	1	The proposed project is construction of the Winterhaven Public Safety Facility. Based on the nature of the project and limited staff occupancy (i.e. ten staff) the facility would not generate large quantities of solid waste. Trash and wastepaper generated by the facility would be disposed of at a local landfill.

**Community Facilities
and Services**

Code

Source or Documentation

<p>Waste Water</p>	<p>1</p>	<p>The proposed Winterhaven Public Safety Facility would connect to the existing Winterhaven Waste Water System served by the Winterhaven County Water District (WCWD). The WCWD currently serves the existing temporary ICFD Substation; previously served the old Winterhaven Fire Protection Facility located at 495 3rd Avenue; and currently serves the ICSO Substation located at 513 2nd Avenue. Through the same grant that will fund the proposed project, improvements will be made to the WCWD facility to make it more efficient (Padilla, pers. comm., 2017). The proposed project will have the same types of accommodations (e.g. washing machine, showers, etc.) as currently exist at the temporary modular unit and no increase in staffing will occur to increase wastewater generation or adversely impact the capacity of the wastewater treatment plant.</p>
<p>Storm Water</p>	<p>1</p>	<p>The project would increase the amount of impervious surface (asphalt concrete, sidewalk, building, masonry wall, etc.) covering the site. The project would also install curb, gutter and driveways. The project includes two on-site retention basins: a 5,213-square foot (sq. ft.) basin in the southern portion of the site; and a 1,750 sq. ft. basin the northeastern corner of the site. The total capacity of the on-site basins is 15,680-cubic feet. Another 2,872 sq. ft of on-site retention is also proposed. Based on the provision of on and off-site retention, no impacts to storm water runoff or containment would occur. Documentation: Dynamic Consulting Engineers 2016.</p>
<p>Water Supply</p>	<p>1</p>	<p>The WCWD currently provides water service to the temporary ICFD Substation as well as the current ICSO Substation located at 513 2nd Avenue. Long-term water connections were installed simultaneous with the temporary connections installed to serve the existing modular unit that houses the ICFD Substation. The proposed project includes extension of a 2-inch water line, a 1-inch irrigation line and a 6-inch fire service line. Extension of these lines will provide adequate water supply to the project. The WCWD served the previous Winterhaven Fire Protection facility, which was larger than the current modular unit. Thus, the proposed project will likely demand less water. The WCWD facility has two 100,000-gallon water storage tanks and obtains water from two groundwater wells (Padilla, pers. comm., 2017). Through the same grant, improvements will be made to the WCWD facility to make it more efficient. Based on the provision of water infrastructure, improvements to the WCWD facility and adequate groundwater, no impacts to water supply would occur.</p>

**Community Facilities
and Services**

Code

Source or Documentation

<p>Public Safety - Police</p>	<p>1</p>	<p>The project would provide a new facility for the ICSO Substation, replacing the deteriorating facility at 513 2nd Avenue. The improved facility will allow the ICSO to function more efficiently while providing proper accommodations for staff. The project would not increase the demand on the County Sheriff's Office.</p>
<p>- Fire</p>	<p>1</p>	<p>The project would provide a new permanent facility for the ICFD in Winterhaven, replacing the current modular unit that is temporarily housing the ICFD Substation. The project would not increase the demand on the ICFD.</p>
<p>- Emergency Medical</p>	<p>1</p>	<p>The proposed project would co-locate County Fire Substation and Sheriff's Office Substation in the Winterhaven Colonia in a single public safety facility providing first-responders. The project would not generate increased demand for emergency medical services and no impact would occur to this service.</p>
<p>Open Space and Recreation - Open Space</p>	<p>1</p>	<p>The proposed project would co-locate the County Fire Substation and Sheriff's Office Substation in the Winterhaven Colonia. The project site does not support recreational use, nor is it planned for future recreational use. Additionally, the project would not require construction or expansion of recreational facilities.</p>
<p>- Recreation</p>	<p>1</p>	<p>The proposed project would co-locate the County Fire Substation and Sheriff's Office Substation in the Winterhaven Colonia. The proposed project would not induce population growth; therefore, the project would not increase the use of existing neighborhood and regional parks or other recreational facilities.</p>
<p>- Cultural Facilities</p>	<p>1</p>	<p>The proposed project would co-locate the County Fire Substation and Sheriff's Office Substation in the Winterhaven Colonia. As such, the proposed project would have no impact on the need for cultural facilities.</p>
<p>Transportation</p>	<p>1</p>	<p>Construction of the Winterhaven Public Safety Facility would result in a slight increase in traffic associated with material and equipment delivery and construction workers. However, these trips would not have a substantial effect on local roadways given the low volumes of traffic in the area. In addition, construction trips would cease once construction is completed. As no new firefighters or Sheriff's officers would be hired, operation of the proposed Winterhaven Public Safety Facility would not increase traffic beyond what is already occurring at the existing ICSO Substation at 513 2nd Avenue and modular unit providing temporary housing for the ICFD Substation on the project site. Operational trips associated with calls for service would now originate from one location at 518 Railroad Avenue rather than from two as the ICSO substation will co-locate with the ICFD Substation. The Winterhaven ICSO Substation has historically averaged 5,200 calls for service each year while the ICFD Substation responded to approximately 900 calls (Padilla, pers. comm., 2017). The proposed project does not include any aviation components, nor would it cause any aviation safety</p>

		risks. Therefore, the proposed project would not result in a change of air traffic patterns or result in substantial safety risks.
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Natural Features	Code	Source or Documentation
Water Resources	1	The project will be served by the WCWD which obtains its water supply from two groundwater wells (Padilla, pers. comm., 2017). The project will not increase demand for water resources. The Winterhaven Public Safety Facility will have similar features currently present in the modular unit (washing machines, showers). No increase in employees or demand for water will occur with co-locating ICSO and ICFD staff at the Winterhaven Public Safety Facility. The project also includes two on-site retention basins that would facilitate groundwater recharge. Therefore, the proposed project would not have a significant impact on water resources.
Surface Water	1	The project will be served by the WCWD which obtains its water supply from two groundwater wells. The project would have no impact on surface water.
Unique Natural Features and Agricultural Lands	1	The Farmland Mapping and Monitoring Program monitors conversion of the state's agricultural lands. Prime Farmland and Farmland of Statewide Importance surrounds Winterhaven Colonia. However, the proposed project would be located on "Urban and Built-Up Land" in area that has been previously disturbed. No noteworthy unique natural features are located on the project site as it has been previously disturbed.
Vegetation and Wildlife	1	Vegetation on the project site includes two trees and patches of weeds. The project site has minimal potential habitat for wildlife based on past disturbance and the presence of the existing modular unit used to temporarily house the ICFD Substation. The project is not likely to affect Federally-listed or proposed threatened and endangered species (i.e., plants, animals, fish, or invertebrates) as none were identified on the site. Documentation: EDR NEPA Check (See Attachment A, pp. 3-66 Natural Areas Map Findings).

Other Factors	Code	Source or Documentation
Flood Disaster Protection Act [Flood Insurance] [§58.6(a)]	1	The project does not involve property acquisition, land management, construction, or improvement within a 100-year floodplain identified by FEMA FIRM Map No 06025C2250C. Documentation: Attachment B, FEMA FIRM Map, and Attachment A, EDR NEPA Check, p. 72-73 (Flood Plain Map and Flood Plain Map Findings).
Coastal Barrier Resources Act/Coastal Barrier Improvement Act [§58.6(c)]	1	Winterhaven is located approximately 150 miles east of the California Coast. The project would have no impact on a Coastal Zone. Documentation: Attachment C, Project Site Location Map.
Airport Runway Clear Zone or Clear Zone Disclosure [§58.6(d)]	1	The proposed project does not include any aviation components nor would it cause any aviation safety risks; therefore it would not result in a change of air traffic patterns or result in substantial safety risks. No airports within a 1 mile radius of the project site. The closest airport is the Yuma International Airport located approximately 5.25 miles to the southeast. The project would not interfere with any airport clear zones or accident potential zones. Documentation: Attachment A, EDR NEPA Check, p. 3.
Other Factors		None applicable.

Summary of Findings and Conclusions

ALTERNATIVES TO THE PROPOSED ACTION

Alternatives and Project Modifications Considered [24 CFR 58.40(e), Ref. 40 CFR 1508.9] (Identify other reasonable courses of action that were considered and not selected, such as other sites, design modifications, or other uses of the subject site. Describe the benefits and adverse impacts to the human environment of each alternative and the reasons for rejecting it.)

Winterhaven Drive Alternative. A site on Winterhaven Drive was considered but rejected because the lot was too small to accommodate the necessary facilities. The site also had an existing building that was old and would require demolition. Based on the age of the structure, asbestos and lead paint could have been present which would have resulted in the potential for worse environmental impacts and the need for abatement. For these reasons, the Winterhaven Drive Alternative was rejected.

D Street Alternative. A lot on D Street was also considered for siting the Winterhaven Public Safety Facility. However, this lot was not large enough to accommodate the proposed structure. As a result, it was rejected from further consideration.

No Action Alternative [24 CFR 58.40(e)]

(Discuss the benefits and adverse impacts to the human environment of not implementing the preferred alternative).

Under the No Action Alternative, the proposed Winterhaven Public Safety Facility would not be constructed and the current temporary modular unit would continue to be located at 518 Railroad Avenue accommodating only the ICFD. The existing ICSO Substation would continue to operate out of a building with numerous inadequacies and safety issues.

The only potential adverse impacts that the proposed project would have on the human environment are temporary construction-related impacts, specifically noise and dust generated during construction. The No Action Alternative would eliminate the short-term impacts of construction noise, construction dust, potential for erosion and discovery of unknown cultural resources. However, the serious health and safety issues that the proposed project is designed to alleviate for the ICFD and ICSO would continue. Overall, the long-term health and safety benefits of the project outweigh the temporary construction-related impacts.

Mitigation Measures Recommended [24 CFR 58.40(d), 40 CFR 1508.20]

(Recommend feasible ways in which the proposal or its external factors should be modified in order to minimize adverse environmental impacts and restore or enhance environmental quality.)

Mitigation Measure AQ-1: During clearing, grading, earth moving, or excavation operations, excessive fugitive dust emissions shall be controlled by the following techniques:

- Prepare a high wind dust control plan and implement plan elements and terminate soil disturbance when winds exceed 25 mph.
- Limit the simultaneous disturbance area to as small an area as practical when winds exceed 25 mph.
- Stabilize previously disturbed areas if subsequent construction is delayed.
- Water exposed surfaces and haul roads 3 times per day.
- Cover all stock piles with tarps.
- Replace ground cover in disturbed areas quickly.
- Reduce speeds on unpaved roads to less than 15 mph.

Mitigation Measure CUL-1: Should archaeological resources be encountered during construction of the project, all work in that area shall be halted and a qualified archaeologist shall be summoned and shall have the authority to halt and redirect construction until the significance of the find can be determined. If the resource is determined to be significant, a recovery and catalog program shall be implemented.

Mitigation Measure CUL-2: Should artifacts or items of potential paleontological significance be discovered during the project construction activities, all work in that area shall be halted and a qualified paleontologist shall be summoned to the site to evaluate the find. If the resource is determined to be significant, a recovery and catalog program shall be implemented.

Mitigation Measure CUL-3: If human remains are uncovered during project construction, State Health and Safety Code Section 7050.5 states that no further disturbance shall occur in the immediate area until the County Coroner has made the necessary findings as to origin and disposition pursuant to Public Resources Code Section 5097.98. If the coroner recognizes the human remains to be those of a Native American, or has reason to believe that they are those of a Native American, he or she shall contact, by telephone within 24 hours, the State Native American Heritage Commission (NAHC) who will then contact the appropriate tribal representative.

Mitigation Measure NOI-1: During construction, the project shall be subject to noise control via implementation of the County of Imperial Noise Ordinance.

Mitigation Measure NOI-2: Construction equipment operation shall be limited to the hours of 7 a.m. to 7 p.m., Monday through Friday, and 9 a.m. to 5 p.m. Saturday. No commercial construction operations are permitted on Sunday or holidays.

Mitigation Measure NOI-3: No construction equipment, or combination of equipment regardless of age or date of acquisition, shall be operated so as to cause noise at a level in excess of seventy-five (75) decibels for more than eight (8) hours during any twenty-four (24) hour period when measured at or within the property lines of any property which is developed and used either in part or in whole for residential purposes.

Mitigation Measure HYD-1: To mitigate impacts from short-term erosion and discharge of pollutants, best management practices (BMPs) would be implemented. Construction BMPs shall include, but may not be limited to the following:

- Store stockpiled materials and wastes under a roof or plastic sheeting;
- Berm around stockpile/storage areas to prevent contact with runoff;
- Perform major maintenance, repair and vehicle and equipment washing off-site or in designated and controlled areas on-site;
- Sweep up spilled dry construction materials (e.g. cement) immediately: water will not be used to wash away these materials.
- Clean up liquid spills on paved or impermeable surfaces using "dry" clean-up methods (e.g. absorbent materials, cat litter, rags) and dispose of clean-up materials properly.

Additional Studies Performed

(Attach studies or summaries)

None.

List of Sources, Agencies and Persons Consulted [40 CFR 1508.9(b)]

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- Imperial County Air Pollution Control District. 2007. *2007 ICAPCD CEQA Handbook for the Preparation of Air Quality Impact Assessments*. November 2007.
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ATTACHMENT A

EDR REPORT

Winterhaven

518 Railroad Avenue
Winterhaven, CA 92283

Inquiry Number: 4847962.1s
February 07, 2017

EDR NEPACheck®



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EDR NEPACheck® DESCRIPTION

The National Environmental Policy Act of 1969 (NEPA) requires that Federal agencies include in their decision-making processes appropriate and careful consideration of all environmental effects and actions, analyze potential environmental effects of proposed actions and their alternatives for public understanding and scrutiny, avoid or minimize adverse effects of proposed actions, and restore and enhance environmental quality as much as possible.

The EDR NEPACheck provides information which may be used, in conjunction with additional research, to determine whether a proposed site or action will have significant environmental effect.

TARGET PROPERTY ADDRESS

WINTERHAVEN
518 RAILROAD AVENUE
WINTERHAVEN, CA 92283

Inquiry #: 4847962.1s
Date: 2/7/17

TARGET PROPERTY COORDINATES

Latitude (North):	32.739391 - 32° 44' 21.8"
Longitude (West):	114.634361 - 114° 38' 3.7"
Universal Transverse Mercator:	Zone 11
UTM X (Meters):	721666.4
UTM Y (Meters):	3624682.0

The report provides maps and data for the following items (where available). Search results are provided in the Map Findings Summary on page 2 of this report.

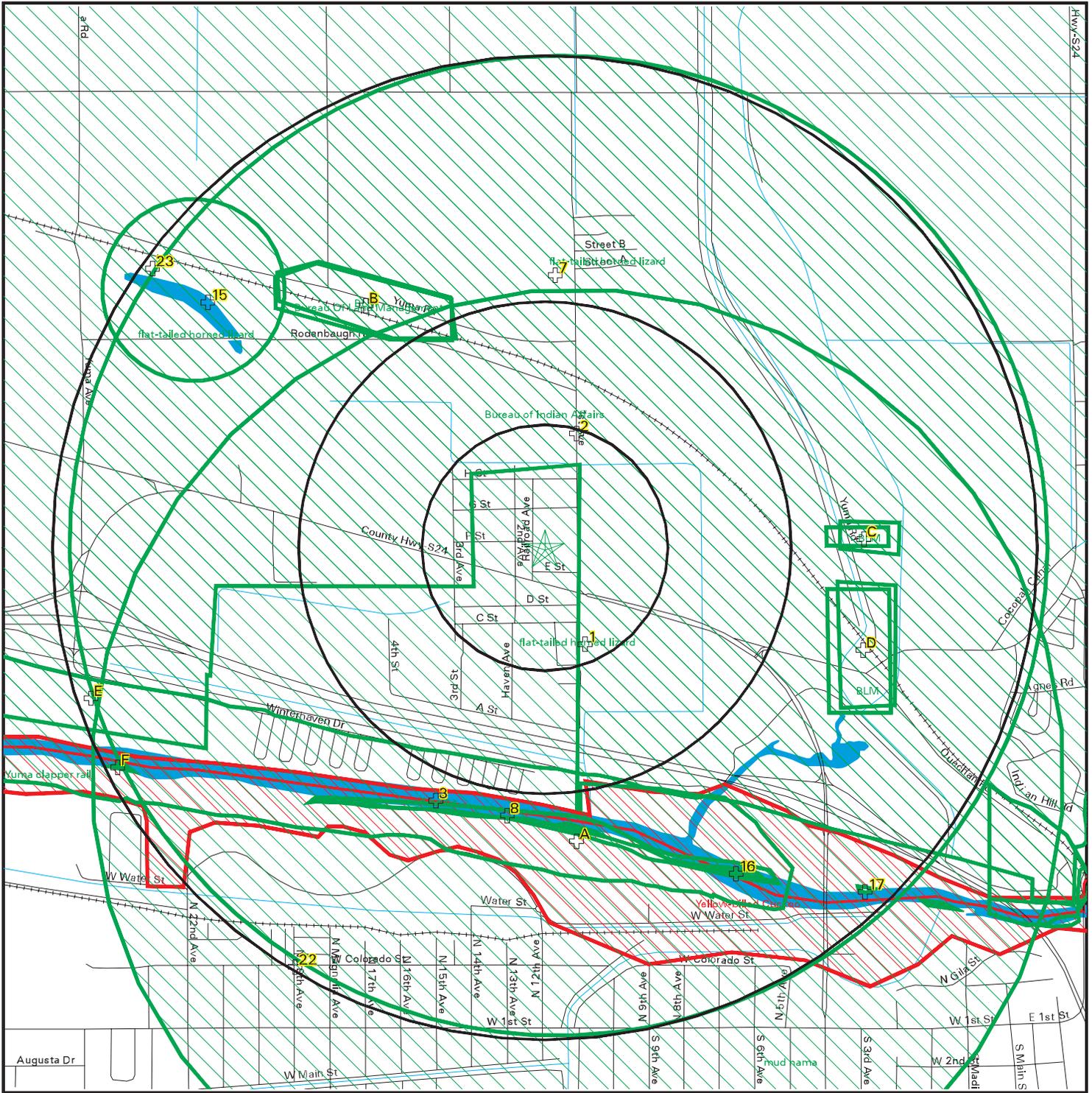
Section	Regulation
Natural Areas Map	
• Federal Lands Data:	
- Officially designated wilderness areas	47 CFR 1.1307(1)
- Officially designated wildlife preserves, sanctuaries and refuges	47 CFR 1.1307(2)
- Wild and scenic rivers	40 CFR 6.302(e)
- Fish and Wildlife	40 CFR 6.302
• Threatened or Endangered Species, Fish and Wildlife, Critical Habitat Data (where available)	47 CFR 1.1307(3); 40 CFR 6.302
Historic Sites Map	
• National Register of Historic Places	47 CFR 1.1307(4); 40 CFR 6.302
• State Historic Places (where available)	
• Indian Reservations	
Flood Plain Map	
• National Flood Plain Data (where available)	47 CFR 1.1307(6); 40 CFR 6.302
Wetlands Map	
• National Wetlands Inventory Data (where available)	47 CFR 1.1307(7); 40 CFR 6.302
FCC & FAA Map	
• FCC antenna/tower sites, FAA Markings and Obstructions, Airports, Topographic gradient	47 CFR 1.1307(8)
Key Contacts and Government Records Searched	

MAP FINDINGS SUMMARY

The databases searched in this report are listed below. Database descriptions and other agency contact information is contained in the Key Contacts and Government Records Searched section on page 88 of this report.

Applicable Regulation from 47 CFR/FCC Checklist	Database	Search Distance (Miles)	Within Search	Within 1/8 Mile
<u>NATURAL AREAS MAP</u>				
1.1307a (1) Officially Designated Wilderness Area	US Federal Lands	1.00	NO	NO
	US Wilderness Preservation	1.00	NO	NO
1.1307a (2) Officially Designated Wildlife Preserve	US Federal Lands	1.00	NO	NO
	CA PCT Lands	1.00	YES	NO
	CA Conservation Easement	1.00	NO	NO
	CA Protected Areas	1.00	YES	NO
	CA ACEC	1.00	NO	NO
	US NCED	1.00	NO	NO
	US ACEC	1.00	NO	NO
	US Scenic River	1.00	NO	NO
	CA Land Ownership	1.00	YES	YES
	US Critical Water Habitat	1.00	NO	NO
	US Critical Land Habitat	1.00	YES	NO
1.1307a (3) Threatened or Endangered Species or Critical Habitat	US Endangered Species	County	YES	N/A
1.1307a (3) Threatened or Endangered Species or Critical Habitat	CA Endangered Species	1.00	YES	YES
<u>HISTORIC SITES MAP</u>				
1.1307a (4) Listed or eligible for National Register	AZ Historic Sites	1.00	NO	NO
1.1307a (4) Listed or eligible for National Register	CA Historic Landmarks	1.00	NO	NO
	Indian Reservations	1.00	YES	YES
1.1307a (4) Listed or eligible for National Register	US Trails	1.00	NO	NO
1.1307a (4) Listed or eligible for National Register	National Register of Hist. Pla	1.00	YES	NO
<u>FLOODPLAIN MAP</u>				
1.1307 (6) Located in a Flood Plain	FLOODPLAIN	1.00	YES	YES
<u>WETLANDS MAP</u>				
1.1307 (7) Change in surface features (wetland fill)	NWI	1.00	YES	NO
	CA COASTAL ZONE	20.00	NO	NO
<u>FCC & FAA SITES MAP</u>				
	Cellular	1.00	NO	NO
	4G Cellular	1.00	NO	NO
	Antenna Structure Registration	1.00	YES	NO
	AM Antenna	1.00	NO	NO
	FM Antenna	1.00	NO	NO
	FAA DOF	1.00	NO	NO
	Airports	1.00	NO	---
	Power Lines	1.00	YES	---

Natural Areas Map



- ★ Target Property
- ⊕ Locations
- ⚡ Roads
- ▨ Federal Areas
- ⚡ County Boundary
- ⚡ Federal Linear Features
- ⚡ Waterways
- ⚡ State Areas
- Water
- ⚡ State Linear Features



SITE NAME: Winterhaven
 ADDRESS: 518 Railroad Avenue
 Winterhaven CA 92283
 LAT/LONG: 32.739392 / 114.634364

CLIENT: Ericsson-Grant Inc.
 CONTACT: Kevin Grant
 INQUIRY #: 4847962.1s
 DATE: February 7, 2017

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for IMPERIAL County

Group:Birds

Common Name: Southwestern willow flycatcher
Status: Endangered

Scientific Name: Empidonax traillii extimus

Common Name: Western snowy plover
Status: Threatened

Scientific Name: Charadrius alexandrinus nivosus

Common Name: Least Bell's vireo
Status: Endangered

Scientific Name: Vireo bellii pusillus

Common Name: Yuma clapper rail
Status: Endangered

Scientific Name: Rallus longirostris yumanensis

Group:Fishes

Common Name: Desert pupfish
Status: Endangered

Scientific Name: Cyprinodon macularius

Common Name: Razorback sucker
Status: Endangered

Scientific Name: Xyrauchen texanus

Group:Flowering Plants

Common Name: Peirson's milk-vetch
Status: Threatened

Scientific Name: Astragalus magdalenae var. peirsonii

Group:Insects

Common Name: Quino checkerspot butterfly
Status: Endangered

Scientific Name: Euphydryas editha quino (=E. e. wrighti)

Group:Mammals

Common Name: Peninsular bighorn sheep
Status: Endangered

Scientific Name: Ovis canadensis nelsoni

Group:Reptiles

Common Name: Desert tortoise
Status: Threatened

Scientific Name: Gopherus agassizii

Federal Endangered Species from the U.S. Fish and Wildlife for CA State

Group:Amphibians

Common Name: Western spadefoot
Status: Under Review

Scientific Name: Spea hammondi

Common Name: Channel Islands slender salamander
Status: Species of Concern

Scientific Name: Batrachoseps pacificus pacificus

Common Name: Limestone salamander
Status: Under Review

Scientific Name: Hydromantes brunus

Common Name: Large-blotched ensatina
Status: Species of Concern

Scientific Name: Ensatina eschscholtzii klauberi

Common Name: Oregon spotted frog

Scientific Name: Rana pretiosa

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Status: Threatened

<p>Common Name: Lowland leopard (=San Felipe leopard) frog Status: Species of Concern</p>	<p>Scientific Name: <i>Rana yavapaiensis</i></p>
<p>Common Name: Del Norte salamander Status: Species of Concern</p>	<p>Scientific Name: <i>Plethodon elongatus</i></p>
<p>Common Name: Owens Valley web-toes salamander Status: Species of Concern</p>	<p>Scientific Name: <i>Hydromantes</i> sp.</p>
<p>Common Name: Mount Lyell salamander Status: Species of Concern</p>	<p>Scientific Name: <i>Hydromantes platycephalus</i></p>
<p>Common Name: Foothill yellow-legged frog Status: Under Review</p>	<p>Scientific Name: <i>Rana boylei</i></p>
<p>Common Name: Breckenridge Mountain slender salamander Status: Species of Concern</p>	<p>Scientific Name: <i>Batrachoseps</i> sp.</p>
<p>Common Name: California tiger Salamander Status: Endangered</p>	<p>Scientific Name: <i>Ambystoma californiense</i></p>
<p>Common Name: Kern Plateau salamander Status: Under Review</p>	<p>Scientific Name: <i>Batrachoseps robustus</i></p>
<p>Common Name: Lesser slender salamander Status: Under Review</p>	<p>Scientific Name: <i>Batrachoseps minor</i></p>
<p>Common Name: Yellow-blotched ensatina Status: Species of Concern</p>	<p>Scientific Name: <i>Ensatina eschscholtzii croceator</i></p>
<p>Common Name: Northern red-legged frog Status: Species of Concern</p>	<p>Scientific Name: <i>Rana aurora aurora</i></p>
<p>Common Name: Relictual slender salamander Status: Under Review</p>	<p>Scientific Name: <i>Batrachoseps relictus</i></p>
<p>Common Name: Cascades frog Status: Under Review</p>	<p>Scientific Name: <i>Rana cascadae</i></p>
<p>Common Name: Inyo Mountains slender salamander Status: Under Review</p>	<p>Scientific Name: <i>Batrachoseps campi</i></p>
<p>Common Name: Shasta salamander Status: Under Review</p>	<p>Scientific Name: <i>Hydromantes shastae</i></p>
<p>Common Name: Arizona toad Status: Under Review</p>	<p>Scientific Name: <i>Bufo microscaphus microscaphus</i></p>
<p>Common Name: Kern Canyon slender salamander Status: Under Review</p>	<p>Scientific Name: <i>Batrachoseps simatus</i></p>
<p>Common Name: Black toad Status: Species of Concern</p>	<p>Scientific Name: <i>Bufo exsul</i></p>

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Tailed frog
Status: Species of Concern

Scientific Name: *Ascaphus truei*

Group:Arachnids

Common Name: Carlow's Cave pseudoscorpion
Status: Species of Concern

Scientific Name: *Aphrastochthonius similis*

Common Name: Hom's micro-blind harvestman
Status: Species of Concern

Scientific Name: *Microcina homi*

Common Name: Lum's micro-blind harvestman
Status: Species of Concern

Scientific Name: *Microcina lumi*

Common Name: Edgewood blind harvestman
Status: Species of Concern

Scientific Name: *Calcina minor*

Common Name: Lee's micro-blind harvestman
Status: Species of Concern

Scientific Name: *Microcina leei*

Common Name: Jung's micro-blind harvestman
Status: Under Review

Scientific Name: *Microcina jungi*

Common Name: Grubbs' cave pseudoscorpion
Status: Species of Concern

Scientific Name: *Aphrastochthonius grubbsi*

Common Name: Music Hall Cave pseudoscorpion
Status: Species of Concern

Scientific Name: *Pseudogarypus orpheus*

Common Name: Lacey's cave pseudoscorpion
Status: Species of Concern

Scientific Name: *Larca laceyi*

Common Name: Empire Cave pseudoscorpion
Status: Species of Concern

Scientific Name: *Microcreagris imperialis*

Common Name: Santa Cruz telemid spider
Status: Species of Concern

Scientific Name: *Telema* sp.

Common Name: Aalbu's cave pseudoscorpion
Status: Species of Concern

Scientific Name: *Archeolarca aalbui*

Common Name: Monterey Dunes scorpion
Status: Species of Concern

Scientific Name: *Pauroctonus maritimus*

Common Name: Tiburon micro-blind harvestman
Status: Species of Concern

Scientific Name: *Microcina tiburona*

Group:Birds

Common Name: Xantus'sMurrelet
Status: Candidate

Scientific Name: *Synthliboramphus hypoleucus*

Common Name: Spotted Towhee
Status: Species of Concern

Scientific Name: *Pipilo maculatus clementae*

Common Name: Cooper's hawk

Scientific Name: *Accipiter cooperii*

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Status: Species of Concern

Common Name: Grasshopper sparrow
Status: Species of Concern

Scientific Name: *Ammodramus savannarum* ssp. *perpallidus*

Common Name: Black-backed woodpecker
Status: Under Review

Scientific Name: *picoides arcticus*

Common Name: Tufted Puffin
Status: Under Review

Scientific Name: *Fratercula cirrhata*

Common Name: Sharp shinned hawk
Status: Species of Concern

Scientific Name: *Accipiter striatus*

Common Name: Common Yellowthroat
Status: Species of Concern

Scientific Name: *Geothlypis trichas sinuosa*

Common Name: Yuma clapper rail
Status: Endangered

Scientific Name: *Rallus longirostris yumanensis*

Common Name: Southwestern willow flycatcher
Status: Endangered

Scientific Name: *Empidonax traillii extimus*

Common Name: Southern California rufous-crowned sparrow
Status: Species of Concern

Scientific Name: *Aimophila ruficeps canescens*

Common Name: California spotted Owl
Status: Under Review

Scientific Name: *Strix occidentalis occidentalis*

Common Name: Tricolored blackbird
Status: Under Review

Scientific Name: *Agelaius tricolor*

Common Name: San Joaquin LeConte's thrasher
Status: Species of Concern

Scientific Name: *Toxostoma lecontei macmillanorum*

Common Name: Eagle Mountain scrub jay
Status: Species of Concern

Scientific Name: *Aphelocoma coerulescens cana*

Common Name: Elegant tern
Status: Species of Concern

Scientific Name: *Sterna elegans*

Common Name: Least bittern
Status: Species of Concern

Scientific Name: *Ixobrychus exilis hesperis*

Common Name: Song Sparrow
Status: Species of Concern

Scientific Name: *Melospiza melodia pusillula*

Common Name: Little willow flycatcher
Status: Species of Concern

Scientific Name: *Empidonax traillii brewsteri*

Common Name: Song Sparrow
Status: Species of Concern

Scientific Name: *Melospiza melodia samuelis*

Common Name: Large-billed savannah sparrow
Status: Species of Concern

Scientific Name: *Passerculus sandwichensis rostratus*

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Black tern
Status: Species of Concern

Scientific Name: *Chlidonias niger*

Common Name: Song Sparrow
Status: Species of Concern

Scientific Name: *Melospiza melodia maxillaris*

Common Name: Fulvous whistling duck
Status: Species of Concern

Scientific Name: *Dendrocygna bicolor*

Common Name: Belding's savannah sparrow
Status: Species of Concern

Scientific Name: *Passerculus sandwichensis beldingi*

Common Name: Bell's sage sparrow
Status: Species of Concern

Scientific Name: *Amphispiza belli belli*

Group: Conifers and Cycads

Common Name: Monterey cypress
Status: Species of Concern

Scientific Name: *Cupressus macrocarpa*

Common Name: Torrey, Del Mar pine
Status: Species of Concern

Scientific Name: *Pinus torreyana torreyana*

Common Name: Tecate cypress
Status: Species of Concern

Scientific Name: *Cupressus forbesii*

Common Name: Bolander's beach pine
Status: Species of Concern

Scientific Name: *Pinus contorta bolanderi*

Common Name: Monterey pine
Status: Species of Concern

Scientific Name: *Pinus radiata*

Common Name: Torrey Island pine
Status: Species of Concern

Scientific Name: *Pinus torreyana insularis*

Common Name: Mendocino cypress
Status: Species of Concern

Scientific Name: *Cupressus goveniana pigmaea*

Common Name: Yellow cedar
Status: Under Review

Scientific Name: *Callitropsis nootkatensis*

Group: Crustaceans

Common Name: [Unnamed] isopod
Status: Species of Concern

Scientific Name: *Caecidotea tomalensis*

Common Name: Vernal pool tadpole shrimp
Status: Endangered

Scientific Name: *Lepidurus packardi*

Common Name: Longhorn fairy shrimp
Status: Endangered

Scientific Name: *Branchinecta longiantenna*

Common Name: California freshwater shrimp
Status: Endangered

Scientific Name: *Syncaris pacifica*

Common Name: Mono Lake brine shrimp

Scientific Name: *Artemia monica*

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Status: Species of Concern

Common Name: Conservancy fairy shrimp
Status: Endangered

Scientific Name: Branchinecta conservatio

Group: Ferns and Allies

Common Name: Crater Lake grap fern
Status: Species of Concern

Scientific Name: Botrychium pumicola nealleyi

Common Name: No common name
Status: Species of Concern

Scientific Name: Botrychium crenulatum

Group: Fishes

Common Name: Rough sculpin
Status: Species of Concern

Scientific Name: Cottus asperimus

Common Name: Kern River rainbow trout
Status: Species of Concern

Scientific Name: Oncorhynchus mykiss gilberti

Common Name: Steelhead
Status: Endangered

Scientific Name: Oncorhynchus (=Salmo) mykiss

Common Name: Goose Lake redband trout
Status: Species of Concern

Scientific Name: Oncorhynchus mykiss ssp.

Common Name: Eagle Lake rainbow Trout
Status: Under Review

Scientific Name: Oncorhynchus mykiss aquilarum

Common Name: Flannelmouth sucker
Status: Species of Concern

Scientific Name: Catostomus latipinnis

Common Name: Steelhead
Status: Under Review

Scientific Name: Oncorhynchus (=Salmo) mykiss

Common Name: longfin smelt
Status: Candidate

Scientific Name: Spirinchus thaleichthys

Common Name: Benton Valley speckled dace
Status: Species of Concern

Scientific Name: Rhinichthys osculus ssp.

Common Name: Jenny Creek sucker
Status: Species of Concern

Scientific Name: Catostomus rimiculus ssp.

Common Name: Arroyo chub
Status: Species of Concern

Scientific Name: Gila orcuttii

Common Name: Steelhead
Status: Threatened

Scientific Name: Oncorhynchus (=Salmo) mykiss

Common Name: Owens speckled dace
Status: Species of Concern

Scientific Name: Rhinichthys osculus ssp.

Common Name: Red Hills roach
Status: Species of Concern

Scientific Name: Lavinia symmetricus ssp.

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Santa Ana speckled dace Status: Species of Concern	Scientific Name: <i>Rhinichthys osculus</i> ssp.
Common Name: Shoshone pupfish Status: Species of Concern	Scientific Name: <i>Cyprinodon nevadensis shoshone</i>
Common Name: Long Valley speckled dace Status: Species of Concern	Scientific Name: <i>Rhinichthys osculus</i> ssp.
Common Name: Klamath largescale sucker Status: Species of Concern	Scientific Name: <i>Catostomus snyderi</i>
Common Name: Goose Lake sucker Status: Species of Concern	Scientific Name: <i>Catostomus occidentalis lacusanserinus</i>
Common Name: Sacramento perch Status: Species of Concern	Scientific Name: <i>Archoplites interruptus</i>
Common Name: green sturgeon Status: Threatened	Scientific Name: <i>Acipenser medirostris</i>
Common Name: Pit roach Status: Species of Concern	Scientific Name: <i>Lavinia symmetricus mitrulus</i>
Common Name: Warner Valley redband trout Status: Species of Concern	Scientific Name: <i>Oncorhynchus mykiss</i> ssp.
Common Name: Amargosa Canyon speckled dace Status: Species of Concern	Scientific Name: <i>Rhinichthys osculus</i> ssp.
Common Name: Russian River tule perch Status: Species of Concern	Scientific Name: <i>Hysteroecarpus traskii pomo</i>
Common Name: Goose Lake lamprey Status: Species of Concern	Scientific Name: <i>Lampetra tridentata</i> ssp.
Common Name: Gualala roach Status: Species of Concern	Scientific Name: <i>Lavinia symmetricus parvipinnis</i>

Group: Flowering Plants

Common Name: Marin dwarf-flax Status: Threatened	Scientific Name: <i>Hesperolinon congestum</i>
Common Name: Fleshy owl's-clover Status: Threatened	Scientific Name: <i>Castilleja campestris</i> ssp. <i>succulenta</i>
Common Name: Pine Hill ceanothus Status: Endangered	Scientific Name: <i>Ceanothus roderickii</i>
Common Name: Hoover's spurge Status: Threatened	Scientific Name: <i>Chamaesyce hooveri</i>
Common Name: Suisun thistle Status: Endangered	Scientific Name: <i>Cirsium hydrophilum</i> var. <i>hydrophilum</i>

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Vine Hill clarkia Status: Endangered	Scientific Name: <i>Clarkia imbricata</i>
Common Name: Soft bird's-beak Status: Endangered	Scientific Name: <i>Cordylanthus mollis</i> ssp. <i>mollis</i>
Common Name: Baker's larkspur Status: Endangered	Scientific Name: <i>Delphinium bakeri</i>
Common Name: Yellow larkspur Status: Endangered	Scientific Name: <i>Delphinium luteum</i>
Common Name: lone (incl. Irish Hill) buckwheat Status: Endangered	Scientific Name: <i>Eriogonum apricum</i> (incl. var. <i>prostratum</i>)
Common Name: Pine Hill flannelbush Status: Endangered	Scientific Name: <i>Fremontodendron californicum</i> ssp. <i>decumbens</i>
Common Name: El Dorado bedstraw Status: Endangered	Scientific Name: <i>Galium californicum</i> ssp. <i>sierrae</i>
Common Name: Sebastopol meadowfoam Status: Endangered	Scientific Name: <i>Limnanthes vinculans</i>
Common Name: San Joaquin Orcutt grass Status: Threatened	Scientific Name: <i>Orcuttia inaequalis</i>
Common Name: Sacramento Orcutt grass Status: Endangered	Scientific Name: <i>Orcuttia viscida</i>
Common Name: Pitkin Marsh lily Status: Endangered	Scientific Name: <i>Lilium pardalinum</i> ssp. <i>pitkinense</i>
Common Name: Few-flowered navarretia Status: Endangered	Scientific Name: <i>Navarretia leucocephala</i> ssp. <i>pauciflora</i> (=N. <i>pauciflora</i>)
Common Name: Many-flowered navarretia Status: Endangered	Scientific Name: <i>Navarretia leucocephala</i> ssp. <i>plieantha</i>
Common Name: Colusa grass Status: Threatened	Scientific Name: <i>Neostapfia colusana</i>
Common Name: Hairy Orcutt grass Status: Endangered	Scientific Name: <i>Orcuttia pilosa</i>
Common Name: Lake County stonecrop Status: Endangered	Scientific Name: <i>Parvisedum leiocarpum</i>
Common Name: Calistoga allocarya Status: Endangered	Scientific Name: <i>Plagiobothrys strictus</i>
Common Name: Napa bluegrass Status: Endangered	Scientific Name: <i>Poa napensis</i>
Common Name: Hartweg's golden sunburst	Scientific Name: <i>Pseudobahia bahiifolia</i>

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Status: Endangered

Common Name: San Joaquin adobe sunburst
Status: Threatened

Scientific Name: *Pseudobahia peirsonii*

Common Name: Layne's butterweed
Status: Threatened

Scientific Name: *Senecio layneae*

Common Name: Keck's Checker-mallow
Status: Endangered

Scientific Name: *Sidalcea keckii*

Common Name: Kenwood Marsh checker-mallow
Status: Endangered

Scientific Name: *Sidalcea oregana* ssp. *valida*

Common Name: Metcalf Canyon jewelflower
Status: Endangered

Scientific Name: *Streptanthus albidus* ssp. *albidus*

Common Name: Presidio Manzanita
Status: Endangered

Scientific Name: *Arctostaphylos hookeri* var. *ravenii*

Common Name: Sonoma sunshine
Status: Endangered

Scientific Name: *Blennosperma bakeri*

Common Name: Tiburon mariposa lily
Status: Threatened

Scientific Name: *Calochortus tiburonensis*

Common Name: Coyote ceanothus
Status: Endangered

Scientific Name: *Ceanothus ferrisiae*

Common Name: Sonoma spineflower
Status: Endangered

Scientific Name: *Chorizanthe valida*

Common Name: Tiburon jewelflower
Status: Endangered

Scientific Name: *Streptanthus niger*

Common Name: Hidden Lake bluecurls
Status: Threatened

Scientific Name: *Trichostema austromontanum* ssp. *compactum*

Common Name: Fountain thistle
Status: Endangered

Scientific Name: *Cirsium fontinale* var. *fontinale*

Common Name: Presidio clarkia
Status: Endangered

Scientific Name: *Clarkia franciscana*

Common Name: Palmate-bracted bird's beak
Status: Endangered

Scientific Name: *Cordylanthus palmatus*

Common Name: Tiburon paintbrush
Status: Endangered

Scientific Name: *Castilleja affinis* ssp. *neglecta*

Common Name: Sonoma alopecurus
Status: Endangered

Scientific Name: *Alopecurus aequalis* var. *sonomensis*

Common Name: lone manzanita
Status: Threatened

Scientific Name: *Arctostaphylos myrtifolia*

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Pallid manzanita Status: Threatened	Scientific Name: <i>Arctostaphylos pallida</i>
Common Name: Solano grass Status: Endangered	Scientific Name: <i>Tuctoria mucronata</i>
Common Name: San Mateo thornmint Status: Endangered	Scientific Name: <i>Acanthomintha obovata</i> ssp. <i>duttonii</i>
Common Name: Clara Hunt's milk-vetch Status: Endangered	Scientific Name: <i>Astragalus clarianus</i>
Common Name: Chinese Camp brodiaea Status: Threatened	Scientific Name: <i>Brodiaea pallida</i>
Common Name: Mariposa pussypaws Status: Threatened	Scientific Name: <i>Calyptridium pulchellum</i>
Common Name: Stebbins' morning-glory Status: Endangered	Scientific Name: <i>Calystegia stebbinsii</i>
Common Name: White sedge Status: Endangered	Scientific Name: <i>Carex albida</i>
Common Name: Santa Clara Valley dudleya Status: Endangered	Scientific Name: <i>Dudleya setchellii</i>
Common Name: Island tree poppy Status: Species of Concern	Scientific Name: <i>Dendromecon rigida rhamnoides</i>
Common Name: Northcoast birds-beak Status: Species of Concern	Scientific Name: <i>Cordylanthus maritimus palustris</i>
Common Name: Loch Lomond coyote thistle Status: Endangered	Scientific Name: <i>Eryngium constancei</i>
Common Name: Red Hills vervain Status: Threatened	Scientific Name: <i>Verbena californica</i>
Common Name: San Francisco lessingia Status: Endangered	Scientific Name: <i>Lessingia germanorum</i> (=L.g. var. <i>germanorum</i>)
Common Name: Payson's jewelflower Status: Species of Concern	Scientific Name: <i>Caulanthus simulans</i>
Common Name: Santa Barbara false-lupine Status: Species of Concern	Scientific Name: <i>Thermopsis macrophylla agnina</i>
Common Name: Beaked clarkia Status: Species of Concern	Scientific Name: <i>Clarkia rostrata</i>
Common Name: Boundary Peak rock-cress Status: Species of Concern	Scientific Name: <i>Boechera pinzliae</i>
Common Name: Island jepsonia Status: Species of Concern	Scientific Name: <i>Jepsonia malvifolia</i>

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Channel Island tree poppy Status: Species of Concern	Scientific Name: <i>Dendromecon rigida</i> ssp. <i>harfordii</i>
Common Name: Springville clarkia Status: Threatened	Scientific Name: <i>Clarkia springvillensis</i>
Common Name: Pennell's bird's-beak Status: Endangered	Scientific Name: <i>Cordylanthus tenuis</i> ssp. <i>capillaris</i>
Common Name: Hollisteria Status: Species of Concern	Scientific Name: <i>Hollisteria lanata</i>
Common Name: Tuolumne fawn-lily Status: Species of Concern	Scientific Name: <i>Erythronium tuolumnense</i>
Common Name: No common name Status: Species of Concern	Scientific Name: <i>Holocarpa virgata elongata</i>
Common Name: Peirson's spring beauty Status: Species of Concern	Scientific Name: <i>Claytonia lanceolata peirsonii</i>
Common Name: Hispid birds-beak Status: Species of Concern	Scientific Name: <i>Cordylanthus mollis hispidus</i>
Common Name: Wart-stemmed ceanothus Status: Species of Concern	Scientific Name: <i>Ceanothus verrucosus</i>
Common Name: Oso manzanita Status: Species of Concern	Scientific Name: <i>Arctostaphylos osoensis</i>
Common Name: Dudley's lousewort Status: Species of Concern	Scientific Name: <i>Pedicularis dudleyi</i>
Common Name: Pierpoint Springs liveforever Status: Species of Concern	Scientific Name: <i>Dudleya cymosa costifolia</i>
Common Name: Mono milk-vetch Status: Species of Concern	Scientific Name: <i>Astragalus monoensis monoensis</i>
Common Name: Kern mallow Status: Endangered	Scientific Name: <i>Eremalche kernensis</i>
Common Name: San Mateo woolly sunflower Status: Endangered	Scientific Name: <i>Eriophyllum latilobum</i>
Common Name: Long-petaled lewisia Status: Species of Concern	Scientific Name: <i>Lewisia longipetala</i>
Common Name: Monterrey manzanita Status: Species of Concern	Scientific Name: <i>Arctostaphylos montereyensis</i>
Common Name: [Unnamed] checkermallow Status: Species of Concern	Scientific Name: <i>Sidalcea malvaeflora patula</i>
Common Name: Howe's hedgehog cactus Status: Species of Concern	Scientific Name: <i>Echinocereus engelmannii howei</i>

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Tuolumne coyote-thistle Status: Species of Concern	Scientific Name: <i>Eryngium pinnatisectum</i>
Common Name: No common name Status: Species of Concern	Scientific Name: <i>Lessingia micradenia micradenia</i>
Common Name: Santa Catalina Island manzanita Status: Species of Concern	Scientific Name: <i>Arctostaphylos catalinae</i>
Common Name: Cuyamaca raspberry Status: Species of Concern	Scientific Name: <i>Rubus glaucifolius ganderi</i>
Common Name: [Unnamed] milk-vetch Status: Species of Concern	Scientific Name: <i>Astragalus lentiformis</i>
Common Name: Brandegee eriastrum Status: Species of Concern	Scientific Name: <i>Eriastrum brandegeae</i>
Common Name: San Clemente Island brodiaea Status: Species of Concern	Scientific Name: <i>Triteleia clementina</i>
Common Name: Summer-holly Status: Species of Concern	Scientific Name: <i>Comarostaphylis diversifolia diversifolia</i>
Common Name: Borrego Valley peppergrass Status: Species of Concern	Scientific Name: <i>Lepidium flavum felipense</i>
Common Name: Ahart's dwarf rush Status: Species of Concern	Scientific Name: <i>Juncus leiospermus var. ahartii</i>
Common Name: No common name Status: Species of Concern	Scientific Name: <i>Chorizanthe polygonoides longispina</i>
Common Name: San Francisco wallflower Status: Species of Concern	Scientific Name: <i>Erysimum franciscanum</i>
Common Name: Diablo rock-rose Status: Species of Concern	Scientific Name: <i>Helianthella castanea</i>
Common Name: Carmel Valley malacothrix Status: Species of Concern	Scientific Name: <i>Malacothrix saxatilis arachnoidea</i>
Common Name: Lupine, San Mateo tre Status: Species of Concern	Scientific Name: <i>Lupinus arboreus eximius</i>
Common Name: No common name Status: Species of Concern	Scientific Name: <i>Dendrographa leucophaea</i>
Common Name: Butte County meadowfoam Status: Endangered	Scientific Name: <i>Limnanthes floccosa ssp. californica</i>
Common Name: Bakersfield cactus Status: Endangered	Scientific Name: <i>Opuntia treleasei</i>
Common Name: Klamath manzanita Status: Species of Concern	Scientific Name: <i>Arctostaphylos klamathensis</i>

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Laguna Mountains aster Status: Species of Concern	Scientific Name: Machaeranthera asteroides lagunensis
Common Name: Heart-leaved pitcher-sage Status: Species of Concern	Scientific Name: Lepechinia cardiophylla
Common Name: Caper-fruited tropidocarpum Status: Species of Concern	Scientific Name: Tropidocarpum capparideum
Common Name: Santiago Peak phacelia Status: Species of Concern	Scientific Name: Phacelia suaveolens keckii
Common Name: Panamint daisy Status: Species of Concern	Scientific Name: Enceliopsis covillei
Common Name: Shasta River mariposa lily Status: Species of Concern	Scientific Name: Calochortus monanthus
Common Name: Jaeger's bush milk-vetch Status: Species of Concern	Scientific Name: Astragalus pachypus jaegeri
Common Name: Mouse buckwheat Status: Species of Concern	Scientific Name: Eriogonum nudum murinum
Common Name: Ashy phacelia Status: Species of Concern	Scientific Name: Phacelia distans
Common Name: Little mousetail Status: Species of Concern	Scientific Name: Myosurus minimus apus
Common Name: Orcutt's dudleya Status: Species of Concern	Scientific Name: Dudleya attentuata orcuttii
Common Name: Star-fruited, small stonecrop Status: Species of Concern	Scientific Name: Sedum radiatum depauperatum
Common Name: Bodie Hills draba Status: Species of Concern	Scientific Name: Cusickiella quadricostata
Common Name: Pappose spikeweed Status: Species of Concern	Scientific Name: Hemizonia parryi congdonii
Common Name: Hoover's rosinweed Status: Species of Concern	Scientific Name: Calycadenia hooveri
Common Name: Glandular dwarf-flax Status: Species of Concern	Scientific Name: Hesperolinon adenophyllum
Common Name: Otay lotus Status: Species of Concern	Scientific Name: Lotus crassifolius otayensis
Common Name: Kingston Mountains cinquefoil Status: Species of Concern	Scientific Name: Ivesia patellifera
Common Name: Bear Valley wooly-pod Status: Species of Concern	Scientific Name: Astragalus leucolobus

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Bellinger's meadowfoam Status: Species of Concern	Scientific Name: <i>Limnanthes floccosa bellingeriana</i>
Common Name: San Clemente Island milk-vetch Status: Species of Concern	Scientific Name: <i>Astragalus nevinii</i>
Common Name: Bear Valley pyrrocoma Status: Species of Concern	Scientific Name: <i>Pyrrocoma uniflora gossypina</i>
Common Name: Munz's mariposa lily Status: Species of Concern	Scientific Name: <i>Calochortus palmeri munzii</i>
Common Name: Orcutt's linanthus Status: Species of Concern	Scientific Name: <i>Linanthus orcuttii</i>
Common Name: Tiburon tarweed Status: Species of Concern	Scientific Name: <i>Hemizonia multicaulis vernalis</i>
Common Name: Warner Springs lessingia Status: Species of Concern	Scientific Name: <i>Lessingia glandulifera tomentosa</i>
Common Name: Descanso milk-vetch Status: Species of Concern	Scientific Name: <i>Astragalus oocarpus</i>
Common Name: Klamath gentian Status: Species of Concern	Scientific Name: <i>Gentiana plurisetosa</i>
Common Name: Little San Bernardino Mountains gilia Status: Species of Concern	Scientific Name: <i>Gilia maculata</i>
Common Name: Mono Lake lupine Status: Species of Concern	Scientific Name: <i>Lupinus duranii</i>
Common Name: Suisun aster Status: Species of Concern	Scientific Name: <i>Aster chilensis lentus</i>
Common Name: Kruckeberg's jewelflower Status: Species of Concern	Scientific Name: <i>Streptanthus morrisonii kruckebergii</i>
Common Name: Ferris' milk-vetch Status: Species of Concern	Scientific Name: <i>Astragalus tener var. ferrisae</i>
Common Name: Salinas Valley popcornflower Status: Species of Concern	Scientific Name: <i>Plagiobothrys uncinatus</i>
Common Name: Twisselmann's nemacladus Status: Species of Concern	Scientific Name: <i>Nemacladus twisselmannii</i>
Common Name: Orange lupine Status: Species of Concern	Scientific Name: <i>Lupinus citrinus</i>
Common Name: Cuesta Pass sidalcea Status: Species of Concern	Scientific Name: <i>Sidalcea hickmanii anomala</i>
Common Name: San Francisco popcornflower Status: Species of Concern	Scientific Name: <i>Plagiobothrys torreyi var. diffusus</i>

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Catalina ironwood Status: Species of Concern	Scientific Name: <i>Lyonothamnus floribundus floribundus</i>
Common Name: Orcutt's brodiaea Status: Species of Concern	Scientific Name: <i>Brodiaea orcuttii</i>
Common Name: Parry's horkelia Status: Species of Concern	Scientific Name: <i>Horkelia parryi</i>
Common Name: Panamint Mountains lupine Status: Species of Concern	Scientific Name: <i>Lupinus magnificus magnificus</i>
Common Name: Mono Hot Springs evening-primrose Status: Species of Concern	Scientific Name: <i>Camissonia sierrae alticola</i>
Common Name: Forked fiddleneck Status: Species of Concern	Scientific Name: <i>Amsinckia vernicosa furcata</i>
Common Name: Jaeger's caulostramina Status: Species of Concern	Scientific Name: <i>Caulostramina jaegeri</i>
Common Name: San Bernardino butterweed Status: Species of Concern	Scientific Name: <i>Packera bernardina</i>
Common Name: Island tree mallow Status: Species of Concern	Scientific Name: <i>Lavatera assurgentiflora</i>
Common Name: Wedge-leaved horkelia Status: Species of Concern	Scientific Name: <i>Horkelia cuneata sericea</i>
Common Name: Arroyo Seco bush-mallow Status: Species of Concern	Scientific Name: <i>Malacothamnus palmeri lucianus</i>
Common Name: Sand mesa manzanita Status: Species of Concern	Scientific Name: <i>Arctostaphylos rudis</i>
Common Name: Sonoma ceanothus Status: Species of Concern	Scientific Name: <i>Ceanothus sonomensis</i>
Common Name: Santa Lucia manzanita Status: Species of Concern	Scientific Name: <i>Arctostaphylos luciana</i>
Common Name: Refugio manzanita Status: Species of Concern	Scientific Name: <i>Arctostaphylos refugioensis</i>
Common Name: Donner Pass buckwheat Status: Species of Concern	Scientific Name: <i>Eriogonum umbellatum torreyanum</i>
Common Name: Orcutt's bird's-beak Status: Species of Concern	Scientific Name: <i>Cordylanthus orcuttianus</i>
Common Name: Piute buckwheat Status: Species of Concern	Scientific Name: <i>Eriogonum breedlovei breedlovei</i>
Common Name: San Bernardino Mountains dudleya Status: Species of Concern	Scientific Name: <i>Dudleya abramsii affinis</i>

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Dwarf goldenstar Status: Species of Concern	Scientific Name: Bloomeria humilis
Common Name: Ojai fritillary Status: Species of Concern	Scientific Name: Fritillaria ojaiensis
Common Name: Humboldt Bay owl's clover Status: Species of Concern	Scientific Name: Castilleja ambigua humboldtiensis
Common Name: Prostrate hosackia Status: Species of Concern	Scientific Name: Lotus nuttallianus
Common Name: San Luis Obispo monardella Status: Species of Concern	Scientific Name: Monardella frutescens
Common Name: Closed-lip beardtongue Status: Species of Concern	Scientific Name: Penstemon personatus
Common Name: Velvety false-lupine Status: Species of Concern	Scientific Name: Thermopsis macrophylla semota
Common Name: Nuttall's scrub oak Status: Species of Concern	Scientific Name: Quercus dumosa
Common Name: San Gabriel manzanita Status: Species of Concern	Scientific Name: Arctostaphylos gabrielensis
Common Name: Hanaupah laphamia Status: Species of Concern	Scientific Name: Perityle villosa
Common Name: Seaside, Coulter's daisy Status: Species of Concern	Scientific Name: Lasthenia glabrata coulteri
Common Name: Sp. nov. ined. (chaparral) beargrass Status: Species of Concern	Scientific Name: Nolina sp.
Common Name: Palmer's mariposa lily Status: Species of Concern	Scientific Name: Calochortus palmeri palmeri
Common Name: No common name Status: Species of Concern	Scientific Name: Ivesia longibracteata
Common Name: Ertter's milk-vetch Status: Species of Concern	Scientific Name: Astragalus ertterae
Common Name: Heartscale Status: Species of Concern	Scientific Name: Atriplex cordulata
Common Name: Mt. Eddy draba Status: Species of Concern	Scientific Name: Draba carnosula
Common Name: Shirley Meadows mariposa lily Status: Species of Concern	Scientific Name: Calochortus westonii
Common Name: Candleholder dudleya Status: Species of Concern	Scientific Name: Dudleya candelabrum

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Santa Cruz gooseberry Status: Species of Concern	Scientific Name: <i>Ribes thacherianum</i>
Common Name: Munz cholla Status: Species of Concern	Scientific Name: <i>Opuntia munzii</i>
Common Name: Lakeside ceanothus Status: Species of Concern	Scientific Name: <i>Ceanothus cyaneus</i>
Common Name: Point Reyes meadowfoam Status: Species of Concern	Scientific Name: <i>Limnanthes douglasii sulphurea</i>
Common Name: Los Angeles sunflower Status: Species of Concern	Scientific Name: <i>Helianthus nuttallii parishii</i>
Common Name: Howell's lewisia Status: Species of Concern	Scientific Name: <i>Lewisia cotyledon howellii</i>
Common Name: Santa Barbara Island cream cups Status: Species of Concern	Scientific Name: <i>Platystemon californicus ciliatus</i>
Common Name: Island snapdragon Status: Species of Concern	Scientific Name: <i>Gambelia speciosa</i>
Common Name: Adobe sanicle Status: Species of Concern	Scientific Name: <i>Sanicula maritima</i>
Common Name: Nissenan manzanita Status: Species of Concern	Scientific Name: <i>Arctostaphylos nissenana</i>
Common Name: Parish's rock-cress Status: Species of Concern	Scientific Name: <i>Arabis parishii</i>
Common Name: Tiehm's rock-cress Status: Species of Concern	Scientific Name: <i>Arabis tiehmii</i>
Common Name: Yosemite wooly-sunflower Status: Species of Concern	Scientific Name: <i>Eriophyllum nubigenum</i>
Common Name: Jones layia Status: Species of Concern	Scientific Name: <i>Layia jonesii</i>
Common Name: White bear desert-poppy Status: Species of Concern	Scientific Name: <i>Arctomecon merriamii</i>
Common Name: Panamint dudleya Status: Species of Concern	Scientific Name: <i>Dudleya saxosa saxosa</i>
Common Name: Dunn's mariposa lily Status: Species of Concern	Scientific Name: <i>Calochortus dunnii</i>
Common Name: California dissanthelium Status: Species of Concern	Scientific Name: <i>Dissanthelium californicum</i>
Common Name: Temblor buckwheat Status: Species of Concern	Scientific Name: <i>Eriogonum temblorense</i>

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Shaw's agave Status: Species of Concern	Scientific Name: <i>Agave shawii</i>
Common Name: Pickering ivesia Status: Species of Concern	Scientific Name: <i>Ivesia pickeringii</i>
Common Name: Forked buckwheat Status: Species of Concern	Scientific Name: <i>Eriogonum bifurcatum</i>
Common Name: San Bernardino rock-cress Status: Species of Concern	Scientific Name: <i>Arabis breweri pecuniaria</i>
Common Name: Butterworth's buckwheat Status: Species of Concern	Scientific Name: <i>Eriogonum butterworthianum</i>
Common Name: Borrego aster Status: Species of Concern	Scientific Name: <i>Xylorhiza orcuttii</i>
Common Name: The Lassics lupine Status: Species of Concern	Scientific Name: <i>Lupinus constancei</i>
Common Name: Giant spanishneedle Status: Species of Concern	Scientific Name: <i>Palafoxia arida gigantea</i>
Common Name: San Clemente island bedstraw Status: Species of Concern	Scientific Name: <i>Galium catalinense acrispum</i>
Common Name: Pecho manzanita Status: Species of Concern	Scientific Name: <i>Arctostaphylos pechoensis</i>
Common Name: Lavin's milk-vetch Status: Species of Concern	Scientific Name: <i>Astragalus oophorus lavinii</i>
Common Name: Tahquitz ivesia Status: Species of Concern	Scientific Name: <i>Ivesia callida</i>
Common Name: Adder's-mouth Status: Species of Concern	Scientific Name: <i>Malaxis brachypoda</i>
Common Name: Black-flowered figwort Status: Species of Concern	Scientific Name: <i>Scrophularia atrata</i>
Common Name: Indian Valley brodiaea Status: Species of Concern	Scientific Name: <i>Brodiaea coronaria rosea</i>
Common Name: Alkali mariposa lily Status: Species of Concern	Scientific Name: <i>Calochortus striatus</i>
Common Name: Franciscan manzanita Status: Endangered	Scientific Name: <i>Arctostaphylos franciscana</i>
Common Name: Coast lily Status: Species of Concern	Scientific Name: <i>Lilium maritimum</i>
Common Name: Mt. Gleason paintbrush Status: Species of Concern	Scientific Name: <i>Castilleja gleasonii</i>

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Gander's pitcher-sage Status: Species of Concern	Scientific Name: <i>Lepechinia ganderi</i>
Common Name: Mt. Tamalpais thistle Status: Species of Concern	Scientific Name: <i>Cirsium hydrophilum vaseyi</i>
Common Name: Greene's mariposa lily Status: Species of Concern	Scientific Name: <i>Calochortus greenei</i>
Common Name: Yellow-tubered toothwort Status: Species of Concern	Scientific Name: <i>Cardamine nuttallii</i>
Common Name: Mendocino bush-mallow Status: Species of Concern	Scientific Name: <i>Malacothamnus mendocinensis</i>
Common Name: Mono phacelia Status: Species of Concern	Scientific Name: <i>Phacelia monoensis</i>
Common Name: Butte County catchfly Status: Species of Concern	Scientific Name: <i>Silene occidentalis longistipitata</i>
Common Name: Barton Flats horkelia Status: Species of Concern	Scientific Name: <i>Horkelia wilderae</i>
Common Name: No common name Status: Species of Concern	Scientific Name: <i>Ivesia jaegeri</i>
Common Name: Rusby's desert-mallow Status: Species of Concern	Scientific Name: <i>Sphaeralcea rusbyi eremicola</i>
Common Name: Oregon fireweed Status: Species of Concern	Scientific Name: <i>Epilobium oreganum</i>
Common Name: Pallid birds-beak Status: Species of Concern	Scientific Name: <i>Cordylanthus tenuis pallescens</i>
Common Name: San Clemente Island evening-primrose Status: Species of Concern	Scientific Name: <i>Camissonia guadalupensis clementina</i>
Common Name: Carmel Valley bush-mallow Status: Species of Concern	Scientific Name: <i>Malacothamnus palmeri involucratus</i>
Common Name: Coast wallflower Status: Species of Concern	Scientific Name: <i>Erysimum ammophilum</i>
Common Name: Hutchinson's delphinium Status: Species of Concern	Scientific Name: <i>Delphinium hutchinsonae</i>
Common Name: Otoy manzanita Status: Species of Concern	Scientific Name: <i>Arctostaphylos otoyensis</i>
Common Name: Jacumba milk-vetch Status: Species of Concern	Scientific Name: <i>Astragalus douglasii perstrictus</i>
Common Name: Santa Susana tarweed Status: Species of Concern	Scientific Name: <i>Hemizonia minthornii</i>

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Santa Lucia pogogyne Status: Species of Concern	Scientific Name: Pogogyne clareana
Common Name: Moreno currant Status: Species of Concern	Scientific Name: Ribes canthariforme
Common Name: Pine City stonecrop Status: Species of Concern	Scientific Name: Sedum pinetorum
Common Name: [Unnamed] milk-vetch Status: Species of Concern	Scientific Name: Astragalus tegetarioides
Common Name: Cienega Seca oxytheca Status: Species of Concern	Scientific Name: Oxytheca parishii ciengensis
Common Name: Tracy's sanicle Status: Species of Concern	Scientific Name: Sanicula tracyi
Common Name: Tulare horkelia Status: Species of Concern	Scientific Name: Horkelia tularensis
Common Name: Palmer's haplopappus Status: Species of Concern	Scientific Name: Haplopappus palmeri palmeri
Common Name: Northcoast semaphore grass Status: Species of Concern	Scientific Name: Pleuropogon hooverianus
Common Name: Mt. Hamilton jewelflower Status: Species of Concern	Scientific Name: Streptanthus callistus
Common Name: Recurved larkspur Status: Species of Concern	Scientific Name: Delphinium recurvatum
Common Name: Hospital Canyon larkspur Status: Species of Concern	Scientific Name: Delphinium californicum interius
Common Name: Island wallflower Status: Species of Concern	Scientific Name: Erysimum insulare insulare
Common Name: Talus fritillary Status: Species of Concern	Scientific Name: Fritillaria falcata
Common Name: Mendocino gentian Status: Species of Concern	Scientific Name: Gentiana setigera
Common Name: Lost Hills saltbush Status: Species of Concern	Scientific Name: Atriplex vallicola
Common Name: Vine Hill manzanita Status: Species of Concern	Scientific Name: Arctostaphylos densiflora
Common Name: Bolander's horkelia Status: Species of Concern	Scientific Name: Horkelia bolanderi
Common Name: Howell's montia Status: Species of Concern	Scientific Name: Montia howellii

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: July gold Status: Species of Concern	Scientific Name: <i>Dedeckera eurekaensis</i>
Common Name: Santa Catalina figwort Status: Species of Concern	Scientific Name: <i>Scrophularia villosa</i>
Common Name: Ahart's whitlow-wort Status: Species of Concern	Scientific Name: <i>Paronychia ahartii</i>
Common Name: Fern-leaved ironwood Status: Species of Concern	Scientific Name: <i>Lyonothamnus floribundus asplenifolius</i>
Common Name: The Lassics sandwort Status: Species of Concern	Scientific Name: <i>Minuartia decumbens</i>
Common Name: Fremont's rosinweed Status: Species of Concern	Scientific Name: <i>Calycadenia fremontii</i>
Common Name: Valley spearscale Status: Species of Concern	Scientific Name: <i>Atriplex joaquiniana</i>
Common Name: Secund jewelflower Status: Species of Concern	Scientific Name: <i>Streptanthus glandulosus hoffmanii</i>
Common Name: Plumas ivesia Status: Species of Concern	Scientific Name: <i>Ivesia sericoleuca</i>
Common Name: Arid northern clarkia Status: Species of Concern	Scientific Name: <i>Clarkia borealis arida</i>
Common Name: Bonny Doon manzanita Status: Species of Concern	Scientific Name: <i>Arctostaphylos silvicola</i>
Common Name: Santa Catalina monkey-flower Status: Species of Concern	Scientific Name: <i>Mimulus traskiae</i>
Common Name: No common name Status: Species of Concern	Scientific Name: <i>Eschscholzia multiflora twisselmannii</i>
Common Name: Barstow wooly-sunflower Status: Species of Concern	Scientific Name: <i>Eriophyllum mohavense</i>
Common Name: Pitkin Marsh paintbrush Status: Species of Concern	Scientific Name: <i>Castilleja uliginosa</i>
Common Name: Pleasant Valley mariposa lily Status: Species of Concern	Scientific Name: <i>Calochortus clavatus avius</i>
Common Name: Short-jointed beavertail cactus Status: Species of Concern	Scientific Name: <i>Opuntia basilaris brachyclada</i>
Common Name: San Bernardino Mountains monkey-flower Status: Species of Concern	Scientific Name: <i>Mimulus exiguus</i>
Common Name: Scott Valley phacelia Status: Species of Concern	Scientific Name: <i>Phacelia greenei</i>

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: San Luis serpentine dudleya Status: Species of Concern	Scientific Name: <i>Dudleya abramsii bettinae</i>
Common Name: Marble Mountain catchfly Status: Species of Concern	Scientific Name: <i>Silene marmorensis</i>
Common Name: Parrish's brittlescale Status: Species of Concern	Scientific Name: <i>Atriplex parishii</i>
Common Name: Flax-like monardella Status: Species of Concern	Scientific Name: <i>Monardella linoides oblonga</i>
Common Name: Western bog violet Status: Species of Concern	Scientific Name: <i>Viola primulifolia occidentalis</i>
Common Name: Johnston's buckwheat Status: Species of Concern	Scientific Name: <i>Eriogonum microthecum johnstonii</i>
Common Name: Whipple's monkey-flower Status: Species of Concern	Scientific Name: <i>Mimulus whipplei</i>
Common Name: Drymaria dwarf-flax Status: Species of Concern	Scientific Name: <i>Hesperolinon drymarioides</i>
Common Name: Jared's peppergrass Status: Species of Concern	Scientific Name: <i>Lepidium jaredii jaredii</i>
Common Name: Crisp monardella Status: Species of Concern	Scientific Name: <i>Monardella crispa</i>
Common Name: Humboldt Bay gumplant Status: Species of Concern	Scientific Name: <i>Grindelia stricta blakei</i>
Common Name: Jointed buckwheat Status: Species of Concern	Scientific Name: <i>Eriogonum intrafractum</i>
Common Name: Charlotte's phacelia Status: Species of Concern	Scientific Name: <i>Phacelia nashiana</i>
Common Name: Heckner's lewisia Status: Species of Concern	Scientific Name: <i>Lewisia cotyledon heckneri</i>
Common Name: Munz's hedgehog cactus Status: Species of Concern	Scientific Name: <i>Echinocereus engelmannii munzii</i>
Common Name: Goldenbush Status: Species of Concern	Scientific Name: <i>Isocoma arguta</i>
Common Name: Bodie Hills rock-cress Status: Species of Concern	Scientific Name: <i>Arabis bodiensis</i>
Common Name: No common name Status: Species of Concern	Scientific Name: <i>Stylocline masonii</i>
Common Name: Compact cobweb thistle Status: Species of Concern	Scientific Name: <i>Cirsium occidentale compactum</i>

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: No common name Status: Species of Concern	Scientific Name: <i>Teloschistes villosus</i>
Common Name: Peirson's morning-glory Status: Species of Concern	Scientific Name: <i>Calystegia peirsonii</i>
Common Name: The Cedars globe-lily Status: Species of Concern	Scientific Name: <i>Calochortus raichei</i>
Common Name: No common name Status: Species of Concern	Scientific Name: <i>Lessingia arachnoidea</i>
Common Name: Sierra Valley ivesia Status: Species of Concern	Scientific Name: <i>Ivesia aperta aperta</i>
Common Name: Ballona cinquefoil Status: Species of Concern	Scientific Name: <i>Potentilla multijuga</i>
Common Name: Silver-haired ivesia Status: Species of Concern	Scientific Name: <i>Ivesia argyrocoma</i>
Common Name: No common name Status: Species of Concern	Scientific Name: <i>Heterodermia erinacea</i>
Common Name: San Benito spineflower Status: Species of Concern	Scientific Name: <i>Chorizanthe biloba immemora</i>
Common Name: Cedar Crest allocarya Status: Species of Concern	Scientific Name: <i>Plagiobothrys glyptocarpus modestus</i>
Common Name: Trinity phacelia Status: Species of Concern	Scientific Name: <i>Phacelia dalesiana</i>
Common Name: Kingston bedstraw Status: Species of Concern	Scientific Name: <i>Galium hilendiae kingstonense</i>
Common Name: Short-leaved dudleya Status: Species of Concern	Scientific Name: <i>Dudleya blochmaniae blochmaniae</i>
Common Name: [Unnamed] linanthus Status: Species of Concern	Scientific Name: <i>Linanthus concinnus</i>
Common Name: Point Reyes stickyseed Status: Species of Concern	Scientific Name: <i>Blennosperma nanum robustum</i>
Common Name: Mason's lilaeopsis Status: Species of Concern	Scientific Name: <i>Lilaeopsis masonii</i>
Common Name: Mojave tarweed Status: Species of Concern	Scientific Name: <i>Hemizonia mohavensis</i>
Common Name: Island hazardia Status: Species of Concern	Scientific Name: <i>Hazardia cana</i>
Common Name: Parish's gooseberry Status: Species of Concern	Scientific Name: <i>Ribes divaricatum parishii</i>

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Mt. Hamilton thistle Status: Species of Concern	Scientific Name: <i>Cirsium fontinale campylon</i>
Common Name: Conejo buckwheat Status: Species of Concern	Scientific Name: <i>Eriogonum crocatum</i>
Common Name: Masonic Mountain jewelflower Status: Species of Concern	Scientific Name: <i>Streptanthus oliganthus</i>
Common Name: Panamint Mountains buckwheat Status: Species of Concern	Scientific Name: <i>Eriogonum microthecum panamintense</i>
Common Name: Egg Lake monkey-flower Status: Species of Concern	Scientific Name: <i>Mimulus pygmaeus</i>
Common Name: Black wooly-pod Status: Species of Concern	Scientific Name: <i>Astragalus funereus</i>
Common Name: Cuyamaca larkspur Status: Species of Concern	Scientific Name: <i>Delphinium hesperium cuyamacae</i>
Common Name: Cooke's phacelia Status: Species of Concern	Scientific Name: <i>Phacelia cookei</i>
Common Name: Marin checkermallow Status: Species of Concern	Scientific Name: <i>Sidalcea hickmanii viridis</i>
Common Name: Henderson's bentgrass Status: Species of Concern	Scientific Name: <i>Agrostis hendersonii</i>
Common Name: Nine Mile Canyon phacelia Status: Species of Concern	Scientific Name: <i>Phacelia novemmillensis</i>
Common Name: Curve-podded Mojave milk-vetch Status: Species of Concern	Scientific Name: <i>Astragalus mohavensis hemigyris</i>
Common Name: Freed's jewelflower Status: Species of Concern	Scientific Name: <i>Streptanthus brachiatus hoffmanii</i>
Common Name: Snake cholla Status: Species of Concern	Scientific Name: <i>Opuntia parryi serpentina</i>
Common Name: Wolf's evening-primrose Status: Species of Concern	Scientific Name: <i>Oenothera wolfii</i>
Common Name: Stephens' beardtongue Status: Species of Concern	Scientific Name: <i>Penstemon stephensii</i>
Common Name: Parish's phacelia Status: Species of Concern	Scientific Name: <i>Phacelia parishii</i>
Common Name: Blasdale's bentgrass Status: Species of Concern	Scientific Name: <i>Agrostis blasdalei blasdalei</i>
Common Name: [Unnamed] scurf-pea Status: Species of Concern	Scientific Name: <i>Pediomelum castoreum</i>

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Shaggy-hair lupine Status: Species of Concern	Scientific Name: <i>Lupinus spectabilis</i>
Common Name: Short-lobed broomrape Status: Species of Concern	Scientific Name: <i>Orobanche parishii brachyloba</i>
Common Name: San Nicolas Island lomatium Status: Species of Concern	Scientific Name: <i>Lomatium insulare</i>
Common Name: Tecopa bird's-beak Status: Species of Concern	Scientific Name: <i>Cordylanthus tecopensis</i>
Common Name: Many-stemmed liveforever Status: Species of Concern	Scientific Name: <i>Dudleya multicaulis</i>
Common Name: Hearst's ceanothus Status: Species of Concern	Scientific Name: <i>Ceanothus hearstiorum</i>
Common Name: Variegated dudleya Status: Species of Concern	Scientific Name: <i>Dudleya variegata</i>
Common Name: Sandmat manzanita Status: Species of Concern	Scientific Name: <i>Arctostaphylos pumila</i>
Common Name: Northern California black walnut Status: Species of Concern	Scientific Name: <i>Juglans californica hindsii</i>
Common Name: Delta tule-pea Status: Species of Concern	Scientific Name: <i>Lathyrus jepsonii jepsonii</i>
Common Name: Stebbins lewisia Status: Species of Concern	Scientific Name: <i>Lewisia stebbinsii</i>
Common Name: Wilkin's harebell Status: Species of Concern	Scientific Name: <i>Campanula wilkinsiana</i>
Common Name: Cup Lake draba Status: Species of Concern	Scientific Name: <i>Draba asterophora macrocarpa</i>
Common Name: Mecca aster Status: Species of Concern	Scientific Name: <i>Xylorhiza cognata</i>
Common Name: Small-leaved rose Status: Species of Concern	Scientific Name: <i>Rosa minutifolia</i>
Common Name: Cambria morning-glory Status: Species of Concern	Scientific Name: <i>Calystegia subacaulis episcopalis</i>
Common Name: San Benito thornmint Status: Species of Concern	Scientific Name: <i>Acanthomintha obovata obovata</i>
Common Name: Bear Valley phlox Status: Species of Concern	Scientific Name: <i>Phlox dolichantha</i>
Common Name: Owens Peak lomatium Status: Species of Concern	Scientific Name: <i>Lomatium shevockii</i>

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Wild Rose Canyon buckwheat Status: Species of Concern	Scientific Name: <i>Eriogonum eremicola</i>
Common Name: Mt. Saint Helena morning-glory Status: Species of Concern	Scientific Name: <i>Calystegia collina oxyphylla</i>
Common Name: Large red buckwheat Status: Species of Concern	Scientific Name: <i>Eriogonum grande rubescens</i>
Common Name: Dog Valley ivesia Status: Species of Concern	Scientific Name: <i>Ivesia aperta canina</i>
Common Name: Del Norte manzanita Status: Species of Concern	Scientific Name: <i>Arctostaphylos nortensis</i>
Common Name: [Unnamed] milk-vetch Status: Species of Concern	Scientific Name: <i>Astragalus gilmanii</i>
Common Name: Seaside birds-beak Status: Species of Concern	Scientific Name: <i>Cordylanthus rigidus littoralis</i>
Common Name: Sp. nov. ined. (Del Norte) rock-cress Status: Species of Concern	Scientific Name: <i>Arabis</i> sp.
Common Name: California marina Status: Species of Concern	Scientific Name: <i>Marina orcuttii orcuttii</i>
Common Name: San Felipe monardella Status: Species of Concern	Scientific Name: <i>Monardella nana leptosiphon</i>
Common Name: San Francisco owl's-clover Status: Species of Concern	Scientific Name: <i>Triphysaria floribunda</i>
Common Name: San Benito fritillary Status: Species of Concern	Scientific Name: <i>Fritillaria viridea</i>
Common Name: Red-flowered lotus Status: Species of Concern	Scientific Name: <i>Lotus rubriflorus</i>
Common Name: Palmer's grapplinghook Status: Species of Concern	Scientific Name: <i>Harpagonella palmeri palmeri</i>
Common Name: No common name Status: Species of Concern	Scientific Name: <i>Stylocline citroleum</i>
Common Name: Humboldt lily Status: Species of Concern	Scientific Name: <i>Lilium humboldtii ocellatum</i>
Common Name: Death Valley sandpaperplant Status: Species of Concern	Scientific Name: <i>Petalonyx thurberi gilmanii</i>
Common Name: San Diego marsh elder Status: Species of Concern	Scientific Name: <i>Iva hayesiana</i>
Common Name: Merced phacelia Status: Species of Concern	Scientific Name: <i>Phacelia ciliata opaca</i>

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Tomales clarkia Status: Species of Concern	Scientific Name: <i>Clarkia concinna raichei</i>
Common Name: Spinysepaled eryngo Status: Species of Concern	Scientific Name: <i>Eryngium spinosepalum</i>
Common Name: Bakersfield saltbush Status: Species of Concern	Scientific Name: <i>Atriplex tularensis</i>
Common Name: Dorr's Cabin jewelflower Status: Species of Concern	Scientific Name: <i>Streptanthus morrisonii hirtiflorus</i>
Common Name: No common name Status: Species of Concern	Scientific Name: <i>Malacothrix crispifolia</i>
Common Name: Mt. Tedoc linanthus Status: Species of Concern	Scientific Name: <i>Linanthus nuttallii howellii</i>
Common Name: Smooth tarplant Status: Species of Concern	Scientific Name: <i>Hemizonia pungens laevis</i>
Common Name: Pajaroensis manzanita Status: Species of Concern	Scientific Name: <i>Arctostaphylos pajaroensis</i>
Common Name: Rock sanicle Status: Species of Concern	Scientific Name: <i>Sanicula saxatilis</i>
Common Name: Kernville poppy Status: Species of Concern	Scientific Name: <i>Eschscholzia procera</i>
Common Name: Mt. Hamilton coreopsis Status: Species of Concern	Scientific Name: <i>Coreopsis hamiltonii</i>
Common Name: No common name Status: Species of Concern	Scientific Name: <i>Lessingia micradenia glabrata</i>
Common Name: Aphanisma Status: Species of Concern	Scientific Name: <i>Aphanisma blitoides</i>
Common Name: Mosquin's clarkia Status: Species of Concern	Scientific Name: <i>Clarkia mosquinii mosquinii</i>
Common Name: East Bay clarkia Status: Species of Concern	Scientific Name: <i>Clarkia concinna automixa</i>
Common Name: Silky cryptantha Status: Species of Concern	Scientific Name: <i>Cryptantha crinita</i>
Common Name: Bensoniella Status: Species of Concern	Scientific Name: <i>Bensoniella oregona</i>
Common Name: Santa Margarita manzanita Status: Species of Concern	Scientific Name: <i>Arctostaphylos pilosula pilosula</i>
Common Name: Robison's monardella Status: Species of Concern	Scientific Name: <i>Monardella robisonii</i>

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Brewer's dwarf-flax Status: Species of Concern	Scientific Name: <i>Hesperolinon breweri</i>
Common Name: Howell's alkali grass Status: Species of Concern	Scientific Name: <i>Puccinellia howellii</i>
Common Name: Maritime california-lilac Status: Species of Concern	Scientific Name: <i>Ceanothus maritimus</i>
Common Name: No common name Status: Species of Concern	Scientific Name: <i>Collinsia antonina</i>
Common Name: Schreiber's manzanita Status: Species of Concern	Scientific Name: <i>Arctostaphylos glutinosa</i>
Common Name: Pale-yellow layia Status: Species of Concern	Scientific Name: <i>Layia heterotricha</i>
Common Name: Hardham's evening-primrose Status: Species of Concern	Scientific Name: <i>Camissonia hardhamiae</i>
Common Name: Comanche layia Status: Species of Concern	Scientific Name: <i>Layia leucopappa</i>
Common Name: Southern tarplant Status: Species of Concern	Scientific Name: <i>Hemizonia parryi australis</i>
Common Name: Howell's tauschia Status: Species of Concern	Scientific Name: <i>Tauschia howellii</i>
Common Name: Lake County dwarf-flax Status: Species of Concern	Scientific Name: <i>Hesperolinon didymocarpum</i>
Common Name: Morrison's jewelflower Status: Species of Concern	Scientific Name: <i>Streptanthus morrisonii morrisonii</i>
Common Name: Rincon ceanothus Status: Species of Concern	Scientific Name: <i>Ceanothus confusus</i>
Common Name: Little Sur manzanita Status: Species of Concern	Scientific Name: <i>Arctostaphylos edmundsii</i>
Common Name: Valley sagittaria Status: Species of Concern	Scientific Name: <i>Sagittaria sanfordii</i>
Common Name: Rock lady Status: Species of Concern	Scientific Name: <i>Holmgrenanthe petrophila</i>
Common Name: Cone Peak bedstraw Status: Species of Concern	Scientific Name: <i>Galium californicum lucicense</i>
Common Name: Butte County sidalcea Status: Species of Concern	Scientific Name: <i>Sidalcea robusta</i>
Common Name: San Nicolas Island buckwheat Status: Species of Concern	Scientific Name: <i>Eriogonum grande timorum</i>

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: No common name Status: Species of Concern	Scientific Name: <i>Malacothrix intermedia</i>
Common Name: Dune larkspur Status: Species of Concern	Scientific Name: <i>Delphinium parryi blochmaniae</i>
Common Name: Amargosa penstemon Status: Species of Concern	Scientific Name: <i>Penstemon fruticiformis amargosae</i>
Common Name: Preston Peak rock-cress Status: Species of Concern	Scientific Name: <i>Arabis mcdonaldiana</i>
Common Name: Thread-leaved penstemon Status: Species of Concern	Scientific Name: <i>Penstemon filiformis</i>
Common Name: Blair's munzothamnus Status: Species of Concern	Scientific Name: <i>Stephanomeria blairii</i>
Common Name: Stebbins' madia Status: Species of Concern	Scientific Name: <i>Madia stebbinsii</i>
Common Name: Mission Canyon bluecup Status: Species of Concern	Scientific Name: <i>Githopsis diffusa filicaulis</i>
Common Name: Saw-toothed lewisia Status: Species of Concern	Scientific Name: <i>Lewisia serrata</i>
Common Name: White-margined penstemon Status: Species of Concern	Scientific Name: <i>Penstemon albomarginatus</i>
Common Name: Contact Mine streptanthus Status: Species of Concern	Scientific Name: <i>Streptanthus brachiatus brachiatus</i>
Common Name: Coast barrel cactus Status: Species of Concern	Scientific Name: <i>Ferocactus viridescens</i>
Common Name: Santa Cruz manzanita Status: Species of Concern	Scientific Name: <i>Arctostaphylos andersonii</i>
Common Name: San Jacinto bedstraw Status: Species of Concern	Scientific Name: <i>Galium californicum primum</i>
Common Name: Mt. Vision ceanothus Status: Species of Concern	Scientific Name: <i>Ceanothus gloriosus porrectus</i>
Common Name: Rock Creek broomrape Status: Species of Concern	Scientific Name: <i>Orobanche valida valida</i>
Common Name: Raiches manzanita Status: Species of Concern	Scientific Name: <i>Arctostaphylos stanfordiana raichei</i>
Common Name: Sandfood Status: Species of Concern	Scientific Name: <i>Pholisma sonorae</i>
Common Name: Spanish needle onion Status: Species of Concern	Scientific Name: <i>Allium shevockii</i>

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Petaluma popcornflower Status: Species of Concern	Scientific Name: <i>Plagiobothrys mollis vestitus</i>
Common Name: Montara manzanita Status: Species of Concern	Scientific Name: <i>Arctostaphylos montaraensis</i>
Common Name: [Unnamed] adobe-lily Status: Species of Concern	Scientific Name: <i>Fritillaria pluriflora</i>
Common Name: Snow Mountain buckwheat Status: Species of Concern	Scientific Name: <i>Eriogonum nervulosum</i>
Common Name: Supple daisy Status: Species of Concern	Scientific Name: <i>Erigeron supplex</i>
Common Name: Hoover's button-celery Status: Species of Concern	Scientific Name: <i>Eryngium aristulatum hooveri</i>
Common Name: San Luis lupine Status: Species of Concern	Scientific Name: <i>Lupinus ludovicianus</i>
Common Name: Legenere Status: Species of Concern	Scientific Name: <i>Legenere limosa</i>
Common Name: Pink sand-verbena Status: Species of Concern	Scientific Name: <i>Abronia umbellata breviflora</i>
Common Name: Prostrate buckwheat Status: Species of Concern	Scientific Name: <i>Eriogonum prociduum</i>
Common Name: Butte County morning-glory Status: Species of Concern	Scientific Name: <i>Calystegia atriplicifolia buttensis</i>
Common Name: San Bernardino Mountains orthocarpus Status: Species of Concern	Scientific Name: <i>Castilleja lasiorhyncha</i>
Common Name: Parry's tetraococcus Status: Species of Concern	Scientific Name: <i>Tetraococcus dioicus</i>
Common Name: Red Rock tarweed Status: Species of Concern	Scientific Name: <i>Hemizonia arida</i>
Common Name: Trinity buckwheat Status: Species of Concern	Scientific Name: <i>Eriogonum alpinum</i>
Common Name: Applegate stonecrop Status: Species of Concern	Scientific Name: <i>Sedum oblancheolatum</i>
Common Name: Twisselmann's buckwheat Status: Species of Concern	Scientific Name: <i>Eriogonum twisselmannii</i>
Common Name: San Clemente Island buckwheat Status: Species of Concern	Scientific Name: <i>Eriogonum giganteum formosum</i>
Common Name: Algodones Dunes sunflower Status: Species of Concern	Scientific Name: <i>Helianthus niveus tephrodes</i>

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Plummer's mariposa lily Status: Species of Concern	Scientific Name: Calochortus plummerae
Common Name: Point Reyes horkelia Status: Species of Concern	Scientific Name: Horkelia marinensis
Common Name: Davidson's bush-mallow Status: Species of Concern	Scientific Name: Malacothamnus davidsonii
Common Name: Bristlecone catseye Status: Species of Concern	Scientific Name: Cryptantha roosiorum
Common Name: Vine Hill ceanothus Status: Species of Concern	Scientific Name: Ceanothus foliosus vineatus
Common Name: Marin knotweed Status: Species of Concern	Scientific Name: Polygonum marinense
Common Name: Hardy Creek barberry Status: Species of Concern	Scientific Name: Berberis nervosa mendocinensis
Common Name: Parasol clover Status: Species of Concern	Scientific Name: Trifolium bolanderi
Common Name: Fragrant fritillary Status: Species of Concern	Scientific Name: Fritillaria liliacea
Common Name: Ziegler's layia Status: Species of Concern	Scientific Name: Layia platyglossa
Common Name: Seaside tarweed Status: Species of Concern	Scientific Name: Hemizonia multicaulis multicaulis
Common Name: Foothill mariposa lily Status: Species of Concern	Scientific Name: Calochortus weedii intermedius
Common Name: Mendocino coast paintbrush Status: Species of Concern	Scientific Name: Castilleja mendocinensis
Common Name: Slough thistle Status: Species of Concern	Scientific Name: Cirsium crassicaule
Common Name: South Coast Range morning-glory Status: Species of Concern	Scientific Name: Calystegia collina venusta
Common Name: Cache Peak buckwheat Status: Species of Concern	Scientific Name: Eriogonum kennedyi pinicola
Common Name: California beaked-rush Status: Species of Concern	Scientific Name: Rhynchospora californica
Common Name: Pringle monardella Status: Species of Concern	Scientific Name: Monardella pringlei
Common Name: Southern island phacelia Status: Species of Concern	Scientific Name: Phacelia floribunda

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Humboldt milk-vetch Status: Species of Concern	Scientific Name: <i>Astragalus agnicidus</i>
Common Name: Trask's milk-vetch Status: Species of Concern	Scientific Name: <i>Astragalus traskiae</i>
Common Name: Veiny monardella Status: Species of Concern	Scientific Name: <i>Monardella douglasii venosa</i>
Common Name: Tecate tarweed Status: Species of Concern	Scientific Name: <i>Hemizonia floribunda</i>
Common Name: South coast saltbush Status: Species of Concern	Scientific Name: <i>Atriplex pacifica</i>
Common Name: Arroyo de la Cruz manzanita Status: Species of Concern	Scientific Name: <i>Arctostaphylos cruzensis</i>
Common Name: Santa Cruz Island monkey-flower Status: Species of Concern	Scientific Name: <i>Mimulus brandegeei</i>
Common Name: Northcoast phacelia Status: Species of Concern	Scientific Name: <i>Phacelia insularis continentis</i>
Common Name: Sand dune phacelia Status: Under Review	Scientific Name: <i>Phacelia argentea</i>
Common Name: Inyo mariposa lily Status: Species of Concern	Scientific Name: <i>Calochortus excavatus</i>
Common Name: Webber's milk-vetch Status: Species of Concern	Scientific Name: <i>Astragalus webberi</i>
Common Name: Delta coyote-thistle Status: Species of Concern	Scientific Name: <i>Eryngium racemosum</i>
Common Name: Hall's madia Status: Species of Concern	Scientific Name: <i>Madia hallii</i>
Common Name: Red Hills soaproot Status: Species of Concern	Scientific Name: <i>Chlorogalum grandiflorum</i>
Common Name: No common name Status: Species of Concern	Scientific Name: <i>Ceanothus arboreus glaber</i>
Common Name: Guadalupe Island lupine Status: Species of Concern	Scientific Name: <i>Lupinus guadalupensis</i>
Common Name: Sequoia gooseberry Status: Species of Concern	Scientific Name: <i>Ribes tularensis</i>
Common Name: Swamp harebell Status: Species of Concern	Scientific Name: <i>Campanula californica</i>
Common Name: Parry's spineflower Status: Species of Concern	Scientific Name: <i>Chorizanthe parryi parryi</i>

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Parish's bush-mallow Status: Species of Concern	Scientific Name: <i>Malacothamnus parishii</i>
Common Name: Tamalpais manzanita Status: Species of Concern	Scientific Name: <i>Arctostaphylos hookeri montana</i>
Common Name: San Clemente Island brodiaea Status: Species of Concern	Scientific Name: <i>Brodiaea kinkiensis</i>
Common Name: Tamalpais jewelflower Status: Species of Concern	Scientific Name: <i>Streptanthus batrachopus</i>
Common Name: Panoche peppergrass Status: Species of Concern	Scientific Name: <i>Lepidium jaredii album</i>
Common Name: Dacite manzanita Status: Species of Concern	Scientific Name: <i>Arctostaphylos tomentosa daciticola</i>
Common Name: Fresno County bird's-beak Status: Species of Concern	Scientific Name: <i>Cordylanthus tenuis barbatus</i>
Common Name: Bolinas ceanothus Status: Species of Concern	Scientific Name: <i>Ceanothus masonii</i>
Common Name: No common name Status: Species of Concern	Scientific Name: <i>Astragalus lentiginosus antonius</i>
Common Name: San Diego goldenstar Status: Species of Concern	Scientific Name: <i>Muilla clevelandii</i>
Common Name: Hearsts' manzanita Status: Species of Concern	Scientific Name: <i>Arctostaphylos hookeri hearstiorum</i>
Common Name: Orocopia sage Status: Species of Concern	Scientific Name: <i>Salvia greatai</i>
Common Name: Abbott's bush-mallow Status: Species of Concern	Scientific Name: <i>Malacothamnus abbottii</i>
Common Name: Merced monardella Status: Species of Concern	Scientific Name: <i>Monardella leucocephala</i>
Common Name: Alverson's foxtail cactus Status: Species of Concern	Scientific Name: <i>Coryphantha vivipara alversonii</i>
Common Name: San Gabriel River dudleya Status: Species of Concern	Scientific Name: <i>Dudleya cymosa crebrifolia</i>
Common Name: Kern River daisy Status: Species of Concern	Scientific Name: <i>Erigeron multiceps</i>
Common Name: Jepson's onion Status: Species of Concern	Scientific Name: <i>Allium jepsonii</i>
Common Name: Auburua Ranch jewelflower Status: Species of Concern	Scientific Name: <i>Streptanthus insignis lyonii</i>

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Saline Valley phacelia Status: Species of Concern	Scientific Name: Phacelia amabilis
Common Name: Nevada oryctes Status: Species of Concern	Scientific Name: Oryctes nevadensis
Common Name: Kaweah brodiaea Status: Species of Concern	Scientific Name: Brodiaea insignis
Common Name: Baldwin Lake linanthus Status: Species of Concern	Scientific Name: Linanthus killipii
Common Name: Mt. Diablo jewelflower Status: Species of Concern	Scientific Name: Streptanthus hispidus
Common Name: Thorne's buckwheat Status: Species of Concern	Scientific Name: Eriogonum ericifolium thornei
Common Name: Diamond-petaled poppy Status: Species of Concern	Scientific Name: Eschscholzia rhombipetala
Common Name: Showy raillardella Status: Species of Concern	Scientific Name: Raillardella pringlei
Common Name: Scadden Flat checkerbloom Status: Species of Concern	Scientific Name: Sidalcea stipularis
Common Name: Slender mariposa lily Status: Species of Concern	Scientific Name: Calochortus clavatus gracilis
Common Name: Mojave monkey-flower Status: Species of Concern	Scientific Name: Mimulus mohavensis
Common Name: Anthony Peak lupine Status: Species of Concern	Scientific Name: Lupinus antoninus
Common Name: No common name Status: Species of Concern	Scientific Name: Arnica lonchophylla
Common Name: Poison Canyon stickseed Status: Species of Concern	Scientific Name: Hackelia brevicula
Common Name: Borrego bedstraw Status: Species of Concern	Scientific Name: Galium angustifolium borregoense
Common Name: Hickman's onion Status: Species of Concern	Scientific Name: Allium hickmanii
Common Name: One-awned spineflower Status: Species of Concern	Scientific Name: Chorizanthe rectispina
Common Name: Inyo laphamia Status: Species of Concern	Scientific Name: Perityle inyoensis
Common Name: DeDecker's lupine Status: Species of Concern	Scientific Name: Lupinus padre-crowleyi

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Thurber's reedgrass Status: Species of Concern	Scientific Name: Calamagrostis crassiglumis
Common Name: Stebbins' lomatium Status: Species of Concern	Scientific Name: Lomatium stebbinsii
Common Name: Sp. nov. ined. (Pit River) jewelflower Status: Species of Concern	Scientific Name: Streptanthus sp.
Common Name: Mountains Springs bush lupine Status: Species of Concern	Scientific Name: Lupinus excubitus medius
Common Name: Gander butterweed Status: Species of Concern	Scientific Name: Packera ganderi
Common Name: Forest Camp sandwort Status: Species of Concern	Scientific Name: Arenaria macradenia kuschei
Common Name: Monterey ceanothus Status: Species of Concern	Scientific Name: Ceanothus cuneatus rigidus
Common Name: Most beautiful jewelflower Status: Species of Concern	Scientific Name: Streptanthus albidus peramoenus
Common Name: San Francisco gumplant Status: Species of Concern	Scientific Name: Grindelia hirsuta maritima
Common Name: Mt. Hamilton harebell Status: Species of Concern	Scientific Name: Campanula sharsmithiae
Common Name: Congdon's lomatium Status: Species of Concern	Scientific Name: Lomatium congdonii
Common Name: Plaskett Meadows linanthus Status: Species of Concern	Scientific Name: Linanthus harknessii condensatus
Common Name: Lemon colored fawn-lily Status: Species of Concern	Scientific Name: Erythronium citrinum rodrickii
Common Name: Raven's milk-vetch Status: Species of Concern	Scientific Name: Astragalus monoensis ravenii
Common Name: Nevin's wooly-sunflower Status: Species of Concern	Scientific Name: Eriophyllum nevinii
Common Name: California ditaxis Status: Species of Concern	Scientific Name: Ditaxis serrata
Common Name: Tehama dwarf-flax Status: Species of Concern	Scientific Name: Hesperolinon tehamense
Common Name: Piute Mountains jewelflower Status: Species of Concern	Scientific Name: Streptanthus cordatus piutensis
Common Name: No common name Status: Species of Concern	Scientific Name: Calochortus weedii vestus

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Slender pentachaeta Status: Species of Concern	Scientific Name: <i>Pentachaeta exilis aeolica</i>
Common Name: Purple monkey-flower Status: Species of Concern	Scientific Name: <i>Mimulus purpureus purpureus</i>
Common Name: Calistoga ceanothus Status: Species of Concern	Scientific Name: <i>Ceanothus divergens</i>
Common Name: Butte fritillary Status: Species of Concern	Scientific Name: <i>Fritillaria eastwoodiae</i>
Common Name: Pale yellow lupine Status: Species of Concern	Scientific Name: <i>Lupinus luteolus</i>
Common Name: Arroyo de la Cruz mariposa lily Status: Species of Concern	Scientific Name: <i>Calochortus clavatus recurvifolius</i>
Common Name: Umpqua green-gentian Status: Species of Concern	Scientific Name: <i>Frasera fastigiata</i>
Common Name: Canyon Creek stonecrop Status: Species of Concern	Scientific Name: <i>Sedum paradisum</i>
Common Name: Ash Creek ivesia Status: Species of Concern	Scientific Name: <i>Ivesia paniculata</i>
Common Name: Cliff spurge Status: Species of Concern	Scientific Name: <i>euphorbia misera</i>
Common Name: Small-flowered morning-glory Status: Species of Concern	Scientific Name: <i>Convolvulus equitans</i>
Common Name: Beautiful Hulsea Status: Species of Concern	Scientific Name: <i>Hulsea vestita ssp. callicarpha</i>
Common Name: Cleveland's bush monkeyflower Status: Species of Concern	Scientific Name: <i>Diplacus clevelandii</i>
Common Name: Fish's milkwort Status: Species of Concern	Scientific Name: <i>Polygala cornuta var. fishiae</i>
Common Name: Mt. Diablo phacelia Status: Species of Concern	Scientific Name: <i>Phacelia phacelioides</i>
Common Name: Gairdner's yampah Status: Species of Concern	Scientific Name: <i>Perideridia gairdneri gairdneri</i>
Common Name: Santa Catalina Island desert-thorn Status: Species of Concern	Scientific Name: <i>Lycium hassei</i>
Common Name: No common name Status: Species of Concern	Scientific Name: <i>Lecanora xanthosora</i>
Common Name: Stebbins' phacelia Status: Species of Concern	Scientific Name: <i>Phacelia stebbinsii</i>

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Silver, Santa Cruz Island hosackia Status: Species of Concern	Scientific Name: <i>Lotus argophyllus niveus</i>
Common Name: Smooth pungent forsellesia Status: Species of Concern	Scientific Name: <i>Glossopetalon pungens glabra</i>
Common Name: Eastwood's goldenweed Status: Species of Concern	Scientific Name: <i>Ericameria fasciculata</i>
Common Name: Rayless layia Status: Species of Concern	Scientific Name: <i>Layia discoidea</i>
Common Name: San Gabriel bedstraw Status: Species of Concern	Scientific Name: <i>Galium grande</i>
Common Name: Island morning-glory Status: Species of Concern	Scientific Name: <i>Calystegia macrostegia amplissima</i>
Common Name: Santa Barbara Island buckwheat Status: Species of Concern	Scientific Name: <i>Eriogonum giganteum compactum</i>
Common Name: The Geysers panic grass Status: Species of Concern	Scientific Name: <i>Dichanthelium acuminatum acuminatum</i>
Common Name: Flat-seeded spurge Status: Species of Concern	Scientific Name: <i>Chamaesyce platysperma</i>
Common Name: Narrow-leaved nightshade Status: Species of Concern	Scientific Name: <i>Solanum tenuilobatum</i>
Common Name: Green liveforever Status: Species of Concern	Scientific Name: <i>Dudleya virens</i>
Common Name: Three Peaks jewelflower Status: Species of Concern	Scientific Name: <i>Streptanthus morrisonii elatus</i>
Common Name: Big Bear milk-vetch Status: Species of Concern	Scientific Name: <i>Astragalus lentiginosus sierrae</i>
Common Name: Deane's milk-vetch Status: Species of Concern	Scientific Name: <i>Astragalus deanei</i>
Common Name: Ft. Tejon wooly-sunflower Status: Species of Concern	Scientific Name: <i>Eriophyllum lanatum hallii</i>
Common Name: El Dorado mule-ears Status: Species of Concern	Scientific Name: <i>Wyethia reticulata</i>
Common Name: Siskiyou onion Status: Species of Concern	Scientific Name: <i>Allium tribracteatum</i>
Common Name: Enterprise clarkia Status: Species of Concern	Scientific Name: <i>Clarkia mosquinii xerophila</i>
Common Name: San Francisco Bay spineflower Status: Species of Concern	Scientific Name: <i>Chorizanthe cuspidata cuspidata</i>

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Santa Cruz silverpuffs Status: Species of Concern	Scientific Name: Stebbinsoseris decipiens
Common Name: Hetch Hetchy monkey-flower Status: Species of Concern	Scientific Name: Mimulus filicaulis
Common Name: Caliente clarkia Status: Species of Concern	Scientific Name: Clarkia tembloriensis ssp. calientensis
Common Name: Lemon lily Status: Species of Concern	Scientific Name: Lilium parryi
Common Name: Two carpeled dwarf-flax Status: Species of Concern	Scientific Name: Hesperolinon bicarpellatum
Common Name: Baker's meadowfoam Status: Species of Concern	Scientific Name: Limnanthes bakeri

Group:Insects

Common Name: Denning's cryptic caddisfly Status: Species of Concern	Scientific Name: Cryptochia denningi
Common Name: Shirrtail Creek stonefly Status: Species of Concern	Scientific Name: Megaleuctra sierra
Common Name: Sonoma arctic skipper Status: Species of Concern	Scientific Name: Carterocephalus palaemon ssp.
Common Name: Globose dune beetle Status: Species of Concern	Scientific Name: Coelus globosus
Common Name: Sierra pygmy grasshopper Status: Species of Concern	Scientific Name: Tetrix sierrana
Common Name: Bumblebee scarab Status: Species of Concern	Scientific Name: Lichnanthe ursina
Common Name: Franklin's bumblebee Status: Under Review	Scientific Name: Bombus franklini
Common Name: Gold rush hanging fly Status: Species of Concern	Scientific Name: Orbittacus obscurus
Common Name: Brownish dubiraphian riffle beetle Status: Species of Concern	Scientific Name: Dubiraphia brunnescens
Common Name: Coachella Valley jerusalem cricket Status: Species of Concern	Scientific Name: Stenopelmatus cahuilansis
Common Name: Desert monkey grasshopper Status: Species of Concern	Scientific Name: Psychomastix deserticola
Common Name: Point Conception jerusalem cricket Status: Species of Concern	Scientific Name: Ammopelmatus muwu

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Sacramento anthicid Status: Species of Concern	Scientific Name: Anthicus sacramento
Common Name: Wawona riffle beetle Status: Species of Concern	Scientific Name: Atractelmis wawona
Common Name: San Joaquin tiger beetle Status: Species of Concern	Scientific Name: Cicindela tranquebarica ssp.
Common Name: Sagehen Creek goeracean caddisfly Status: Species of Concern	Scientific Name: Goeracea oregona
Common Name: Hopping's blister beetle Status: Species of Concern	Scientific Name: Lytta hoppingi
Common Name: Kelso Dune glaresis scarab Status: Species of Concern	Scientific Name: Glaresis arenata
Common Name: Wilbur Springs shore fly Status: Species of Concern	Scientific Name: Paracoenia calida
Common Name: Antioch andrenid bee Status: Species of Concern	Scientific Name: Perdita scitula antiochensis
Common Name: Point Reyes blue Status: Species of Concern	Scientific Name: Icaricia icariodes ssp.
Common Name: Simple hydroporus diving beetle Status: Species of Concern	Scientific Name: Hydroporus simplex
Common Name: Antioch cophuran robberfly Status: Species of Concern	Scientific Name: Cophura hurdi
Common Name: MacNeill sooty wing skipper Status: Species of Concern	Scientific Name: Hesperopsis graciellae
Common Name: King's Creek ecclisomyian caddisfly Status: Species of Concern	Scientific Name: Ecclisomyia bilera
Common Name: King's Creek parapsyche caddisfly Status: Species of Concern	Scientific Name: Parapsyche extensa
Common Name: Kings Canyon cryptochian caddisfly Status: Species of Concern	Scientific Name: Cryptochia excella
Common Name: San Clemente Island coenonycha beetle Status: Species of Concern	Scientific Name: Coenonycha clementina
Common Name: Spiny rhyacophilan caddisfly Status: Species of Concern	Scientific Name: Rhyacophila spinata
Common Name: Delta june beetle Status: Species of Concern	Scientific Name: Polyphylla stellata
Common Name: Trinity Alps ground beetle Status: Species of Concern	Scientific Name: Nebria sahlbergii triad

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: San Francisco lacewing Status: Species of Concern	Scientific Name: Nothochrysa californica
Common Name: San Gabriel Mountains blue Status: Species of Concern	Scientific Name: Plejebus saepiolus ssp.
Common Name: White Mountains copper Status: Species of Concern	Scientific Name: Lycaena rubicus ssp.
Common Name: Oso Flaco patch butterfly Status: Species of Concern	Scientific Name: Chlosyne leanira osoflaco
Common Name: Golden-horned caddisfly Status: Species of Concern	Scientific Name: Neothremma genella
Common Name: Rude's long-horned beetle Status: Species of Concern	Scientific Name: Necydalis rudei
Common Name: Busck's gall moth Status: Species of Concern	Scientific Name: Carolella busckana
Common Name: Andrew's marble butterfly Status: Species of Concern	Scientific Name: Euchloe hyantis andrewsi
Common Name: [Unnamed] ground beetle Status: Species of Concern	Scientific Name: Scaphinotus behrensi
Common Name: White Mountains saepiolus blue Status: Species of Concern	Scientific Name: Plejebus saepiolus ssp.
Common Name: White Mountains sandhill skipper Status: Species of Concern	Scientific Name: Polites sabuleti albomontana
Common Name: Greenest tiger beetle Status: Species of Concern	Scientific Name: Cicindela tranquebarica viridissima
Common Name: Siskiyou caddisfly Status: Species of Concern	Scientific Name: Neothremma siskiyou
Common Name: Casey's June Beetle Status: Endangered	Scientific Name: Dinacoma caseyi
Common Name: Channel Islands dune beetle Status: Species of Concern	Scientific Name: Coelus pacificus
Common Name: Hurd's metapogon robberfly Status: Species of Concern	Scientific Name: Metapogon hurdi
Common Name: Molestan blister beetle Status: Species of Concern	Scientific Name: Lytta molesta
Common Name: Nelson's miloderes weevil Status: Species of Concern	Scientific Name: Miloderes nelsoni
Common Name: Lake Tahoe benthic stonefly Status: Species of Concern	Scientific Name: Capnia lacustra

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Bilobed rhyacophilan caddisfly Status: Species of Concern	Scientific Name: Rhyacophila mosana
Common Name: Santa Cruz Island shore weevil Status: Species of Concern	Scientific Name: Trigonoscuta stantoni
Common Name: Ancient ant Status: Species of Concern	Scientific Name: Smithistruma reliquia
Common Name: Pinnacles shield-back katydid Status: Species of Concern	Scientific Name: Idiostatus kathleenae
Common Name: Oso Flaco robber fly Status: Species of Concern	Scientific Name: Ablautus schlingeri
Common Name: Morro Bay blue butterfly Status: Species of Concern	Scientific Name: Icaricia icarioides moroensis
Common Name: Valley mydas fly Status: Under Review	Scientific Name: Rhapsiomidas trochilus
Common Name: Giuliani's dubiraphian riffle beetle Status: Species of Concern	Scientific Name: Dubiraphia giulianii
Common Name: Amphibious caddisfly Status: Species of Concern	Scientific Name: Desmona bethula
Common Name: Cheese-weed moth lacewing Status: Species of Concern	Scientific Name: Oliarces clara
Common Name: Monarch butterfly Status: Under Review	Scientific Name: Danaus plexippus plexippus
Common Name: Humboldt ground beetle Status: Species of Concern	Scientific Name: Scaphinotus longiceps
Common Name: Curved-foot hygrotus diving beetle Status: Species of Concern	Scientific Name: Hygrotus curvipes
Common Name: Mono checkerspot Status: Species of Concern	Scientific Name: Euphydryas editha monoensis
Common Name: White Mountains icarioides blue Status: Species of Concern	Scientific Name: Plejebus icarioides ssp.
Common Name: Pinnacles optioservus riffle beetle Status: Species of Concern	Scientific Name: Optioservus canus
Common Name: Long-tailed caddisfly Status: Species of Concern	Scientific Name: Farula sp.
Common Name: Santa Monica shieldback katydid Status: Species of Concern	Scientific Name: Neduba longipennis
Common Name: Mission blue butterfly Status: Endangered	Scientific Name: Icaricia icarioides missionensis

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Myrtle's silverspot butterfly Status: Endangered	Scientific Name: <i>Speyeria zerene myrtleae</i>
Common Name: San Bruno elfin butterfly Status: Endangered	Scientific Name: <i>Callophrys mossii bayensis</i>
Common Name: Callippe silverspot butterfly Status: Endangered	Scientific Name: <i>Speyeria callippe callippe</i>
Common Name: Delhi Sands flower-loving fly Status: Endangered	Scientific Name: <i>Rhaphiomidas terminatus abdominalis</i>
Common Name: California diplectronon caddisfly Status: Species of Concern	Scientific Name: <i>Diplectrona californica</i>
Common Name: Wandering skipper Status: Species of Concern	Scientific Name: <i>Panoquina errans</i>
Common Name: [Unnamed] riffle beetle Status: Species of Concern	Scientific Name: <i>Microcylleopus similis</i>
Common Name: Spring Mountains icarioides blue Status: Species of Concern	Scientific Name: <i>Plejebus icarioides ssp.</i>
Common Name: Lange's El Segundo Dune weevil Status: Species of Concern	Scientific Name: <i>Onychobaris langei</i>
Common Name: Sandy beach tiger beetle Status: Species of Concern	Scientific Name: <i>Cicindela hirticollis gravida</i>
Common Name: Yellow-banded andrenid bee Status: Species of Concern	Scientific Name: <i>Perdita hirticeps luteocincta</i>
Common Name: Leech's chaetarthrian water scavenger beetle Status: Species of Concern	Scientific Name: <i>Chaetarthria leechi</i>
Common Name: San Gabriel Mountains elfin Status: Species of Concern	Scientific Name: <i>Incisalia mossii ssp.</i>
Common Name: Wooly hydroporus diving beetle Status: Species of Concern	Scientific Name: <i>Hydroporus hirsutus</i>
Common Name: Fort Dick limnephilus caddisfly Status: Species of Concern	Scientific Name: <i>Limnephilus atercus</i>
Common Name: Ciervo aegialian scarab Status: Species of Concern	Scientific Name: <i>Aegialia concinna</i>
Common Name: Cold Spring caddisfly Status: Species of Concern	Scientific Name: <i>Lepidostoma ermanae</i>
Common Name: White Mountains skipper Status: Species of Concern	Scientific Name: <i>Hesperia mirimae ssp.</i>
Common Name: Doyen's trigonoscuta dune weevil	Scientific Name: <i>Trigonoscuta sp.</i>

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Status: Species of Concern

Common Name: Siskiyou ground beetle
Status: Species of Concern

Scientific Name: *Nebria gebleri siskiyouensis*

Common Name: Antioch mutillid wasp
Status: Species of Concern

Scientific Name: *Myrmosula pacifica*

Common Name: Hermes copper butterfly
Status: Candidate

Scientific Name: *Lycaena hermes*

Common Name: Confusion caddisfly
Status: Species of Concern

Scientific Name: *Cryptochia shasta*

Common Name: Death Valley june beetle
Status: Species of Concern

Scientific Name: *Polyphylla erratica*

Common Name: Ford's sand dune moth
Status: Species of Concern

Scientific Name: *Psammobotys fordii*

Common Name: Dorothy's El Segundo Dune weevil
Status: Species of Concern

Scientific Name: *Trigonoscuta dorothea dorothea*

Common Name: Santa Catalina Island trigonoscuta weevil
Status: Species of Concern

Scientific Name: *Trigonoscuta catalina*

Common Name: Saratoga Springs belostoman bug
Status: Species of Concern

Scientific Name: *Belostoma saratogae*

Common Name: Antioch Dunes anthicid
Status: Species of Concern

Scientific Name: *Anthicus antiochensis*

Common Name: Wing-shoulder minute moss beetle
Status: Species of Concern

Scientific Name: *Ochthebius crassalus*

Common Name: Antioch sphecid wasp
Status: Species of Concern

Scientific Name: *Philanthus nasalis*

Common Name: Dohrn's elegant eucnemid beetle
Status: Species of Concern

Scientific Name: *Paleoxenus dohrni*

Common Name: Redheaded sphecid wasp
Status: Species of Concern

Scientific Name: *Eucerceris ruficeps*

Common Name: [Unnamed] riffle beetle
Status: Species of Concern

Scientific Name: *Microcylleopus fomicoideus*

Common Name: Boharts' blue
Status: Species of Concern

Scientific Name: *Philotiella speciosa bohartorum*

Common Name: Castle Crags rhyacophilan caddisfly
Status: Species of Concern

Scientific Name: *Rhyacophila lineata*

Common Name: Middlekauf's shieldback katydid
Status: Species of Concern

Scientific Name: *Idiostatus middlekaufi*

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Atascadero june beetle Status: Species of Concern	Scientific Name: <i>Polyphylla nubila</i>
Common Name: Travertine band-thigh diving beetle Status: Species of Concern	Scientific Name: <i>Hygrotus fontinalis</i>
Common Name: Leech's skyline diving beetle Status: Species of Concern	Scientific Name: <i>Hydroporus leechi</i>
Common Name: South Forks ground beetle Status: Species of Concern	Scientific Name: <i>Nebria darlingtoni</i>
Common Name: Morrison's blister beetle Status: Species of Concern	Scientific Name: <i>Lytta morrisoni</i>
Common Name: Marin elfin Status: Species of Concern	Scientific Name: <i>Incisalia mossii</i> ssp.
Common Name: Saline Valley snow-front june beetle Status: Species of Concern	Scientific Name: <i>Polyphylla anteronivea</i>
Common Name: Wilbur Springs minute moss beetle Status: Species of Concern	Scientific Name: <i>Ochthebius reticulus</i>
Common Name: Tehachapi Mountain silverspot Status: Species of Concern	Scientific Name: <i>Speyeria egleis tehachapina</i>
Common Name: Valley oak ant Status: Under Review	Scientific Name: <i>Proceratium californicum</i>
Common Name: Coachella giant sand treader cricket Status: Species of Concern	Scientific Name: <i>Macrobaenetes valgum</i>
Common Name: Ricksecker's water scavenger beetle Status: Species of Concern	Scientific Name: <i>Hydrochara rickseckeri</i>
Common Name: Brown-tassel trigonoscuta weevil Status: Species of Concern	Scientific Name: <i>Trigonoscuta brunneotesselata</i>
Common Name: Henne's eucosman moth Status: Species of Concern	Scientific Name: <i>Eucosma hennei</i>
Common Name: Samwell Cave cricket Status: Species of Concern	Scientific Name: <i>Pristoceuthophilus</i> sp.
Common Name: Kelso jerusalem cricket Status: Species of Concern	Scientific Name: <i>Ammopelmatus kelsoensis</i>
Common Name: White sand bear scarab Status: Species of Concern	Scientific Name: <i>Lichnanthe albopilosa</i>
Common Name: Dry Creek cliff strider bug Status: Species of Concern	Scientific Name: <i>Oravelia pege</i>
Common Name: Antioch efferian robberfly Status: Species of Concern	Scientific Name: <i>Efferia antiochi</i>

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: San Emigdio blue
Status: Species of Concern
Scientific Name: *Plebulina emigdionis*

Common Name: Blaisdell trigonoscuta weevil
Status: Species of Concern
Scientific Name: *Trigonoscuta blaisdelli*

Common Name: Mojave Desert blister beetle
Status: Species of Concern
Scientific Name: *Lytta inseparata*

Common Name: Oso Flaco flightless moth
Status: Species of Concern
Scientific Name: *Areniscythriss brachypteris*

Common Name: Kelso giant sand treader cricket
Status: Species of Concern
Scientific Name: *Macrobaenetes kelsoensis*

Common Name: Oblivious tiger beetle
Status: Species of Concern
Scientific Name: *Cicindela latesignata obliviosa*

Common Name: Moestan blister beetle
Status: Species of Concern
Scientific Name: *Lytta moesta*

Group:Lichens

Common Name: [Unnamed] lichen
Status: Species of Concern
Scientific Name: *Texosporium sancti-jacobi*

Common Name: Splitting yarn lichen
Status: Species of Concern
Scientific Name: *Sulcaria isidiisera*

Group:Mammals

Common Name: Tipton kangaroo rat
Status: Endangered
Scientific Name: *Dipodomys nitratoides nitratoides*

Common Name: White-footed vole
Status: Species of Concern
Scientific Name: *Arborimus albipes*

Common Name: Buena Vista Lake ornate Shrew
Status: Endangered
Scientific Name: *Sorex ornatus relictus*

Common Name: Riparian woodrat (=San Joaquin Valley)
Status: Endangered
Scientific Name: *Neotoma fuscipes riparia*

Common Name: White-eared pocket mouse
Status: Species of Concern
Scientific Name: *Perognathus alticola alticola*

Common Name: San Nicolas Island fox
Status: Species of Concern
Scientific Name: *Urocyon littoralis dickeyi*

Common Name: Mountain beaver
Status: Species of Concern
Scientific Name: *Aplodontia rufa californica*

Common Name: Owens Valley California vole
Status: Species of Concern
Scientific Name: *Microtus californicus vallicola*

Common Name: Allen's big-eared bat
Scientific Name: *Idionycteris phyllotis*

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Status: Species of Concern

Common Name: California red tree vole
Status: Species of Concern

Scientific Name: Arborimus pomo

Common Name: Salt marsh ornate shrew
Status: Species of Concern

Scientific Name: Sorex ornatus salicornicus

Common Name: Yuma hispid cotton rat
Status: Species of Concern

Scientific Name: Sigmodon hispidus eremicus

Common Name: Berkeley kangaroo rat
Status: Species of Concern

Scientific Name: Dipodomys heermanni berkleyensis

Common Name: Point Reyes jumping mouse
Status: Species of Concern

Scientific Name: Zapus trinotatus orarius

Common Name: Pacific Townsend's big-eared bat
Status: Species of Concern

Scientific Name: Plecotus townsendii townsendii

Common Name: Greater western mastiff-bat
Status: Species of Concern

Scientific Name: Eumops perotis californicus

Common Name: Pallid San Diego pocket mouse
Status: Species of Concern

Scientific Name: Perognathus fallax pallidus

Common Name: Earthquake Merriam's kangaroo rat
Status: Species of Concern

Scientific Name: Dipodomys merriami collinus

Common Name: Los Angeles little pocket mouse
Status: Species of Concern

Scientific Name: Perognathus longimembris brevinasus

Common Name: Lodgepole chipmunk
Status: Species of Concern

Scientific Name: Tamias speciosus speciosus

Common Name: Short-nosed kangaroo rat
Status: Species of Concern

Scientific Name: Dipodomys nitratooides brevinasus

Common Name: Tulare grasshopper mouse
Status: Species of Concern

Scientific Name: Onychomys torridus tularensis

Common Name: Mojave river vole
Status: Species of Concern

Scientific Name: Microtus californicus mohavensis

Common Name: San Francisco dusky-footed woodrat
Status: Species of Concern

Scientific Name: Neotoma fuscipes annectens

Common Name: San Diego black-tailed jackrabbit
Status: Species of Concern

Scientific Name: Lepus californicus bennettii

Common Name: Guadalupe fur seal
Status: Threatened

Scientific Name: Arctocephalus townsendi

Common Name: Dulzura California pocket mouse
Status: Species of Concern

Scientific Name: Perognathus californicus femoralis

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Stephens' California vole Status: Species of Concern	Scientific Name: <i>Microtus californicus stephensi</i>
Common Name: Salt marsh vagrant shrew Status: Species of Concern	Scientific Name: <i>Sorex vagrans halicoetes</i>
Common Name: San Diego desert woodrat Status: Species of Concern	Scientific Name: <i>Neotoma lepida intermedia</i>
Common Name: Palm Springs little pocket mouse Status: Species of Concern	Scientific Name: <i>Perognathus longimembris bangsi</i>
Common Name: Pale Townsend's big-eared bat Status: Species of Concern	Scientific Name: <i>Plecotus townsendii pallescens</i>
Common Name: Occult little brown bat Status: Species of Concern	Scientific Name: <i>Myotis lucifugus occultus</i>
Common Name: California wolverine Status: Species of Concern	Scientific Name: <i>Gulo gulo luteus</i>
Common Name: San Bernardino northern flying squirrel Status: Under Review	Scientific Name: <i>Glaucomys sabrinus californicus</i>
Common Name: Tehachapi white-eared pocket mouse Status: Species of Concern	Scientific Name: <i>Perognathus alticola inexpectatus</i>
Common Name: Colorado River cotton rat Status: Species of Concern	Scientific Name: <i>Sigmodon arizonae plenus</i>
Common Name: Suisun ornate shrew Status: Species of Concern	Scientific Name: <i>Sorex ornatus sinuosus</i>
Common Name: Salinas pocket mouse Status: Species of Concern	Scientific Name: <i>Perognathus inornatus psammophilus</i>
Common Name: Southern grasshopper mouse Status: Species of Concern	Scientific Name: <i>Onychomys torridus ramona</i>
Common Name: Channel Islands spotted skunk Status: Species of Concern	Scientific Name: <i>Spilogale putorius amphiala</i>
Common Name: Yuma puma Status: Species of Concern	Scientific Name: <i>Felis concolor browni</i>
Common Name: Island fox Status: Status Undefined	Scientific Name: <i>Urocyon littoralis</i>
Common Name: Jacumba little pocket mouse Status: Species of Concern	Scientific Name: <i>Perognathus longimembris internationalis</i>
Common Name: Spotted bat Status: Species of Concern	Scientific Name: <i>Euderma maculatum</i>
Common Name: Point Reyes mountain beaver Status: Species of Concern	Scientific Name: <i>Aplodontia rufa phaea</i>

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Monterey ornate shrew Status: Species of Concern	Scientific Name: <i>Sorex ornatus salarius</i>
Common Name: San Joaquin pocket mouse Status: Species of Concern	Scientific Name: <i>Perognathus inornatus</i>
Common Name: Northwestern San Diego pocket mouse Status: Species of Concern	Scientific Name: <i>Perognathus fallax fallax</i>
Common Name: Cave myotis Status: Species of Concern	Scientific Name: <i>Myotis velifer</i>
Common Name: California leaf-nosed bat Status: Species of Concern	Scientific Name: <i>Macrotus californicus</i>
Common Name: Sierra Nevada snowshoe hare Status: Species of Concern	Scientific Name: <i>Lepus americanus tahoensis</i>
Common Name: San Clemente deer mouse Status: Species of Concern	Scientific Name: <i>Peromyscus maniculatus clementis</i>
Common Name: Marysville California kangaroo rat Status: Species of Concern	Scientific Name: <i>Dipodomys californicus eximius</i>
Common Name: San Clemente Island fox Status: Species of Concern	Scientific Name: <i>Urocyon littoralis clementae</i>
Common Name: Merced kangaroo rat Status: Species of Concern	Scientific Name: <i>Dipodomys heermanni dixonii</i>
Common Name: Nelson's antelope ground squirrel Status: Species of Concern	Scientific Name: <i>Ammospermophilus nelsoni</i>
Common Name: Mexican long-tongued bat Status: Species of Concern	Scientific Name: <i>Choeronycteris mexicana</i>
Common Name: Alameda Island mole Status: Species of Concern	Scientific Name: <i>Scapanus latimanus parvus</i>
Common Name: Monterey dusky-footed woodrat Status: Species of Concern	Scientific Name: <i>Neotoma fuscipes luciana</i>
Common Name: Santa Catalina ornate shrew Status: Species of Concern	Scientific Name: <i>Sorex ornatus willetti</i>
Common Name: Riparian brush rabbit Status: Endangered	Scientific Name: <i>Sylvilagus bachmani riparius</i>

Group: Reptiles

Common Name: San Diego ringneck snake Status: Species of Concern	Scientific Name: <i>Diadophis punctatus similis</i>
Common Name: California horned lizard Status: Species of Concern	Scientific Name: <i>Phrynosoma coronatum frontale</i>

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Coronado skink Status: Species of Concern	Scientific Name: <i>Eumeces skiltonianus interparietalis</i>
Common Name: Rosy boa Status: Species of Concern	Scientific Name: <i>Charina trivirgata</i>
Common Name: San Diego banded gecko Status: Species of Concern	Scientific Name: <i>Coleonyx variegatus abbotti</i>
Common Name: San Bernardino ringneck snake Status: Species of Concern	Scientific Name: <i>Diadophis punctatus modestus</i>
Common Name: Banded gila monster Status: Species of Concern	Scientific Name: <i>Heloderma suspectum cinctum</i>
Common Name: San Diego Mountain king snake Status: Species of Concern	Scientific Name: <i>Lampropeltis zonata pulchra</i>
Common Name: Panamint alligator lizard Status: Under Review	Scientific Name: <i>Elgaria panamintina</i>
Common Name: Two-striped garter snake Status: Species of Concern	Scientific Name: <i>Thamnophis hammondi</i>
Common Name: Santa Cruz Island gopher snake Status: Species of Concern	Scientific Name: <i>Pituophis melanoleucus pumilis</i>
Common Name: South coast garter snake Status: Species of Concern	Scientific Name: <i>Thamnophis sirtalis</i> ssp.
Common Name: Southwestern pond turtle Status: Species of Concern	Scientific Name: <i>Actinemys marmorata pallida</i>
Common Name: Northern red diamond rattlesnake Status: Species of Concern	Scientific Name: <i>Crotalus ruber ruber</i>
Common Name: Silvery legless lizard Status: Species of Concern	Scientific Name: <i>Anniella pulchra pulchra</i>
Common Name: Southern rubber boa Status: Under Review	Scientific Name: <i>Charina bottae umbratica</i>
Common Name: Chuckwalla Status: Species of Concern	Scientific Name: <i>Sauromalus ater</i>
Common Name: San Bernardino mountain king snake Status: Species of Concern	Scientific Name: <i>Lampropeltis zonata parvirubra</i>
Common Name: Coastal rosy boa Status: Species of Concern	Scientific Name: <i>Charina trivirgata roseofusca</i>
Common Name: Sierra night lizard Status: Species of Concern	Scientific Name: <i>Xantusia vigilis sierrae</i>
Common Name: Coastal western whiptail Status: Species of Concern	Scientific Name: <i>Cnemidophorus tigris multiscutatus</i>

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Orange-throated whiptail
Status: Species of Concern
Scientific Name: *Cnemidophorus hyperythrus*

Common Name: San Diego horned lizard
Status: Species of Concern
Scientific Name: *Phrynosoma coronatum blainvillii*

Common Name: Coast patch-nosed snake
Status: Species of Concern
Scientific Name: *Salvadora hexalepis virgultea*

Common Name: San Joaquin whipsnake
Status: Species of Concern
Scientific Name: *Masticophis flagellum ruddocki*

Common Name: Mojave fringe-toed Lizard
Status: Status Undefined
Scientific Name: *Uma scoparia*

Common Name: Barefoot gecko
Status: Species of Concern
Scientific Name: *Coleonyx switaki*

Group:Snails

Common Name: Peninsula Coast Range shoulderband
Status: Species of Concern
Scientific Name: *Helminthoglypta nickliniana awania*

Common Name: White desertsnaill
Status: Species of Concern
Scientific Name: *Eremarionta immaculata*

Common Name: Newcomb's littorine snail
Status: Species of Concern
Scientific Name: *Algamorda newcombiana*

Common Name: Owens springsnaill
Status: Species of Concern
Scientific Name: *Pyrgulopsis owensensis*

Common Name: [Unnamed] snail
Status: Species of Concern
Scientific Name: *Valvata virens*

Common Name: Cockerell's striate disc
Status: Species of Concern
Scientific Name: *Discus shemeki cockerelli*

Common Name: Yates' tight coin
Status: Species of Concern
Scientific Name: *Ammonitella yatesii*

Common Name: San Clemente islandsnaill
Status: Species of Concern
Scientific Name: *Micrarionta gabbii*

Common Name: Aardhals springsnaill
Status: Species of Concern
Scientific Name: *Pyrgulopsis aardahli*

Common Name: Morongo desertsnaill
Status: Species of Concern
Scientific Name: *Eremarionta morongoana*

Common Name: Wongs springsnaill
Status: Species of Concern
Scientific Name: *Pyrgulopsis wongi*

Common Name: Pomo bronze shoulderband
Status: Species of Concern
Scientific Name: *Helminthoglypta arrosa pomoensis*

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Grapevine Springs squat tryonia Status: Species of Concern	Scientific Name: Tryonia rowlandsi
Common Name: Victorville shoulderband Status: Species of Concern	Scientific Name: Helminthoglypta mohaveana
Common Name: Bridges' Coast Range shoulderband Status: Species of Concern	Scientific Name: Helminthoglypta nickliniana bridgesi
Common Name: Kern shoulderband Status: Species of Concern	Scientific Name: Helminthoglypta callistoderma
Common Name: [Unnamed] islandsnail Status: Species of Concern	Scientific Name: Micrarionta rowelli bakerensis
Common Name: California McCoy snail islandsnail Status: Species of Concern	Scientific Name: Micrarionta rowelli mccoiana
Common Name: Badwater snail Status: Species of Concern	Scientific Name: Assiminea infima
Common Name: Mimic tryonia Status: Species of Concern	Scientific Name: Tryonia imitator
Common Name: Williams' bronze shoulderband Status: Species of Concern	Scientific Name: Helminthoglypta arrosa williamsi
Common Name: Santa Barbara islandsnail Status: Species of Concern	Scientific Name: Micrarionta facta
Common Name: Hirsute sierra sideband Status: Species of Concern	Scientific Name: Monadenia mormonum hirsuta
Common Name: Yosemite mariposa sideband Status: Species of Concern	Scientific Name: Monadenia hillebrandi yosemitensis
Common Name: Thousand Palms desertsnaill Status: Species of Concern	Scientific Name: Eremarionta millepalmarum
Common Name: Button's Sierra sideband Status: Species of Concern	Scientific Name: Monadenia mormonum buttoni
Common Name: White Abalone Status: Endangered	Scientific Name: Haliotis sorenseni
Common Name: Grapevine Springs elongate tryonia Status: Species of Concern	Scientific Name: Tryonia margae
Common Name: Redwood shoulderband Status: Species of Concern	Scientific Name: Helminthoglypta sequoicola consors
Common Name: Merced Canyon shoulderband Status: Species of Concern	Scientific Name: Helminthoglypta allynsmithi
Common Name: Wintu sideband Status: Under Review	Scientific Name: Monadenia troglodytes ssp. wintu

NATURAL AREAS MAP FINDINGS

Federal Endangered Species from the U.S. Fish and Wildlife for CA State (Continued...)

Common Name: Globular pebblesnail Status: Under Review	Scientific Name: Fluminicola sph
Common Name: Fish Slough springsnail Status: Species of Concern	Scientific Name: Pyrgulopsis perturbata
Common Name: Santa Barbara shelled slug Status: Species of Concern	Scientific Name: Binneya notabilis
Common Name: Shasta sideband Status: Under Review	Scientific Name: Monadenia troglodytes troglodytes
Common Name: Robust tryonia Status: Species of Concern	Scientific Name: Tryonia robusta
Common Name: Peninsular Range shoulderband Status: Species of Concern	Scientific Name: Helminthoglypta traski coelata
Common Name: Catalina mountainsnail Status: Species of Concern	Scientific Name: Radiocentrum avalonense
Common Name: Keeled sideband Status: Species of Concern	Scientific Name: Monadenia circumcarinata
Common Name: San Nicolas islandsnail Status: Species of Concern	Scientific Name: Micrarionta feralis
Common Name: Pricklypear islandsnail Status: Species of Concern	Scientific Name: Micrarionta opuntia

Map ID
Direction
Distance
Distance (ft.)

EDR ID
Database

1
North
0-1/8 mi
0

CAESP00223488
CA Endangered Species

Common Name: flat-tailed horned lizard
Scientific Name: Phrynosoma mcallii
Global Rank: G3
State Rank: S2
CA Rare Plant Rank: Not Applicable
Federal Listing Status: None
State Listing Status: None
Element Type: Animal
Element Occurrence #: 205

Common Name: mud nama
Scientific Name: Nama stenocarpum
Global Rank: G4G5

NATURAL AREAS MAP FINDINGS

State Rank: S1S2
 CA Rare Plant Rank: Plants rare, threatened, or endangered in CA, but more common elsewhere; fairly threatened in CA
 Federal Listing Status: None
 State Listing Status: None
 Element Type: Plant
 Element Occurrence #: 1

2
 East
 0-1/8 mi
 364

Agency: Bureau of Indian Affairs
 Group: Bureau of Indian Affairs
 Level: Federal

CAGO0000048040
 CA Land Ownership

3
 South
 1/4-1/2 mi
 2334

Common Name: flat-tailed horned lizard
 Scientific Name: *Phrynosoma mcallii*
 Global Rank: G3
 State Rank: S2
 CA Rare Plant Rank: Not Applicable
 Federal Listing Status: None
 State Listing Status: None
 Element Type: Animal
 Element Occurrence #: 205

CAESP00223703
 CA Endangered Species

Common Name: mud nama
 Scientific Name: *Nama stenocarpum*
 Global Rank: G4G5
 State Rank: S1S2
 CA Rare Plant Rank: Plants rare, threatened, or endangered in CA, but more common elsewhere; fairly threatened in CA
 Federal Listing Status: None
 State Listing Status: None
 Element Type: Plant
 Element Occurrence #: 1

Common Name: Yuma clapper rail
 Scientific Name: *Rallus longirostris yumanensis*
 Global Rank: G5T3
 State Rank: S1

NATURAL AREAS MAP FINDINGS

CA Rare Plant Rank: Not Applicable
Federal Listing Status: Endangered
State Listing Status: Threatened
Element Type: Animal
Element Occurrence #: 15

B4
NNW
1/4-1/2 mi
2438

CANAPU000034675
CA PCT Lands

Property Name: Not Reported
Administrative Area: Not Reported
Owner: Bureau Of Land Management
Manager: Bureau Of Land Management
Updated: 07-FEB-05
Data Source: Bureau of Land Management
Admin Level: FEDERAL
Assessor Recorded Date: Not Reported

B5
NNW
1/4-1/2 mi
2439

CANAPA000095498
CA Protected Areas

Holding ID: 37378
Unit Name: BLM
Alternate Site Name: Not Reported
Owning Agency: United States Bureau of Land Management
Agency Jurisdiction: Federal
Agency Type: Federal Agency
Public Access: Open Access
Special Use: Not Reported
Year Acquired: 0
GAP Designation: Resource Management Area
Local Designation: BLM Resource Management Area
URL: Not Reported

A6
South
1/4-1/2 mi
2541

USCRTHB00064260
US Critical Land Habitat

Habitat Staus: Proposed
Species Name: Yellow-billed Cuckoo
Scientific Name: *Coccyzus americanus*

NATURAL AREAS MAP FINDINGS

Species Code: B06R
Listing Status: Threatened
Lead Office: 11420
Federal Register Pub: 79FR48547
Publication Date: 20140815

7
North
1/2-1 mi
2733

CAESP00223304
CA Endangered Species

Common Name: flat-tailed horned lizard
Scientific Name: Phrynosoma mcallii
Global Rank: G3
State Rank: S2
CA Rare Plant Rank: Not Applicable
Federal Listing Status: None
State Listing Status: None
Element Type: Animal
Element Occurrence #: 205

8
South
1/2-1 mi
2832

CANAPA000095693
CA Protected Areas

Holding ID: 37772
Unit Name: BLM
Alternate Site Name: Not Reported
Owning Agency: United States Bureau of Land Management
Agency Jurisdiction: Federal
Agency Type: Federal Agency
Public Access: Open Access
Special Use: Not Reported
Year Acquired: 0
GAP Designation: Resource Management Area
Local Designation: BLM Resource Management Area
URL: Not Reported

A9
South
1/2-1 mi
2832

CANAPU000034697
CA PCT Lands

Property Name: Not Reported
Administrative Area: Not Reported

NATURAL AREAS MAP FINDINGS

Owner: Bureau Of Land Management
Manager: Bureau Of Land Management
Updated: 07-FEB-05
Data Source: Bureau of Land Management
Admin Level: FEDERAL
Assessor Recorded Date: Not Reported

A10
South
1/2-1 mi
2968

CANAPA000095703
CA Protected Areas

Holding ID: 37371
Unit Name: BLM
Alternate Site Name: Not Reported
Owning Agency: United States Bureau of Land Management
Agency Jurisdiction: Federal
Agency Type: Federal Agency
Public Access: Open Access
Special Use: Not Reported
Year Acquired: 0
GAP Designation: Resource Management Area
Local Designation: BLM Resource Management Area
URL: Not Reported

C11
East
1/2-1 mi
3023

CANAPU000034687
CA PCT Lands

Property Name: Not Reported
Administrative Area: Not Reported
Owner: Bureau Of Land Management
Manager: Bureau Of Land Management
Updated: 07-FEB-05
Data Source: Bureau of Land Management
Admin Level: FEDERAL
Assessor Recorded Date: Not Reported

D12
East
1/2-1 mi
3061

CANAPU000034690
CA PCT Lands

Property Name: Not Reported
Administrative Area: Not Reported

NATURAL AREAS MAP FINDINGS

Owner: Bureau Of Land Management
Manager: Bureau Of Land Management
Updated: 07-FEB-05
Data Source: Bureau of Land Management
Admin Level: FEDERAL
Assessor Recorded Date: Not Reported

D13
East
1/2-1 mi
3159

CANAPA000095584
CA Protected Areas

Holding ID: 37376
Unit Name: BLM
Alternate Site Name: Not Reported
Owning Agency: United States Bureau of Land Management
Agency Jurisdiction: Federal
Agency Type: Federal Agency
Public Access: Open Access
Special Use: Not Reported
Year Acquired: 0
GAP Designation: Resource Management Area
Local Designation: BLM Resource Management Area
URL: Not Reported

C14
East
1/2-1 mi
3162

CANAPA000095568
CA Protected Areas

Holding ID: 37377
Unit Name: BLM
Alternate Site Name: Not Reported
Owning Agency: United States Bureau of Land Management
Agency Jurisdiction: Federal
Agency Type: Federal Agency
Public Access: Open Access
Special Use: Not Reported
Year Acquired: 0
GAP Designation: Resource Management Area
Local Designation: BLM Resource Management Area
URL: Not Reported

15
NW
1/2-1 mi
3696

CAESP00223443
CA Endangered Species

NATURAL AREAS MAP FINDINGS

Common Name: flat-tailed horned lizard
 Scientific Name: Phrynosoma mcallii
 Global Rank: G3
 State Rank: S2
 CA Rare Plant Rank: Not Applicable
 Federal Listing Status: None
 State Listing Status: None
 Element Type: Animal
 Element Occurrence #: 205

Common Name: California black rail
 Scientific Name: Laterallus jamaicensis coturniculus
 Global Rank: G4T1
 State Rank: S1
 CA Rare Plant Rank: Not Applicable
 Federal Listing Status: None
 State Listing Status: Threatened
 Element Type: Animal
 Element Occurrence #: 72

16
 SSE
 1/2-1 mi
 3787

CANAPA000095720
 CA Protected Areas

Holding ID: 37371
 Unit Name: BLM
 Alternate Site Name: Not Reported
 Owning Agency: United States Bureau of Land Management
 Agency Jurisdiction: Federal
 Agency Type: Federal Agency
 Public Access: Open Access
 Special Use: Not Reported
 Year Acquired: 0
 GAP Designation: Resource Management Area
 Local Designation: BLM Resource Management Area
 URL: Not Reported

17
 SE
 1/2-1 mi
 4944

CANAPA000095733
 CA Protected Areas

Holding ID: 37370
 Unit Name: BLM
 Alternate Site Name: Not Reported
 Owning Agency: United States Bureau of Land Management
 Agency Jurisdiction: Federal

NATURAL AREAS MAP FINDINGS

Agency Type: Federal Agency
Public Access: Open Access
Special Use: Not Reported
Year Acquired: 0
GAP Designation: Resource Management Area
Local Designation: BLM Resource Management Area
URL: Not Reported

E18
WSW
1/2-1 mi
4958

CAESP00223697
CA Endangered Species

Common Name: flat-tailed horned lizard
Scientific Name: *Phrynosoma mcallii*
Global Rank: G3
State Rank: S2
CA Rare Plant Rank: Not Applicable
Federal Listing Status: None
State Listing Status: None
Element Type: Animal
Element Occurrence #: 205

Common Name: Yuma clapper rail
Scientific Name: *Rallus longirostris yumanensis*
Global Rank: G5T3
State Rank: S1
CA Rare Plant Rank: Not Applicable
Federal Listing Status: Endangered
State Listing Status: Threatened
Element Type: Animal
Element Occurrence #: 15

F19
WSW
1/2-1 mi
5017

CANAPA000095675
CA Protected Areas

Holding ID: 37373
Unit Name: BLM
Alternate Site Name: Not Reported
Owning Agency: United States Bureau of Land Management
Agency Jurisdiction: Federal
Agency Type: Federal Agency
Public Access: Open Access
Special Use: Not Reported
Year Acquired: 0
GAP Designation: Resource Management Area

NATURAL AREAS MAP FINDINGS

Local Designation: BLM Resource Management Area
URL: Not Reported

E20
WSW
1/2-1 mi
5096

CAESP00223680
CA Endangered Species

Common Name: Yuma clapper rail
Scientific Name: *Rallus longirostris yumanensis*
Global Rank: G5T3
State Rank: S1
CA Rare Plant Rank: Not Applicable
Federal Listing Status: Endangered
State Listing Status: Threatened
Element Type: Animal
Element Occurrence #: 15

F21
WSW
1/2-1 mi
5100

CAESP00223725
CA Endangered Species

Common Name: mud nama
Scientific Name: *Nama stenocarpum*
Global Rank: G4G5
State Rank: S1S2
CA Rare Plant Rank: Plants rare, threatened, or endangered in CA, but more common elsewhere; fairly threatened in CA
Federal Listing Status: None
State Listing Status: None
Element Type: Plant
Element Occurrence #: 1

Common Name: Yuma clapper rail
Scientific Name: *Rallus longirostris yumanensis*
Global Rank: G5T3
State Rank: S1
CA Rare Plant Rank: Not Applicable
Federal Listing Status: Endangered
State Listing Status: Threatened
Element Type: Animal
Element Occurrence #: 15

22
WSW
1/2-1 mi
5111

CAESP00223672
CA Endangered Species

NATURAL AREAS MAP FINDINGS

Common Name: mud nama
Scientific Name: *Nama stenocarpum*
Global Rank: G4G5
State Rank: S1S2
CA Rare Plant Rank: Plants rare, threatened, or endangered in CA, but more common elsewhere; fairly threatened in CA
Federal Listing Status: None
State Listing Status: None
Element Type: Plant
Element Occurrence #: 1

23
WNW
1/2-1 mi
5123

CAESP00223442
CA Endangered Species

Common Name: California black rail
Scientific Name: *Laterallus jamaicensis coturniculus*
Global Rank: G4T1
State Rank: S1
CA Rare Plant Rank: Not Applicable
Federal Listing Status: None
State Listing Status: Threatened
Element Type: Animal
Element Occurrence #: 72

Endangered Species Codes

Global Imperilment Rank Codes - GRANK: Priority rank (1-5) based on number of occurrences through element's range.

G1 - Critically imperiled globally because of extreme rarity (5 or fewer occurrences or very few remaining individuals or acres) or because of some factor(s) making it especially vulnerable to extinction.

G2 - Imperiled globally because of rarity (6-20 occurrences or few remaining individuals or acres) or because of some factor(s) making it especially vulnerable to extinction.

G3 - Vulnerable. Either very rare and local throughout its range or found locally (even abundantly at some of its locations) in a restricted range. (e.g., a single western state, a physiographic region in the East) or because of other factors making it vulnerable to extinction throughout its range; in terms of occurrences, in the range of 21 - 100.

G4 - Apparently secure globally, though it may be quite rare in parts of its range, especially at the periphery.

G5 - Demonstrably secure globally, though it may be quite rare in parts of its range, especially at the periphery.

GH - Possibly extinct or eliminated. Of historical occurrence throughout its range, i.e., formerly part of the established biota, with the expectation that it may be rediscovered (e.g., Bachman's Warbler). For historic and ecological communities, no likelihood for rediscovery, but possibility of restoration (e.g., American Chestnut Forest).

GNA - Not applicable to the element at a global level. Includes Hybrids, Invasive species, species of Domestic Origin, Cultural communities, and communities that have been managed.

GNR - Rank not assigned.

GU - Unrankable. Possibly in peril range-wide but status uncertain; more information is needed.

GX - Believed to be extinct throughout range (e.g., Passenger Pigeon) with virtually no likelihood that it will be rediscovered. For an ecological community, no restoration potential.

G#G# - Rank with a range. Used to show the range of uncertainty, will not skip more than 1 rank.

T-RANKS - T subranks are given to global ranks when a subspecies, variety, or race is considered at the state level. The subrank is made up of a "T" plus a number or letter (1, 2, 3, 4, 5, H, U, X) with the same ranking rules as a full species.

State Rank Codes - SRANK: Priority rank (1-5) based on number of occurrences through element's range.

S1 - Critically imperiled, Extremely rare. Typically 5 or fewer estimated occurrences in the state, or only a few remaining individuals, may be especially vulnerable to extirpation.

S2 - Imperiled, very rare. Typically between 5 and 20 estimated occurrences or with many individuals in fewer occurrences, often susceptible to becoming extirpated.

S3 - Vulnerable, rare to uncommon. Typically between 21 and 100 estimated occurrences, may have fewer occurrences but with large number of individuals in some populations, may be susceptible to large-scale disturbances.

S4 - Common, apparently secure under present conditions. Typically 100 or more estimated occurrences, but may be fewer with many large populations, may be restricted to only a portion of the state, usually not susceptible to immediate threats.

S5 - Demonstrably widespread, common, and secure in the state and essentially ineradicable under present conditions.

SA - Accidental.

SH - Historically known from the state, but not verified for an extended period, usually 15 years.

SU - Unrankable, not assessed. Possibly in peril in the state, but status uncertain, more information is needed. When possible, the most likely rank is assigned and a question mark is added to show uncertainty.

SX - Apparently extirpated from state.

SNR - Unranked. The state rank not yet assessed.

SRF - Reported falsely in the state.

SE - Exotic for local area.

SZ - Birds that migrate through the state but have no identifiable location.

S#S# - State level of G#G#.

Endangered Species Codes, (Continued...)

General Ranking Notes

Q - A "Q" in the global rank indicates the element's taxonomic classification as a species is a matter of conjecture among scientists.

A - Accidental - far outside usual range

C - Captive or Cultivated only

HYB - Element represents an interspecific hybrid, not a species

R - Reported but not confirmed

Z - Zero Occurrences

Breeding Status Qualifiers (animals only)

B - Breeding population of the element

N - Nonbreeding population of the element

M - Migrant population

Historic Sites Map



- ★ Target Property
- ◇ Historic Sites
- ▭ Streets
- ▭ Federal Historic Areas
- ▭ County Boundary
- ▭ State Historic Areas
- ▭ Waterways
- ▭ US Indian Reservations
- ▭ Water
- ▭ Scenic Trail



<p>SITE NAME: Winterhaven ADDRESS: 518 Railroad Avenue Winterhaven CA 92283 LAT/LONG: 32.739392 / 114.634364</p>	<p>CLIENT: Ericsson-Grant Inc. CONTACT: Kevin Grant INQUIRY #: 4847962.1s DATE: February 7, 2017</p>	<p>TC4847962.1s Page 67 of 96</p>
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HISTORIC SITES MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)

EDR ID
 Database

1
 East
 0-1/8 mi
 421

Feature: Indian Reservation
 Name: Fort Yuma Indian Reservation
 Agency: BIA

CIND200823
 Indian Reservations

2
 ESE
 1/2-1 mi
 3424

Yuma Crossing and Associated Sites
 Banks of the Colorado River
 Yuma, AZ

USHDCNP00016082
 National Register of Hist. Places

Ref #: 66000197
 Multiple Property Name: Not Reported
 County: Yuma
 Restricted: Not Reported
 Certification: LISTED IN THE NATIONAL REGISTER
 Certification Date: 19661113
 Type: District
 # of Contrib Bldgs: 14
 # of Contrib Sites: 1
 # of Contrib Objects: 0
 # of Contrib Structs: 3
 Documents: <http://pdfhost.focus.nps.gov/docs/nrhp/text/66000197.PDF>

UNMAPPABLE HISTORIC SITES

Due to poor or inadequate address information, the following sites were not mapped:

Status
EDR ID
Database

FORT YUMA
On bank of Colorado River, 350 Picacho Rd
Winterhaven, CA

Unmappable
CA2016000000204
CA Historic Landmarks

Site #: NO. 806
County: Imperial
Description: Originally called Camp Calhoun, the site was first used as a U.S. military post in 1849. A fire destroyed the original buildings. By 1855 the barracks had been rebuilt. Called Camp Yuma in 1852, it became Fort Yuma after reconstruction. Transferred to the Department of the Interior and the Quechan Indian Tribe in 1884, it became a boarding school operated by the Catholic Church until 1900.
URL: http://ohp.parks.ca.gov/?page_id=21421

MISSION LA PURISIMA CONCEPCION (SITE OF)
St. Thomas Indian Mission, Indian Hill on Picacho Rd, Fort
Yuma
1 mi S of Winterhaven, CA

Unmappable
CA2016000000202
CA Historic Landmarks

Site #: NO. 350
County: Imperial
Description: In October 1780, Father Francisco Garces and companions began Mission La Purisima Concepcion. The mission/pueblo site was inadequately supported. Colonists ignored Indian rights, usurped the best lands, and destroyed Indian crops. Completely frustrated and disappointed, the Quechans (Yumas) and their allies destroyed Concepcion on July 17-19, 1781.
URL: http://ohp.parks.ca.gov/?page_id=21421

PICACHO MINES
On Picacho Rd
18.2 mi N of Winterhaven, CA

Unmappable
CA2016000000200
CA Historic Landmarks

Site #: NO. 193
County: Imperial
Description: Opened by placer miners after 1852, the gold mines expanded into hard rock quarrying by 1872. Picacho employed 700 miners at its peak from 1895 to 1900. Mill accidents, low ore quality, and the loss of cheap river transport with the building of Laguna Dam led to numerous periods of inactivity. With ores far from worked out, the Picacho Mines, using modern techniques, again resumed operations in 1984.
URL: http://ohp.parks.ca.gov/?page_id=21421

UNMAPPABLE HISTORIC SITES

Due to poor or inadequate address information, the following sites were not mapped:

Status
EDR ID
Database

PLANK ROAD
Grays Well Road, 3.3 mi west from I-8, eastbound (P.M. 77.4)
18 mi W of Winterhaven, CA

Unmappable
CA201600000206
CA Historic Landmarks

Site #: NO. 845
 County: Imperial
 Description: This unique plank road, seven miles long, was the only means early motorists had of crossing the treacherous Imperial sand dunes. The 8-by-12-foot sections were moved with a team of horses whenever the shifting sands covered portions of the road. Double sections were placed at intervals to permit vehicles to pass.
 URL: http://ohp.parks.ca.gov/?page_id=21421

Robertson, Peter T., House
837 Second Ave.
Yuma, AZ

Unmappable
82004977
National Register of Hist. Places

Ref #: 82004977
 Multiple Property Name: Yuma MRA
 County: Yuma
 Restricted: Not Reported
 Certification: DETERMINED ELIGIBLE/OWNER OBJECTION
 Certification Date: 19821207
 Type: Building
 # of Contrib Bldgs: 1
 # of Contrib Sites: 0
 # of Contrib Objects: 0
 # of Contrib Structs: 0
 Documents: Not Reported

San Ysidro Hacienda
Address Restricted
Yuma, AZ

Unmappable
75000371
National Register of Hist. Places

Ref #: 75000371
 Multiple Property Name: Not Reported
 County: Yuma
 Restricted: X
 Certification: LISTED IN THE NATIONAL REGISTER
 Certification Date: 19751010
 Type: Site
 # of Contrib Bldgs: 0
 # of Contrib Sites: 1
 # of Contrib Objects: 0

UNMAPPABLE HISTORIC SITES

Due to poor or inadequate address information, the following sites were not mapped:

Status
EDR ID
Database

of Contrib Structs: 0
Documents: <http://pdfhost.focus.nps.gov/docs/nrhp/text/75000371.PDF>

Twentieth Century Folk Art Environments (Thematic)
On dirt rd, 0.5 mi NW of Andrade
7 mi SW of Winterhaven, CA

Unmappable
CA201600000208
CA Historic Landmarks

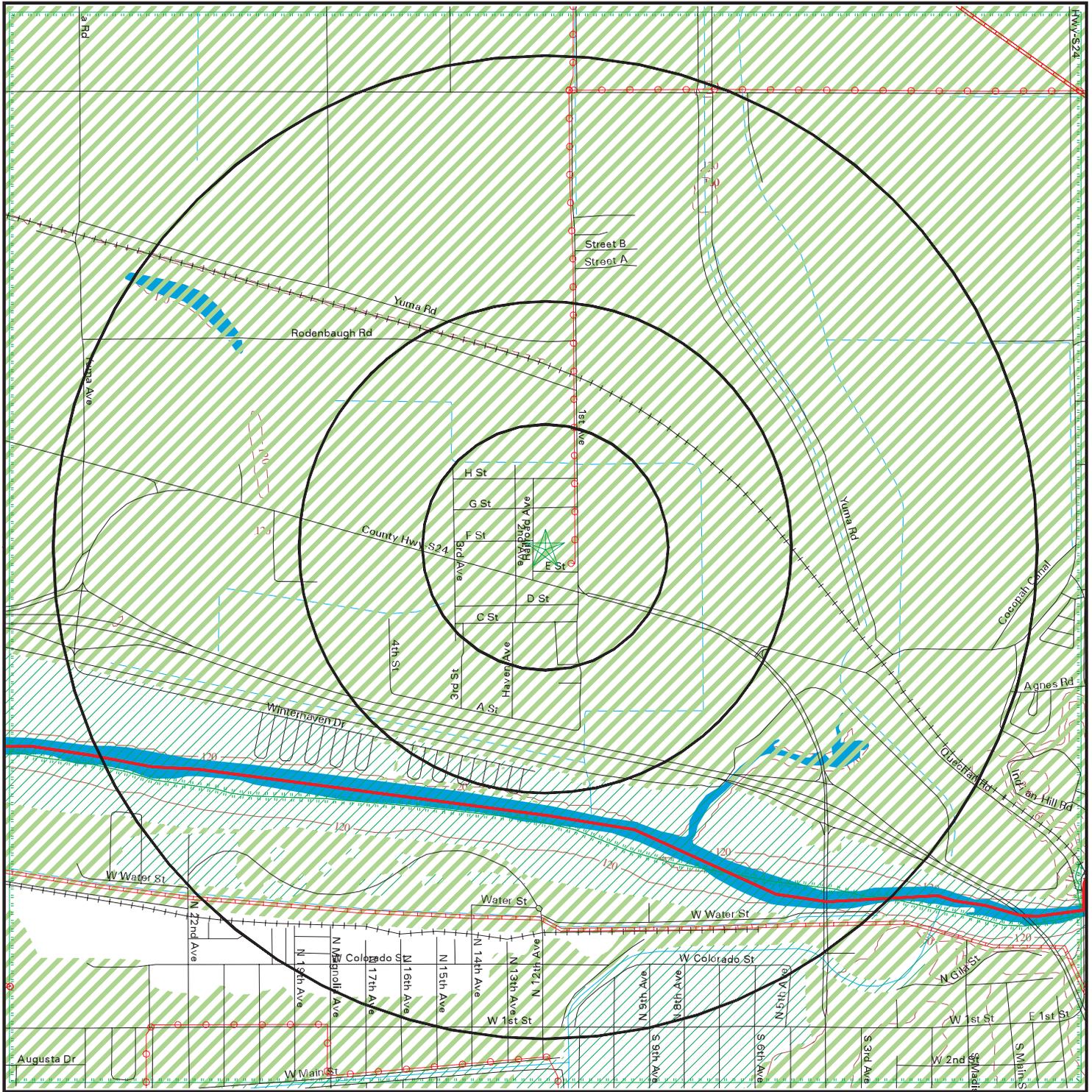
Site #: NO. 939
County: Imperial
Description: CHARLEY'S WORLD OF LOST ART - Charles Kasling began sculpturing near Andrade in 1967, and his creations now fill a site of approximately two and a half acres. His style, best described as eclectic, was inspired partly by his world travels with the U.S. Navy and partly by the desert terrain.
URL: http://ohp.parks.ca.gov/?page_id=21421

Winterhaven Anthropomorph and Bowknot, L-9
Address Restricted
Winterhaven, CA

Unmappable
85003429
National Register of Hist. Places

Ref #: 85003429
Multiple Property Name: Earth Figures of California--Arizona Colorado River Basin TR
County: Imperial
Restricted: X
Certification: LISTED IN THE NATIONAL REGISTER
Certification Date: 19851025
Type: Site
of Contrib Bldgs: 0
of Contrib Sites: 1
of Contrib Objects: 0
of Contrib Structs: 0
Documents: <http://pdfhost.focus.nps.gov/docs/nrhp/text/85003429.PDF>

Flood Plain Map



- | | | | | | |
|--|-----------------|--|--------------------------------|--|------------------------------------|
| | Major Roads | | Power Lines | | Water |
| | Contour Lines | | Pipe Lines | | 100-year flood zone |
| | Waterways | | Fault Lines | | 500-year flood zone |
| | County Boundary | | Electronic FEMA data available | | Electronic FEMA data not available |

SITE NAME: Winterhaven
 ADDRESS: 518 Railroad Avenue
 Winterhaven CA 92283
 LAT/LONG: 32.739392 / 114.634364

CLIENT: Ericsson-Grant Inc.
 CONTACT: Kevin Grant
 INQUIRY #: 4847962.1s
 DATE: February 7, 2017

FLOOD PLAIN MAP FINDINGS

Source: FEMA FIRM Flood Data, FEMA Q3 Flood Data

Flood Panel Number	FEMA Source Type
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Flood Plain panel at target property:

06025C2250C	(FEMA FIRM Flood data)
-------------	------------------------

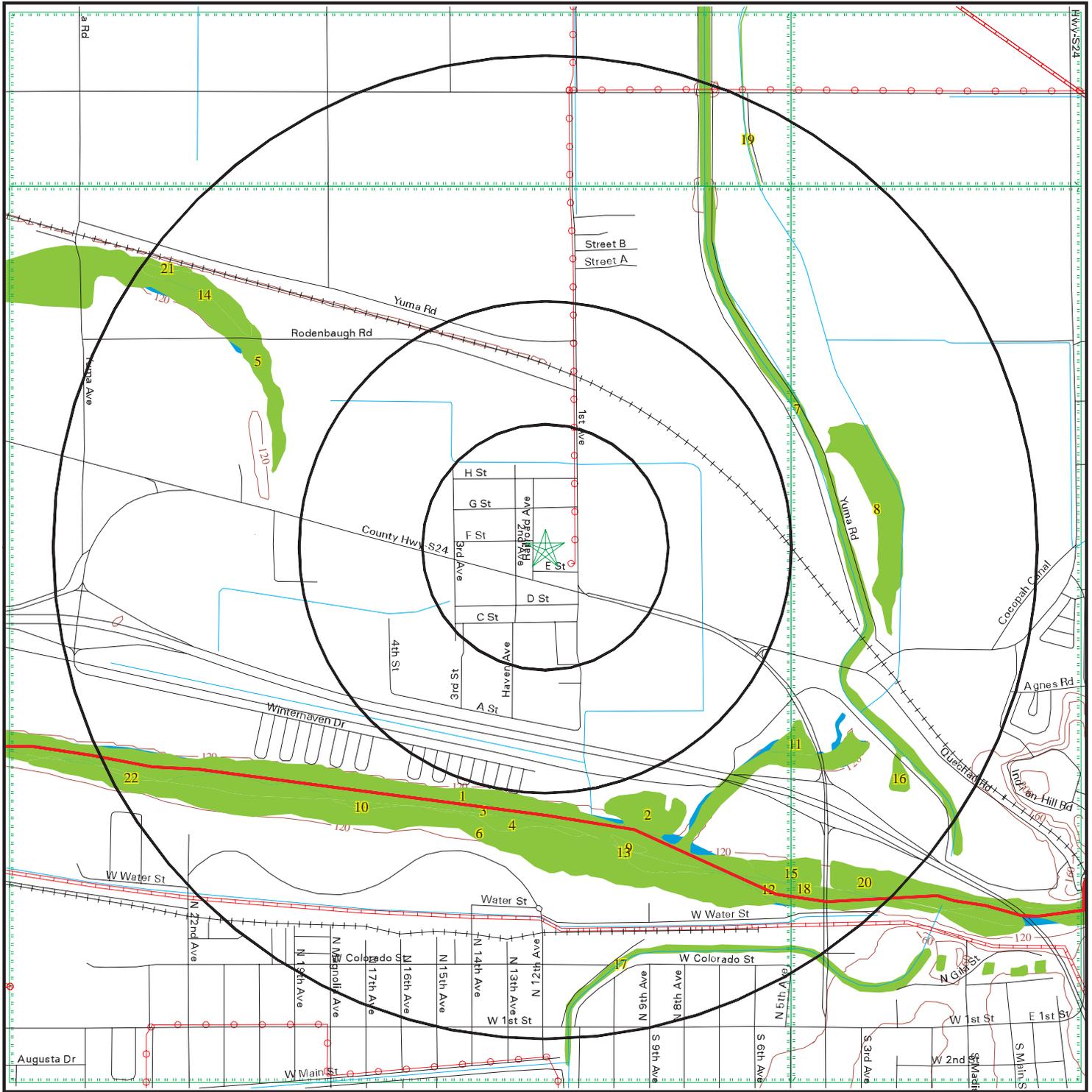
Additional Flood Plain panel(s) in search area:

06025C1900C	(FEMA FIRM Flood data)
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06025C1925C	(FEMA FIRM Flood data)
-------------	------------------------

06025C2275C	(FEMA FIRM Flood data)
-------------	------------------------

National Wetlands Inventory Map



- | | | |
|-----------------|-------------|-----------------------------------|
| Major Roads | Power Lines | Water |
| Contour Lines | Pipe Lines | National Wetlands Inventory |
| Waterways | Fault Lines | State Wetlands |
| County Boundary | | Electronic NWI data available |
| | | Electronic NWI data not available |

SITE NAME: Winterhaven
 ADDRESS: 518 Railroad Avenue
 Winterhaven CA 92283
 LAT/LONG: 32.739392 / 114.634364

CLIENT: Ericsson-Grant Inc.
 CONTACT: Kevin Grant
 INQUIRY #: 4847962.1s
 DATE: February 7, 2017

WETLANDS MAP FINDINGS

Source: Fish and Wildlife Service NWI data

NWI hardcopy map at target property: Yuma West

Additional NWI hardcopy map(s) in search area:

Araz
Bard
Yuma East

Map ID

Direction

Distance

Distance (ft.)

Code and Description*

Database

Map ID	Direction	Distance	Distance (ft.)	Code and Description*	Database
1	South	1/2-1 mi	2649	PSS2C [P] Palustrine [SS] Scrub Shrub [2] Needle-Leaved Deciduous [C] Seasonally Flooded Lat/Lon: 32.732231 / -114.635918	NWI
2	SSE	1/2-1 mi	2780	PSS2J [P] Palustrine [SS] Scrub Shrub [2] Needle-Leaved Deciduous [J] Intermittently Flooded Lat/Lon: 32.732071 / -114.631790	NWI
3	SSW	1/2-1 mi	2820	PSS2C [P] Palustrine [SS] Scrub Shrub [2] Needle-Leaved Deciduous [C] Seasonally Flooded Lat/Lon: 32.731831 / -114.636391	NWI
4	South	1/2-1 mi	2921	R2UBH [R] Riverine [2] Lower Perennial [UB] Unconsolidated Bottom [H] Permanently Flooded Lat/Lon: 32.731415 / -114.635422	NWI
5	WNW	1/2-1 mi	2978	PSS1/2J [P] Palustrine [SS] Scrub Shrub [1] Broad-Leaved Deciduous / [2J] Unknown Class Lat/Lon: 32.742275 / -114.643425	NWI
6	SSW	1/2-1 mi	2980	PSS2C [P] Palustrine [SS] Scrub Shrub [2] Needle-Leaved Deciduous [C] Seasonally Flooded Lat/Lon: 32.731480 / -114.636856	NWI
7	NE	1/2-1 mi	3000	R2UBHx [R] Riverine [2] Lower Perennial [UB] Unconsolidated Bottom [H] Permanently Flooded [x] Excavated Lat/Lon: 32.744663 / -114.626869	NWI
8	ENE	1/2-1 mi	3160	PSS2J [P] Palustrine [SS] Scrub Shrub [2] Needle-Leaved Deciduous [J] Intermittently Flooded Lat/Lon: 32.742172 / -114.624634	NWI

*See Wetland Classification System for additional information.

WETLANDS MAP FINDINGS

Map ID Direction Distance Distance (ft.)	Code and Description*	Database
9 SSE 1/2-1 mi 3172	PSS2C [P] Palustrine [SS] Scrub Shrub [2] Needle-Leaved Deciduous [C] Seasonally Flooded Lat/Lon: 32.730904 / -114.632019	NWI
10 SSW 1/2-1 mi 3220	R2UBH [R] Riverine [2] Lower Perennial [UB] Unconsolidated Bottom [H] Permanently Flooded Lat/Lon: 32.731777 / -114.639702	NWI
11 SE 1/2-1 mi 3235	PSS2C [P] Palustrine [SS] Scrub Shrub [2] Needle-Leaved Deciduous [C] Seasonally Flooded Lat/Lon: 32.733604 / -114.626381	NWI
12 SSE 1/2-1 mi 3292	R2UBH [R] Riverine [2] Lower Perennial [UB] Unconsolidated Bottom [H] Permanently Flooded Lat/Lon: 32.730591 / -114.631905	NWI
13 SSE 1/2-1 mi 3319	PSS2C [P] Palustrine [SS] Scrub Shrub [2] Needle-Leaved Deciduous [C] Seasonally Flooded Lat/Lon: 32.730541 / -114.631760	NWI
14 NW 1/2-1 mi 3890	PUSA [P] Palustrine [US] Unconsolidated Shore [A] Temporarily Flooded Lat/Lon: 32.745617 / -114.644646	NWI
15 SSE 1/2-1 mi 4007	PSS2C [P] Palustrine [SS] Scrub Shrub [2] Needle-Leaved Deciduous [C] Seasonally Flooded Lat/Lon: 32.730145 / -114.627289	NWI
16 ESE 1/2-1 mi 4363	PSS2J [P] Palustrine [SS] Scrub Shrub [2] Needle-Leaved Deciduous [J] Intermittently Flooded Lat/Lon: 32.733349 / -114.622116	NWI
17 SSE 1/2-1 mi 4421	R2UBHx [R] Riverine [2] Lower Perennial [UB] Unconsolidated Bottom [H] Permanently Flooded [x] Excavated Lat/Lon: 32.727543 / -114.631187	NWI

*See Wetland Classification System for additional information.

WETLANDS MAP FINDINGS

Map ID Direction Distance Distance (ft.)	Code and Description*	Database
18 SE 1/2-1 mi 4475	PSS2C [P] Palustrine [SS] Scrub Shrub [2] Needle-Leaved Deciduous [C] Seasonally Flooded Lat/Lon: 32.729462 / -114.625786	NWI
19 NNE 1/2-1 mi 4508	R4SBCx [R] Riverine [4] Intermittent [SB] Streambed [C] Seasonally Flooded [x] Excavated Lat/Lon: 32.750042 / -114.626884	NWI
20 SE 1/2-1 mi 4559	PSS2C [P] Palustrine [SS] Scrub Shrub [2] Needle-Leaved Deciduous [C] Seasonally Flooded Lat/Lon: 32.730129 / -114.624382	NWI
21 NW 1/2-1 mi 4804	PSS1/2J [P] Palustrine [SS] Scrub Shrub [1] Broad-Leaved Deciduous / [2J] Unknown Class Lat/Lon: 32.747520 / -114.646675	NWI
22 WSW 1/2-1 mi 4841	R2UBH [R] Riverine [2] Lower Perennial [UB] Unconsolidated Bottom [H] Permanently Flooded Lat/Lon: 32.732487 / -114.647820	NWI

*See Wetland Classification System for additional information.

WETLANDS CLASSIFICATION SYSTEM

National Wetland Inventory Maps are produced by the U.S. Fish and Wildlife Service, a sub-department of the U.S. Department of the Interior. In 1974, the U.S. Fish and Wildlife Service developed a criteria for wetland classification with four long range objectives:

- to describe ecological units that have certain homogeneous natural attributes,
- to arrange these units in a system that will aid decisions about resource management,
- to furnish units for inventory and mapping, and
- to provide uniformity in concepts and terminology throughout the U.S.

High altitude infrared photographs, soil maps, topographic maps and site visits are the methods used to gather data for the productions of these maps. In the infrared photos, wetlands appear as different colors and these wetlands are then classified by type. Using a hierarchical classification, the maps identify wetland and deepwater habitats according to:

- system
- subsystem
- class
- subclass
- modifiers

(as defined by Cowardin, et al. U.S. Fish and Wildlife Service FWS/OBS 79/31. 1979.)

The classification system consists of five systems:

1. marine
2. estuarine
3. riverine
4. lacustrine
5. palustrine

The marine system consists of deep water tidal habitats and adjacent tidal wetlands. The riverine system consists of all wetlands contained within a channel. The lacustrine systems includes all nontidal wetlands related to swamps, bogs & marshes. The estuarine system consists of deepwater tidal habitats and where ocean water is diluted by fresh water. The palustrine system includes nontidal wetlands dominated by trees and shrubs and where salinity is below .5% in tidal areas. All of these systems are divided in subsystems and then further divided into class.

National Wetland Inventory Maps are produced by transferring gathered data on a standard 7.5 minute U.S.G.S. topographic map. Approximately 52 square miles are covered on a National Wetland Inventory map at a scale of 1:24,000. Electronic data is compiled by digitizing these National Wetland Inventory Maps.

SYSTEM

MARINE

SUBSYSTEM

1 - SUBTIDAL

2 - INTERTIDAL

CLASS	RB-ROCK BOTTOM	UB-UNCONSOLIDATED BOTTOM	AB-AQUATIC BED	RF-REEF	OW-OPEN WATER / Unknown Bottom	AB-AQUATIC BED	RF-REEF	RS-ROCKY SHORE	US-UNCONSOLIDATED SHORE
Subclass	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Algal 3 Rooted Vascular 5 Unknown Submergent	1 Coral 3 Worm		1 Algal 3 Rooted Vascular 5 Unknown Submergent	1 Coral 3 Worm	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic

SYSTEM

E - ESTUARINE

SUBSYSTEM

1 - SUBTIDAL

CLASS	RB-ROCK BOTTOM	UB-UNCONSOLIDATED BOTTOM	AB-AQUATIC BED	RF-REEF	OW-OPEN WATER / Unknown Bottom
Subclass	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Algal 3 Rooted Vascular 4 Floating Vascular 5 Unknown Submergent 6 Unknown Surface	2 Mollusk 3 Worm	

SUBSYSTEM

2 - INTERTIDAL

CLASS	AB-AQUATIC BED	RF-REEF	SB - STREAMBED	RS-ROCKY SHORE	US-UNCONSOLIDATED SHORE	EM-EMERGENT	SS-SCRUB SHRUB	FO-FORESTED
Subclass	1 Algal 3 Rooted Vascular 4 Floating Vascular 5 Unknown Submergent 6 Unknown Surface	2 Mollusk 3 Worm	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Persistent 2 Nonpersistent	1 Broad-Leaved Deciduous 2 Needle-Leaved Deciduous 3 Broad-Leaved Evergreen 4 Needle-Leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen	1 Broad-Leaved Deciduous 2 Needle-Leaved Deciduous 3 Broad-Leaved Evergreen 4 Needle-Leaved Evergreen 5 Dead 6 Deciduous 7 Evergreen

SYSTEM

R - RIVERINE

SUBSYSTEM

1 - TIDAL 2 - LOWER PERENNIAL 3 - UPPER PERENNIAL 4 - INTERMITTENT 5 - UNKNOWN PERENNIAL

CLASS	RB-ROCK BOTTOM	UB-UNCONSOLIDATED BOTTOM	*SB-STREAMBED	AB-AQUATIC BED	RS-ROCKY SHORE	US-UNCONSOLIDATED SHORE	**EM-EMERGENT	OW-OPEN WATER/ Unknown Bottom
Subclass	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Bedrock 2 Rubble 3 Cobble-Gravel 4 Sand 5 Mud 6 Organic 7 Vegetated	1 Algal 2 Aquatic Moss 3 Rooted Vascular 4 Floating Vascular 5 Unknown Submergent 6 Unknown Surface	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated	2 Nonpersistent	

* STREAMBED is limited to TIDAL and INTERMITTENT SUBSYSTEMS, and comprises the only CLASS in the INTERMITTENT SUBSYSTEM.
 **EMERGENT is limited to TIDAL and LOWER PERENNIAL SUBSYSTEMS.

SYSTEM

L - LACUSTRINE

SUBSYSTEM

1 - LIMNETIC

CLASS	RB-ROCK BOTTOM	UB-UNCONSOLIDATED BOTTOM	AB-AQUATIC BED	OW-OPEN WATER/ Unknown Bottom
Subclass	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Algal 2 Aquatic Moss 3 Rooted Vascular 4 Floating Vascular 5 Unknown Submergent 6 Unknown Surface	

SUBSYSTEM

2 - LITTORAL

CLASS	RB-ROCK BOTTOM	UB-UNCONSOLIDATED BOTTOM	AB-AQUATIC BED	RS-ROCKY SHORE	US-UNCONSOLIDATED SHORE	EM-EMERGENT	OW-OPEN WATER/ Unknown Bottom
Subclass	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic	1 Algal 2 Aquatic Moss 3 Rooted Vascular 4 Floating Vascular 5 Unknown Submergent 6 Unknown Surface	1 Bedrock 2 Rubble	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated	2 Nonpersistent	

SUBSYSTEM

P - PALUSTRINE

CLASS	RB--ROCK BOTTOM	UB--UNCONSOLIDATED BOTTOM	AB-AQUATIC BED	US--UNCONSOLIDATED SHORE	ML--MOSS- LICHEN	EM--EMERGENT	SS--SCRUB-SHRUB	FO--FORESTED	OW-OPEN WATER/ Unknown
Subclass	1 Bedrock 2 Rubble 3 Mud 4 Organic	1 Cobble-Gravel 2 Sand	1 Algal 2 Aquatic Moss 3 Rooted Vascular 4 Floating Vascular 5 Unknown 6 Unknown Surface	1 Cobble-Gravel 2 Sand 3 Mud 4 Organic 5 Vegetated	1 Moss 2 Lichen	1 Persistent 2 Nonpersistent	1 Broad-Leaved 2 Needle-Leaved 3 Broad-Leaved 4 Needle-Leaved 5 Dead 6 Deciduous 7 Evergreen	1 Broad-Leaved 2 Needle-Leaved 3 Broad-Leaved 4 Needle-Leaved 5 Dead 6 Deciduous 7 Evergreen	

MODIFIERS

In order to more adequately describe wetland and deepwater habitats one or more of the water regime, water chemistry, soil, or special modifiers may be applied at the class or lower level in the hierarchy. The farmed modifier may also be applied to the ecological system.

WATER REGIME				WATER CHEMISTRY			SOIL	SPECIAL MODIFIERS
Non-Tidal	Tidal	Coastal	Inland	Salinity	pH	Modifiers		
A Temporarily Flooded	H Permanently Flooded	K Artificially Flooded	*S Temporary-Tidal	1 Hyperhaline	7 Hypersaline	all Fresh Water	g Organic	b Beaver
B Saturated	J Intermittently Flooded	L Subtidal	*R Seasonal-Tidal	2 Euhaline	8 Eusaline	a Acid	n Mineral	d Partially Drained/Ditched
C Seasonally Flooded	K Artificially Flooded	M Irregularly Exposed	*T Semipermanent -Tidal	3 Mixohaline (Brackish)	9 Mixosaline	t Circumneutral		f Farmed
D Seasonally Flooded/ Well Drained	W Intermittently Flooded/Temporary	N Regularly Flooded	V Permanent -Tidal	4 Polyhaline	0 Fresh	i Alkaline		h Diked/Impounded
E Seasonally Flooded/ Saturated	Y Saturated/Semipermanent/ Seasonal	P Irregularly Flooded	U Unknown	5 Mesohaline				r Artificial Substrate
F Semipermanently Flooded	Z Intermittently Exposed/Permanent	*These water regimes are only used in tidally influenced, freshwater systems.			6 Oligohaline			s Spoil
G Intermittently Exposed	U Unknown			0 Fresh				x Excavated

FCC & FAA Sites Map



-  Streets
-  Contour Lines
-  County Boundary
-  Waterways
-  Power Lines
-  Water

 Sites



SITE NAME: Winterhaven
 ADDRESS: 518 Railroad Avenue
 Winterhaven CA 92283
 LAT/LONG: 32.739392 / 114.634364

CLIENT: Ericsson-Grant Inc.
 CONTACT: Kevin Grant
 INQUIRY #: 4847962.1s
 DATE: February 7, 2017

FCC & FAA SITES MAP FINDINGS TOWERS

Map ID
Direction
Distance
Distance (ft.)

EDR ID
Database

1
WSW
1/8-1/4 mi
1255

ANT13000081322
ANTREG

Registration #: 1236358
File #: A0590929
Issue Date: 4/11/2008
Entity: SBA Towers II LLC
Height: 55.8
Address: 493 Third Avenue (CA10518-A)
FAA Study: 2008-AWP-1395-OE
FAA Circular: Not Reported
License ID: L01211381
Contact Name: Edward G. Roach
Contact Address: 5900 Broken Sound Pkwy NW
Contact City: Boca Raton
Contact State: FL
Contact Zip: 33487

This record is for a license, and it may or may not indicate a site which has been built.

FCC & FAA SITES MAP FINDINGS AIRPORTS

EDR ID
Database

No Sites Reported.

FCC & FAA SITES MAP FINDINGS POWERLINES

EDR ID
Database

88265
POWERLINES

Voltage: 69
Range: Not Reported
Hi voltage: 0
Volt cat: 0-69 kV
Type: Alternating current
Status: Active
Corridor: Single line
Owner: Pinnacle West Capital Corp.
Owner id: PINNACLE
Num owners: Single Owner
Operator: Arizona Public Service Co.
Operator id: APSC
Last owner: Not Reported
Last own id: Not Reported
Last oper: Not Reported
Last oper id: Not Reported
Mileage: 2.3532680899999998

90353
POWERLINES

Voltage: 69
Range: Not Reported
Hi voltage: 0
Volt cat: 0-69 kV
Type: Alternating current
Status: Active
Corridor: Multiple lines
Owner: Pinnacle West Capital Corp.
Owner id: PINNACLE
Num owners: Single Owner
Operator: Arizona Public Service Co.
Operator id: APSC
Last owner: Not Reported
Last own id: Not Reported
Last oper: Not Reported
Last oper id: Not Reported
Mileage: .78668945000000001

30715
POWERLINES

Voltage: 69
Range: Not Reported
Hi voltage: 0
Volt cat: 0-69 kV
Type: Alternating current

FCC & FAA SITES MAP FINDINGS

POWERLINES

EDR ID
Database

Status: Active
Corridor: Multiple lines
Owner: Pinnacle West Capital Corp.
Owner id: PINNACLE
Num owners: Single Owner
Operator: Arizona Public Service Co.
Operator id: APSC
Last owner: Not Reported
Last own id: Not Reported
Last oper: Not Reported
Last oper id: Not Reported
Mileage: .78668945000000001

28305
POWERLINES

Voltage: 69
Range: Not Reported
Hi voltage: 0
Volt cat: 0-69 kV
Type: Alternating current
Status: Active
Corridor: Single line
Owner: Pinnacle West Capital Corp.
Owner id: PINNACLE
Num owners: Single Owner
Operator: Arizona Public Service Co.
Operator id: APSC
Last owner: Not Reported
Last own id: Not Reported
Last oper: Not Reported
Last oper id: Not Reported
Mileage: .73571143999999999

110515
POWERLINES

Voltage: 34
Range: Yes
Hi voltage: 59
Volt cat: 0-69 kV
Type: Alternating current
Status: Active
Corridor: Single line
Owner: Imperial Irrigation District
Owner id: IIDCA
Num owners: Single Owner
Operator: Imperial Irrigation District
Operator id: IIDCA

FCC & FAA SITES MAP FINDINGS POWERLINES

EDR ID
Database

Last owner: Not Reported
Last own id: Not Reported
Last oper: Not Reported
Last oper id: Not Reported
Mileage: 1.01826938

40127
POWERLINES

Voltage: 34
Range: Yes
Hi voltage: 59
Volt cat: 0-69 kV
Type: Alternating current
Status: Active
Corridor: Single line
Owner: Imperial Irrigation District
Owner id: IIDCA
Num owners: Single Owner
Operator: Imperial Irrigation District
Operator id: IIDCA
Last owner: Not Reported
Last own id: Not Reported
Last oper: Not Reported
Last oper id: Not Reported
Mileage: 2.1329709700000001

63692
POWERLINES

Voltage: 34
Range: Yes
Hi voltage: 59
Volt cat: 0-69 kV
Type: Alternating current
Status: Active
Corridor: Single line
Owner: Imperial Irrigation District
Owner id: IIDCA
Num owners: Single Owner
Operator: Imperial Irrigation District
Operator id: IIDCA
Last owner: Not Reported
Last own id: Not Reported
Last oper: Not Reported
Last oper id: Not Reported
Mileage: 1.9749351100000001

KEY CONTACTS & GOVERNMENT RECORDS SEARCHED

Various Federal laws and executive orders address specific environmental concerns. NEPA requires the responsible offices to integrate to the greatest practical extent the applicable procedures required by these laws and executive orders. EDR provides key contacts at agencies charged with implementing these laws and executive orders to supplement the information contained in this report.

NATURAL AREAS

Wilderness Areas

Government Records Searched in This Report

FED_LAND: Federal Lands

Source: USGS

Telephone: 703-648-5094

Federal data from Bureau of Land Management, National Park Service, Forest Service, and Fish and Wildlife Service.

- National Parks
- Forests
- Monuments
- Wildlife Sanctuaries, Preserves, Refuges
- Federal Wilderness Areas.

Date of Government Version: 12/31/2005

US NWP: National Wilderness Preservation System

This map layer consists of National Wilderness Preservation System areas of 320 acres or more, in the United States, Puerto Rico, and the U.S. Virgin Islands. Some established wilderness areas which are larger than 320 acres are not included in this map layer because their boundaries were not available from the owning or administering agency.

Source: U.S. Geological Survey.

Telephone: 888-275-8747

Federal Contacts for Additional Information

National Park Service, Pacific West Region

600 Harrison Street, Suite 600

San Francisco, CA 94107

415-427-1300

USDA Forest Service, Pacific Southwest

630 Sansome Street

San Francisco, CA 94111

415-705-2557

BLM - California State Office

2800 Cottage Way, Room W-1834

Sacramento, CA 95825-1886

916-978-4400

Fish & Wildlife Service, Fish & Wildlife Region 8

2800 Cottage Way W-2606

Sacramento, CA 95825

916-414-6464

KEY CONTACTS & GOVERNMENT RECORDS SEARCHED

Wildlife Preserves, Sanctuaries and Refuges

Government Records Searched in This Report

FED_LAND: Federal Lands

Source: USGS

Telephone: 703-648-5094

Federal data from Bureau of Land Management, National Park Service, Forest Service, and Fish and Wildlife Service.

- National Parks
- Forests
- Monuments
- Wildlife Sanctuaries, Preserves, Refuges
- Federal Wilderness Areas.

Date of Government Version: 12/31/2005

AZ Wilderness Areas: AZ Wilderness Areas

This statewide data set includes Bureau of Land Management, U.S. Forest Service, National Park Service and Fish and Wildlife Service Riparian Natural Conservation areas, Wilderness Study areas and Wilderness or Primitive areas.

Source: State Land Department.

Telephone: 602-542-2606

AZ Conservation Areas: AZ Conservation Areas

This dataset shows the boundaries of the NLCS National Monuments, National Conservation Areas, and Similar Designations in Arizona.

Source: Bureau of Land Management, AZ State Office.

Telephone: 602-417-9200

CA Protected Areas: Protected Areas Database

The California Protected Areas Database (CPAD) contains GIS data about lands that are owned in fee and protected for open space purposes by over 1,000 public agencies or non-profit organizations.

Source: GreenInfo Network.

Telephone: 510-350-8700

CA Land Ownership: CA Land Ownership

Statewide GIS layer of land ownership, compiled from multiple data sources and snapped to county parcels.

Source: Cal Fire.

Telephone: 916-653-5123

CA PCT Lands: CA Public, Conservation and Trust Lands

A 1:100,000 polygon features class representing public, conservation and trust land ownership in the state of California. Developed for the California Resources Agency Legacy Project, this dataset depicts ownership features as submitted by major public, trust, and non-profit groups in the state.

Source: California Resources Agency.

Telephone: 510-653-1369

CA ACEC: Areas of Critical Environmental Concern

BLM Areas of Critical Environmental Concern in California

Source: Bureau of Land Management.

Telephone: 916-978-4400

CA Conservation Easement: Conservation Easement Database

The California Conservation Easement Database (CCED) contains GIS data for conservation and open space easements for public and private property.

Source: GreenInfo Network.

Telephone: 510-350-8700

KEY CONTACTS & GOVERNMENT RECORDS SEARCHED

US Critical Land Habitat: US Critical Land Habitat

When a species is proposed for listing as endangered or threatened under the Endangered Species Act, the U.S. Fish and Wildlife Service must consider whether there are areas of habitat believed to be essential to the species conservation. Those areas may be proposed for designation as critical habitat. Critical habitat is a term defined and used in the Act.

Source: US Fish & Wildlife Services.

Telephone: 970-226-9468

US Critical Water Habitat: US Critical Water Habitat

When a species is proposed for listing as endangered or threatened under the Endangered Species Act, the U.S. Fish and Wildlife Service must consider whether there are areas of habitat believed to be essential to the species conservation. Those areas may be proposed for designation as critical habitat. Critical habitat is a term defined and used in the Act.

Source: US Fish & Wildlife Services.

Telephone: 970-226-9468

US ACEC: Areas of Critical Environmental Concern Designated Polygons

The designated ACECs are "areas within the public lands where special management attention is required to protect and prevent irreparable damage to important historic, cultural, or scenic values, fish and wildlife resources or other natural systems of processes, or to protect life and safety from natural hazards

Source: Bureau of Land Management.

Telephone: 202-912-7352

US Scenic River: National Wild and Scenic River System

National Wild and Scenic Rivers System

Source: USGS National Atlas and the Interagency Wild and Scenic River Coordinating Council.

Telephone: 509-546-8333

US NCED: National Conservation Easement Database

NCED shows a comprehensive picture of privately owned conservation easement lands in the U.S. The NCED will allow better strategic planning for conservation and development by merging data on land protection with biodiversity and resources, improving ecological and economic plans and investments.

Source: U.S. Endowment for Forestry and Communities.

Telephone: 202-621-1647

Federal Contacts for Additional Information

Fish & Wildlife Service, Fish & Wildlife Region 8

2800 Cottage Way W-2606

Sacramento, CA 95825

916-414-6464

State Contacts for Additional Information

Department of Fish & Game 916-653-7667

Wild and scenic rivers

Government Records Searched in This Report

FED_LAND: Federal Lands

Source: USGS

Telephone: 703-648-5094

Federal data from Bureau of Land Management, National Park Service, Forest Service, and Fish and Wildlife Service.

- National Parks
- Forests
- Monuments
- Wildlife Sanctuaries, Preserves, Refuges
- Federal Wilderness Areas.

Date of Government Version: 12/31/2005

KEY CONTACTS & GOVERNMENT RECORDS SEARCHED

Federal Contacts for Additional Information

Fish & Wildlife Service, Fish & Wildlife Region 8
2800 Cottage Way W-2606
Sacramento, CA 95825
916-414-6464

Endangered Species

Government Records Searched in This Report

AZ Endangered Species by County: Species List
Element Occurrence data
Source: Arizona Game and Fish Department.
Telephone: 602-942-3000

CA Endangered Species: California Natural Diversity Database

The California Natural Diversity Database (CNDDB) provides location and status information for the California most imperiled species.

Source: Department of Fish and Wildlife.
Telephone: 916-322-2493

Federal Endangered Species by County: Threatened and Endangered Species Listing

Endangered, Threatened, Emergency Listing (Endangered), Emergency Listing (Threatened), Experimental Population (Essential), Experimental Population (Non-Essential), Similarity of Appearance (Endangered), Similarity of Appearance (Threatened).
Source: US Fish and Wildlife Services.

Telephone: 800-344-9453

Federal Contacts for Additional Information

Fish & Wildlife Service, Fish & Wildlife Region 8
2800 Cottage Way W-2606
Sacramento, CA 95825
916-414-6464

State Contacts for Additional Information

Natural Heritage Program, Dept. of Fish & Game 916-322-2493

LANDMARKS, HISTORICAL, AND ARCHEOLOGICAL SITES

Historic Places

Government Records Searched in This Report

National Register of Historic Places:

The National Register of Historic Places is the official federal list of districts, sites, buildings, structures, and objects significant in American history, architecture, archeology, engineering, and culture. These contribute to an understanding of the historical and cultural foundations of the nation.

The National Register includes:

- All prehistoric and historic units of the National Park System;
- National Historic Landmarks, which are properties recognized by the Secretary of the Interior as possessing national significance; and
- Properties significant in American, state, or local prehistory and history that have been nominated by State Historic Preservation Officers, federal agencies, and others, and have been approved for listing by the National Park Service.

Date of Government Version: 07/19/2015

AZ Historic Sites: Arizona State Register List

Listing of historic sites included on the State Register.
Source: State Historic Preservation Office. State Parks
Telephone: 602-542-4009

KEY CONTACTS & GOVERNMENT RECORDS SEARCHED

CA Historic Landmarks: CA Historical Landmarks

Historical Landmarks are sites, buildings, features or events that are of statewide significance and have anthropological, cultural, military, political, architectural, economic, scientific or technical, religious, experimental, or other value

Source: Office of Historic Preservation.

Telephone: 916-653-6624

Indian Reservations: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Source: USGS.

Telephone: 202-208-3710

US Trails: US Trails

This dataset contains a baseline inventory and condition assessment of all non-motorized trails on U.S. Fish and Wildlife Service lands as part of the National Trails Inventory Program conducted by the US Dept. of Transportation, Federal Highway Administration, Federal Lands Highway Division.

Source: U.S. Fish and Wildlife.

Telephone: 703-358-2205

Federal Contacts for Additional Information

Park Service; Advisory Council on Historic Preservation

1849 C Street NW

Washington, DC 20240

Phone: (202) 208-6843

State Contacts for Additional Information

Arizona State Parks 602-542-4174

Office of Historic Preservation, Ept. Of Parks & Recreation 916-653-6624

Indian Religious Sites

Government Records Searched in This Report

Indian Reservations:

This map layer portrays Indian administrated lands of the United States that have any area equal to or greater than 640 acres.

Source: USGS

Phone: 888-275-8747

Date of Government Version: 12/31/2005

Federal Contacts for Additional Information

Department of the Interior- Bureau of Indian Affairs

Office of Public Affairs

1849 C Street, NW

Washington, DC 20240-0001

Office: 202-208-3711

Fax: 202-501-1516

National Association of Tribal Historic Preservation Officers

1411 K Street NW, Suite 700

Washington, DC 20005

Phone: 202-628-8476

Fax: 202-628-2241

KEY CONTACTS & GOVERNMENT RECORDS SEARCHED

State Contacts for Additional Information

A listing of local Tribal Leaders and Bureau of Indian Affairs Representatives can be found at:
<http://www.doi.gov/bia/areas/agency.html>

Phoenix Area Office, Bureau of Indian Affairs
One North First Street P.O. Box 10
Phoenix, AZ 85001
602-379-6600

Sacramento Area Office, Bureau of Indian Affairs
2800 Cottage Way
Sacramento, CA 95825
916-979-2600

Cultural Division, Yuork Tribe
1034 6th Street
Eureka, CA 95501

Scenic Trails

State Contacts for Additional Information

Pacific Crest Trail Association
5325 Elkhorn Boulevard, #256
Sacramento, California 95842
916-349-2109

FLOOD PLAIN, WETLANDS AND COASTAL ZONE

Flood Plain Management

Government Records Searched in This Report

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Phone: 877-336-2627

Date of Government Version: 2003, 2015

Federal Contacts for Additional Information

Federal Emergency Management Agency 877-3362-627

State Contacts for Additional Information

Office of Emergency Services 916-262-1843

Wetlands Protection

Government Records Searched in This Report

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005, 2010, and 2015 from the U.S. Fish and Wildlife Service.

Source: U.S. Fish and Wildlife Service.

Phone: 608-238-9333

Date of Government Version: 05/28/2015

State Wetlands Data: Wetland Inventory

Source: Department of Fish & Game

Telephone: 916-445-0411

Federal Contacts for Additional Information

Fish & Wildlife Service 813-570-5412

KEY CONTACTS & GOVERNMENT RECORDS SEARCHED

State Contacts for Additional Information
Department of Fish & Game 916-653-7667

Coastal Zone Management

Government Records Searched in This Report

CAMA Management Areas
Dept. of Env., Health & Natural Resources
919-733-2293

Federal Contacts for Additional Information

Office of Ocean and Coastal Resource Management
N/ORM, SSMC4
1305 East-West Highway
Silver Spring, Maryland 20910
301-713-3102

State Contacts for Additional Information

California Coastal Commission 415-904-5200

Government Records Searched in This Report

CA Coastline Information
Department of Fish and Game
831-649-7143

FCC & FAA SITES MAP

For NEPA actions that come under the authority of the FCC, the FCC requires evaluation of Antenna towers and/or supporting structures that are to be equipped with high intensity white lights which are to be located in residential neighborhoods, as defined by the applicable zoning law.

Government Records Searched in This Report

Cellular

Federal Communications Commission
445 12th Street, SW
Washington, DC 20554
888-225-5322

4G Cellular

Federal Communications Commission
445 12th Street, SW
Washington, DC 20554
888-225-5322

Antenna Structure Registration

Federal Communications Commission
445 12th Street, SW
Washington, DC 20554
888-225-5322

AM Antenna

Federal Communications Commission
445 12th Street, SW
Washington, DC 20554
888-225-5322

KEY CONTACTS & GOVERNMENT RECORDS SEARCHED

FM Antenna

Federal Communications Commission
445 12th Street, SW
Washington, DC 20554
888-225-5322

FAA Digital Obstacle File

Federal Aviation Administration (FAA)
1305 East-West Highway, Station 5631
Silver Spring, MD 20910-3281
Telephone: 301-713-2817
Describes known obstacles of interest to aviation users in the US. Used by the Federal Aviation Administration (FAA) and the National Oceanic and Atmospheric Administration to manage the National Airspace System.

Airport Landing Facilities

Federal Aviation Administration
Telephone (800) 457-6656
Private and public use landing facilities.

Electric Power Transmission Line Data

PennWell Corporation
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Excessive Radio Frequency Emission

For NEPA actions that come under the authority of the FCC, Commission actions granting construction permits, licenses to transmit or renewals thereof, equipment authorizations or modifications in existing facilities, require the determination of whether the particular facility, operation or transmitter would cause human exposure to levels of radio frequency in excess of certain limits.

Federal Contacts for Additional Information

Office of Engineering and Technology
Federal Communications Commission
445 12th Street SW
Washington, DC 20554
Phone: 202-418-2470

OTHER CONTACT SOURCES

NEPA Single Point of Contact

State Contacts for Additional Information
Grants Coordination
State Clearinghouse
P.O. Box 3044
Room 222
Sacramento, CA 95812-3044
916-445-0613

KEY CONTACTS & GOVERNMENT RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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ATTACHMENT B

**FEMA FIRM
OF PROJECT SITE**

LEGEND



SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

- ZONE A** No base flood elevations determined.
- ZONE AE** Base flood elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); base flood elevations determined.
- ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no base flood elevations determined.
- ZONE V** Coastal flood zone with velocity hazard (wave action); no base flood elevations determined.
- ZONE VE** Coastal flood zone with velocity hazard (wave action); base flood elevations determined.



FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.



OTHER FLOOD AREAS

- ZONE X** Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.



OTHER AREAS



MAP SCALE 1" = 2000'

00 0 2000 4000

FEET

METE

NFIP

PANEL 2250C

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

FLOOD INSURANCE RATE MAP

IMPERIAL COUNTY,

CALIFORNIA

AND INCORPORATED AREAS

PANEL 2250 OF 2300

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY NUMBER PANEL SUFFIX

IMPERIAL COUNTY 060065 2250 C

Notice to User: The Map Number shown below should be used when placing map orders. The Community Number shown above should be used on insurance applications for the subject



MAP NUMBER
06025C2250C

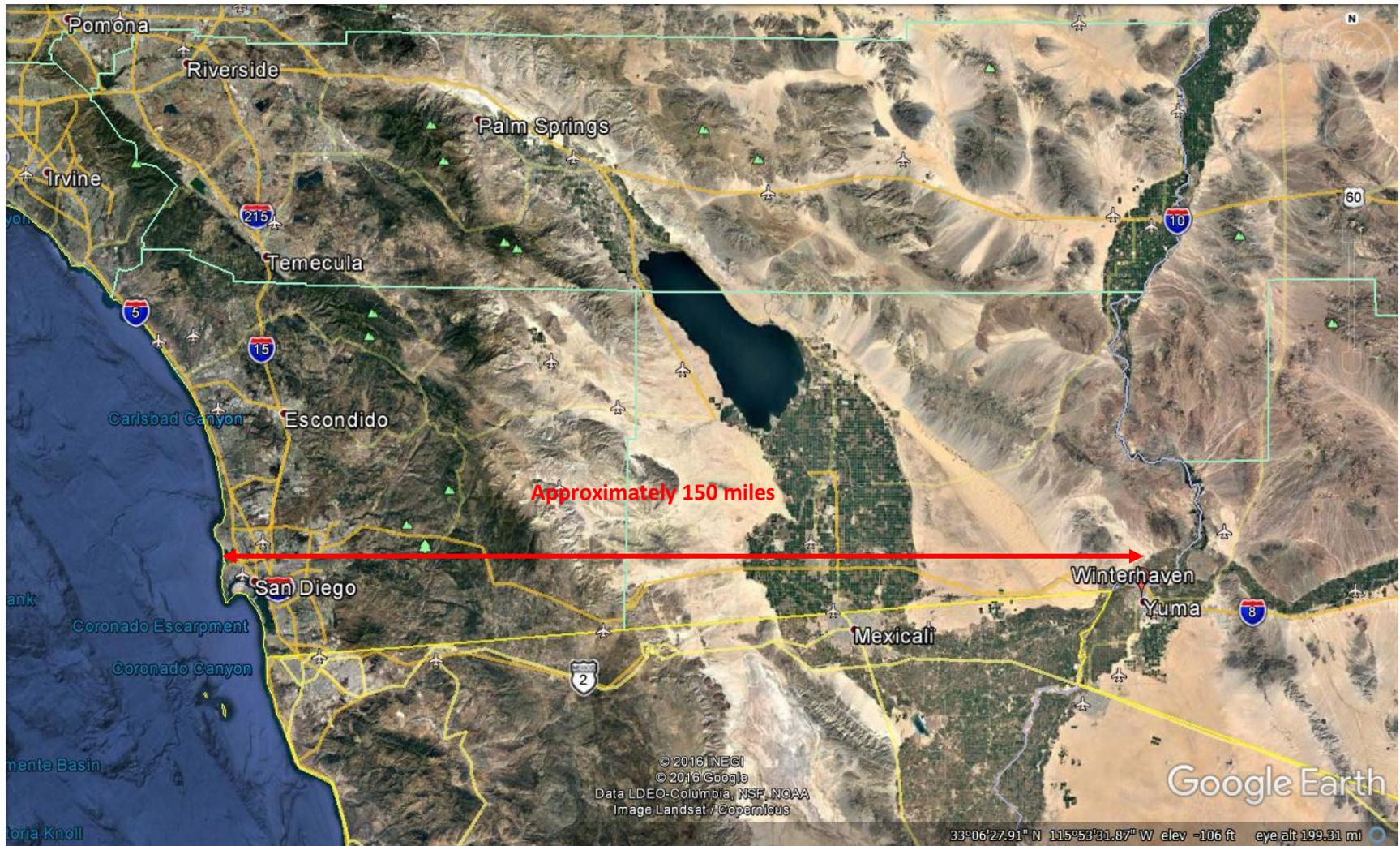
EFFECTIVE DATE
SEPTEMBER 26, 2008

Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

ATTACHMENT C

**PROJECT SITE
LOCATION MAP**



PROJECT SITE LOCATION MAP
DISTANCE OF SITE FROM CALIFORNIA COAST

ATTACHMENT D

REGION 9 SOLE SOURCE AQUIFER MAP



Pacific Southwest, Region 9

Serving: Arizona, California, Hawaii, Nevada, Pacific Islands, Tribal Nations

Ground Water

Ground Water Quick Finder

[Ground Water Home](#)
[Class V Wells](#)
[Cesspools in Hawaii](#)

[Onsite Sewage Treatment Permits](#)

[Sole Source Aquifer Source Water Protection](#)

[Tribal Water Protection Underground Injection Wells](#)

Sole Source Aquifer

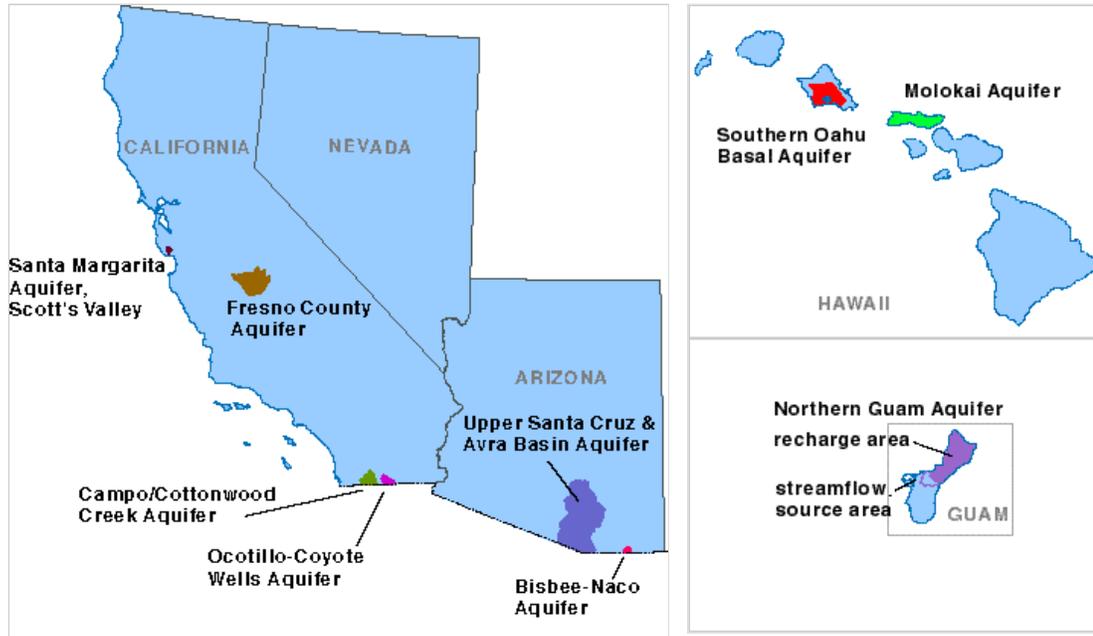
The EPA's Sole Source Aquifer (SSA) Program was established under Section 1424(e) of the Safe Drinking Water Act (SDWA.) Since 1977, it has been used by communities to help prevent contamination of groundwater from federally-funded projects. It has increased public awareness of the vulnerability of groundwater resources. The SSA program allows for [EPA environmental review \(PDF\)](#) (1pg, 34K) of any project which is financially assisted by federal grants or federal loan guarantees. These projects are evaluated to determine whether they have the potential to contaminate a sole source aquifer.

National Links

[EPA Ground Water & Drinking Water Home](#)

You will need Adobe Reader to view some of the files on this page. See [EPA's PDF page](#) to learn more about PDF, and for a link to the free Adobe Reader.

In Region 9, nine sole source aquifers have been designated:



Maps

Click [here for a national layer](#) including all available coverage for [Sole Source Aquifers \(SSA\)](#) that can be used in Geographic Information Systems (GIS)

State	Sole Source Aquifer Name	Federal Reg. Cit	Publ. Date	Map
AZ	Upper Santa Cruz & Avra Basin Aquifer	49 FR 2948	01/24/84	KMZ PDF (1 pg, 1.3M)
AZ	Bisbee-Naco Aquifer	53 FR 38337	09/30/88	KMZ PDF (1 pg, 175K)
CA	Fresno County Aquifer	44 FR 52751	09/10/79	KMZ PDF (1 pg, 1.3M)
CA	Santa Margarita Aquifer, Scotts Valley	50 FR 2023	01/14/85	KMZ PDF (1 pg, 434K)
CA	Campo/Cottonwood Creek	58 FR 31024	05/28/93	KMZ PDF (1 pg, 321K)
CA	Ocotillo-Coyote Wells Aquifer	61 FR 47752	09/10/96	KMZ PDF (1 pg, 337K)
GU	Northern Guam Aquifer System	43 FR 17867	04/26/78	KMZ PDF (1 pg, 400K)
HI	Southern Oahu Basal Aquifer	52 FR 45496	11/30/87	KMZ PDF (1 pg, 716K)

A map of all nationally designated SSAs is also [available on the Source Water Protection Publications Database](#).

For more information, please contact the Ground Water Office at 415-972-3971 or visit the national [EPA Sole Source Aquifer Program](#) site.

Outreach Documents

[Sole Source Aquifer Fact Sheet \(PDF\)](#) (1pg, 34K)

For Project Planners: [What to submit for EPA review of proposed projects \(PDF\)](#) (1pg, 34K)

Contact Information

See the [Sole Source Aquifer section](#) of the Ground Water contacts page.

Last updated on 2/23/2016



Source: United States Environmental Protection Agency/Google Earth 2016.

MAP OF SOLE SOURCE AQUIFERS RELATIVE TO PROJECT SITE

ATTACHMENT E

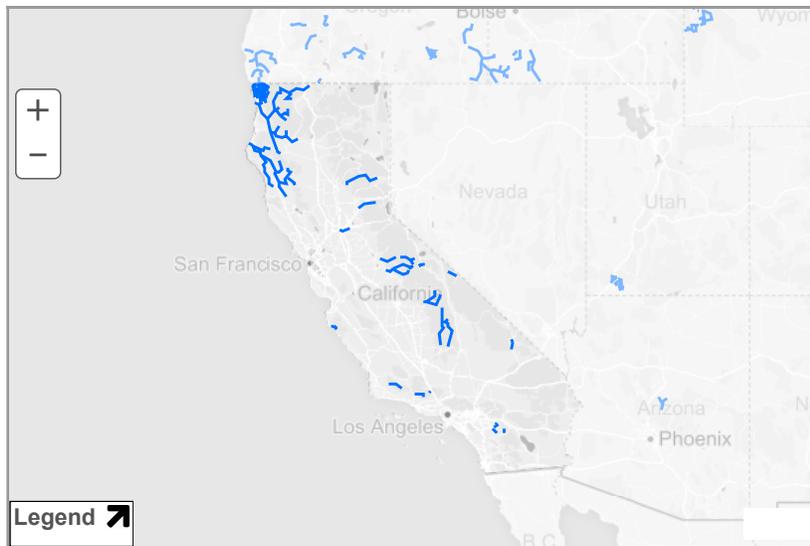
CALIFORNIA WILD AND SCENIC RIVER SYSTEM AND MANAGEMENT AGENCIES



HOME | NATIONAL SYSTEM | MANAGEMENT | RESOURCES | PUBLICATIONS | CONTACT US | 50 YEARS

CALIFORNIA

California has approximately 189,454 miles of river, of which 1,999.6 miles are designated as wild & scenic—1% of the state's river miles.



California

Choose A River

Seen as barren by the first explorers to today's first-time visitors, the rivers of the high desert simply hide their treasures well.

[+ View larger map](#)

- Amargosa River
- American River (Lower)
- American River (North Fork)
- Bautista Creek
- Big Sur River
- Black Butte River
- Cottonwood Creek
- Eel River
- Feather River
- Fuller Mill Creek
- Kern River
- Kings River
- Klamath River
- Merced River
- Owens River Headwaters
- Palm Canyon Creek
- Piru Creek
- San Jacinto River (North Fork)
- Sespe Creek

Sisquoc River
Smith River
Trinity River
Tuolumne River

[NATIONWIDE RIVERS INVENTORY](#) | [CONTACT US](#) | [PRIVACY NOTICE](#) | [Q & A SEARCH ENGINE](#) | [SITE MAP](#)



Designated Rivers

[About WSR Act](#)
[State Listings](#)
[Profile Pages](#)

National System

[WSR Table](#)
[Study Rivers](#)
[Stewardship](#)
[WSR Act Legislation](#)

River Management

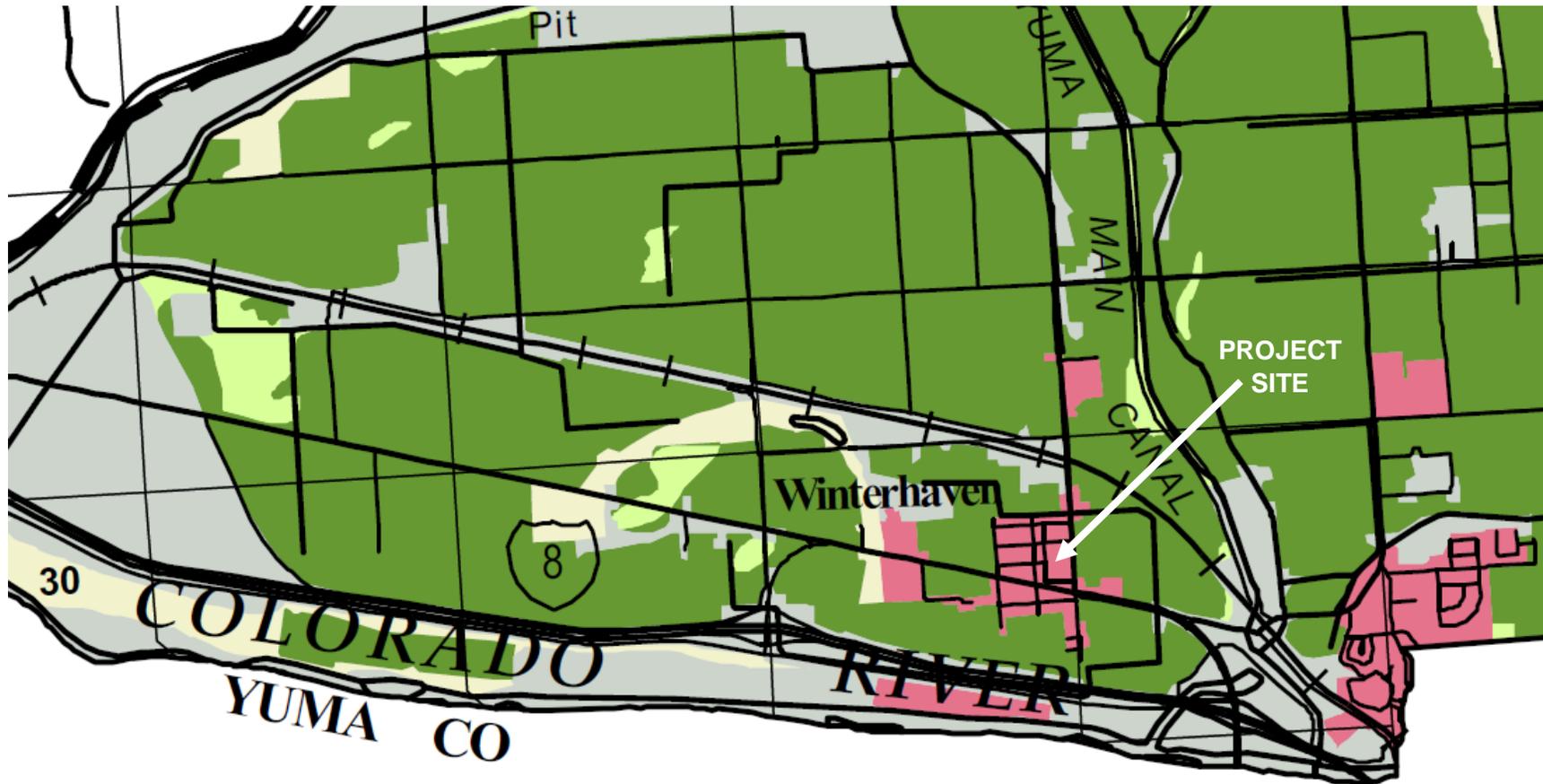
[Council](#)
[Agencies](#)
[Management Plans](#)
[GIS Mapping](#)

Resources

[Q & A Search](#)
[Bibliography](#)
[Publications](#)
[GIS Mapping](#)
[Logo & Sign Standards](#)
[Display](#)

ATTACHMENT F

FMMP OF PROJECT SITE



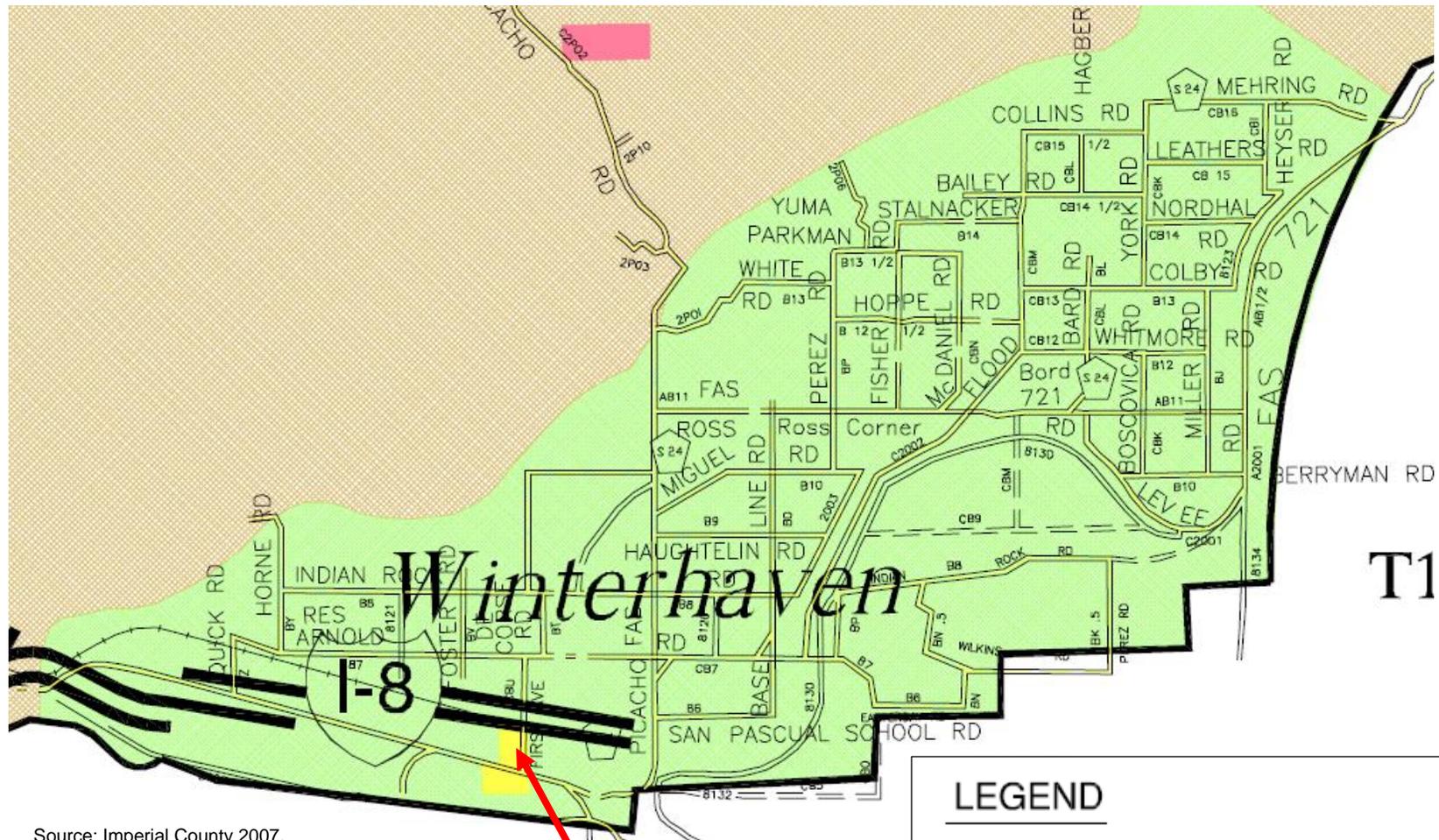
Source: California Department of Conservation 2012.

- | | |
|--|---|
| <p> PRIME FARMLAND</p> <p>PRIME FARMLAND HAS THE BEST COMBINATION OF PHYSICAL AND CHEMICAL FEATURES ABLE TO SUSTAIN LONG-TERM AGRICULTURAL PRODUCTION. THIS LAND HAS THE SOIL QUALITY, GROWING SEASON, AND MOISTURE SUPPLY NEEDED TO PRODUCE SUSTAINED HIGH YIELDS. LAND MUST HAVE BEEN USED FOR IRRIGATED AGRICULTURAL PRODUCTION AT SOME TIME DURING THE FOUR YEARS PRIOR TO THE MAPPING DATE.</p> <p> FARMLAND OF STATEWIDE IMPORTANCE</p> <p>FARMLAND OF STATEWIDE IMPORTANCE IS SIMILAR TO PRIME FARMLAND BUT WITH MINOR SHORTCOMINGS, SUCH AS GREATER SLOPES OR LESS ABILITY TO STORE SOIL MOISTURE. LAND MUST HAVE BEEN USED FOR IRRIGATED AGRICULTURAL PRODUCTION AT SOME TIME DURING THE FOUR YEARS PRIOR TO THE MAPPING DATE.</p> <p> UNIQUE FARMLAND</p> <p>UNIQUE FARMLAND CONSISTS OF LESSER QUALITY SOILS USED FOR THE PRODUCTION OF THE STATE'S LEADING AGRICULTURAL CROPS. THIS LAND IS USUALLY IRRIGATED, BUT MAY INCLUDE NONIRRIGATED ORCHARDS OR VINEYARDS AS FOUND IN SOME CLIMATIC ZONES IN CALIFORNIA. LAND MUST HAVE BEEN CROPPED AT SOME TIME DURING THE FOUR YEARS PRIOR TO THE MAPPING DATE.</p> | <p> FARMLAND OF LOCAL IMPORTANCE</p> <p>UNIRRIGATED AND UNCULTIVATED LANDS WITH PRIME AND STATEWIDE SOILS.</p> <p> URBAN AND BUILT-UP LAND</p> <p>URBAN AND BUILT-UP LAND IS OCCUPIED BY STRUCTURES WITH A BUILDING DENSITY OF AT LEAST 1 UNIT TO 1.5 ACRES, OR APPROXIMATELY 6 STRUCTURES TO A 10-ACRE PARCEL. COMMON EXAMPLES INCLUDE RESIDENTIAL, INDUSTRIAL, COMMERCIAL, INSTITUTIONAL FACILITIES, CEMETERIES, AIRPORTS, GOLF COURSES, SANITARY LANDFILLS, SEWAGE TREATMENT, AND WATER CONTROL STRUCTURES.</p> <p> OTHER LAND</p> <p>OTHER LAND IS LAND NOT INCLUDED IN ANY OTHER MAPPING CATEGORY. COMMON EXAMPLES INCLUDE LOW DENSITY RURAL DEVELOPMENTS, BRUSH, TIMBER, WETLAND, AND RIPARIAN AREAS NOT SUITABLE FOR LIVESTOCK GRAZING, CONFINED LIVESTOCK, POULTRY, OR AQUACULTURE FACILITIES, STRIP MINES, BORROW PITS, AND WATER BODIES SMALLER THAN 40 ACRES. VACANT AND NONAGRICULTURAL LAND SURROUNDED ON ALL SIDES BY URBAN DEVELOPMENT AND GREATER THAN 40 ACRES IS MAPPED AS OTHER LAND.</p> <p> WATER</p> <p>PERENNIAL WATER BODIES WITH AN EXTENT OF AT LEAST 40 ACRES.</p> |
|--|---|

IMPERIAL COUNTY IMPORTANT FARMLAND MAP 2010

ATTACHMENT G

IMPERIAL COUNTY GENERAL PLAN LAND USE MAP/ TOWNSITE OF WINTEHAVEN ZONING

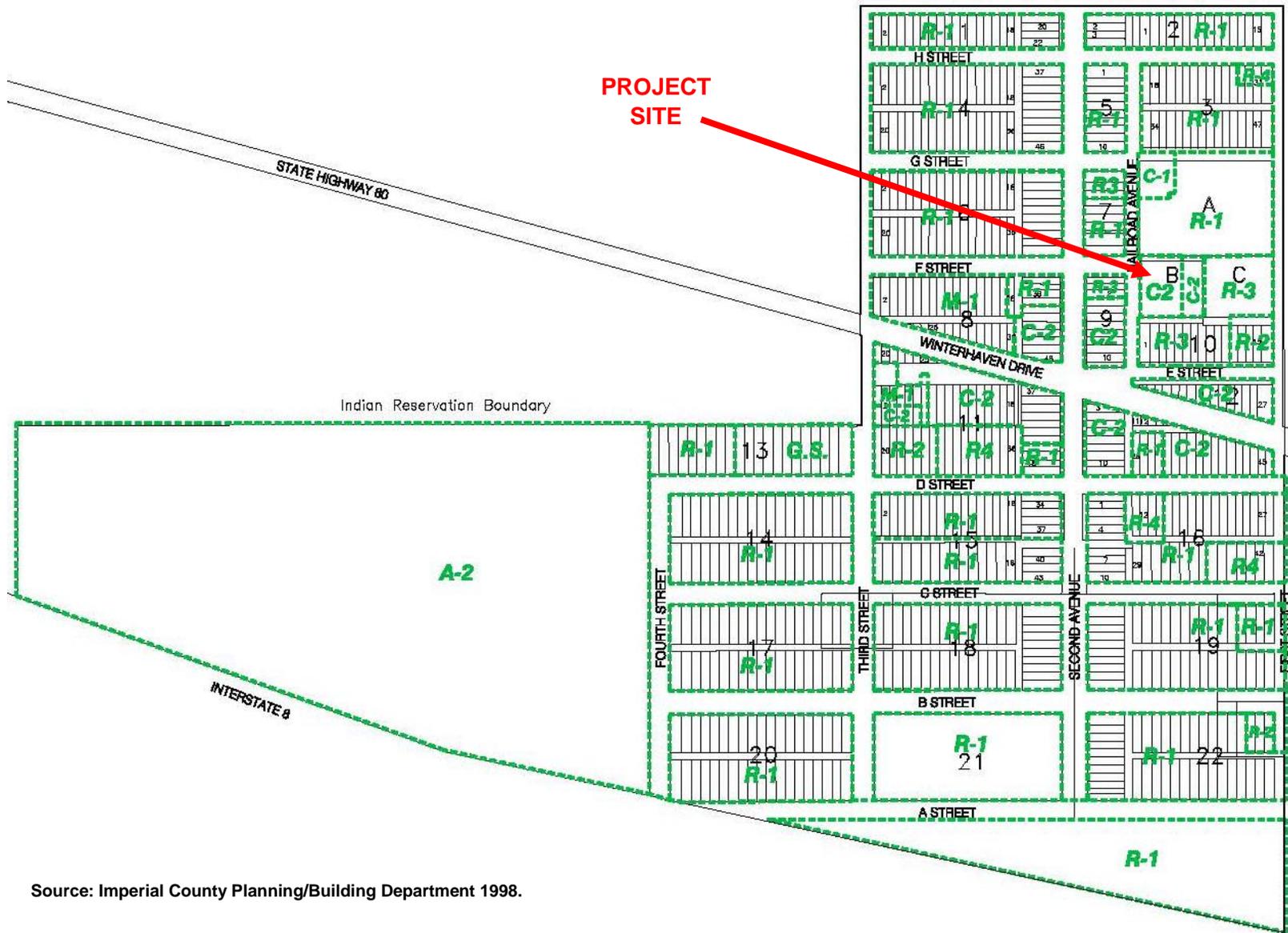


Source: Imperial County 2007.

PROJECT SITE

LEGEND

- Agriculture
- Recreation/Open Space
- Special Purpose Facility



Source: Imperial County Planning/Building Department 1998.

ZONING - TOWNSITE OF WINTERHAVEN – MAP 65