

Appendix A California Environmental Quality Act Checklist

Supporting documentation of all California Environmental Quality Act (CEQA) checklist determinations is provided in Chapter 2 of this Initial Study/Environmental Assessment (IS/EA). Documentation of “No Impact” determinations is provided at the beginning of Chapter 2. Discussion of all impacts, avoidance, minimization, and/or mitigation measures under the appropriate topic headings in Chapter 2.

The following checklist identifies physical, biological, social, and economic factors that might be affected by the proposed project. CEQA impact levels include potentially significant impact, less than significant impact with mitigation, less than significant impact, and no impact.

CEQA Environmental Checklist

This checklist identifies physical, biological, social and economic factors that might be affected by the proposed project. In many cases, background studies performed in connection with the projects indicate no impacts. A NO IMPACT answer in the last column reflects this determination. Where there is a need for clarifying discussion, the discussion is included either following the applicable section of the checklist or is within the body of the environmental document itself. The words "significant" and "significance" used throughout the following checklist are related to CEQA, not NEPA, impacts. The questions in this form are intended to encourage the thoughtful assessment of impacts and do not represent thresholds of significance.

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
I. AESTHETICS: Would the project:				
a) Have a substantial adverse effect on a scenic vista	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Substantially degrade the existing visual character or quality of the site and its surroundings?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Create a new source of substantial light or glare which would adversely affect day or nighttime views in the area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

II. AGRICULTURE AND FOREST RESOURCES: In determining whether impacts to agricultural resources are significant environmental effects, lead agencies may refer to the California Agricultural Land Evaluation and Site Assessment Model (1997) prepared by the California Dept. of Conservation as an optional model to use in assessing impacts on agriculture and farmland. In determining whether impacts to forest resources, including timberland, are significant environmental effects, lead agencies may refer to information compiled by the California Department of Forestry and Fire Protection regarding the state’s inventory of forest land, including the Forest and Range Assessment Project and the Forest Legacy Assessment Project; and the forest carbon measurement methodology provided in Forest Protocols adopted by the California Air Resources Board. Would the project:

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Convert Prime Farmland, Unique Farmland, or Farmland of Statewide Importance (Farmland), as shown on the maps prepared pursuant to the Farmland Mapping and Monitoring Program of the California Resources Agency, to nonagricultural use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Conflict with existing zoning for agricultural use, or a Williamson Act contract?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Conflict with existing zoning for, or cause rezoning of, forestland (as defined in Public Resources Code Section 12220(g)), timberland (as defined by Public Resources Code Section 4526), or timberland zoned Timberland Production (as defined by Government Code Section 51104(g))?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Result in the loss of forest land or conversion of forestland to non-forest use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Involve other changes in the existing environment which, due to their location or nature, could result in conversion of Farmland, to nonagricultural use or conversion of forestland to non-forest use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
III. AIR QUALITY: Where available, the significance criteria established by the applicable air quality management or air pollution control district may be relied upon to make the following determinations. Would the project:				
a) Conflict with or obstruct implementation of the applicable air quality plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Violate any air quality standard or contribute substantially to an existing or projected air quality violation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable federal or state ambient air quality standard (including releasing emissions which exceed quantitative thresholds for ozone precursors)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Expose sensitive receptors to substantial pollutant concentrations?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Create objectionable odors affecting a substantial number of people?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IV. BIOLOGICAL RESOURCES: Would the project:				
a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Game or U.S. Fish and Wildlife Service?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations or by the California Department of Fish and Game or US Fish and Wildlife Service?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Conflict with the provisions of an adopted habitat conservation plan, natural community conservation plan, or other approved local, regional, or state habitat conservation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
V. CULTURAL RESOURCES: Would the project:				
a) Cause a substantial adverse change in the significance of a historical resource as defined in Section 15064.5?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 15064.5?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Directly or indirectly destroy a unique paleontological resource or site or unique geologic feature?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Disturb any human remains, including those interred outside of formal cemeteries?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
VI. GEOLOGY AND SOILS: Would the project:				
a) Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:				
i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ii) Strong seismic ground shaking?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
iii) Seismic-related ground failure, including liquefaction?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
iv) Landslides?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Result in substantial soil erosion or the loss of topsoil?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on- or off-site landslide, lateral spreading, subsidence, liquefaction, or collapse?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
e) Have soils incapable of adequately supporting the use of septic tanks or alternative waste water disposal systems where sewers are not available for the disposal of waste water?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VII. GREENHOUSE GAS EMISSIONS: Would the project:				

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
a) Generate greenhouse gas emissions, either directly or indirectly, that may have a significant impact on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of greenhouse gases?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
VIII. HAZARDS AND HAZARDOUS MATERIALS: Would the project:				
a) Create a significant hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Create a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c) Emit hazardous emissions or handle hazardous or acutely hazardous materials, substances, or waste within one-quarter mile of an existing or proposed school?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Be located on a site which is included on a list of hazardous materials sites compiled pursuant to Government Code Section 65962.5 and, as a result, would it create a significant hazard to the public or the environment?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within 2 miles of a public airport or public use airport, would the project result in a safety hazard for people residing or working in the project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) For a project within the vicinity of a private airstrip, would the project result in a safety hazard for people residing or working in the project area?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
g) Impair implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
h) Expose people or structures to a significant risk of loss, injury, or death involving wildland fires, including where wildlands are adjacent to urbanized areas or where residences are intermixed with wildlands?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
IX. HYDROLOGY AND WATER QUALITY: Would the project:				
a) Violate any water quality standards or waste discharge requirements?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level (e.g., the production rate of pre-existing nearby wells would drop to a level which would not support existing land uses or planned uses for which permits have been granted)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, in a manner which would result in substantial erosion or siltation on- or off-site?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d) Substantially alter the existing drainage pattern of the site or area, including through the alteration of the course of a stream or river, or substantially increase the rate or amount of surface runoff in a manner which would result in flooding on- or off-site?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
e) Create or contribute runoff water which would exceed the capacity of existing or planned stormwater drainage systems or provide substantial additional sources of polluted runoff?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f) Otherwise substantially degrade water quality?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
g) Place housing within a 100-year flood hazard area as mapped on a federal Flood Hazard Boundary or Flood Insurance Rate Map or other flood hazard delineation map?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
h) Place within a 100-year flood hazard area structures which would impede or redirect flood flows?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
i) Expose people or structures to a significant risk of loss, injury or death involving flooding, including flooding as a result of the failure of a levee or dam?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
j) Inundation by seiche, tsunami, or mudflow	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
X. LAND USE AND PLANNING: Would the project:				
a) Physically divide an established community?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Conflict with any applicable land use plan, policy, or regulation of an agency with jurisdiction over the project (including, but not limited to the general plan, specific plan, local coastal program, or zoning ordinance) adopted for the purpose of avoiding or mitigating an environmental effect?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Conflict with any applicable habitat conservation plan or natural community conservation plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
XI. MINERAL RESOURCES: Would the project:				
a) Result in the loss of availability of a known mineral resource that would be of value to the region and the residents of the state?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Result in the loss of availability of a locally-important mineral resource recovery site delineated on a local general plan, specific plan or other land use plan?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
XII. NOISE: Would the project result in:				
a) Exposure of persons to or generation of noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b) Exposure of persons to or generation of excessive groundborne vibration or groundborne noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) A substantial permanent increase in ambient noise levels in the project vicinity above levels existing without the project?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) A substantial temporary or periodic increase in ambient noise levels in the project vicinity above levels existing without the project?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
e) For a project located within an airport land use plan or, where such a plan has not been adopted, within 2 miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
) For a project within the vicinity of a private airstrip, would the project expose people residing or working in the project area to excessive noise levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
XIII. POPULATION AND HOUSING: Would the project:				
a) Induce substantial population growth in an area, either directly (for example, by proposing new homes and businesses) or indirectly (for example, through extension of roads or other infrastructure)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Displace substantial numbers of existing housing, necessitating the construction of replacement housing elsewhere?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Displace substantial numbers of people, necessitating the construction of replacement housing elsewhere?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
XIV. PUBLIC SERVICES:				
a) Would the project result in substantial adverse physical impacts associated with the provision of new or physically altered governmental facilities, need for new or physically altered governmental facilities, the construction of which could cause significant environmental impacts, in order to maintain acceptable service ratios, response times, or other performance objectives for any of the public services:				
Fire protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Police protection?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Schools?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Parks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other public facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
XV. RECREATION:				
a) Would the project increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Does the project include recreational facilities or require the construction or expansion of recreational facilities which might have an adverse physical effect on the environment?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
XVI. TRANSPORTATION/TRAFFIC: Would the project:				
a) Conflict with an applicable plan, ordinance, or policy establishing measures of effectiveness for the performance of the circulation system, taking into account all modes of transportation including mass transit and non-motorized travel and relevant components of the circulation system, including but not limited to intersections, streets, highways and freeways, pedestrian and bicycle paths, and mass transit?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
b) Conflict with an applicable congestion management program, including, but not limited to level of service standards and travel demand measures, or other standards established by the county congestion management agency for designated roads or highways?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
c) Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d) Substantially increase hazards due to a design feature (e.g., sharp curves or dangerous intersections) or incompatible uses (e.g., farm equipment)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Result in inadequate emergency access?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
f) Conflict with adopted policies, plans or programs regarding public transit, bicycle, or pedestrian facilities, or otherwise decrease the performance or safety of such facilities?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
XVII. UTILITIES AND SERVICE SYSTEMS: Would the project:				
a) Exceed wastewater treatment requirements of the applicable Regional Water Quality Control Board?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b) Require or result in the construction of new water or wastewater treatment facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c) Require or result in the construction of new storm water drainage facilities or expansion of existing facilities, the construction of which could cause significant environmental effects?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d) Have sufficient water supplies available to serve the project from existing entitlements and resources, or are new or expanded entitlements needed?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e) Result in a determination by the wastewater treatment provider which serves or may serve the project that it has adequate capacity to serve the project's projected demand in addition to the provider's existing commitments?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
f) Be served by a landfill with sufficient permitted capacity to accommodate the project's solid waste disposal needs?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
g) Comply with federal, state, and local statutes and regulations related to solid waste?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

	Potentially Significant Impact	Less Than Significant with Mitigation	Less Than Significant Impact	No Impact
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XVIII. MANDATORY FINDINGS OF SIGNIFICANCE

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|--|--------------------------|-------------------------------------|--------------------------|-------------------------------------|
| a) Does the project have the potential to degrade the quality of the environment, substantially reduce the habitat of a fish or wildlife species, cause a fish or wildlife population to drop below self-sustaining levels, threaten to eliminate a plant or animal community, substantially reduce the number or restrict the range of a rare or endangered plant or animal or eliminate important examples of the major periods of California history or prehistory? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| b) Does the project have impacts that are individually limited, but cumulatively considerable? ("Cumulatively considerable" means that the incremental effects of a project are considerable when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| c) Does the project have environmental effects which will cause substantial adverse effects on human beings, either directly or indirectly? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

Appendix B Section 4(f) De Minimis Determination

Introduction

Section 4(f) of the Department of Transportation Act of 1966, codified in federal law at 49 United States Code (USC) 303, declares that “it is the policy of the United States Government that special effort should be made to preserve the natural beauty of the countryside and public park and recreation lands, wildlife and waterfowl refuges, and historic sites.”

Section 4(f) specifies that the Secretary [of Transportation] may approve a transportation program or project . . . requiring the use of publicly owned land of a public park, recreation area, or wildlife and waterfowl refuge of national, state, or local significance, or land of an historic site of national, state, or local significance (as determined by the federal, state, or local officials having jurisdiction over the park, area, refuge, or site) only if:

- there is no prudent and feasible alternative to using that land; and
- the program or project includes all possible planning to minimize harm to the park, recreation area, wildlife and waterfowl refuge, or historic site resulting from the use.

Section 6009(a) of SAFETEA-LU amended Section 4(f) legislation at 23 United States Code (USC) 138 and 49 USC 303 to simplify the processing and approval of projects that have only *de minimis* impacts on lands protected by Section 4(f).²² This revision provides that once the U.S. Department of Transportation (USDOT) determines that a transportation use of Section 4(f) property, after consideration of any avoidance, minimization, and mitigation or enhancement measures, results in a *de minimis* impact on that property, an analysis of avoidance alternatives is not required and the Section 4(f) evaluation process is complete. FHWA’s final rule on Section 4(f) *de minimis* findings are codified in 23 Code of Federal Regulations (CFR) 774.3 and CFR 774.17.

Responsibility for compliance with Section 4(f) has been assigned to Caltrans pursuant to 23 USC 326 and 327, including determinations and approval of Section 4(f) evaluations, as well as coordination with those agencies that have jurisdiction over a Section 4(f) resource that may be affected by a project action.

Section 4(f) Consideration for Historic Districts

The Section 4(f) Policy Paper issued by the U.S. Department of Transportation Federal Highway Administration’s Office of Planning, Environment, and Realty Project Development and Environmental Review on July 20, 2012, addresses how Section 4(f) applies to historic districts that are on or eligible for the National Register of Historical Places in the answer to Question 2B, “How does Section 4(f) apply in historic districts that are on or eligible for the NR?” which is given below:

“Within a National Register listed or eligible historic district, FHWA’s long-standing policy is that Section 4(f) applies to those properties that are considered contributing to the eligibility of the historic district, as well as any individually eligible property within the district. Elements within the boundaries of a historic district are assumed to contribute, unless they are determined by FHWA in consultation with the SHPO/THPO not to contribute.” (Section 4(f) Policy Paper, Page 28)

²² *De minimis* impacts are defined as those that do not adversely affect the activities, features, and attributes of the Section 4(f) resource.

As described above, Section 4(f) applies to those elements/properties that contribute to the eligibility of the site as a historic district or resources within a historic district that are individually eligible for listing on the NRHP. Section 4(f) does not apply to property within the district that does not contribute to the eligibility of the historic district or that is not individually eligible.

Section 4(f) de Minimis Determination

The proposed project will have a *de minimis* effect on the two historic districts within the Area of Potential Effects (APE), as described further below.

American River Placer Mining District (P-34-0335)

The American River Placer Mining District (ARPM) is a large historic district that spans from the American River Parkway in the City of Rancho Cordova to the head of the South Fork American River. Previous efforts to record the ARPM, which began in 1968, resulted in the identification of numerous features that contribute to the eligibility of the district. Those elements include dredge fields and tailings piles, mining camps, a homestead site, the Prairie City Cemetery, and water conveyance systems.²³ The National Register status of the above-mentioned elements varies; however, in September 2014, cultural resources staff working on the White Rock Road project was directed by the State Historic Preservation Officer's (SHPO's) staff to assume that the Office of Historic Preservation had concurred with all of the earlier determinations of eligibility.

All of the previously identified elements are located nearer to the American River and are separated from the proposed project area by intervening topography and Aerojet facilities. None of the elements are located within or directly adjacent to the APE for the proposed project; therefore, the project would not result in a "use" of these features.

As a result of the current study, one additional feature, the Rebel Hill Ditch, was determined to be a contributing feature of the ARPM. The proposed White Rock Road Widening project would require right-of-way acquisition, incorporating small segments of the ditch into the transportation system (see **Figures B-1a and B-1b**), which constitutes a Section 4(f) "use" of a contributing element of the ARPM. Due to the extensive nature of the ARPM, however, the minor use of a contributing element is considered *de minimis*, as described further below.

Rebel Hill Ditch

The Rebel Hill Ditch was constructed in 1905 and supplied water to the Natomas No. 9 dredge at Rebel Hill from 1901-1921. The Rebel Hill Ditch was part of the greater digging and mining activities in the area. The ditch was extended southward between 1944 and 1955, where a portion of the ditch parallels Old White Rock Road for approximately 2,000 feet; another small fragment of the ditch is found at the east end of the project APE. The Rebel Hill Ditch is located to the north of White Rock Road, starting at approximate station 149 and ending at station 188 (see **Figures B-1a and B-1b**). Station numbers are shown in the center of the proposed roadway on the reference maps. The Rebel Hill Ditch runs along White Rock Road towards the Aerojet Corporate Yard and Natomas-Aerojet Dredge Fields. Approximately 1,000 feet of this linear resource existing within the APE for the proposed project.

²³ A complete list of the contributing elements of the district is included in Appendix B of the Final White Rock Road HPSR Package, "California Department of Parks and Recreation (DPR) 523 Forms" (P-34-0335 form).

As discussed above, the Rebel Hill Ditch was determined eligible as a contributing element to the ARPMD. The SHPO concurred with the determination of eligibility in a letter dated April 16, 2015 (included at back of this appendix).

Description of Use

The proposed project would result in the use of several small segments of the Rebel Hill Ditch as a result of right-of-way acquisition, as detailed below:

- Between Stations 153.5- 154 (See **Figure B-1a**): This section of the Rebel Hill Ditch will be physically incorporated into the proposed project to expand the current driveway in order to continue providing adequate access to and from White Rock Road after the widening. The total amount of the ditch that will be used in this area is 0.0068 acres (the area is approximately 50 feet in length).
- Between Stations 158- 160.5 (See **Figure B-1b**): This section of the Rebel Hill Ditch will be used to create an access road to Old White Rock Road. This section will also be used towards the widening area of White Rock Road. The total amount of the ditch that will be used in this area is 0.047 acres (the area is approximately 260 feet in length).
- Between Stations 192-164.5 (See **Figure B-1b**): This section of the Rebel Hill Ditch will be used to widen White Rock Road. The total amount of the resource that will be used in this area is 0.038 acres (the area is approximately 240 feet in length).

In summary, a total of 0.092 acres of the approximately 1,000-feet of the Rebel Hill Ditch within the APE for the proposed project will be used in the widening of White Rock Road. The cumulative length of the use is approximately 550 feet.

Why the Use is De Minimis

Caltrans submitted a Finding of Effects (FOE) for the proposed project to SHPO in June 2015. In the FOE, Caltrans proposed that the minor use of a contributing feature of the ARPMD (the Rebel Hill Ditch) did not constitute an adverse effect under Section 106 of the National Historic Preservation Act. The SHPO, as the official with jurisdiction, concurred with the finding of no adverse effect for the ARPMD in a letter dated July 28, 2015 (appended to the end of this appendix). No avoidance, minimization and/or mitigation measures are needed in order to make the de minimis determination for the ARPMD.

According to 23 CFR 774.117, a *de minimis* impact for historic sites means that it has been determined, in accordance with the Section 106 guidelines, that no historic property is affected by the project or that the project will have “no adverse effect” on the historic property in question. In consideration of its consultation with SHPO, Caltrans has determined that the White Rock Road Widening project will have a *de minimis* effect on the ARPMD.

Public Notice Process

According to the FHWA Section 4(f) Policy Paper (July 2012) by the U.S. Department of Transportation Federal Highway Administration's Office of Planning, Environment, and Realty Project Development and Environmental Review (Section 3.3.3 Determination of a *De Minimis* Impact to Section 4(f) Property, page 9), the public notice process for the *de minimis* findings must follow the Section 106 process, as put forth in 36 CFR Part 800. For historic sites, all officials with jurisdiction must be informed of the intent to make a *de minimis* determination and concur in a finding of no effect or no adverse effect. Compliance with the implementing regulations of Section 106 satisfies the public involvement and agency coordination requirement for the *de minimis* impact findings for historic sites.

In its transmittal of the Finding of Effect documentation to the SHPO in June 2015, Caltrans included language that notified SHPO of the intent to make a *de minimis* determination for the ARPM. By SHPO's concurrence in the finding of no adverse effect for the ARPM in its July 28, 2015, letter, the conditions of Section 106 have been satisfied and, therefore, the public involvement and agency coordination for a *de minimis* impact finding for the ARPM has also been satisfied.

Douglas Missile Test Facility District Site (P-34-4143)

In the late 1950s, McDonnell Douglas Corporation leased 1,700 acres from Aerojet to construct rocket-engine test stands, buildings, and other facilities in various areas of the Aerojet site. These facilities were used for assembly and testing of rocket systems through 1969, with several parcels being leased to the National Aeronautics and Space Administration from 1962 to 1972 for rocket engine tests. The Douglas Missile Test Facility site is located at approximately between 219 and 240 station marks along and to the south of White Rock Road. As part of the evaluation of this district, six areas that compose the facility with the connecting roadways were identified as contributors to the district; the result is that all of the property within the boundaries of the district that are within the APE have been identified as contributing to the Douglas Missile Test Facility District Site historic district. The Douglas Missile Test Facility District Site was previously determined to be eligible for the National Register of Historic Places by Caltrans and the finding was concurred upon by the SHPO in the response letter to Caltrans' letter regarding Determinations of Eligibility for the Proposed White Rock Road Widening Project, Rancho Cordova, Sacramento County, CA on April 16, 2015 (included at back of this appendix). The Douglas Missile Test Facility District Site is not part of and does not contribute to the American River Placer Mining District discussed later in the Resources Evaluated Relative to the Requirements of Section 4(f) section.

Description of Use

The proposed project would result in the actual use of the following areas of the Douglas Missile Test Facility District Site, which are detailed below:

- Between Stations 153.5-154 (See **Figure B-1c**): This section of the Douglas Missile Test Facility District Site will be used as an expansion of a currently existing driveway to provide adequate access to White Rock Road after the widening. This section will also be used as part of the cut slope on White Rock Road in order to have enough room to widen the road. The total area of the district site that will be used in this location is 0.40 acres.

- Between Stations ~235.5 - ~236.5, Between Stations 239-241, Between Stations 242-243 (See **Figure B-1d**): This section of the Douglas Missile Test Facility District Site will be used for the slopes located at each of the above areas and shown in **Figure B-1d**. The area of the district site used for each section is 0.0051, 0.037, 0.0098 acres, respectively, for a total of 0.0519 acres.
- Between Stations 244- 246 (See **Figure B-1e**): This section of the Douglas Missile Test Facility District Site will be used to widen to driveway to Nike Road and increase access to White Rock Road. The total area of this resource that will be used is 0.064 acres.

Overall, a total of 0.516 acres of the approximate 2,410 acre Douglas Missile Test Facility District Site will be used in the widening of White Rock Road, as outlined and described above.

Why the Use is De Minimis

Caltrans submitted a Finding of Effects (FOE) for the proposed project to SHPO in June 2015. In the FOE, Caltrans proposed that the minor use of land from the Douglas Missile Test Facility District Site did not constitute an adverse effect under Section 106 of the National Historic Preservation Act. The SHPO, as the official with jurisdiction, concurred with the finding of no adverse effect in a letter dated July 28, 2015 (appended to the end of this appendix). No avoidance, minimization and/or mitigation measures are needed in order to make the de minimis determination for the Douglas Missile Test Facility District Site.

According to 23 CFR 774.117, for historic sites, de minimis impact means that it has been determined, in accordance with the Section 106 guidelines, that no historic property is affected by the project or that the project will have “no adverse effect” on the historic property in question. In consideration of its consultation with SHPO, Caltrans has determined that the White Rock Road Widening project will have a *de minimis* effect on the Douglas Missile Test Facility District Site.

Public Notice Process

According to the FHWA Section 4(f) Policy Paper (July 2012) by the U.S. Department of Transportation Federal Highway Administration’s Office of Planning, Environment, and Realty Project Development and Environmental Review (Section 3.3.3 Determination of a *De Minimis* Impact to Section 4(f) Property, page 9), the public notice process for the *de minimis* findings must follow the Section 106 process, as put forth in 36 CFR Part 800. For historic sites, all officials with jurisdiction must be informed of the intent to make a *de minimis* determination and concur in a finding of no effect or no adverse effect. Compliance with the implementing regulations of Section 106 satisfies the public involvement and agency coordination requirement for the *de minimis* impact findings for historic sites.

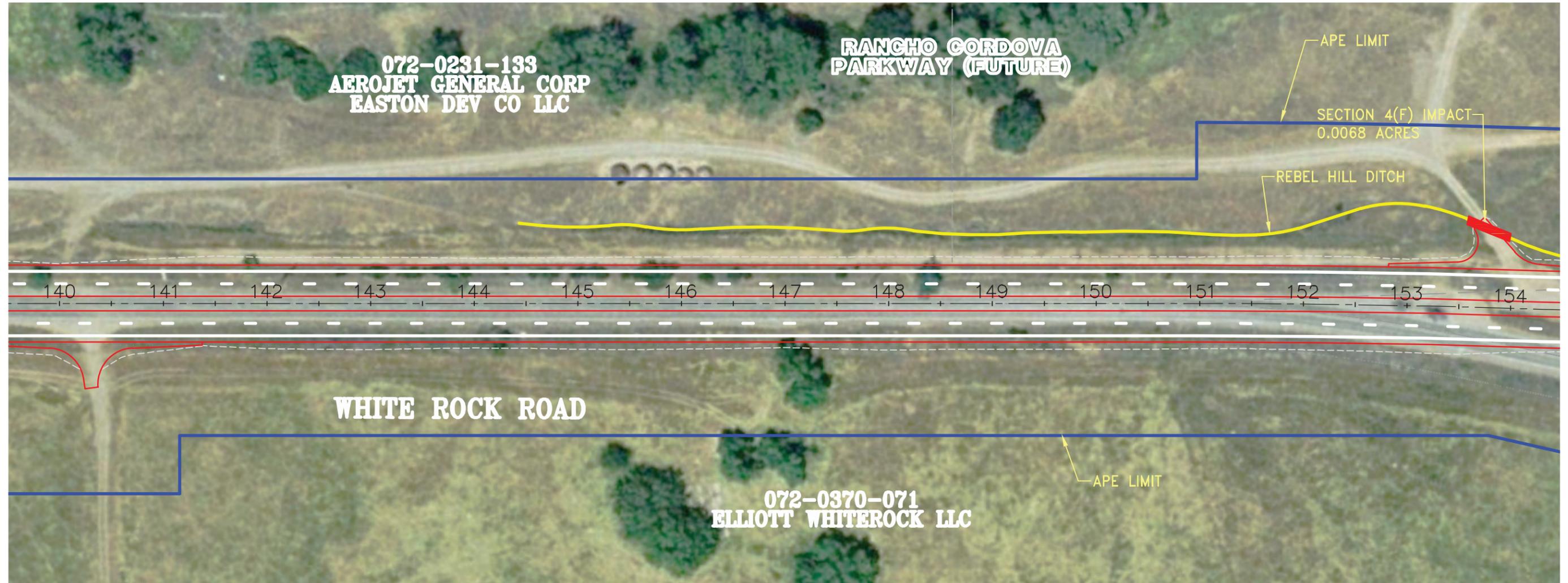
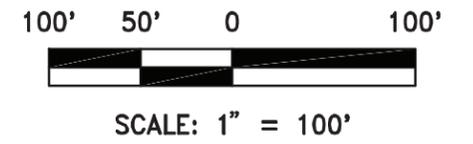
In its transmittal of the FOE documentation to the SHPO in June 2015, Caltrans included language that notified SHPO of the intent to make a *de minimis* determination for the use of the Douglas Missile Testing Facility District Site. By SHPO’s concurrence in the finding of no adverse effect for the proposed project in its July 28, 2015 letter, the conditions of Section 106 have been satisfied and, therefore, the public involvement and agency coordination for a *de minimis* impact finding for the Douglas Missile Testing Facility District Site has also been satisfied.

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LEGEND

- PROPOSED IMPROVEMENTS
- - - PROPOSED RIGHT OF WAY
- - - EXISTING RIGHT OF WAY
- APE LIMIT
- - - CUT/FILL/AREA OF DIRECT IMPACT
- IMPROVEMENTS BY OTHERS
- REBEL HILL DITCH
MAP REFERENCE #5

— CULTURAL RESOURCE P-34-4137
(DOUGLAS MISSILE TEST FACILITY)
MAP REFERENCE #3



Source: Wood Rodgers



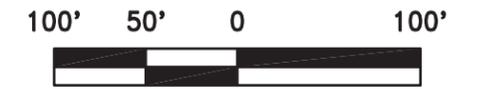
City of Rancho Cordova
Planning Department

Figure B-1a
Section 4(f) Impacts

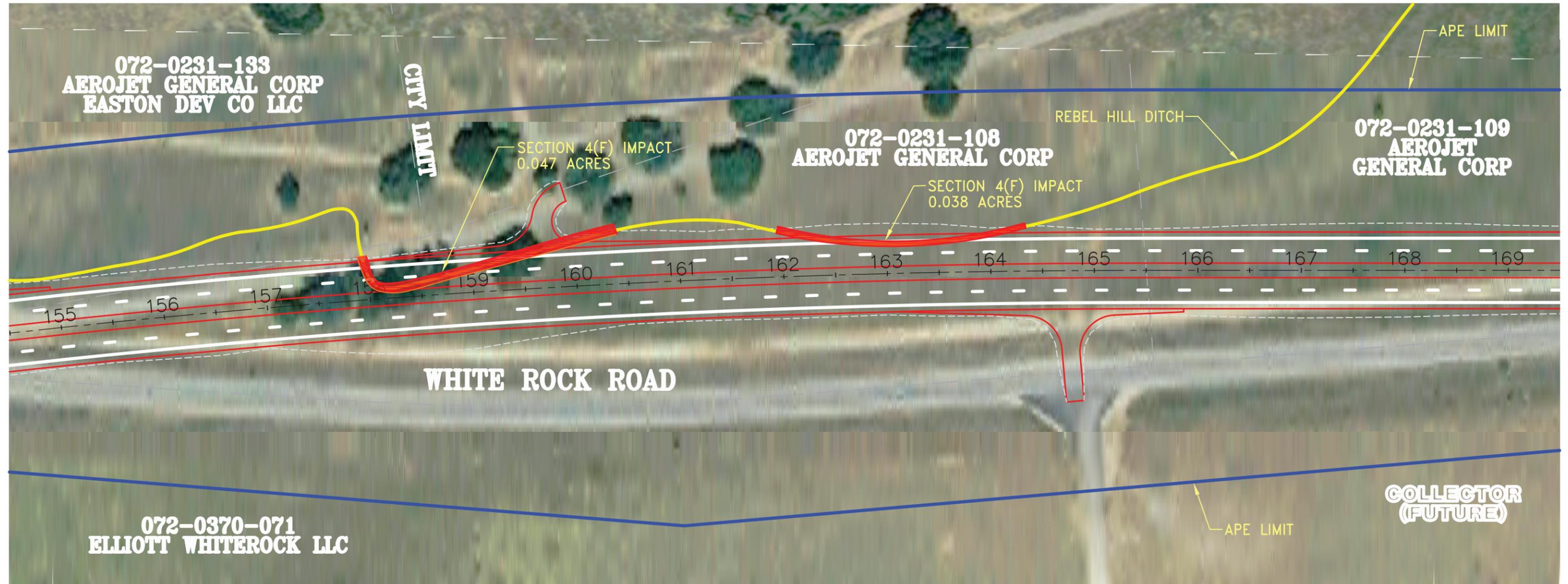
LEGEND

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MAP REFERENCE #5

— CULTURAL RESOURCE P-34-4137
(DOUGLAS MISSILE TEST FACILITY)
MAP REFERENCE #3



SCALE: 1" = 100'



Source: Wood Rodgers



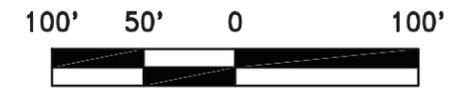
City of Rancho Cordova
Planning Department

Figure B-1b
Section 4(f) Impacts

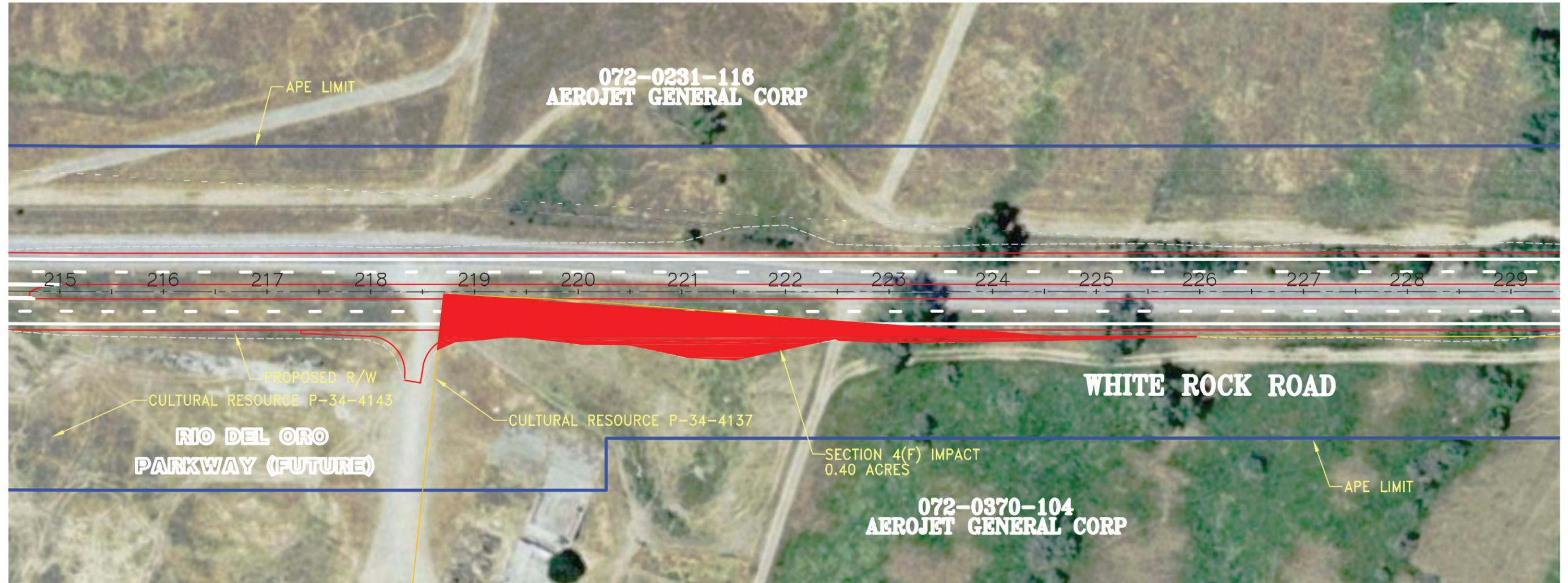
LEGEND

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MAP REFERENCE #5

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(DOUGLAS MISSILE TEST FACILITY)
MAP REFERENCE #3



SCALE: 1" = 100'



Source: Wood Rodgers



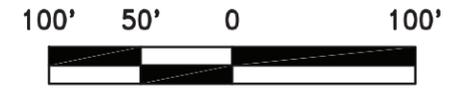
City of Rancho Cordova
Planning Department

Figure B-1c
Section 4(f) Impacts

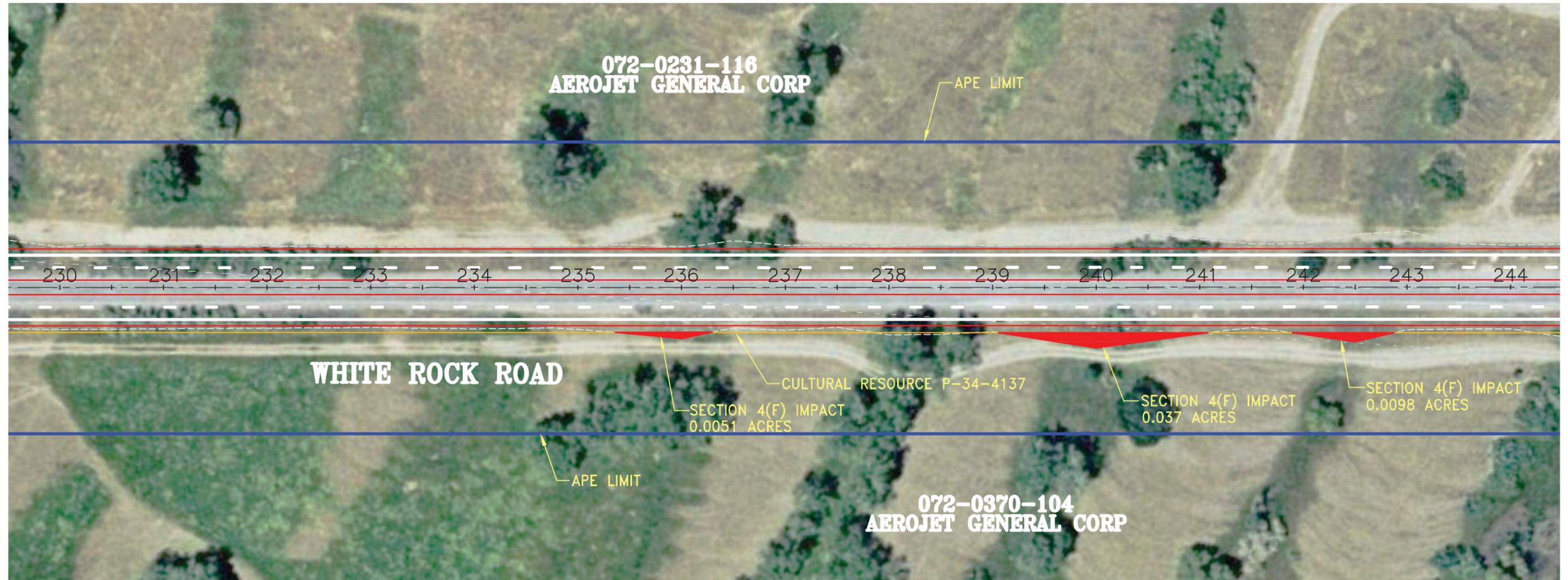
LEGEND

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- MAP REFERENCE #5

— CULTURAL RESOURCE P-34-4137
(DOUGLAS MISSILE TEST FACILITY)
MAP REFERENCE #3



SCALE: 1" = 100'



Source: Wood Rodgers

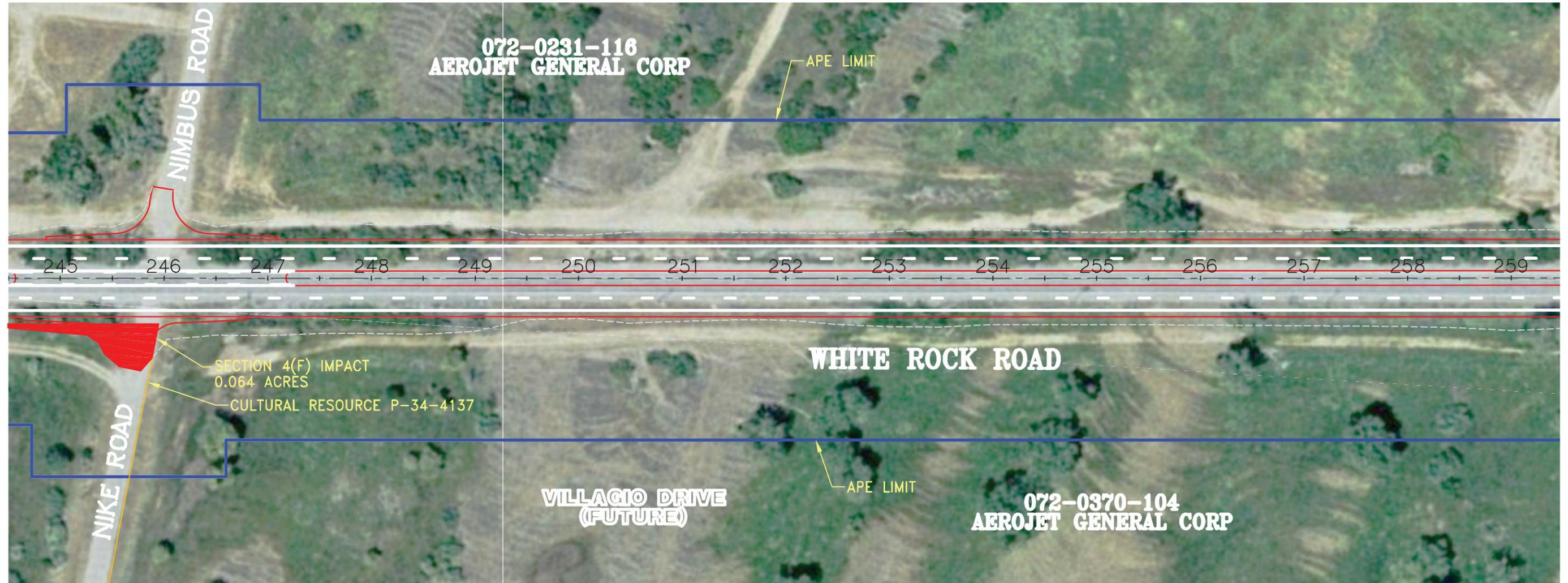
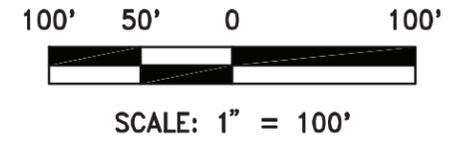


City of Rancho Cordova
Planning Department

Figure B-1d
Section 4(f) Impacts

LEGEND

- PROPOSED IMPROVEMENTS
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- - - EXISTING RIGHT OF WAY
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- IMPROVEMENTS BY OTHERS
- REBEL HILL DITCH
MAP REFERENCE #5
- CULTURAL RESOURCE P-34-4137
(DOUGLAS MISSILE TEST FACILITY)
MAP REFERENCE #3



Source: Wood Rodgers



City of Rancho Cordova
Planning Department

Figure B-1e
Section 4(f) Impacts

Appendix C Title IV Policy

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DEPARTMENT OF TRANSPORTATION

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March 16, 2012

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Additionally, if you need this information in an alternate format, such as in Braille or in a language other than English, please contact Mario Solis, Manager, Title VI and Americans with Disabilities Act Program, California Department of Transportation, 1823 14th Street, MS-79, Sacramento, CA 95811. Phone: (916) 324-1353, TTY 711, fax (916) 324-1869, or via email: mario_solis@dot.ca.gov.

A handwritten signature in blue ink, appearing to read "Malcolm Dougherty".

MALCOLM DOUGHERTY
Acting Director

Appendix D Signed APE Map

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LEGEND

PROJECT LAYOUT AND APE LIMITS

WHITE ROCK ROAD WIDENING

CITY OF RANCHO CORDOVA

CITY OF RANCHO CORDOVA, CALIFORNIA

FEBRUARY 2013



SCALE: 1" = 100'

- PROPOSED IMPROVEMENTS
- PROPOSED RIGHT OF WAY
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- - - APE LIMIT
- CUT/FILL/AREA OF DIRECT IMPACT
- IMPROVEMENTS BY OTHERS
- - - CULTURAL RESOURCE CA-SAC-1013-H



SEE SHEET 2

SHEET 1

ED FOR PAGES 1-17
 ERIN DWYER, ASSOCIATE ENVIRONMENTAL PLANNER - ARCHAEOLOGY
 PQS/PI - PREHISTORIC ARCHAEOLOGY
 ENVIRONMENTAL BRANCH M1
 CALTRANS D3

12/17/13
 DATE

Candy Root FOR PAGES 1-17
 LOCAL ASSISTANCE PROJECT ENGINEER
 OFFICE OF LOCAL ASSISTANCE
 CALTRANS D3

12/17/13
 DATE

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Appendix E List of Abbreviations

AB	Assembly Bill
ADA	Americans with Disabilities Act
ADI	Area of Direct Impact
ADT	average daily traffic
APN	Assessor's Parcel Number
ARB	Air Resources Board
AT&T	American Telephone and Telegraph Inc.
BMP	best management practices
CAA	Clean Air Act
Caltrans	California Department of Transportation
CCR	California Code of Regulations
CDFW	California Department of Fish and Wildlife
CEQA	California Environmental Quality Act
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CFR	Code of Federal Regulations
CO	carbon monoxide
CSMP	Corridor System Management Plan
CWA	Clean Water Act
dba	A-weighted decibels
DSA	disturbed soil area
dbh	diameter at breast height
EO	Executive Order
FESA	Federal Endangered Species Act
FHWA	Federal Highway Administration
FTA	Federal Transit Administration
FTIP	Federal Transportation Improvement Program
GET	groundwater extraction treatment
GHG	greenhouse gas
HASP	Health and Safety Plan
HPSR	Historic Property Survey Report
HRER	Historic Resources Evaluation Report
ISA	Initial Site Assessment
lbs/day	pounds per day
Ldn	day-night level
LEDPA	least environmentally damaging practicable alternative
Leq	equivalent sound level
LOS	level of service
LUST	leaking underground storage tank
MBTA	Migratory Bird Treaty Act
MND	Mitigated Negative Declaration
MSAT	mobile source air toxics
MS4	municipal separate storm sewer systems
MTCO ₂ e	metric tons CO ₂ equivalent
MTIP	Metropolitan Transportation Improvement Program
MTP	Metropolitan Transportation Plan
NAAQS	national ambient air quality standards
NAC	noise abatement criteria
NAHC	Native American Heritage Commission

NEPA	National Environmental Policy Act
NHPA	National Historic Preservation Act
NHTSA	National Highway Traffic Safety Administration
NOAA	National Oceanic and Atmospheric Administration
NO ₂	nitrogen dioxide
NO _x	nitrogen oxides
NPDES	National Pollutant Discharge Elimination System
NRHP	National Register of Historic Places
OHP	Office of Historic Preservation
O ₃	ozone
Pb	lead
PG&E	Pacific Gas and Electric Company
PM	particulate matter
POAQC	Projects of Air Quality Concern
PRC	Public Resources Code
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
ROG	reactive organic gases
RTP	Regional Transportation Plan
RWQCB	Regional Water Quality Control Board
SACOG	Sacramento Area Council of Governments
SCS	Sustainable Communities Strategy
SHPO	State Historic Preservation Officer
SMAQMD	Sacramento Metropolitan Air Quality Management District
SMUD	Sacramento Municipal Utility District
SO ₂	sulfur dioxide
SSHCP	South Sacramento Habitat Conservation Plan
SWMP	Storm Water Management Plan
SWPPP	Storm Water Pollution Protection Plan
SWRCB	State Water Resources Control Board
TCE	trichloroethylene
TDM	transportation demand management
TMDL	total maximum daily load
TSM	transportation system management
UCMP	University of California Museum of Paleontology
USACE	U.S. Army Corps of Engineers
USC	United States Code
USEPA	U.S. Environmental Protection Agency
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
VELB	valley elderberry longhorn beetle
VMT	vehicle miles traveled
VOC	volatile organic compound
WDR	waste discharge requirements
WEAP	Worker Environmental Awareness Program

Appendix F Avoidance, Minimization, and/or Mitigation Measures Summary

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Environmental Commitments	Responsible Party	Timing
Utilities/Emergency Services		
<p>Emergency Services</p> <p>During construction, emergency access on public roadways shall be available at all times to maintain emergency vehicle access through the area. At no time during the construction period will the entire width of a public roadway be closed to emergency vehicle traffic.</p> <p>Prior to the start of construction, a Traffic Management Plan shall be developed that would reduce delays and obstructions caused by construction detours to the greatest extent possible. The plan developers shall coordinate with emergency service providers (i.e., fire and police) during plan development to ensure that traffic control measures proposed in the plan would meet the needs of the service providers. These detours shall be provided to all emergency services entities that service the area prior to their implementation to avoid impacts to emergency response times.</p>	City of Rancho Cordova	Prior to and during project construction
Traffic		
<p>Construction Measures</p> <p>A Transportation Management Plan (TMP) would be prepared that would be in place throughout construction. The TMP would be made available to the public and to each jurisdiction within the study area. The TMP would be designed to minimize project-related traffic delay and accidents by adopting traditional traffic mitigation strategies through a combination of public and motorist information, demand management, incident management, system management, alternative route strategies, and construction strategies. The TMP would include detour signage, public transportation information, construction timing, and other useful construction information for residents and motorists.</p>	City of Rancho Cordova	Prior to project construction
Visual/Aesthetic Resource		
<p>To minimize construction related impacts, all areas disturbed or used for staging of vehicles and equipment shall be hydroseeded and restored to their preconstruction condition upon completion of the project. This can best be accomplished by loosening and recontouring the area's soil before applying erosion control (hydroseed).</p>	City of Rancho Cordova	Following project construction

Environmental Commitments	Responsible Party	Timing
<p>The removal of established vegetation, including trees, shall be minimized and shall be avoided where feasible. The areas where trees are present should be protected to reduce damage to the trees' root systems. Where it is possible to save and preserve existing trees (of significant size and maturity), care and caution should be implemented during the construction phase. Environmentally sensitive area fencing shall be installed to demarcate areas where vegetation is being preserved.</p>	City of Rancho Cordova	Prior to and during construction
<p>All disturbed areas during each construction season shall utilize best management practices (BMP) which will include temporary erosion control consisting of a native seed mix at the end of each construction season.</p>	City of Rancho Cordova	During construction
<p>Contour grading and slope rounding shall be utilized on all cut and fill slopes in order to help restore the environment in a manner that will blend with the surrounding natural landscape.</p>	City of Rancho Cordova	During construction
Cultural Resources		
<p>If cultural materials are discovered during construction, all earth-moving activity within and around the immediate discovery shall be discontinued and diverted until a qualified archaeologist can assess the nature and significance of the find.</p>	City of Rancho Cordova	During construction
<p>If human remains are discovered, California Health and Safety Code Section 7050.5 states that further disturbances and activities shall cease in any area or nearby area suspected to overlie remains and the County Coroner shall be contacted. Pursuant to Public Resources Code Section 5097.98, if the remains are thought to be Native American, the coroner will notify the Native American Heritage Commission, which will then notify the Most Likely Descendant. At this time, the person who discovered the remains will contact the City's Environmental Monitoring staff so that they and the City cultural resources staff may work with the Most Likely Descendent on the respectful treatment and disposition of the remains. Further provisions of PRC Section 5097.98 are to be followed as applicable.</p>	City of Rancho Cordova	During construction
Water Quality and Storm Water Runoff		
<p>Construction</p> <p>Discharges should not cause or contribute to violations of water quality standards that would cause or create a condition of nuisance, pollution, or water quality impairment in receiving waters. The RWQCB requires that compliance with water quality standards be addressed through the effective implementation of best management practices (BMPs) to reduce pollutants in storm water and to protect the beneficial uses of receiving waters that may be impacted as the result of</p>	City of Rancho Cordova	Prior to project construction

Environmental Commitments	Responsible Party	Timing
construction operations.		
Erosion controls should always be the first line of defense to keep soil from being mobilized in wind and water during construction. Examples include stabilized construction entrances, mulch, three-step hydroseeding, spray-on soil stabilizers, and anchored blankets. Sediment controls are the second line of defense; they help to filter sediment out of runoff before it reaches the storm drains and local waterways. Examples include rock bags to protect storm drain inlets, staked or weighted straw wattles/fiber rolls, and silt fences.	City of Rancho Cordova	Prior to project construction
In addition to erosion and sediment controls, the project must have BMPs in place to keep other construction-related wastes and pollutants out of the storm drains. Such practices include but are not limited to filtering water from dewatering operations, providing proper washout areas for concrete trucks and stucco/paint contractors, containing wastes, managing portable toilets properly, and dry sweeping instead of washing down dirty pavement.	City of Rancho Cordova	Prior to project construction
It is the City's responsibility to verify that the proposed BMPs for the project are appropriate for the unique site conditions, including topography, soil type, and anticipated volumes of water entering and leaving the site during the construction phase. In particular, the City should check for the presence of colloidal clay soils on the site. Experience has shown that these soils do not settle out with conventional sedimentation and filtration BMPs. The project applicant may wish to conduct settling column tests in addition to other soils testing on the site to ascertain whether conventional BMPs will work for the project.	City of Rancho Cordova	Prior to project construction
If sediment-laden or otherwise polluted runoff discharges from the construction site are found to impact the County's storm drain system and/or waters of the state, the property owner will be subject to enforcement action and possible fines by the RWQCB.	City of Rancho Cordova	Prior to project construction
Operational The City is required to develop, implement, and maintain effective BMPs, including source control BMPs and treatment control measures, at which time the project is concluded, in order to reduce pollutants in storm water.	City of Rancho Cordova	Prior to project construction

Environmental Commitments	Responsible Party	Timing						
Hazardous Waste/Materials								
<p>A Phase 2 Assessment for hazardous wastes and materials will be conducted before the project is constructed. As part of the Phase 2 Assessment, it is recommended that soil samples be collected in the vicinity of the sites listed below. All other sites identified in the section above either are too far from the project or no environmental concerns are present at the sites:</p> <ul style="list-style-type: none"> • GEM of Rancho Cordova (formerly Waste Management) (Figure 2.2-4a) • Browning Ferris Industries, Inc. (Figure 2.2-4a) • Inactive Rancho Cordova Test Site – GET F Sprayfield (Figure 2.2-4a) • Inactive Rancho Cordova Test Site – Site 74 (Figure 2.2-4b) • White Rock Road Landfill – South (Figure 2.2-4c) • White Rock Road Landfill – North (Figure 2.2-4d) 	City of Rancho Cordova	Prior to project construction						
<p>Because of the shallow nature of the expected excavation activities proposed for the project, It is recommend that soil samples are collected in shallow soil only. It is also recommended that soil samples are collected from shallow soil borings at each location. Soil samples from each boring should be collected at approximately 2 and 5 feet below grade. Additional deeper soil samples may be warranted based on site conditions.</p>	City of Rancho Cordova	Prior to project construction						
<p>The Sampling and Analysis Plan (SAP) was developed to evaluate the specific environmental hazards known to exist in soil in the surrounding vicinity adjacent to identified RECs. However, environmental hazards associated with particular RECs vary greatly over the span of the project. Therefore, to characterize environmental hazards present at proposed soil boring locations, each soil boring has been assigned an analytical suite based on its proximity to each REC (Figures 2.2-4a to 2.2-4d). The table below presents the SAP.</p> <table border="1" data-bbox="191 1255 1203 1399"> <thead> <tr> <th data-bbox="191 1255 451 1317">SITE NAME</th> <th data-bbox="451 1255 762 1317">SOIL BORINGS</th> <th data-bbox="762 1255 1203 1317">PROPOSED ANALYTES</th> </tr> </thead> <tbody> <tr> <td data-bbox="191 1317 451 1399">GEM/Waste Management</td> <td data-bbox="451 1317 762 1399">SB-1 through SB-4</td> <td data-bbox="762 1317 1203 1399">PCB</td> </tr> </tbody> </table>	SITE NAME	SOIL BORINGS	PROPOSED ANALYTES	GEM/Waste Management	SB-1 through SB-4	PCB	City of Rancho Cordova	Prior to project construction
SITE NAME	SOIL BORINGS	PROPOSED ANALYTES						
GEM/Waste Management	SB-1 through SB-4	PCB						

Environmental Commitments			Responsible Party	Timing
GET F Sprayfield	SB-3 through SB-6	Perchlorate		
Browning Ferris Industries, Inc.	SB-7 and SB-8	CAM-17, Chloride		
Site 74	SB-9 through SB-17	Dioxins/Furans and CAM-17		
White Rock Road Landfill – South	SB-18 through SB-26	CAM-17, PAH, and Hydrocarbons		
White Rock Road Landfill – North	SB-27 through SB-41	CAM-17, PAH, and Hydrocarbons		
Human Health Risk Assessment It is recommended that a site specific Tier 2 Human Health Risk Assessment (HHRA) be performed using the RISC- 5 software. A Tier 2 assessment is a semi-qualitative assessment. The Tier 2 HHRA should be performed using field and analytical results for residual petroleum constituents at the site. The RISC-5 model should be run for the scenarios of dermal contact to subsurface workers through soil. The RISC-5 model should use a commercial receptor scenario, a one-in-a-million cancer risk level, and a hazard quotient of less than one for the site.			City of Rancho Cordova	Prior to and during project construction
Site-Specific Health and Safety Plan It is recommended that a site-specific Health and Safety Plan (HASP) be prepared and retained on-site during all field activities. All work should be conducted according to the HASP. The HASP should contain information on the properties of the hazardous materials known to be on-site. This information is equivalent to that contained in Material Safety Data Sheets.			City of Rancho Cordova	During project construction
Unknown Contamination If any previously unknown hazardous contamination is revealed during project construction, the procedures outlined in the Caltrans Unknown Hazards Procedures shall be followed.			City of Rancho Cordova	During project construction
Utility Relocation For the relocation of utilities, proper coordination with utility owners shall occur and the Underground Service Alert shall be contacted at least two full working days before beginning construction.			City of Rancho Cordova	During project construction
Air Quality				

Environmental Commitments	Responsible Party	Timing
<p>Construction of the proposed project would be required to comply with Caltrans' Standard Specifications, Section 14-9 (Air Quality). Caltrans' specifications pertaining to dust control and dust palliative requirements are a required part of construction contracts and should effectively reduce and control emission impacts during construction. These requirements include daily watering of areas disturbed by construction activities. In addition, the California Health and Safety Code requires the contractor to prevent visible dust from leaving the construction site. Most of the construction impacts to air quality are short term in duration and, therefore, will not result in long-term adverse conditions. Implementation of the following measures, some of which may also be required for other purposes such as stormwater pollution control, will reduce any air quality impacts resulting from construction activities:</p> <ol style="list-style-type: none"> 1. The construction contractor shall comply with Caltrans' Standard Specifications in Section 14 (2010). <ul style="list-style-type: none"> • Section 14-9.02 (Air Pollution Control) specifically requires compliance by the contractor with all applicable laws and regulations related to air quality, including air pollution control district and air quality management district regulations and local ordinances. • Section 14-9.03 (Dust Control) is directed at controlling dust. If dust palliative materials other than water are to be used, material specifications are contained in Section 18. 2. Apply water or dust palliative to the site and equipment as frequently as necessary to control fugitive dust emissions. Fugitive emissions generally must meet a "no visible dust" criterion either at the point of emission or at the right of way line depending on local regulations. 3. Spread soil binder on any unpaved roads used for construction purposes, and all project construction parking areas. 4. Wash off trucks as they leave the right-of-way as necessary to control fugitive dust emissions. 5. Develop a dust control plan documenting sprinkling, temporary paving, speed limits, and expedited revegetation of disturbed slopes as needed to minimize construction 	<p>City of Rancho Cordova</p>	<p>Prior to and during construction</p>

Environmental Commitments	Responsible Party	Timing
<p>impacts to existing communities.</p> <ol style="list-style-type: none"> 6. Locate equipment and materials storage sites as far away from residential and park uses as practical. Keep construction areas clean and orderly. 7. Use track-out reduction measures such as gravel pads at project access points to minimize dust and mud deposits on roads affected by construction traffic. 8. Cover all transported loads of soils and wet materials prior to transport, or provide adequate freeboard (space from the top of the material to the top of the truck) to minimize emission of dust (particulate matter) during transportation. 9. Promptly and regularly remove dust and mud that are deposited on paved, public roads due to construction activity and traffic to decrease particulate matter. 10. Install mulch or plant vegetation as soon as practical after grading to reduce windblown particulate in the area. Be aware that certain methods of mulch placement, such as straw blowing, may themselves cause dust and visible emission issues and may need to use controls such as dampened straw. 11. Properly tune and maintain construction equipment and vehicles. Use low-sulfur fuel in all construction equipment as provided in California Code of Regulations Title 17, Section 93114. 12. Route and schedule construction traffic to avoid peak travel times as much as possible, to reduce congestion and related air quality impacts caused by idling vehicles along local roads. 		
<p>In addition to the above Caltrans' Standard Specifications, the following "Enhanced Exhaust Control Practices," as recommended by SMAQMD, shall also be included to further reduce construction-generated emissions:</p> <p>Enhanced Exhaust Control Practices</p> <ol style="list-style-type: none"> 1. The project representative shall submit to the lead agency and SMAQMD a comprehensive inventory of all off-road construction equipment, equal to or greater than 50 horsepower, that will be used an aggregate of 40 or more hours during any 	<p>City of Rancho Cordova</p>	<p>Prior to and during construction</p>

Environmental Commitments	Responsible Party	Timing
<p>portion of the construction project.</p> <ul style="list-style-type: none"> • The inventory shall include the horsepower rating, engine model year, and projected hours of use for each piece of equipment. • The project representative shall provide the anticipated construction timeline including start date, and name and phone number of the project manager and on-site foreman. • This information shall be submitted at least four business days prior to the use of subject heavy-duty off-road equipment. • The inventory shall be updated and submitted monthly throughout the duration of the project, except that an inventory shall not be required for any 30-day period in which no construction activity occurs. <p>2. The project representative shall provide a plan for approval by the lead agency and SMAQMD demonstrating that the heavy-duty off-road vehicles (50 horsepower or more) to be used in the construction project, including owned, leased, and subcontractor vehicles, will achieve a project wide fleet-average 20 percent NOx reduction and 45 percent particulate reduction compared to the most recent California ARB fleet average, or reductions sufficient to demonstrate compliance with the SMAQMD's maximum allowable mass emissions threshold of 85 lbs/day of NOx.</p> <ul style="list-style-type: none"> • This plan shall be submitted in conjunction with the equipment inventory. • Acceptable options for reducing emissions may include use of late model engines, low-emission diesel products, alternative fuels, engine retrofit technology, after-treatment products, the payment of mitigation fees to the SMAQMD, and/or other options as they become available. <p>3. The project representative shall ensure that emissions from all off-road diesel powered equipment used on the project site do not exceed 40 percent opacity for more than three minutes in any one hour.</p> <ul style="list-style-type: none"> • Any equipment found to exceed 40 percent opacity (or Ringelmann 2.0) shall 		

Environmental Commitments	Responsible Party	Timing
<p>be repaired immediately.</p> <ul style="list-style-type: none"> • Non-compliant equipment will be documented and a summary provided to the lead agency and SMAQMD monthly. • A visual survey of all in-operation equipment shall be made at least weekly. • A monthly summary of the visual survey results shall be submitted throughout the duration of the project, except that the monthly summary shall not be required for any 30-day period in which no construction activity occurs. The monthly summary shall include the quantity and type of vehicles surveyed as well as the dates of each survey. <p>4. The SMAQMD and/or other officials may conduct periodic site inspections to determine compliance. Nothing in this mitigation shall supersede other SMAQMD, state, or federal rules or regulations.</p> <p>In lieu of implementing all or a portion of the above Enhanced Exhaust Control Practices, a refined emissions modeling analysis can be performed, once more detailed construction information becomes available. The refined analysis will be conducted in accordance with applicable SMAQMD-recommended methodologies and guidance. Emissions-reduction measures will be included sufficient to demonstrate compliance with the SMAQMD's maximum allowable mass emissions threshold of 85 lbs/day of NOx. The refined analysis will be reviewed and endorsed by the SMAQMD and the City prior to initiating construction. Based on a preliminary analysis of the preferred alternative, the use of solar/battery-powered signal boards and newer heavy-duty off-road equipment would likely be sufficient to reduce construction-generated emissions to below the SMAQMD's maximum allowable mass emissions threshold of 85 lbs/day of NOx.</p> <p>As noted above, Caltrans' Standard Specifications, Section 14, specifically requires compliance with air pollution control rules, regulations, ordinances, and statutes that apply to work performed under the Contract, including air pollution control rules, regulations, ordinances, and statutes provided in Government Code § 11017 (Pub Cont Code § 10231).</p>		
Noise		

Environmental Commitments	Responsible Party	Timing
<p>The following measures will be implemented to reduce the project's potential noise effects during construction:</p> <ul style="list-style-type: none"> • Noise-generating construction activities occurring in the proximity of noise-sensitive land uses (e.g., residential uses) shall be limited to between the hours of 7:00 a.m. to 7:00 p.m. on weekdays, and between the hours of 8:00 a.m. to 6:00 p.m. on weekends. • The following mandatory noise abatement measures will be implemented as required by Caltrans Standard Specifications Section 14-8.02: <ul style="list-style-type: none"> • Per Section 14-8.02 (Noise Control), do not exceed 86 dBA at 50 feet from the job site activities from 9 p.m. to 6 a.m. • Each internal combustion engine, used for any purpose on the job, or related to the job, shall be equipped with a muffler of a type recommended by the manufacturer. No internal combustion engine shall be operated on the job site without an appropriate muffler. • As directed by the Caltrans' resident engineer, the contractor shall implement appropriate additional noise abatement measure including, but not limited to, changing the location of stationary construction equipment, turning off idling equipment, rescheduling construction activity, or installing acoustic barriers around stationary construction noise sources. 	City of Rancho Cordova	During project construction
Biological Resources		
<p>Natural Communities</p> <p>During project development, the size of the work area limits will be reduced to the smallest amount feasible within sensitive habitat areas.</p>	City of Rancho Cordova	During project design
<p>Soil stabilization and sediment control best management practices (BMPs) shall be implemented to ensure that contamination of sediment and other pollutants does not occur. Waste management and material pollution control BMPs shall also be implemented to minimize the potential for pollutant spills or releases from construction equipment.</p>	City of Rancho Cordova	During project construction
<p>In addition, standard staging area practices for sediment-tracking reduction shall also be implemented where necessary and may include vehicle washing and street sweeping.</p>	City of Rancho Cordova	During project construction

Environmental Commitments	Responsible Party	Timing
<p>Wetlands and Other Waters</p> <p>Mitigation set forth to compensate for impacts to aquatic features is included in the Vernal Pool Crustacean discussion in Section 2.3.5. Mitigation for all aquatic features was determined based on whether or not a feature was considered vernal pool crustacean habitat.</p>	City of Rancho Cordova	Prior to or during project construction
<p>Plant Species</p> <p>A circle with a radius measurement from the trunk of the tree to the tip of its longest limb shall constitute the dripline protection area of each tree. Limbs must not be cut back in order to change the dripline. The area beneath the dripline is a critical portion of the root zone and defines the minimum protected area of each tree. Removing limbs that make up the dripline does not change the protected area.</p>	City of Rancho Cordova	Prior to or during project construction
<p>Protective fencing shall be installed at the driplines of the protected trees prior to the start of any construction work (including grading or placement of vehicles on-site) in order to avoid damage to the trees and their root systems. This fencing may be installed around the outermost dripline of clusters of trees proposed for protection, rather than individual trees. Fencing shall be shown on all project plans.</p>	City of Rancho Cordova	Prior to or during project construction
<p>No vehicles, construction equipment, mobile home/office, supplies, materials, or facilities shall be driven, parked, stockpiled, or located within the driplines of protected trees. A laminated sign indicating such shall be attached to fencing surrounding trees on-site.</p>	City of Rancho Cordova	During project construction
<p>No grading (grade cuts or fills) shall be allowed within the driplines of protected trees.</p>	City of Rancho Cordova	Prior to project construction
<p>Drainage patterns on the site shall not be modified so that water collects or stands within, or is diverted across, the dripline of any protected tree.</p>	City of Rancho Cordova	Prior to and during construction
<p>No trenching shall be allowed within the driplines of protected trees. If it is absolutely necessary to install underground utilities within the dripline of a protected tree, the utility line shall be bored and jacked under the supervision of a certified arborist.</p>	City of Rancho Cordova	During project construction
<p>The construction of impervious surfaces within the driplines of protected trees shall be stringently minimized. When it is absolutely necessary, a piped aeration system shall be installed under the supervision of a certified arborist. Wherever possible, pervious concrete shall be used as an alternative to traditional concrete when it is required under tree driplines.</p>	City of Rancho Cordova	During project construction
<p>No sprinkler or irrigation system shall be installed in such a manner that sprays water or requires trenching within the driplines of protected trees. An aboveground drip irrigation system is recommended.</p>	City of Rancho Cordova	During project construction

Environmental Commitments	Responsible Party	Timing
Landscaping beneath protected trees may include non-plant materials such as bark mulch or wood chips. The only plant species that shall be planted within the driplines of protected trees are those that are tolerant of the natural environs of the trees. Limited drip irrigation approximately twice per summer is recommended for the understory plants.	City of Rancho Cordova	During project construction
Any protected trees on the site that require pruning shall be pruned by a certified arborist prior to the start of construction work. All pruning shall be in accordance with the American National Standards Institute A300 pruning standards and International Society of Arboriculture's tree-pruning guidelines.	City of Rancho Cordova	During project construction
No signs, ropes, cables (except those which may be installed by an arborist to provide limb support), or any other items shall be attached to the protected trees.	City of Rancho Cordova	Prior to and during construction
<p>The removal of 573 inches dbh of native oak trees shall be compensated by planting native oak trees—either valley oak, blue oak, or interior live oak—in numbers sufficient to replace the dbh inches lost. Dbh inches shall be replaced based on the ratios below, at locations authorized by the City of Rancho Cordova.</p> <p>Equivalent compensation based on the following ratio is required:</p> <ul style="list-style-type: none"> • one D-pot seedling (40 cubic inches or larger) = 1 inch dbh • one 15-gallon tree = 1 inch dbh • one 24-inch box tree = 2 inches dbh • one 36-inch box tree = 3 inches dbh 	City of Rancho Cordova	Prior to project construction
<p>Prior to the start of construction, a Replacement Oak Tree Planting Plan shall be prepared by a certified arborist or licensed landscape architect and shall be submitted to the City of Rancho Cordova for approval. The Replacement Oak Tree Planting Plan(s) shall include the following minimum elements:</p> <ul style="list-style-type: none"> • Species, size, and locations of all replacement plantings. • Method of irrigation. • A tree-planting detail, including the 10-foot-deep boring hole to provide for adequate 	City of Rancho Cordova	Prior to or during project construction

Environmental Commitments	Responsible Party	Timing
<p>drainage.</p> <ul style="list-style-type: none"> • Planting, irrigation, and maintenance schedules. • Identification of the maintenance entity and a written agreement with that entity to provide care and irrigation of the trees for a three-year establishment period, and to replace any of the replacement oak trees which do not survive during that period. 		
<p>No replacement tree shall be planted within 15 feet of the driplines of existing oak trees or landmark-size trees that are retained on-site or within 15 feet of a building foundation or swimming pool excavation. The minimum spacing for replacement oak trees shall be 20 feet on center. Examples of acceptable planting locations are publicly owned lands, common areas, and landscaped frontages (with adequate spacing). Generally unacceptable locations are utility easements, sewers, storm drains, under overhead utility lines, private yards of single-family lots (including front yards), and roadway medians.</p>	City of Rancho Cordova	Prior to or during project construction
<p>Animal Species (Western Spadefoot)</p> <p>Prior to the start of construction activities that would disturb western spadefoot habitat, a biological monitor shall survey for the presence of adult western spadefoot. If adult western spadefoot are present, they shall be relocated prior to disturbance of habitat, if feasible. This relocation shall be done in consultation with the CDFW.</p>	City of Rancho Cordova	Prior to and during project construction
<p>During project development, the size of the work area limits will be reduced to the smallest amount feasible within sensitive habitat areas.</p>	City of Rancho Cordova	Prior to project construction
<p>Additional impacts from habitat disturbance will be avoided by installing protective silt fencing between the aquatic habitats and the construction area limits to prevent accidental disturbance during construction and to protect water quality within the aquatic habitats during construction.</p>	City of Rancho Cordova	Prior to project construction
<p>Standard BMPs will be implemented during and after construction to protect water quality in sensitive habitat areas during construction.</p>	City of Rancho Cordova	Prior to project construction
<p>A WEAP shall be implemented to educate construction workers about the presence of western spadefoot habitat in and near the project area and to instruct them on proper avoidance.</p>	City of Rancho Cordova	During and after project construction
<p>Mitigation set forth to compensate for impacts to listed vernal pool crustacean habitat (i.e., seasonal wetlands and vernal pools) will also compensate for the western spadefoot, as they share similar habitats.</p>	City of Rancho Cordova	Prior to project construction

Environmental Commitments	Responsible Party	Timing
<p>Animal Species (Western Burrowing Owl)</p> <p>If clearing and construction activities will occur during the nesting period for burrowing owls (February 1–August 31), a qualified biologist shall conduct focused surveys for burrowing owls on and adjacent to the project site. Surveys shall be conducted in accordance with the CDFW’s Staff Report on Burrowing Owl Mitigation (2012). Surveys shall be repeated if project activities are suspended or delayed for more than 15 days during nesting season.</p>	City of Rancho Cordova	Prior to project construction
<p>If no burrowing owls are detected, no further mitigation is required. If active burrowing owls are detected, the City of Rancho Cordova will implement the avoidance, minimization, and mitigation methodologies outlined in CDFW’s 2012 Staff Report prior to initiating project-related activities that may impact burrowing owls.</p>	City of Rancho Cordova	Prior to project construction
<p>During project development, the size of the work area limits will be reduced to the smallest amount feasible within sensitive habitat areas.</p>	City of Rancho Cordova	Prior to project construction
<p>A WEAP shall be implemented to educate construction workers about the presence of western burrowing owl habitat in and near the project area and to instruct them on proper avoidance.</p>	City of Rancho Cordova	Prior to project construction
<p>Animal Species (American Badger)</p> <p>A preconstruction survey of the project area and a 100-foot buffer adjacent to the project area shall be conducted for the presence of the badger dens and signs of badger occupancy. The survey shall be completed no more than seven days prior to the initiation of vegetation removal and ground-disturbing activities. If no dens are observed, a second survey shall be conducted within 24 hours of vegetation removal and ground-disturbing activities to ensure that no badgers have entered the area since the first survey. Preconstruction surveys shall be repeated as necessary if vegetation removal and ground-disturbing activities are delayed or postponed for more than 30 days.</p>	City of Rancho Cordova	Prior to project construction
<p>During project development, the size of the work area limits will be reduced to the smallest amount feasible within sensitive habitat areas.</p>	City of Rancho Cordova	Prior to project construction
<p>A WEAP shall be implemented to educate construction workers about the presence of American badger habitat in and near the project area and to instruct them on proper avoidance.</p>	City of Rancho Cordova	Prior to project construction
<p>Animal Species (Raptors and Migratory Birds)</p> <p>During project development, the size of the work area limits will be reduced to the smallest amount feasible within sensitive habitat areas.</p>	City of Rancho Cordova	Prior to project construction
<p>To prevent impacts to MBTA-protected birds and their nests, removal of trees will be limited to only those necessary to construct the proposed project.</p>	City of Rancho Cordova	During project design

Environmental Commitments	Responsible Party	Timing
<p>If construction or tree removal is proposed during the breeding/nesting season for MBTA-protected birds and raptors (typically January 15 through August 15), a focused survey for active nests within and in the vicinity of (no less than 250 feet outside project boundaries, where possible) the project site shall be conducted by a qualified biologist. Two surveys will be conducted, at least one week apart, with the second survey occurring no more than two days prior to tree removal or other construction activities. If no active nests are found, tree removal or construction activities may proceed.</p>	City of Rancho Cordova	During project design
<p>If an active nest is located during pre-construction surveys, the USFWS and/or CDFW (as appropriate) shall be notified regarding the status of the nest. Furthermore, construction activities shall be restricted as necessary to avoid disturbance of the nest until it is abandoned or the biologist deems disturbance potential to be minimal. Restrictions may include establishment of exclusion zones (no ingress of personnel or equipment at a minimum radius of 100 feet around an active raptor nest) or alteration of the construction schedule.</p>	City of Rancho Cordova	During project design
<p>No action is necessary if no active nests are found or if construction will occur during the non-breeding season (generally August 16 through January 14).</p>	City of Rancho Cordova	During project design
<p>Threatened and Endangered Species (Vernal Pool Crustaceans)</p> <p>During project development, the size of the work area limits will be reduced to the smallest amount feasible within sensitive habitat areas.</p>	City of Rancho Cordova	During project design
<p>Soil stabilization and sediment control BMPs shall be implemented to ensure contamination of sediment and other pollutants does not occur. Waste management and material pollution control BMPs shall also be implemented to minimize the potential for pollutant spill or releases from construction equipment.</p>	City of Rancho Cordova	During project design
<p>In addition, standard staging area practices for sediment-tracking reduction should also be implemented where necessary, and may include vehicle-washing and street-sweeping.</p>	City of Rancho Cordova	During project design
<p>In addition to the proposed avoidance and minimization measures, the following compensatory mitigation is proposed:</p>	City of Rancho Cordova	Prior to project construction
<p>Prior to groundbreaking, the applicants shall purchase fairy shrimp and tadpole shrimp habitat credits at a 3:1 ratio for direct impacts (0.615 x 3 = 1.845 acres), 2:1 ratio for indirect impacts (1.068 x 2 = 2.136 acres), and 1:1 ratio for direct impacts to non-habitat (0.010 acre) at a USFWS approved conservation bank(s) that has a service area that covers the proposed project. The credits purchased may be in a combination of creation and preservation credits; however, no more than 0.625 acre of creation credits may be purchased for the minimization of the total direct impacts. The credits may be purchased in no more than two phases, with each applicant</p>	City of Rancho Cordova	Prior to project construction

Environmental Commitments	Responsible Party	Timing
<p>purchasing the total required for their portion of the proposed project.</p> <p>The proposed mitigation strategy is in accordance with the USFWS's <i>Corps of Engineers Vernal Pool Programmatic Consultation</i> (1996).</p>		
<p>Threatened and Endangered Species (Valley Elderberry Longhorn Beetle)</p> <p>During project development, the size of the work area limits will be reduced to the smallest amount feasible within sensitive habitat areas.</p>	City of Rancho Cordova	During project design
<p>Impacts from accidental disturbance during construction will be avoided by installing protective fencing between the shrubs identified for preservation and the construction area limits to prevent accidental disturbance during construction. Pursuant to the USFWS (1999) VELB conservation guidelines, elderberry shrub areas that will not be disturbed within a 100-foot buffer zone from the edge of project construction will be fenced and designated as avoidance areas during project construction. Fencing will be set back a minimum of 20 feet from the dripline of each elderberry shrub not within the construction footprint.</p>	City of Rancho Cordova	During project design
<p>Water trucks shall be used to water areas of exposed dirt to control dust from the project site.</p>	City of Rancho Cordova	During project design
<p>Signs shall be erected along the edge of elderberry avoidance areas noticing construction crews that the area is VELB habitat and must not be disturbed. These signs shall remain for the duration of construction.</p>	City of Rancho Cordova	Prior to and during project construction
<p>A Worker Environmental Awareness Program (WEAP) shall be implemented to educate construction workers about the presence of VELB habitat in and near the project area and to instruct them on proper avoidance.</p>	City of Rancho Cordova	Prior to project construction
<p>A comprehensive plan for avoidance, on-site mitigation, off-site mitigation, or other compensation will be developed in cooperation with relevant state and federal agencies.</p>	City of Rancho Cordova	Prior to project construction
<p>Elderberry plants must be transplanted if they cannot be avoided by the proposed project. All elderberry plants with one or more stems measuring 1.0 inch or greater in diameter at ground level must be transplanted to a USFWS-approved conservation area. At the USFWS's discretion, a plant that is unlikely to survive transplantation because of poor condition or location, or a plant that would be extremely difficult to move because of access problems, may be exempted from transplantation. In cases where transplantation is not possible, the minimization ratios in Table 2.3-4 may be increased to offset the additional habitat loss.</p> <p>Trimming of elderberry plants (e.g., pruning along roadways, bike paths, or trails) with one or</p>	City of Rancho Cordova	Prior to project construction

Environmental Commitments	Responsible Party	Timing																																																																																
<p>more stems 1.0 inch or greater in diameter at ground level may result in take of VELB. Therefore, trimming is subject to appropriate minimization measures as outlined in the Table below. All transplanting or trimming shall occur in accordance with procedures outlined in the 1999 USFWS VELB guidelines and shall be protected and monitored according to the guidelines.</p> <p style="text-align: center;">Compensation Ratios for Elderberry Shrubs Affected by the Project</p> <table border="1" data-bbox="191 487 1325 847"> <thead> <tr> <th>Riparian</th> <th>Elderberry Stem Size</th> <th>Exit Holes</th> <th>Number of Stems</th> <th>Seedling Ratio</th> <th>Number of Replacement Elderberries</th> <th>Associate d Native Ratio</th> <th>Number of Associated Seedlings</th> </tr> </thead> <tbody> <tr> <td>No</td> <td>>1" and <3"</td> <td>No</td> <td>198</td> <td>1:1</td> <td>198</td> <td>1:1</td> <td>198</td> </tr> <tr> <td>No</td> <td>>3" and <5"</td> <td>No</td> <td>184</td> <td>2:1</td> <td>368</td> <td>1:1</td> <td>368</td> </tr> <tr> <td>No</td> <td>>5"</td> <td>No</td> <td>67</td> <td>3:1</td> <td>201</td> <td>1:1</td> <td>201</td> </tr> <tr> <td>No</td> <td>>1" and <3"</td> <td>Yes</td> <td>0</td> <td>2:1</td> <td>0</td> <td>2:1</td> <td>0</td> </tr> <tr> <td>No</td> <td>>3" and <5"</td> <td>Yes</td> <td>1</td> <td>4:1</td> <td>4</td> <td>2:1</td> <td>8</td> </tr> <tr> <td>No</td> <td>>5"</td> <td>Yes</td> <td>1</td> <td>6:1</td> <td>6</td> <td>2:1</td> <td>12</td> </tr> <tr> <td colspan="3">Total Stems Affected</td> <td>451</td> <td colspan="4"></td> </tr> <tr> <td colspan="5">Total Replacement Plantings</td> <td>777</td> <td colspan="2">787</td> </tr> <tr> <td colspan="6">Conservation Credits Proposed for Planting (total replacement plantings/10)</td> <td colspan="2">157</td> </tr> </tbody> </table>	Riparian	Elderberry Stem Size	Exit Holes	Number of Stems	Seedling Ratio	Number of Replacement Elderberries	Associate d Native Ratio	Number of Associated Seedlings	No	>1" and <3"	No	198	1:1	198	1:1	198	No	>3" and <5"	No	184	2:1	368	1:1	368	No	>5"	No	67	3:1	201	1:1	201	No	>1" and <3"	Yes	0	2:1	0	2:1	0	No	>3" and <5"	Yes	1	4:1	4	2:1	8	No	>5"	Yes	1	6:1	6	2:1	12	Total Stems Affected			451					Total Replacement Plantings					777	787		Conservation Credits Proposed for Planting (total replacement plantings/10)						157			
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<p>Each elderberry stem measuring 1.0 inch or greater in diameter at ground level that is adversely affected (i.e., transplanted or destroyed) must be replaced, in a USFWS-approved conservation area, with elderberry seedlings or cuttings at a ratio ranging from 1:1 to 8:1 (new plantings to affected stems). Compensation ratios are listed and explained in Table 2.3-4. Stock of either seedlings or cuttings should be obtained from local sources. Cuttings may be obtained from the plants to be transplanted if the project site is in the vicinity of the conservation area. If the USFWS determines that the elderberry plants on the proposed project site are unsuitable candidates for transplanting, the USFWS may allow the applicant to plant seedlings or cuttings at higher than the stated ratios in Table 2.3-5 for each elderberry plant that cannot be transplanted.</p>	City of Rancho Cordova	Prior to project construction																																																																																
<p>A mix of native plants associated with the elderberry plants at the project site or similar sites will be planted at ratios ranging from 1:1 to 2:1 (native tree/plant species to each elderberry seedling or cutting [see Table 2.3-4]). These native plantings must be monitored with the same survival criteria used for the elderberry.</p>	City of Rancho Cordova	After project construction completion																																																																																
<p>Threatened and Endangered Species (Swainson's Hawk)</p> <p>During project development, the size of the work area limits will be reduced to the smallest amount feasible within sensitive habitat areas.</p>	City of Rancho Cordova	During project design																																																																																
<p>To avoid impacts to nesting habitat, the removal of potential nest trees will be limited to only</p>	City of Rancho	Prior to and during																																																																																

Environmental Commitments	Responsible Party	Timing
those necessary to construct the proposed project.	Cordova	project construction
For trees that must be removed to construct the proposed project, the City of Rancho Cordova will target the removal of trees to occur outside the nesting season between September 1 and March 1. If trees cannot be removed outside the nesting season, preconstruction surveys will be conducted prior to tree removal to verify the absence of active raptor nests within 500 feet of construction activities. Two surveys will be conducted, at least one week apart, with the second survey occurring no more than two days prior to tree removal.	City of Rancho Cordova	During Construction
If no active nests are found, tree removal may proceed. If active nests are found, the CDFW shall be notified, and the tree shall not be removed until the nest is no longer active, as determined by a CDFW-approved biologist. No construction activities shall take place within a 500-foot radius of the active nest (or another distance determined appropriate during consultation with the CDFW).	City of Rancho Cordova	Prior to and during project construction
Measures to minimize impacts to Swainson's hawk foraging habitat include restoration of foraging habitat temporarily disturbed by project construction activities. After construction is completed, all temporarily disturbed areas will be stabilized with hydroseed and replanted with a mixture of native and non-native plants (as deemed appropriate by a CDFW-approved biologist).	City of Rancho Cordova	During and after project construction
To compensate for the permanent loss of 2.47 acres of potential foraging habitat, it is anticipated that the City of Rancho Cordova will purchase mitigation credits from a CDFW-approved Swainson's Hawk Mitigation Fund at a 1:1 ratio, or at another appropriate ratio as determined by the CDFW based on the project's distance from known hawk nests.	City of Rancho Cordova	Prior to project construction
<p>Invasive Plants</p> <p>In compliance with the Executive Order on Invasive Species, EO 13112, and subsequent guidance from the FHWA, the landscaping and erosion control included in the project will not use species listed as invasive. The order further directs federal agencies to prevent the introduction of invasive species, control and monitor existing invasive species populations, restore native species to invaded ecosystems, research and develop prevention and control methods for invasive species, and promote public education on invasive species. In areas of particular sensitivity, extra precautions will be taken if invasive species are found in or adjacent to the construction areas. These include the inspection and cleaning of construction equipment and eradication strategies to be implemented should an invasion occur.</p>	City of Rancho Cordova	Prior to completion of project construction

Appendix G Biological Opinion and Species List

- Species List December 13, 2015
- Biological Opinion January 26, 2015

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CNDDDB 9-Quad Species List 214 records.

Element Type	Scientific Name	Common Name	Element Code	Federal Status	State Status	CDFW Status	CA Rare Plant Rank	Quad Code	Quad Name	Data Status	Taxonomic Sort
Animals - Amphibians	<i>Ambystoma californiense</i>	California tiger salamander	AAAAA01180	Threatened	Threatened	SSC	-	3812141	Carbondale	Mapped and Unprocessed	Animals - Amphibians - Ambystomatidae - <i>Ambystoma californiense</i>
Animals - Amphibians	<i>Ambystoma californiense</i>	California tiger salamander	AAAAA01180	Threatened	Threatened	SSC	-	3812142	Sloughhouse	Unprocessed	Animals - Amphibians - Ambystomatidae - <i>Ambystoma californiense</i>
Animals - Amphibians	<i>Rana draytonii</i>	California red-legged frog	AAABH01022	Threatened	None	SSC	-	3812161	Clarksville	Mapped	Animals - Amphibians - Ranidae - <i>Rana draytonii</i>
Animals - Amphibians	<i>Spea hammondii</i>	western spadefoot	AAABF02020	None	None	SSC	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Amphibians - Scaphiopodidae - <i>Spea hammondii</i>
Animals - Amphibians	<i>Spea hammondii</i>	western spadefoot	AAABF02020	None	None	SSC	-	3812152	Buffalo Creek	Mapped	Animals - Amphibians - Scaphiopodidae - <i>Spea hammondii</i>
Animals - Amphibians	<i>Spea hammondii</i>	western spadefoot	AAABF02020	None	None	SSC	-	3812142	Sloughhouse	Mapped	Animals - Amphibians - Scaphiopodidae - <i>Spea hammondii</i>
Animals - Amphibians	<i>Spea hammondii</i>	western spadefoot	AAABF02020	None	None	SSC	-	3812141	Carbondale	Mapped and Unprocessed	Animals - Amphibians - Scaphiopodidae - <i>Spea hammondii</i>
Animals - Amphibians	<i>Spea hammondii</i>	western spadefoot	AAABF02020	None	None	SSC	-	3812162	Folsom	Mapped	Animals - Amphibians - Scaphiopodidae - <i>Spea hammondii</i>
Animals - Birds	<i>Accipiter cooperii</i>	Cooper's hawk	ABNKC12040	None	None	WL	-	3812162	Folsom	Mapped and Unprocessed	Animals - Birds - Accipitridae - <i>Accipiter cooperii</i>
Animals - Birds	<i>Accipiter cooperii</i>	Cooper's hawk	ABNKC12040	None	None	WL	-	3812163	Citrus Heights	Unprocessed	Animals - Birds - Accipitridae - <i>Accipiter cooperii</i>
Animals - Birds	<i>Accipiter cooperii</i>	Cooper's hawk	ABNKC12040	None	None	WL	-	3812143	Elk Grove	Mapped	Animals - Birds - Accipitridae - <i>Accipiter cooperii</i>
Animals - Birds	<i>Accipiter cooperii</i>	Cooper's hawk	ABNKC12040	None	None	WL	-	3812152	Buffalo Creek	Mapped and Unprocessed	Animals - Birds - Accipitridae - <i>Accipiter cooperii</i>
Animals - Birds	<i>Accipiter cooperii</i>	Cooper's hawk	ABNKC12040	None	None	WL	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Birds - Accipitridae - <i>Accipiter cooperii</i>
Animals - Birds	<i>Aquila chrysaetos</i>	golden eagle	ABNKC22010	None	None	FP , WL	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Birds - Accipitridae - <i>Aquila chrysaetos</i>
Animals - Birds	<i>Aquila chrysaetos</i>	golden eagle	ABNKC22010	None	None	FP , WL	-	3812152	Buffalo Creek	Unprocessed	Animals - Birds - Accipitridae - <i>Aquila chrysaetos</i>
Animals - Birds	<i>Aquila chrysaetos</i>	golden eagle	ABNKC22010	None	None	FP , WL	-	3812161	Clarksville	Mapped and Unprocessed	Animals - Birds - Accipitridae - <i>Aquila chrysaetos</i>
Animals - Birds	<i>Buteo regalis</i>	ferruginous hawk	ABNKC19120	None	None	WL	-	3812152	Buffalo Creek	Unprocessed	Animals - Birds - Accipitridae - <i>Buteo regalis</i>
Animals - Birds	<i>Buteo regalis</i>	ferruginous hawk	ABNKC19120	None	None	WL	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Birds - Accipitridae - <i>Buteo regalis</i>
Animals - Birds	<i>Buteo regalis</i>	ferruginous hawk	ABNKC19120	None	None	WL	-	3812151	Folsom SE	Unprocessed	Animals - Birds - Accipitridae - <i>Buteo regalis</i>
Animals - Birds	<i>Buteo swainsoni</i>	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3812151	Folsom SE	Mapped	Animals - Birds - Accipitridae - <i>Buteo swainsoni</i>

Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3812143	Elk Grove	Mapped and Unprocessed	Animals - Birds - Accipitridae - Buteo swainsoni
Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3812142	Sloughhouse	Mapped	Animals - Birds - Accipitridae - Buteo swainsoni
Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3812141	Carbondale	Mapped	Animals - Birds - Accipitridae - Buteo swainsoni
Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Birds - Accipitridae - Buteo swainsoni
Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3812152	Buffalo Creek	Mapped and Unprocessed	Animals - Birds - Accipitridae - Buteo swainsoni
Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3812162	Folsom	Mapped	Animals - Birds - Accipitridae - Buteo swainsoni
Animals - Birds	Circus cyaneus	northern harrier	ABNKC11010	None	None	SSC	-	3812152	Buffalo Creek	Unprocessed	Animals - Birds - Accipitridae - Circus cyaneus
Animals - Birds	Circus cyaneus	northern harrier	ABNKC11010	None	None	SSC	-	3812153	Carmichael	Unprocessed	Animals - Birds - Accipitridae - Circus cyaneus
Animals - Birds	Circus cyaneus	northern harrier	ABNKC11010	None	None	SSC	-	3812142	Sloughhouse	Unprocessed	Animals - Birds - Accipitridae - Circus cyaneus
Animals - Birds	Elanus leucurus	white-tailed kite	ABNKC06010	None	None	FP	-	3812142	Sloughhouse	Mapped	Animals - Birds - Accipitridae - Elanus leucurus
Animals - Birds	Elanus leucurus	white-tailed kite	ABNKC06010	None	None	FP	-	3812143	Elk Grove	Mapped	Animals - Birds - Accipitridae - Elanus leucurus
Animals - Birds	Elanus leucurus	white-tailed kite	ABNKC06010	None	None	FP	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Birds - Accipitridae - Elanus leucurus
Animals - Birds	Elanus leucurus	white-tailed kite	ABNKC06010	None	None	FP	-	3812152	Buffalo Creek	Mapped and Unprocessed	Animals - Birds - Accipitridae - Elanus leucurus
Animals - Birds	Elanus leucurus	white-tailed kite	ABNKC06010	None	None	FP	-	3812162	Folsom	Mapped	Animals - Birds - Accipitridae - Elanus leucurus
Animals - Birds	Elanus leucurus	white-tailed kite	ABNKC06010	None	None	FP	-	3812161	Clarksville	Mapped and Unprocessed	Animals - Birds - Accipitridae - Elanus leucurus
Animals - Birds	Elanus leucurus	white-tailed kite	ABNKC06010	None	None	FP	-	3812163	Citrus Heights	Mapped	Animals - Birds - Accipitridae - Elanus leucurus
Animals - Birds	Haliaeetus leucocephalus	bald eagle	ABNKC10010	Delisted	Endangered	FP	-	3812161	Clarksville	Mapped and Unprocessed	Animals - Birds - Accipitridae - Haliaeetus leucocephalus
Animals - Birds	Haliaeetus leucocephalus	bald eagle	ABNKC10010	Delisted	Endangered	FP	-	3812162	Folsom	Unprocessed	Animals - Birds - Accipitridae - Haliaeetus leucocephalus
Animals - Birds	Haliaeetus leucocephalus	bald eagle	ABNKC10010	Delisted	Endangered	FP	-	3812151	Folsom SE	Unprocessed	Animals - Birds - Accipitridae - Haliaeetus leucocephalus
Animals - Birds	Pandion haliaetus	osprey	ABNKC01010	None	None	WL	-	3812153	Carmichael	Unprocessed	Animals - Birds - Accipitridae - Pandion haliaetus
Animals - Birds	Pandion haliaetus	osprey	ABNKC01010	None	None	WL	-	3812163	Citrus Heights	Unprocessed	Animals - Birds - Accipitridae - Pandion haliaetus
Animals - Birds	Eremophila alpestris actia	California horned lark	ABPAT02011	None	None	WL	-	3812161	Clarksville	Unprocessed	Animals - Birds - Alaudidae - Eremophila alpestris actia
Animals - Birds	Chaetura vauxi	Vaux's swift	ABNUA03020	None	None	SSC	-	3812163	Citrus Heights	Unprocessed	Animals - Birds - Apodidae - Chaetura vauxi

Animals - Birds	Chaetura vauxi	Vaux's swift	ABNUA03020	None	None	SSC	-	3812153	Carmichael	Unprocessed	Animals - Birds - Apodidae - Chaetura vauxi
Animals - Birds	Ardea alba	great egret	ABNGA04040	None	None	-	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Birds - Ardeidae - Ardea alba
Animals - Birds	Ardea alba	great egret	ABNGA04040	None	None	-	-	3812161	Clarksville	Mapped	Animals - Birds - Ardeidae - Ardea alba
Animals - Birds	Ardea alba	great egret	ABNGA04040	None	None	-	-	3812141	Carbondale	Mapped	Animals - Birds - Ardeidae - Ardea alba
Animals - Birds	Ardea alba	great egret	ABNGA04040	None	None	-	-	3812162	Folsom	Mapped and Unprocessed	Animals - Birds - Ardeidae - Ardea alba
Animals - Birds	Ardea herodias	great blue heron	ABNGA04010	None	None	-	-	3812162	Folsom	Mapped and Unprocessed	Animals - Birds - Ardeidae - Ardea herodias
Animals - Birds	Ardea herodias	great blue heron	ABNGA04010	None	None	-	-	3812163	Citrus Heights	Mapped and Unprocessed	Animals - Birds - Ardeidae - Ardea herodias
Animals - Birds	Ardea herodias	great blue heron	ABNGA04010	None	None	-	-	3812141	Carbondale	Mapped	Animals - Birds - Ardeidae - Ardea herodias
Animals - Birds	Ardea herodias	great blue heron	ABNGA04010	None	None	-	-	3812161	Clarksville	Mapped and Unprocessed	Animals - Birds - Ardeidae - Ardea herodias
Animals - Birds	Ardea herodias	great blue heron	ABNGA04010	None	None	-	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Birds - Ardeidae - Ardea herodias
Animals - Birds	Ammodramus savannarum	grasshopper sparrow	ABPBXA0020	None	None	SSC	-	3812151	Folsom SE	Mapped	Animals - Birds - Emberizidae - Ammodramus savannarum
Animals - Birds	Ammodramus savannarum	grasshopper sparrow	ABPBXA0020	None	None	SSC	-	3812141	Carbondale	Mapped	Animals - Birds - Emberizidae - Ammodramus savannarum
Animals - Birds	Falco columbarius	merlin	ABNKD06030	None	None	WL	-	3812151	Folsom SE	Unprocessed	Animals - Birds - Falconidae - Falco columbarius
Animals - Birds	Falco columbarius	merlin	ABNKD06030	None	None	WL	-	3812152	Buffalo Creek	Unprocessed	Animals - Birds - Falconidae - Falco columbarius
Animals - Birds	Falco columbarius	merlin	ABNKD06030	None	None	WL	-	3812162	Folsom	Mapped and Unprocessed	Animals - Birds - Falconidae - Falco columbarius
Animals - Birds	Falco mexicanus	prairie falcon	ABNKD06090	None	None	WL	-	3812151	Folsom SE	Unprocessed	Animals - Birds - Falconidae - Falco mexicanus
Animals - Birds	Spinus lawrencei	Lawrence's goldfinch	ABPBY06100	None	None	-	-	3812152	Buffalo Creek	Unprocessed	Animals - Birds - Fringillidae - Spinus lawrencei
Animals - Birds	Spinus lawrencei	Lawrence's goldfinch	ABPBY06100	None	None	-	-	3812162	Folsom	Unprocessed	Animals - Birds - Fringillidae - Spinus lawrencei
Animals - Birds	Riparia riparia	bank swallow	ABPAU08010	None	Threatened	-	-	3812163	Citrus Heights	Mapped	Animals - Birds - Hirundinidae - Riparia riparia
Animals - Birds	Riparia riparia	bank swallow	ABPAU08010	None	Threatened	-	-	3812153	Carmichael	Mapped	Animals - Birds - Hirundinidae - Riparia riparia
Animals - Birds	Riparia riparia	bank swallow	ABPAU08010	None	Threatened	-	-	3812141	Carbondale	Mapped	Animals - Birds - Hirundinidae - Riparia riparia
Animals - Birds	Riparia riparia	bank swallow	ABPAU08010	None	Threatened	-	-	3812142	Sloughhouse	Mapped and Unprocessed	Animals - Birds - Hirundinidae - Riparia riparia
Animals - Birds	Agelaius tricolor	tricolored blackbird	ABPBXB0020	None	Endangered	SSC	-	3812142	Sloughhouse	Mapped and Unprocessed	Animals - Birds - Icteridae - Agelaius tricolor
Animals - Birds	Agelaius tricolor	tricolored blackbird	ABPBXB0020	None	Endangered	SSC	-	3812141	Carbondale	Mapped and Unprocessed	Animals - Birds - Icteridae - Agelaius tricolor

Animals - Birds	Agelaius tricolor	tricolored blackbird	ABPBXB0020	None	Endangered	SSC	-	3812143	Elk Grove	Mapped	Animals - Birds - Icteridae - Agelaius tricolor
Animals - Birds	Agelaius tricolor	tricolored blackbird	ABPBXB0020	None	Endangered	SSC	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Birds - Icteridae - Agelaius tricolor
Animals - Birds	Agelaius tricolor	tricolored blackbird	ABPBXB0020	None	Endangered	SSC	-	3812152	Buffalo Creek	Mapped and Unprocessed	Animals - Birds - Icteridae - Agelaius tricolor
Animals - Birds	Agelaius tricolor	tricolored blackbird	ABPBXB0020	None	Endangered	SSC	-	3812151	Folsom SE	Mapped	Animals - Birds - Icteridae - Agelaius tricolor
Animals - Birds	Agelaius tricolor	tricolored blackbird	ABPBXB0020	None	Endangered	SSC	-	3812162	Folsom	Mapped	Animals - Birds - Icteridae - Agelaius tricolor
Animals - Birds	Agelaius tricolor	tricolored blackbird	ABPBXB0020	None	Endangered	SSC	-	3812161	Clarksville	Mapped and Unprocessed	Animals - Birds - Icteridae - Agelaius tricolor
Animals - Birds	Lanius ludovicianus	loggerhead shrike	ABPBR01030	None	None	SSC	-	3812152	Buffalo Creek	Unprocessed	Animals - Birds - Laniidae - Lanius ludovicianus
Animals - Birds	Lanius ludovicianus	loggerhead shrike	ABPBR01030	None	None	SSC	-	3812153	Carmichael	Unprocessed	Animals - Birds - Laniidae - Lanius ludovicianus
Animals - Birds	Icteria virens	yellow-breasted chat	ABPBX24010	None	None	SSC	-	3812162	Folsom	Unprocessed	Animals - Birds - Parulidae - Icteria virens
Animals - Birds	Setophaga petechia	yellow warbler	ABPBX03010	None	None	SSC	-	3812162	Folsom	Unprocessed	Animals - Birds - Parulidae - Setophaga petechia
Animals - Birds	Phalacrocorax auritus	double-crested cormorant	ABNFD01020	None	None	WL	-	3812162	Folsom	Mapped and Unprocessed	Animals - Birds - Phalacrocoracidae - Phalacrocorax auritus
Animals - Birds	Melanerpes lewis	Lewis' woodpecker	ABNYF04010	None	None	-	-	3812151	Folsom SE	Unprocessed	Animals - Birds - Picidae - Melanerpes lewis
Animals - Birds	Picooides nuttallii	Nuttall's woodpecker	ABNYF07020	None	None	-	-	3812153	Carmichael	Unprocessed	Animals - Birds - Picidae - Picooides nuttallii
Animals - Birds	Picooides nuttallii	Nuttall's woodpecker	ABNYF07020	None	None	-	-	3812152	Buffalo Creek	Unprocessed	Animals - Birds - Picidae - Picooides nuttallii
Animals - Birds	Athene cucularia	burrowing owl	ABNSB10010	None	None	SSC	-	3812152	Buffalo Creek	Mapped and Unprocessed	Animals - Birds - Strigidae - Athene cucularia
Animals - Birds	Athene cucularia	burrowing owl	ABNSB10010	None	None	SSC	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Birds - Strigidae - Athene cucularia
Animals - Birds	Athene cucularia	burrowing owl	ABNSB10010	None	None	SSC	-	3812151	Folsom SE	Mapped	Animals - Birds - Strigidae - Athene cucularia
Animals - Birds	Athene cucularia	burrowing owl	ABNSB10010	None	None	SSC	-	3812142	Sloughhouse	Unprocessed	Animals - Birds - Strigidae - Athene cucularia
Animals - Birds	Athene cucularia	burrowing owl	ABNSB10010	None	None	SSC	-	3812143	Elk Grove	Mapped and Unprocessed	Animals - Birds - Strigidae - Athene cucularia
Animals - Birds	Athene cucularia	burrowing owl	ABNSB10010	None	None	SSC	-	3812141	Carbondale	Mapped	Animals - Birds - Strigidae - Athene cucularia
Animals - Birds	Athene cucularia	burrowing owl	ABNSB10010	None	None	SSC	-	3812161	Clarksville	Mapped and Unprocessed	Animals - Birds - Strigidae - Athene cucularia
Animals - Crustaceans	Branchinecta lynchi	vernal pool fairy shrimp	ICBRA03030	Threatened	None	-	-	3812161	Clarksville	Mapped	Animals - Crustaceans - Branchinectidae - Branchinecta lynchi
Animals - Crustaceans	Branchinecta lynchi	vernal pool fairy shrimp	ICBRA03030	Threatened	None	-	-	3812162	Folsom	Mapped	Animals - Crustaceans - Branchinectidae - Branchinecta lynchi

Animals - Crustaceans	Branchinecta lynchi	vernal pool fairy shrimp	ICBRA03030	Threatened	None	-	-	3812141	Carbondale	Mapped and Unprocessed	Animals - Crustaceans - Branchinectidae - Branchinecta lynchi
Animals - Crustaceans	Branchinecta lynchi	vernal pool fairy shrimp	ICBRA03030	Threatened	None	-	-	3812142	Sloughhouse	Mapped and Unprocessed	Animals - Crustaceans - Branchinectidae - Branchinecta lynchi
Animals - Crustaceans	Branchinecta lynchi	vernal pool fairy shrimp	ICBRA03030	Threatened	None	-	-	3812143	Elk Grove	Mapped and Unprocessed	Animals - Crustaceans - Branchinectidae - Branchinecta lynchi
Animals - Crustaceans	Branchinecta lynchi	vernal pool fairy shrimp	ICBRA03030	Threatened	None	-	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Crustaceans - Branchinectidae - Branchinecta lynchi
Animals - Crustaceans	Branchinecta lynchi	vernal pool fairy shrimp	ICBRA03030	Threatened	None	-	-	3812151	Folsom SE	Mapped	Animals - Crustaceans - Branchinectidae - Branchinecta lynchi
Animals - Crustaceans	Branchinecta lynchi	vernal pool fairy shrimp	ICBRA03030	Threatened	None	-	-	3812152	Buffalo Creek	Mapped and Unprocessed	Animals - Crustaceans - Branchinectidae - Branchinecta lynchi
Animals - Crustaceans	Branchinecta mesovallensis	midvalley fairy shrimp	ICBRA03150	None	None	-	-	3812152	Buffalo Creek	Mapped and Unprocessed	Animals - Crustaceans - Branchinectidae - Branchinecta mesovallensis
Animals - Crustaceans	Branchinecta mesovallensis	midvalley fairy shrimp	ICBRA03150	None	None	-	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Crustaceans - Branchinectidae - Branchinecta mesovallensis
Animals - Crustaceans	Branchinecta mesovallensis	midvalley fairy shrimp	ICBRA03150	None	None	-	-	3812143	Elk Grove	Mapped and Unprocessed	Animals - Crustaceans - Branchinectidae - Branchinecta mesovallensis
Animals - Crustaceans	Branchinecta mesovallensis	midvalley fairy shrimp	ICBRA03150	None	None	-	-	3812142	Sloughhouse	Mapped	Animals - Crustaceans - Branchinectidae - Branchinecta mesovallensis
Animals - Crustaceans	Branchinecta mesovallensis	midvalley fairy shrimp	ICBRA03150	None	None	-	-	3812141	Carbondale	Mapped	Animals - Crustaceans - Branchinectidae - Branchinecta mesovallensis
Animals - Crustaceans	Dumontia oregonensis	hairy water flea	ICBRA23010	None	None	-	-	3812153	Carmichael	Mapped	Animals - Crustaceans - Dumontiidae - Dumontia oregonensis
Animals - Crustaceans	Dumontia oregonensis	hairy water flea	ICBRA23010	None	None	-	-	3812152	Buffalo Creek	Mapped	Animals - Crustaceans - Dumontiidae - Dumontia oregonensis
Animals - Crustaceans	Linderiella occidentalis	California linderiella	ICBRA06010	None	None	-	-	3812152	Buffalo Creek	Mapped and Unprocessed	Animals - Crustaceans - Linderiellidae - Linderiella occidentalis
Animals - Crustaceans	Linderiella occidentalis	California linderiella	ICBRA06010	None	None	-	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Crustaceans - Linderiellidae - Linderiella occidentalis
Animals - Crustaceans	Linderiella occidentalis	California linderiella	ICBRA06010	None	None	-	-	3812141	Carbondale	Mapped and Unprocessed	Animals - Crustaceans - Linderiellidae - Linderiella occidentalis

Animals - Crustaceans	Linderiella occidentalis	California linderiella	ICBRA06010	None	None	-	-	3812142	Sloughhouse	Mapped and Unprocessed	Animals - Crustaceans - Linderiellidae - Linderiella occidentalis
Animals - Crustaceans	Linderiella occidentalis	California linderiella	ICBRA06010	None	None	-	-	3812143	Elk Grove	Mapped and Unprocessed	Animals - Crustaceans - Linderiellidae - Linderiella occidentalis
Animals - Crustaceans	Linderiella occidentalis	California linderiella	ICBRA06010	None	None	-	-	3812162	Folsom	Mapped and Unprocessed	Animals - Crustaceans - Linderiellidae - Linderiella occidentalis
Animals - Crustaceans	Linderiella occidentalis	California linderiella	ICBRA06010	None	None	-	-	3812163	Citrus Heights	Mapped and Unprocessed	Animals - Crustaceans - Linderiellidae - Linderiella occidentalis
Animals - Crustaceans	Lepidurus packardi	vernal pool tadpole shrimp	ICBRA10010	Endangered	None	-	-	3812162	Folsom	Mapped	Animals - Crustaceans - Triopsidae - Lepidurus packardi
Animals - Crustaceans	Lepidurus packardi	vernal pool tadpole shrimp	ICBRA10010	Endangered	None	-	-	3812143	Elk Grove	Mapped and Unprocessed	Animals - Crustaceans - Triopsidae - Lepidurus packardi
Animals - Crustaceans	Lepidurus packardi	vernal pool tadpole shrimp	ICBRA10010	Endangered	None	-	-	3812142	Sloughhouse	Mapped	Animals - Crustaceans - Triopsidae - Lepidurus packardi
Animals - Crustaceans	Lepidurus packardi	vernal pool tadpole shrimp	ICBRA10010	Endangered	None	-	-	3812141	Carbondale	Mapped	Animals - Crustaceans - Triopsidae - Lepidurus packardi
Animals - Crustaceans	Lepidurus packardi	vernal pool tadpole shrimp	ICBRA10010	Endangered	None	-	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Crustaceans - Triopsidae - Lepidurus packardi
Animals - Crustaceans	Lepidurus packardi	vernal pool tadpole shrimp	ICBRA10010	Endangered	None	-	-	3812152	Buffalo Creek	Mapped and Unprocessed	Animals - Crustaceans - Triopsidae - Lepidurus packardi
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	-	-	3812151	Folsom SE	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	-	-	3812153	Carmichael	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	-	-	3812141	Carbondale	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	-	-	3812142	Sloughhouse	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	-	-	3812143	Elk Grove	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	-	-	3812163	Citrus Heights	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	-	-	3812162	Folsom	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus

Animals - Insects	Andrena blennospermatis	Blennosperma vernal pool andrenid bee	IIHYM35030	None	None	-	-	3812161	Clarksville	Mapped	Animals - Insects - Andrenidae - Andrena blennospermatis
Animals - Insects	Andrena blennospermatis	Blennosperma vernal pool andrenid bee	IIHYM35030	None	None	-	-	3812142	Sloughhouse	Mapped	Animals - Insects - Andrenidae - Andrena blennospermatis
Animals - Insects	Andrena blennospermatis	Blennosperma vernal pool andrenid bee	IIHYM35030	None	None	-	-	3812141	Carbondale	Mapped	Animals - Insects - Andrenidae - Andrena blennospermatis
Animals - Insects	Andrena subapasta	an andrenid bee	IIHYM35210	None	None	-	-	3812163	Citrus Heights	Mapped	Animals - Insects - Andrenidae - Andrena subapasta
Animals - Insects	Desmocerus californicus dimorphus	valley elderberry longhorn beetle	IICOL48011	Threatened	None	-	-	3812163	Citrus Heights	Mapped and Unprocessed	Animals - Insects - Cerambycidae - Desmocerus californicus dimorphus
Animals - Insects	Desmocerus californicus dimorphus	valley elderberry longhorn beetle	IICOL48011	Threatened	None	-	-	3812162	Folsom	Mapped and Unprocessed	Animals - Insects - Cerambycidae - Desmocerus californicus dimorphus
Animals - Insects	Desmocerus californicus dimorphus	valley elderberry longhorn beetle	IICOL48011	Threatened	None	-	-	3812161	Clarksville	Mapped	Animals - Insects - Cerambycidae - Desmocerus californicus dimorphus
Animals - Insects	Desmocerus californicus dimorphus	valley elderberry longhorn beetle	IICOL48011	Threatened	None	-	-	3812142	Sloughhouse	Mapped	Animals - Insects - Cerambycidae - Desmocerus californicus dimorphus
Animals - Insects	Desmocerus californicus dimorphus	valley elderberry longhorn beetle	IICOL48011	Threatened	None	-	-	3812143	Elk Grove	Mapped	Animals - Insects - Cerambycidae - Desmocerus californicus dimorphus
Animals - Insects	Desmocerus californicus dimorphus	valley elderberry longhorn beetle	IICOL48011	Threatened	None	-	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Insects - Cerambycidae - Desmocerus californicus dimorphus
Animals - Insects	Desmocerus californicus dimorphus	valley elderberry longhorn beetle	IICOL48011	Threatened	None	-	-	3812152	Buffalo Creek	Mapped	Animals - Insects - Cerambycidae - Desmocerus californicus dimorphus
Animals - Insects	Hydrochara rickseckeri	Ricksecker's water scavenger beetle	IICOL5V010	None	None	-	-	3812152	Buffalo Creek	Mapped	Animals - Insects - Hydrophilidae - Hydrochara rickseckeri
Animals - Insects	Hydrochara rickseckeri	Ricksecker's water scavenger beetle	IICOL5V010	None	None	-	-	3812153	Carmichael	Mapped	Animals - Insects - Hydrophilidae - Hydrochara rickseckeri
Animals - Insects	Hydrochara rickseckeri	Ricksecker's water scavenger beetle	IICOL5V010	None	None	-	-	3812161	Clarksville	Mapped	Animals - Insects - Hydrophilidae - Hydrochara rickseckeri
Animals - Mammals	Taxidea taxus	American badger	AMAJF04010	None	None	SSC	-	3812162	Folsom	Unprocessed	Animals - Mammals - Mustelidae - Taxidea taxus
Animals - Mammals	Taxidea taxus	American badger	AMAJF04010	None	None	SSC	-	3812153	Carmichael	Mapped	Animals - Mammals - Mustelidae - Taxidea taxus
Animals - Mammals	Taxidea taxus	American badger	AMAJF04010	None	None	SSC	-	3812152	Buffalo Creek	Mapped and Unprocessed	Animals - Mammals - Mustelidae - Taxidea taxus
Animals - Mammals	Antrozous pallidus	pallid bat	AMACC10010	None	None	SSC	-	3812162	Folsom	Mapped	Animals - Mammals - Vespertilionidae - Antrozous pallidus

Animals - Mammals	Lasionycteris noctivagans	silver-haired bat	AMACC02010	None	None	-	-	3812162	Folsom	Mapped	Animals - Mammals - Vespertilionidae - Lasionycteris noctivagans
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3812161	Clarksville	Mapped and Unprocessed	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3812162	Folsom	Mapped and Unprocessed	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3812152	Buffalo Creek	Mapped and Unprocessed	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3812151	Folsom SE	Mapped and Unprocessed	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3812153	Carmichael	Mapped	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3812143	Elk Grove	Mapped	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3812142	Sloughhouse	Mapped	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Thamnophis gigas	giant garter snake	ARADB36150	Threatened	Threatened	-	-	3812141	Carbondale	Mapped	Animals - Reptiles - Natricidae - Thamnophis gigas
Animals - Reptiles	Thamnophis gigas	giant garter snake	ARADB36150	Threatened	Threatened	-	-	3812143	Elk Grove	Mapped	Animals - Reptiles - Natricidae - Thamnophis gigas
Animals - Reptiles	Thamnophis gigas	giant garter snake	ARADB36150	Threatened	Threatened	-	-	3812151	Folsom SE	Mapped	Animals - Reptiles - Natricidae - Thamnophis gigas
Community - Terrestrial	Great Valley Valley Oak Riparian Forest	Great Valley Valley Oak Riparian Forest	CTT61430CA	None	None	-	-	3812143	Elk Grove	Mapped	Community - Terrestrial - Great Valley Valley Oak Riparian Forest
Community - Terrestrial	lone Chaparral	lone Chaparral	CTT37D00CA	None	None	-	-	3812141	Carbondale	Mapped	Community - Terrestrial - lone Chaparral
Community - Terrestrial	Northern Hardpan Vernal Pool	Northern Hardpan Vernal Pool	CTT44110CA	None	None	-	-	3812141	Carbondale	Mapped	Community - Terrestrial - Northern Hardpan Vernal Pool
Community - Terrestrial	Northern Hardpan Vernal Pool	Northern Hardpan Vernal Pool	CTT44110CA	None	None	-	-	3812142	Sloughhouse	Mapped	Community - Terrestrial - Northern Hardpan Vernal Pool
Community - Terrestrial	Northern Hardpan Vernal Pool	Northern Hardpan Vernal Pool	CTT44110CA	None	None	-	-	3812143	Elk Grove	Mapped	Community - Terrestrial - Northern Hardpan Vernal Pool
Community - Terrestrial	Northern Hardpan Vernal Pool	Northern Hardpan Vernal Pool	CTT44110CA	None	None	-	-	3812152	Buffalo Creek	Mapped	Community - Terrestrial - Northern Hardpan Vernal Pool
Community - Terrestrial	Northern Hardpan Vernal Pool	Northern Hardpan Vernal Pool	CTT44110CA	None	None	-	-	3812153	Carmichael	Mapped	Community - Terrestrial - Northern Hardpan Vernal Pool
Community - Terrestrial	Northern Hardpan Vernal Pool	Northern Hardpan Vernal Pool	CTT44110CA	None	None	-	-	3812162	Folsom	Mapped	Community - Terrestrial - Northern Hardpan Vernal Pool
Community - Terrestrial	Northern Volcanic Mud Flow Vernal Pool	Northern Volcanic Mud Flow Vernal Pool	CTT44132CA	None	None	-	-	3812162	Folsom	Mapped	Community - Terrestrial - Northern Volcanic Mud Flow Vernal Pool
Community - Terrestrial	Northern Volcanic Mud Flow Vernal Pool	Northern Volcanic Mud Flow Vernal Pool	CTT44132CA	None	None	-	-	3812163	Citrus Heights	Mapped	Community - Terrestrial - Northern Volcanic Mud Flow Vernal Pool

Community - Terrestrial	Valley Needlegrass Grassland	Valley Needlegrass Grassland	CTT42110CA	None	None	-	-	3812162	Folsom	Mapped	Community - Terrestrial - Valley Needlegrass Grassland
Plants - Vascular	Chlorogalum grandiflorum	Red Hills soaproot	PMLI0G020	None	None	-	1B.2	3812161	Clarksville	Mapped	Plants - Vascular - Agavaceae - Chlorogalum grandiflorum
Plants - Vascular	Sagittaria sanfordii	Sanford's arrowhead	PMALI040Q0	None	None	-	1B.2	3812161	Clarksville	Mapped	Plants - Vascular - Alismataceae - Sagittaria sanfordii
Plants - Vascular	Sagittaria sanfordii	Sanford's arrowhead	PMALI040Q0	None	None	-	1B.2	3812163	Citrus Heights	Mapped	Plants - Vascular - Alismataceae - Sagittaria sanfordii
Plants - Vascular	Sagittaria sanfordii	Sanford's arrowhead	PMALI040Q0	None	None	-	1B.2	3812153	Carmichael	Mapped and Unprocessed	Plants - Vascular - Alismataceae - Sagittaria sanfordii
Plants - Vascular	Sagittaria sanfordii	Sanford's arrowhead	PMALI040Q0	None	None	-	1B.2	3812151	Folsom SE	Mapped	Plants - Vascular - Alismataceae - Sagittaria sanfordii
Plants - Vascular	Sagittaria sanfordii	Sanford's arrowhead	PMALI040Q0	None	None	-	1B.2	3812143	Elk Grove	Mapped	Plants - Vascular - Alismataceae - Sagittaria sanfordii
Plants - Vascular	Sagittaria sanfordii	Sanford's arrowhead	PMALI040Q0	None	None	-	1B.2	3812142	Sloughhouse	Mapped	Plants - Vascular - Alismataceae - Sagittaria sanfordii
Plants - Vascular	Sagittaria sanfordii	Sanford's arrowhead	PMALI040Q0	None	None	-	1B.2	3812141	Carbondale	Mapped	Plants - Vascular - Alismataceae - Sagittaria sanfordii
Plants - Vascular	Eryngium pinnatisectum	Tuolumne button-celery	PDAPI0Z0P0	None	None	-	1B.2	3812141	Carbondale	Mapped	Plants - Vascular - Apiaceae - Eryngium pinnatisectum
Plants - Vascular	Eryngium pinnatisectum	Tuolumne button-celery	PDAPI0Z0P0	None	None	-	1B.2	3812151	Folsom SE	Mapped	Plants - Vascular - Apiaceae - Eryngium pinnatisectum
Plants - Vascular	Eriophyllum jepsonii	Jepson's woolly sunflower	PDAST3N040	None	None	-	4.3	3812161	Clarksville	Unprocessed	Plants - Vascular - Asteraceae - Eriophyllum jepsonii
Plants - Vascular	Packera layneae	Layne's ragwort	PDAST8H1V0	Threatened	Rare	-	1B.2	3812161	Clarksville	Mapped	Plants - Vascular - Asteraceae - Packera layneae
Plants - Vascular	Wyethia reticulata	El Dorado County mule ears	PDAST9X0D0	None	None	-	1B.2	3812161	Clarksville	Mapped	Plants - Vascular - Asteraceae - Wyethia reticulata
Plants - Vascular	Downingia pusilla	dwarf downingia	PDCAM060C0	None	None	-	2B.2	3812162	Folsom	Mapped	Plants - Vascular - Campanulaceae - Downingia pusilla
Plants - Vascular	Downingia pusilla	dwarf downingia	PDCAM060C0	None	None	-	2B.2	3812141	Carbondale	Mapped	Plants - Vascular - Campanulaceae - Downingia pusilla
Plants - Vascular	Downingia pusilla	dwarf downingia	PDCAM060C0	None	None	-	2B.2	3812143	Elk Grove	Mapped	Plants - Vascular - Campanulaceae - Downingia pusilla
Plants - Vascular	Legenere limosa	legenere	PDCAM0C010	None	None	-	1B.1	3812143	Elk Grove	Mapped	Plants - Vascular - Campanulaceae - Legenere limosa
Plants - Vascular	Legenere limosa	legenere	PDCAM0C010	None	None	-	1B.1	3812142	Sloughhouse	Mapped	Plants - Vascular - Campanulaceae - Legenere limosa
Plants - Vascular	Legenere limosa	legenere	PDCAM0C010	None	None	-	1B.1	3812141	Carbondale	Mapped	Plants - Vascular - Campanulaceae - Legenere limosa
Plants - Vascular	Legenere limosa	legenere	PDCAM0C010	None	None	-	1B.1	3812152	Buffalo Creek	Mapped and Unprocessed	Plants - Vascular - Campanulaceae - Legenere limosa
Plants - Vascular	Legenere limosa	legenere	PDCAM0C010	None	None	-	1B.1	3812153	Carmichael	Mapped	Plants - Vascular - Campanulaceae - Legenere limosa
Plants - Vascular	Crocianthemum suffrutescens	Bisbee Peak rush-rose	PDCIS020F0	None	None	-	3.2	3812141	Carbondale	Mapped	Plants - Vascular - Cistaceae - Crocianthemum suffrutescens

Plants - Vascular	<i>Crocanthemum suffrutescens</i>	Bisbee Peak rush-rose	PDCIS020F0	None	None	-	3.2	3812161	Clarksville	Mapped	Plants - Vascular - Cistaceae - <i>Crocanthemum suffrutescens</i>
Plants - Vascular	<i>Arctostaphylos myrtifolia</i>	lone manzanita	PDERI04240	Threatened	None	-	1B.2	3812141	Carbondale	Mapped	Plants - Vascular - Ericaceae - <i>Arctostaphylos myrtifolia</i>
Plants - Vascular	<i>Juncus leiospermus</i> var. <i>ahartii</i>	Ahart's dwarf rush	PMJUN011L1	None	None	-	1B.2	3812153	Carmichael	Mapped	Plants - Vascular - Juncaceae - <i>Juncus leiospermus</i> var. <i>ahartii</i>
Plants - Vascular	<i>Juncus leiospermus</i> var. <i>ahartii</i>	Ahart's dwarf rush	PMJUN011L1	None	None	-	1B.2	3812152	Buffalo Creek	Mapped	Plants - Vascular - Juncaceae - <i>Juncus leiospermus</i> var. <i>ahartii</i>
Plants - Vascular	<i>Fritillaria agrestis</i>	stinkbells	PMLILOV010	None	None	-	4.2	3812142	Sloughhouse	Unprocessed	Plants - Vascular - Liliaceae - <i>Fritillaria agrestis</i>
Plants - Vascular	<i>Fritillaria agrestis</i>	stinkbells	PMLILOV010	None	None	-	4.2	3812162	Folsom	Unprocessed	Plants - Vascular - Liliaceae - <i>Fritillaria agrestis</i>
Plants - Vascular	<i>Fritillaria agrestis</i>	stinkbells	PMLILOV010	None	None	-	4.2	3812163	Citrus Heights	Mapped and Unprocessed	Plants - Vascular - Liliaceae - <i>Fritillaria agrestis</i>
Plants - Vascular	<i>Fremontodendron decumbens</i>	Pine Hill fiannelbush	PDSTE03030	Endangered	Rare	-	1B.2	3812161	Clarksville	Mapped	Plants - Vascular - Malvaceae - <i>Fremontodendron decumbens</i>
Plants - Vascular	<i>Calandrinia breweri</i>	Brewer's calandrinia	PDPOR01020	None	None	-	4.2	3812161	Clarksville	Unprocessed	Plants - Vascular - Montiaceae - <i>Calandrinia breweri</i>
Plants - Vascular	<i>Clarkia biloba</i> ssp. <i>brandegeae</i>	Brandegee's clarkia	PDONA05053	None	None	-	4.2	3812161	Clarksville	Mapped and Unprocessed	Plants - Vascular - Onagraceae - <i>Clarkia biloba</i> ssp. <i>brandegeae</i>
Plants - Vascular	<i>Clarkia biloba</i> ssp. <i>brandegeae</i>	Brandegee's clarkia	PDONA05053	None	None	-	4.2	3812162	Folsom	Mapped and Unprocessed	Plants - Vascular - Onagraceae - <i>Clarkia biloba</i> ssp. <i>brandegeae</i>
Plants - Vascular	<i>Gratiola heterosepala</i>	Boggs Lake hedge-hyssop	PDSCR0R060	None	Endangered	-	1B.2	3812142	Sloughhouse	Mapped	Plants - Vascular - Plantaginaceae - <i>Gratiola heterosepala</i>
Plants - Vascular	<i>Gratiola heterosepala</i>	Boggs Lake hedge-hyssop	PDSCR0R060	None	Endangered	-	1B.2	3812143	Elk Grove	Mapped	Plants - Vascular - Plantaginaceae - <i>Gratiola heterosepala</i>
Plants - Vascular	<i>Gratiola heterosepala</i>	Boggs Lake hedge-hyssop	PDSCR0R060	None	Endangered	-	1B.2	3812152	Buffalo Creek	Mapped	Plants - Vascular - Plantaginaceae - <i>Gratiola heterosepala</i>
Plants - Vascular	<i>Gratiola heterosepala</i>	Boggs Lake hedge-hyssop	PDSCR0R060	None	Endangered	-	1B.2	3812153	Carmichael	Mapped	Plants - Vascular - Plantaginaceae - <i>Gratiola heterosepala</i>
Plants - Vascular	<i>Orcuttia tenuis</i>	slender Orcutt grass	PMPOA4G050	Threatened	Endangered	-	1B.1	3812152	Buffalo Creek	Mapped	Plants - Vascular - Poaceae - <i>Orcuttia tenuis</i>
Plants - Vascular	<i>Orcuttia tenuis</i>	slender Orcutt grass	PMPOA4G050	Threatened	Endangered	-	1B.1	3812143	Elk Grove	Mapped	Plants - Vascular - Poaceae - <i>Orcuttia tenuis</i>
Plants - Vascular	<i>Orcuttia viscida</i>	Sacramento Orcutt grass	PMPOA4G070	Endangered	Endangered	-	1B.1	3812143	Elk Grove	Mapped	Plants - Vascular - Poaceae - <i>Orcuttia viscida</i>
Plants - Vascular	<i>Orcuttia viscida</i>	Sacramento Orcutt grass	PMPOA4G070	Endangered	Endangered	-	1B.1	3812152	Buffalo Creek	Mapped	Plants - Vascular - Poaceae - <i>Orcuttia viscida</i>
Plants - Vascular	<i>Orcuttia viscida</i>	Sacramento Orcutt grass	PMPOA4G070	Endangered	Endangered	-	1B.1	3812153	Carmichael	Mapped	Plants - Vascular - Poaceae - <i>Orcuttia viscida</i>
Plants - Vascular	<i>Orcuttia viscida</i>	Sacramento Orcutt grass	PMPOA4G070	Endangered	Endangered	-	1B.1	3812162	Folsom	Mapped	Plants - Vascular - Poaceae - <i>Orcuttia viscida</i>

Plants - Vascular	Navarretia eriocephala	hoary navarretia	PDPLM0C060	None	None	-	4.3	3812143	Elk Grove	Unprocessed	Plants - Vascular - Polemoniaceae - Navarretia eriocephala
Plants - Vascular	Navarretia myersii ssp. myersii	pincushion navarretia	PDPLM0C0X1	None	None	-	1B.1	3812141	Carbondale	Mapped	Plants - Vascular - Polemoniaceae - Navarretia myersii ssp. myersii
Plants - Vascular	Navarretia myersii ssp. myersii	pincushion navarretia	PDPLM0C0X1	None	None	-	1B.1	3812162	Folsom	Mapped and Unprocessed	Plants - Vascular - Polemoniaceae - Navarretia myersii ssp. myersii
Plants - Vascular	Eriogonum apricum var. apricum	lone buckwheat	PDPGN080F1	Endangered	Endangered	-	1B.1	3812141	Carbondale	Mapped	Plants - Vascular - Polygonaceae - Eriogonum apricum var. apricum
Plants - Vascular	Eriogonum apricum var. prostratum	Irish Hill buckwheat	PDPGN080F2	Endangered	Endangered	-	1B.1	3812141	Carbondale	Mapped	Plants - Vascular - Polygonaceae - Eriogonum apricum var. prostratum
Plants - Vascular	Ceanothus roderickii	Pine Hill ceanothus	PDRHA04190	Endangered	Rare	-	1B.2	3812161	Clarksville	Mapped	Plants - Vascular - Rhamnaceae - Ceanothus roderickii
Plants - Vascular	Horkelia parryi	Parry's horkelia	PDROS0W0C0	None	None	-	1B.2	3812141	Carbondale	Mapped	Plants - Vascular - Rosaceae - Horkelia parryi
Plants - Vascular	Galium californicum ssp. sierrae	El Dorado bedstraw	PDRUB0N0E7	Endangered	Rare	-	1B.2	3812161	Clarksville	Mapped	Plants - Vascular - Rubiaceae - Galium californicum ssp. sierrae

CNDDB 9-Quad Species List 252 records.

Element Type	Scientific Name	Common Name	Element Code	Federal Status	State Status	CDFW Status	CA Rare Plant Rank	Quad Code	Quad Name	Data Status	Taxonomic Sort
Animals - Amphibians	Ambystoma californiense	California tiger salamander	AAAAA01180	Threatened	Threatened	SSC	-	3812142	Sloughhouse	Unprocessed	Animals - Amphibians - Ambystomatidae - Ambystoma californiense
Animals - Amphibians	Spea hammondi	western spadefoot	AAABF02020	None	None	SSC	-	3812142	Sloughhouse	Mapped	Animals - Amphibians - Scaphiopodidae - Spea hammondi
Animals - Amphibians	Spea hammondi	western spadefoot	AAABF02020	None	None	SSC	-	3812152	Buffalo Creek	Mapped	Animals - Amphibians - Scaphiopodidae - Spea hammondi
Animals - Amphibians	Spea hammondi	western spadefoot	AAABF02020	None	None	SSC	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Amphibians - Scaphiopodidae - Spea hammondi
Animals - Amphibians	Spea hammondi	western spadefoot	AAABF02020	None	None	SSC	-	3812162	Folsom	Mapped	Animals - Amphibians - Scaphiopodidae - Spea hammondi
Animals - Birds	Accipiter cooperii	Cooper's hawk	ABNKC12040	None	None	WL	-	3812154	Sacramento East	Mapped	Animals - Birds - Accipitridae - Accipiter cooperii
Animals - Birds	Accipiter cooperii	Cooper's hawk	ABNKC12040	None	None	WL	-	3812162	Folsom	Mapped and Unprocessed	Animals - Birds - Accipitridae - Accipiter cooperii
Animals - Birds	Accipiter cooperii	Cooper's hawk	ABNKC12040	None	None	WL	-	3812163	Citrus Heights	Unprocessed	Animals - Birds - Accipitridae - Accipiter cooperii
Animals - Birds	Accipiter cooperii	Cooper's hawk	ABNKC12040	None	None	WL	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Birds - Accipitridae - Accipiter cooperii
Animals - Birds	Accipiter cooperii	Cooper's hawk	ABNKC12040	None	None	WL	-	3812152	Buffalo Creek	Mapped and Unprocessed	Animals - Birds - Accipitridae - Accipiter cooperii
Animals - Birds	Accipiter cooperii	Cooper's hawk	ABNKC12040	None	None	WL	-	3812143	Elk Grove	Mapped	Animals - Birds - Accipitridae - Accipiter cooperii
Animals - Birds	Accipiter cooperii	Cooper's hawk	ABNKC12040	None	None	WL	-	3812144	Florin	Mapped	Animals - Birds - Accipitridae - Accipiter cooperii
Animals - Birds	Aquila chrysaetos	golden eagle	ABNKC22010	None	None	FP, WL	-	3812152	Buffalo Creek	Unprocessed	Animals - Birds - Accipitridae - Aquila chrysaetos
Animals - Birds	Aquila chrysaetos	golden eagle	ABNKC22010	None	None	FP, WL	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Birds - Accipitridae - Aquila chrysaetos
Animals - Birds	Buteo regalis	ferruginous hawk	ABNKC19120	None	None	WL	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Birds - Accipitridae - Buteo regalis
Animals - Birds	Buteo regalis	ferruginous hawk	ABNKC19120	None	None	WL	-	3812152	Buffalo Creek	Unprocessed	Animals - Birds - Accipitridae - Buteo regalis
Animals - Birds	Buteo regalis	ferruginous hawk	ABNKC19120	None	None	WL	-	3812144	Florin	Mapped	Animals - Birds - Accipitridae - Buteo regalis
Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3812144	Florin	Mapped	Animals - Birds - Accipitridae - Buteo swainsoni
Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3812143	Elk Grove	Mapped and Unprocessed	Animals - Birds - Accipitridae - Buteo swainsoni
Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3812142	Sloughhouse	Mapped	Animals - Birds - Accipitridae - Buteo swainsoni
Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3812152	Buffalo Creek	Mapped and Unprocessed	Animals - Birds - Accipitridae - Buteo swainsoni

Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Birds - Accipitridae - Buteo swainsoni
Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3812162	Folsom	Mapped	Animals - Birds - Accipitridae - Buteo swainsoni
Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3812154	Sacramento East	Mapped and Unprocessed	Animals - Birds - Accipitridae - Buteo swainsoni
Animals - Birds	Buteo swainsoni	Swainson's hawk	ABNKC19070	None	Threatened	-	-	3812164	Rio Linda	Mapped and Unprocessed	Animals - Birds - Accipitridae - Buteo swainsoni
Animals - Birds	Circus cyaneus	northern harrier	ABNKC11010	None	None	SSC	-	3812164	Rio Linda	Unprocessed	Animals - Birds - Accipitridae - Circus cyaneus
Animals - Birds	Circus cyaneus	northern harrier	ABNKC11010	None	None	SSC	-	3812153	Carmichael	Unprocessed	Animals - Birds - Accipitridae - Circus cyaneus
Animals - Birds	Circus cyaneus	northern harrier	ABNKC11010	None	None	SSC	-	3812152	Buffalo Creek	Unprocessed	Animals - Birds - Accipitridae - Circus cyaneus
Animals - Birds	Circus cyaneus	northern harrier	ABNKC11010	None	None	SSC	-	3812142	Sloughhouse	Unprocessed	Animals - Birds - Accipitridae - Circus cyaneus
Animals - Birds	Elanus leucurus	white-tailed kite	ABNKC06010	None	None	FP	-	3812143	Elk Grove	Mapped	Animals - Birds - Accipitridae - Elanus leucurus
Animals - Birds	Elanus leucurus	white-tailed kite	ABNKC06010	None	None	FP	-	3812142	Sloughhouse	Mapped	Animals - Birds - Accipitridae - Elanus leucurus
Animals - Birds	Elanus leucurus	white-tailed kite	ABNKC06010	None	None	FP	-	3812144	Florin	Mapped and Unprocessed	Animals - Birds - Accipitridae - Elanus leucurus
Animals - Birds	Elanus leucurus	white-tailed kite	ABNKC06010	None	None	FP	-	3812152	Buffalo Creek	Mapped and Unprocessed	Animals - Birds - Accipitridae - Elanus leucurus
Animals - Birds	Elanus leucurus	white-tailed kite	ABNKC06010	None	None	FP	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Birds - Accipitridae - Elanus leucurus
Animals - Birds	Elanus leucurus	white-tailed kite	ABNKC06010	None	None	FP	-	3812163	Citrus Heights	Mapped	Animals - Birds - Accipitridae - Elanus leucurus
Animals - Birds	Elanus leucurus	white-tailed kite	ABNKC06010	None	None	FP	-	3812164	Rio Linda	Mapped	Animals - Birds - Accipitridae - Elanus leucurus
Animals - Birds	Elanus leucurus	white-tailed kite	ABNKC06010	None	None	FP	-	3812154	Sacramento East	Mapped and Unprocessed	Animals - Birds - Accipitridae - Elanus leucurus
Animals - Birds	Elanus leucurus	white-tailed kite	ABNKC06010	None	None	FP	-	3812162	Folsom	Mapped	Animals - Birds - Accipitridae - Elanus leucurus
Animals - Birds	Haliaeetus leucocephalus	bald eagle	ABNKC10010	Delisted	Endangered	FP	-	3812162	Folsom	Unprocessed	Animals - Birds - Accipitridae - Haliaeetus leucocephalus
Animals - Birds	Pandion haliaetus	osprey	ABNKC01010	None	None	WL	-	3812163	Citrus Heights	Unprocessed	Animals - Birds - Accipitridae - Pandion haliaetus
Animals - Birds	Pandion haliaetus	osprey	ABNKC01010	None	None	WL	-	3812154	Sacramento East	Unprocessed	Animals - Birds - Accipitridae - Pandion haliaetus
Animals - Birds	Pandion haliaetus	osprey	ABNKC01010	None	None	WL	-	3812153	Carmichael	Unprocessed	Animals - Birds - Accipitridae - Pandion haliaetus
Animals - Birds	Chaetura vauxi	Vaux's swift	ABNUA03020	None	None	SSC	-	3812153	Carmichael	Unprocessed	Animals - Birds - Apodidae - Chaetura vauxi
Animals - Birds	Chaetura vauxi	Vaux's swift	ABNUA03020	None	None	SSC	-	3812163	Citrus Heights	Unprocessed	Animals - Birds - Apodidae - Chaetura vauxi
Animals - Birds	Ardea alba	great egret	ABNGA04040	None	None	-	-	3812162	Folsom	Mapped and Unprocessed	Animals - Birds - Ardeidae - Ardea alba

Animals - Birds	Ardea alba	great egret	ABNGA04040	None	None	-	-	3812164	Rio Linda	Mapped and Unprocessed	Animals - Birds - Ardeidae - Ardea alba
Animals - Birds	Ardea alba	great egret	ABNGA04040	None	None	-	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Birds - Ardeidae - Ardea alba
Animals - Birds	Ardea alba	great egret	ABNGA04040	None	None	-	-	3812144	Florin	Mapped and Unprocessed	Animals - Birds - Ardeidae - Ardea alba
Animals - Birds	Ardea herodias	great blue heron	ABNGA04010	None	None	-	-	3812144	Florin	Mapped and Unprocessed	Animals - Birds - Ardeidae - Ardea herodias
Animals - Birds	Ardea herodias	great blue heron	ABNGA04010	None	None	-	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Birds - Ardeidae - Ardea herodias
Animals - Birds	Ardea herodias	great blue heron	ABNGA04010	None	None	-	-	3812164	Rio Linda	Mapped	Animals - Birds - Ardeidae - Ardea herodias
Animals - Birds	Ardea herodias	great blue heron	ABNGA04010	None	None	-	-	3812163	Citrus Heights	Mapped and Unprocessed	Animals - Birds - Ardeidae - Ardea herodias
Animals - Birds	Ardea herodias	great blue heron	ABNGA04010	None	None	-	-	3812154	Sacramento East	Mapped	Animals - Birds - Ardeidae - Ardea herodias
Animals - Birds	Ardea herodias	great blue heron	ABNGA04010	None	None	-	-	3812162	Folsom	Mapped and Unprocessed	Animals - Birds - Ardeidae - Ardea herodias
Animals - Birds	Botaurus lentiginosus	American bittern	ABNGA01020	None	None	-	-	3812144	Florin	Unprocessed	Animals - Birds - Ardeidae - Botaurus lentiginosus
Animals - Birds	Egretta thula	snowy egret	ABNGA06030	None	None	-	-	3812144	Florin	Unprocessed	Animals - Birds - Ardeidae - Egretta thula
Animals - Birds	Ixobrychus exilis	least bittern	ABNGA02010	None	None	SSC	-	3812144	Florin	Unprocessed	Animals - Birds - Ardeidae - Ixobrychus exilis
Animals - Birds	Nycticorax nycticorax	black-crowned night heron	ABNGA11010	None	None	-	-	3812144	Florin	Mapped and Unprocessed	Animals - Birds - Ardeidae - Nycticorax nycticorax
Animals - Birds	Pica nuttalli	yellow-billed magpie	ABPAV09020	None	None	-	-	3812154	Sacramento East	Unprocessed	Animals - Birds - Corvidae - Pica nuttalli
Animals - Birds	Coccyzus americanus occidentalis	western yellow-billed cuckoo	ABNRB02022	Threatened	Endangered	-	-	3812154	Sacramento East	Mapped	Animals - Birds - Cuculidae - Coccyzus americanus occidentalis
Animals - Birds	Coccyzus americanus occidentalis	western yellow-billed cuckoo	ABNRB02022	Threatened	Endangered	-	-	3812164	Rio Linda	Mapped	Animals - Birds - Cuculidae - Coccyzus americanus occidentalis
Animals - Birds	Ammodramus savannarum	grasshopper sparrow	ABPBXA0020	None	None	SSC	-	3812154	Sacramento East	Unprocessed	Animals - Birds - Emberizidae - Ammodramus savannarum
Animals - Birds	Ammodramus savannarum	grasshopper sparrow	ABPBXA0020	None	None	SSC	-	3812144	Florin	Unprocessed	Animals - Birds - Emberizidae - Ammodramus savannarum
Animals - Birds	Chondestes grammacus	lark sparrow	ABPBX96010	None	None	-	-	3812154	Sacramento East	Unprocessed	Animals - Birds - Emberizidae - Chondestes grammacus
Animals - Birds	Melospiza melodia	song sparrow (-inModesto-in population)	ABPBXA3010	None	None	SSC	-	3812154	Sacramento East	Mapped	Animals - Birds - Emberizidae - Melospiza melodia
Animals - Birds	Melospiza melodia	song sparrow (-inModesto-in population)	ABPBXA3010	None	None	SSC	-	3812164	Rio Linda	Mapped	Animals - Birds - Emberizidae - Melospiza melodia
Animals - Birds	Melospiza melodia	song sparrow (-inModesto-in population)	ABPBXA3010	None	None	SSC	-	3812144	Florin	Mapped	Animals - Birds - Emberizidae - Melospiza melodia

Animals - Birds	Spizella breweri	Brewer's sparrow	ABPBX94040	None	None	-	-	3812154	Sacramento East	Unprocessed	Animals - Birds - Emberizidae - Spizella breweri
Animals - Birds	Falco columbarius	merlin	ABNKD06030	None	None	WL	-	3812162	Folsom	Mapped and Unprocessed	Animals - Birds - Falconidae - Falco columbarius
Animals - Birds	Falco columbarius	merlin	ABNKD06030	None	None	WL	-	3812144	Florin	Mapped	Animals - Birds - Falconidae - Falco columbarius
Animals - Birds	Falco columbarius	merlin	ABNKD06030	None	None	WL	-	3812152	Buffalo Creek	Unprocessed	Animals - Birds - Falconidae - Falco columbarius
Animals - Birds	Falco mexicanus	prairie falcon	ABNKD06090	None	None	WL	-	3812154	Sacramento East	Unprocessed	Animals - Birds - Falconidae - Falco mexicanus
Animals - Birds	Spinus lawrencei	Lawrence's goldfinch	ABPBY06100	None	None	-	-	3812162	Folsom	Unprocessed	Animals - Birds - Fringillidae - Spinus lawrencei
Animals - Birds	Spinus lawrencei	Lawrence's goldfinch	ABPBY06100	None	None	-	-	3812152	Buffalo Creek	Unprocessed	Animals - Birds - Fringillidae - Spinus lawrencei
Animals - Birds	Grus canadensis tabida	greater sandhill crane	ABNMK01014	None	Threatened	FP	-	3812144	Florin	Unprocessed	Animals - Birds - Gruidae - Grus canadensis tabida
Animals - Birds	Progne subis	purple martin	ABPAU01010	None	None	SSC	-	3812154	Sacramento East	Mapped and Unprocessed	Animals - Birds - Hirundinidae - Progne subis
Animals - Birds	Progne subis	purple martin	ABPAU01010	None	None	SSC	-	3812164	Rio Linda	Mapped and Unprocessed	Animals - Birds - Hirundinidae - Progne subis
Animals - Birds	Riparia riparia	bank swallow	ABPAU08010	None	Threatened	-	-	3812154	Sacramento East	Mapped	Animals - Birds - Hirundinidae - Riparia riparia
Animals - Birds	Riparia riparia	bank swallow	ABPAU08010	None	Threatened	-	-	3812163	Citrus Heights	Mapped	Animals - Birds - Hirundinidae - Riparia riparia
Animals - Birds	Riparia riparia	bank swallow	ABPAU08010	None	Threatened	-	-	3812142	Sloughhouse	Mapped and Unprocessed	Animals - Birds - Hirundinidae - Riparia riparia
Animals - Birds	Riparia riparia	bank swallow	ABPAU08010	None	Threatened	-	-	3812153	Carmichael	Mapped	Animals - Birds - Hirundinidae - Riparia riparia
Animals - Birds	Agelaius tricolor	tricolored blackbird	ABPBXB0020	None	Endangered	SSC	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Birds - Icteridae - Agelaius tricolor
Animals - Birds	Agelaius tricolor	tricolored blackbird	ABPBXB0020	None	Endangered	SSC	-	3812152	Buffalo Creek	Mapped and Unprocessed	Animals - Birds - Icteridae - Agelaius tricolor
Animals - Birds	Agelaius tricolor	tricolored blackbird	ABPBXB0020	None	Endangered	SSC	-	3812142	Sloughhouse	Mapped and Unprocessed	Animals - Birds - Icteridae - Agelaius tricolor
Animals - Birds	Agelaius tricolor	tricolored blackbird	ABPBXB0020	None	Endangered	SSC	-	3812143	Elk Grove	Mapped	Animals - Birds - Icteridae - Agelaius tricolor
Animals - Birds	Agelaius tricolor	tricolored blackbird	ABPBXB0020	None	Endangered	SSC	-	3812144	Florin	Mapped and Unprocessed	Animals - Birds - Icteridae - Agelaius tricolor
Animals - Birds	Agelaius tricolor	tricolored blackbird	ABPBXB0020	None	Endangered	SSC	-	3812162	Folsom	Mapped	Animals - Birds - Icteridae - Agelaius tricolor
Animals - Birds	Agelaius tricolor	tricolored blackbird	ABPBXB0020	None	Endangered	SSC	-	3812164	Rio Linda	Mapped	Animals - Birds - Icteridae - Agelaius tricolor
Animals - Birds	Xanthocephalus xanthocephalus	yellow-headed blackbird	ABPBXB3010	None	None	SSC	-	3812144	Florin	Mapped	Animals - Birds - Icteridae - Xanthocephalus xanthocephalus
Animals - Birds	Lanius ludovicianus	loggerhead shrike	ABPBR01030	None	None	SSC	-	3812144	Florin	Unprocessed	Animals - Birds - Laniidae - Lanius ludovicianus
Animals - Birds	Lanius ludovicianus	loggerhead shrike	ABPBR01030	None	None	SSC	-	3812153	Carmichael	Unprocessed	Animals - Birds - Laniidae - Lanius ludovicianus

Animals - Birds	Lanius ludovicianus	loggerhead shrike	ABPBR01030	None	None	SSC	-	3812152	Buffalo Creek	Unprocessed	Animals - Birds - Lanidae - Lanius ludovicianus
Animals - Birds	Lanius ludovicianus	loggerhead shrike	ABPBR01030	None	None	SSC	-	3812164	Rio Linda	Unprocessed	Animals - Birds - Lanidae - Lanius ludovicianus
Animals - Birds	Sternula antillarum browni	California least tern	ABNNM08103	Endangered	Endangered	FP	-	3812144	Florin	Unprocessed	Animals - Birds - Laridae - Sternula antillarum browni
Animals - Birds	Baeolophus inornatus	oak titmouse	ABPAW01100	None	None	-	-	3812144	Florin	Unprocessed	Animals - Birds - Paridae - Baeolophus inornatus
Animals - Birds	Icteria virens	yellow-breasted chat	ABPBX24010	None	None	SSC	-	3812162	Folsom	Unprocessed	Animals - Birds - Parulidae - Icteria virens
Animals - Birds	Setophaga petechia	yellow warbler	ABPBX03010	None	None	SSC	-	3812162	Folsom	Unprocessed	Animals - Birds - Parulidae - Setophaga petechia
Animals - Birds	Phalacrocorax auritus	double-crested cormorant	ABNFD01020	None	None	WL	-	3812162	Folsom	Mapped and Unprocessed	Animals - Birds - Phalacrocoracidae - Phalacrocorax auritus
Animals - Birds	Phalacrocorax auritus	double-crested cormorant	ABNFD01020	None	None	WL	-	3812144	Florin	Mapped and Unprocessed	Animals - Birds - Phalacrocoracidae - Phalacrocorax auritus
Animals - Birds	Picoides nuttallii	Nuttall's woodpecker	ABNYF07020	None	None	-	-	3812144	Florin	Unprocessed	Animals - Birds - Picidae - Picoides nuttallii
Animals - Birds	Picoides nuttallii	Nuttall's woodpecker	ABNYF07020	None	None	-	-	3812152	Buffalo Creek	Unprocessed	Animals - Birds - Picidae - Picoides nuttallii
Animals - Birds	Picoides nuttallii	Nuttall's woodpecker	ABNYF07020	None	None	-	-	3812153	Carmichael	Unprocessed	Animals - Birds - Picidae - Picoides nuttallii
Animals - Birds	Athene cucularia	burrowing owl	ABNSB10010	None	None	SSC	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Birds - Strigidae - Athene cucularia
Animals - Birds	Athene cucularia	burrowing owl	ABNSB10010	None	None	SSC	-	3812152	Buffalo Creek	Mapped and Unprocessed	Animals - Birds - Strigidae - Athene cucularia
Animals - Birds	Athene cucularia	burrowing owl	ABNSB10010	None	None	SSC	-	3812144	Florin	Mapped and Unprocessed	Animals - Birds - Strigidae - Athene cucularia
Animals - Birds	Athene cucularia	burrowing owl	ABNSB10010	None	None	SSC	-	3812143	Elk Grove	Mapped and Unprocessed	Animals - Birds - Strigidae - Athene cucularia
Animals - Birds	Athene cucularia	burrowing owl	ABNSB10010	None	None	SSC	-	3812142	Sloughhouse	Unprocessed	Animals - Birds - Strigidae - Athene cucularia
Animals - Birds	Athene cucularia	burrowing owl	ABNSB10010	None	None	SSC	-	3812154	Sacramento East	Mapped and Unprocessed	Animals - Birds - Strigidae - Athene cucularia
Animals - Birds	Athene cucularia	burrowing owl	ABNSB10010	None	None	SSC	-	3812164	Rio Linda	Mapped and Unprocessed	Animals - Birds - Strigidae - Athene cucularia
Animals - Crustaceans	Branchinecta lynchi	vernal pool fairy shrimp	ICBRA03030	Threatened	None	-	-	3812164	Rio Linda	Mapped	Animals - Crustaceans - Branchinectidae - Branchinecta lynchi
Animals - Crustaceans	Branchinecta lynchi	vernal pool fairy shrimp	ICBRA03030	Threatened	None	-	-	3812154	Sacramento East	Mapped	Animals - Crustaceans - Branchinectidae - Branchinecta lynchi
Animals - Crustaceans	Branchinecta lynchi	vernal pool fairy shrimp	ICBRA03030	Threatened	None	-	-	3812162	Folsom	Mapped	Animals - Crustaceans - Branchinectidae - Branchinecta lynchi

Animals - Crustaceans	Branchinecta lynchi	vernal pool fairy shrimp	ICBRA03030	Threatened	None	-	-	3812142	Sloughhouse	Mapped and Unprocessed	Animals - Crustaceans - Branchinectidae - Branchinecta lynchi
Animals - Crustaceans	Branchinecta lynchi	vernal pool fairy shrimp	ICBRA03030	Threatened	None	-	-	3812143	Elk Grove	Mapped and Unprocessed	Animals - Crustaceans - Branchinectidae - Branchinecta lynchi
Animals - Crustaceans	Branchinecta lynchi	vernal pool fairy shrimp	ICBRA03030	Threatened	None	-	-	3812152	Buffalo Creek	Mapped and Unprocessed	Animals - Crustaceans - Branchinectidae - Branchinecta lynchi
Animals - Crustaceans	Branchinecta lynchi	vernal pool fairy shrimp	ICBRA03030	Threatened	None	-	-	3812144	Florin	Mapped	Animals - Crustaceans - Branchinectidae - Branchinecta lynchi
Animals - Crustaceans	Branchinecta lynchi	vernal pool fairy shrimp	ICBRA03030	Threatened	None	-	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Crustaceans - Branchinectidae - Branchinecta lynchi
Animals - Crustaceans	Branchinecta mesovallensis	midvalley fairy shrimp	ICBRA03150	None	None	-	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Crustaceans - Branchinectidae - Branchinecta mesovallensis
Animals - Crustaceans	Branchinecta mesovallensis	midvalley fairy shrimp	ICBRA03150	None	None	-	-	3812144	Florin	Mapped	Animals - Crustaceans - Branchinectidae - Branchinecta mesovallensis
Animals - Crustaceans	Branchinecta mesovallensis	midvalley fairy shrimp	ICBRA03150	None	None	-	-	3812152	Buffalo Creek	Mapped and Unprocessed	Animals - Crustaceans - Branchinectidae - Branchinecta mesovallensis
Animals - Crustaceans	Branchinecta mesovallensis	midvalley fairy shrimp	ICBRA03150	None	None	-	-	3812143	Elk Grove	Mapped and Unprocessed	Animals - Crustaceans - Branchinectidae - Branchinecta mesovallensis
Animals - Crustaceans	Branchinecta mesovallensis	midvalley fairy shrimp	ICBRA03150	None	None	-	-	3812142	Sloughhouse	Mapped	Animals - Crustaceans - Branchinectidae - Branchinecta mesovallensis
Animals - Crustaceans	Dumontia oregonensis	hairy water flea	ICBRA23010	None	None	-	-	3812152	Buffalo Creek	Mapped	Animals - Crustaceans - Dumontiidae - Dumontia oregonensis
Animals - Crustaceans	Dumontia oregonensis	hairy water flea	ICBRA23010	None	None	-	-	3812153	Carmichael	Mapped	Animals - Crustaceans - Dumontiidae - Dumontia oregonensis
Animals - Crustaceans	Linderiella occidentalis	California linderiella	ICBRA06010	None	None	-	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Crustaceans - Linderiellidae - Linderiella occidentalis
Animals - Crustaceans	Linderiella occidentalis	California linderiella	ICBRA06010	None	None	-	-	3812152	Buffalo Creek	Mapped and Unprocessed	Animals - Crustaceans - Linderiellidae - Linderiella occidentalis
Animals - Crustaceans	Linderiella occidentalis	California linderiella	ICBRA06010	None	None	-	-	3812144	Florin	Mapped and Unprocessed	Animals - Crustaceans - Linderiellidae - Linderiella occidentalis

Animals - Crustaceans	Linderiella occidentalis	California linderiella	ICBRA06010	None	None	-	-	3812142	Sloughhouse	Mapped and Unprocessed	Animals - Crustaceans - Linderiellidae - Linderiella occidentalis
Animals - Crustaceans	Linderiella occidentalis	California linderiella	ICBRA06010	None	None	-	-	3812143	Elk Grove	Mapped and Unprocessed	Animals - Crustaceans - Linderiellidae - Linderiella occidentalis
Animals - Crustaceans	Linderiella occidentalis	California linderiella	ICBRA06010	None	None	-	-	3812162	Folsom	Mapped and Unprocessed	Animals - Crustaceans - Linderiellidae - Linderiella occidentalis
Animals - Crustaceans	Linderiella occidentalis	California linderiella	ICBRA06010	None	None	-	-	3812163	Citrus Heights	Mapped and Unprocessed	Animals - Crustaceans - Linderiellidae - Linderiella occidentalis
Animals - Crustaceans	Linderiella occidentalis	California linderiella	ICBRA06010	None	None	-	-	3812154	Sacramento East	Mapped and Unprocessed	Animals - Crustaceans - Linderiellidae - Linderiella occidentalis
Animals - Crustaceans	Linderiella occidentalis	California linderiella	ICBRA06010	None	None	-	-	3812164	Rio Linda	Mapped and Unprocessed	Animals - Crustaceans - Linderiellidae - Linderiella occidentalis
Animals - Crustaceans	Lepidurus packardi	vernal pool tadpole shrimp	ICBRA10010	Endangered	None	-	-	3812164	Rio Linda	Mapped	Animals - Crustaceans - Triopsidae - Lepidurus packardi
Animals - Crustaceans	Lepidurus packardi	vernal pool tadpole shrimp	ICBRA10010	Endangered	None	-	-	3812154	Sacramento East	Mapped	Animals - Crustaceans - Triopsidae - Lepidurus packardi
Animals - Crustaceans	Lepidurus packardi	vernal pool tadpole shrimp	ICBRA10010	Endangered	None	-	-	3812162	Folsom	Mapped	Animals - Crustaceans - Triopsidae - Lepidurus packardi
Animals - Crustaceans	Lepidurus packardi	vernal pool tadpole shrimp	ICBRA10010	Endangered	None	-	-	3812143	Elk Grove	Mapped and Unprocessed	Animals - Crustaceans - Triopsidae - Lepidurus packardi
Animals - Crustaceans	Lepidurus packardi	vernal pool tadpole shrimp	ICBRA10010	Endangered	None	-	-	3812142	Sloughhouse	Mapped	Animals - Crustaceans - Triopsidae - Lepidurus packardi
Animals - Crustaceans	Lepidurus packardi	vernal pool tadpole shrimp	ICBRA10010	Endangered	None	-	-	3812144	Florin	Mapped	Animals - Crustaceans - Triopsidae - Lepidurus packardi
Animals - Crustaceans	Lepidurus packardi	vernal pool tadpole shrimp	ICBRA10010	Endangered	None	-	-	3812152	Buffalo Creek	Mapped and Unprocessed	Animals - Crustaceans - Triopsidae - Lepidurus packardi
Animals - Crustaceans	Lepidurus packardi	vernal pool tadpole shrimp	ICBRA10010	Endangered	None	-	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Crustaceans - Triopsidae - Lepidurus packardi
Animals - Fish	Mylopharodon conocephalus	hardhead	AFCJB25010	None	None	SSC	-	3812154	Sacramento East	Unprocessed	Animals - Fish - Cyprinidae - Mylopharodon conocephalus
Animals - Fish	Pogonichthys macrolepidotus	Sacramento splittail	AFCJB34020	None	None	SSC	-	3812154	Sacramento East	Unprocessed	Animals - Fish - Cyprinidae - Pogonichthys macrolepidotus

Animals - Fish	Pogonichthys macrolepidotus	Sacramento splittail	AFCJB34020	None	None	SSC	-	3812144	Florin	Mapped	Animals - Fish - Cyprinidae - Pogonichthys macrolepidotus
Animals - Fish	Hysteroecarpus traski traski	Sacramento-San Joaquin tule perch	AFCQK02012	None	None	-	-	3812154	Sacramento East	Unprocessed	Animals - Fish - Embiotocidae - Hysteroecarpus traski traski
Animals - Fish	Hypomesus transpacificus	Delta smelt	AFCHB01040	Threatened	Endangered	-	-	3812154	Sacramento East	Unprocessed	Animals - Fish - Osmeridae - Hypomesus transpacificus
Animals - Fish	Spirinchus thaleichthys	longfin smelt	AFCHB03010	Candidate	Threatened	SSC	-	3812144	Florin	Mapped	Animals - Fish - Osmeridae - Spirinchus thaleichthys
Animals - Fish	Entosphenus tridentatus	Pacific lamprey	AFBAA02100	None	None	-	-	3812154	Sacramento East	Unprocessed	Animals - Fish - Petromyzontidae - Entosphenus tridentatus
Animals - Fish	Lampetra ayresii	river lamprey	AFBAA02030	None	None	SSC	-	3812154	Sacramento East	Unprocessed	Animals - Fish - Petromyzontidae - Lampetra ayresii
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - central California coast DPS	AFCHA0209G	Threatened	None	-	-	3812154	Sacramento East	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	-	-	3812154	Sacramento East	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	-	-	3812163	Citrus Heights	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	-	-	3812162	Folsom	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	-	-	3812164	Rio Linda	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	-	-	3812144	Florin	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	-	-	3812142	Sloughhouse	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	-	-	3812143	Elk Grove	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus mykiss irideus	steelhead - Central Valley DPS	AFCHA0209K	Threatened	None	-	-	3812153	Carmichael	Mapped	Animals - Fish - Salmonidae - Oncorhynchus mykiss irideus
Animals - Fish	Oncorhynchus tshawytscha	chinook salmon - Central Valley spring-run ESU	AFCHA0205A	Threatened	Threatened	-	-	3812154	Sacramento East	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha
Animals - Fish	Oncorhynchus tshawytscha	chinook salmon - Sacramento River winter-run ESU	AFCHA0205B	Endangered	Endangered	-	-	3812154	Sacramento East	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha
Animals - Fish	Oncorhynchus tshawytscha	chinook salmon - Central Valley fall / late fall-run ESU	AFCHA0205N	None	None	SSC	-	3812154	Sacramento East	Unprocessed	Animals - Fish - Salmonidae - Oncorhynchus tshawytscha

Animals - Insects	Andrena blennospermatris	Blenno sperma vernal pool andrenid bee	IHYM35030	None	None	-	-	3812142	Sloughhouse	Mapped	Animals - Insects - Andrenidae - Andrena blennospermatris
Animals - Insects	Andrena subapasta	an andrenid bee	IHYM35210	None	None	-	-	3812163	Citrus Heights	Mapped	Animals - Insects - Andrenidae - Andrena subapasta
Animals - Insects	Desmocerus californicus dimorphus	valley elderberry longhorn beetle	IICOL48011	Threatened	None	-	-	3812163	Citrus Heights	Mapped and Unprocessed	Animals - Insects - Cerambycidae - Desmocerus californicus dimorphus
Animals - Insects	Desmocerus californicus dimorphus	valley elderberry longhorn beetle	IICOL48011	Threatened	None	-	-	3812162	Folsom	Mapped and Unprocessed	Animals - Insects - Cerambycidae - Desmocerus californicus dimorphus
Animals - Insects	Desmocerus californicus dimorphus	valley elderberry longhorn beetle	IICOL48011	Threatened	None	-	-	3812154	Sacramento East	Mapped and Unprocessed	Animals - Insects - Cerambycidae - Desmocerus californicus dimorphus
Animals - Insects	Desmocerus californicus dimorphus	valley elderberry longhorn beetle	IICOL48011	Threatened	None	-	-	3812142	Sloughhouse	Mapped	Animals - Insects - Cerambycidae - Desmocerus californicus dimorphus
Animals - Insects	Desmocerus californicus dimorphus	valley elderberry longhorn beetle	IICOL48011	Threatened	None	-	-	3812143	Elk Grove	Mapped	Animals - Insects - Cerambycidae - Desmocerus californicus dimorphus
Animals - Insects	Desmocerus californicus dimorphus	valley elderberry longhorn beetle	IICOL48011	Threatened	None	-	-	3812153	Carmichael	Mapped and Unprocessed	Animals - Insects - Cerambycidae - Desmocerus californicus dimorphus
Animals - Insects	Desmocerus californicus dimorphus	valley elderberry longhorn beetle	IICOL48011	Threatened	None	-	-	3812152	Buffalo Creek	Mapped	Animals - Insects - Cerambycidae - Desmocerus californicus dimorphus
Animals - Insects	Hydrochara rickseckeri	Ricksecker's water scavenger beetle	IICOL5V010	None	None	-	-	3812152	Buffalo Creek	Mapped	Animals - Insects - Hydrophilidae - Hydrochara rickseckeri
Animals - Insects	Hydrochara rickseckeri	Ricksecker's water scavenger beetle	IICOL5V010	None	None	-	-	3812153	Carmichael	Mapped	Animals - Insects - Hydrophilidae - Hydrochara rickseckeri
Animals - Mammals	Taxidea taxus	American badger	AMAJF04010	None	None	SSC	-	3812153	Carmichael	Mapped	Animals - Mammals - Mustelidae - Taxidea taxus
Animals - Mammals	Taxidea taxus	American badger	AMAJF04010	None	None	SSC	-	3812152	Buffalo Creek	Mapped and Unprocessed	Animals - Mammals - Mustelidae - Taxidea taxus
Animals - Mammals	Taxidea taxus	American badger	AMAJF04010	None	None	SSC	-	3812144	Florin	Mapped and Unprocessed	Animals - Mammals - Mustelidae - Taxidea taxus
Animals - Mammals	Taxidea taxus	American badger	AMAJF04010	None	None	SSC	-	3812154	Sacramento East	Mapped	Animals - Mammals - Mustelidae - Taxidea taxus
Animals - Mammals	Taxidea taxus	American badger	AMAJF04010	None	None	SSC	-	3812162	Folsom	Unprocessed	Animals - Mammals - Mustelidae - Taxidea taxus
Animals - Mammals	Antrozous pallidus	pallid bat	AMACC10010	None	None	SSC	-	3812162	Folsom	Mapped	Animals - Mammals - Vespertilionidae - Antrozous pallidus

Animals - Mammals	Lasionycteris noctivagans	silver-haired bat	AMACC02010	None	None	-	-	3812162	Folsom	Mapped	Animals - Mammals - Vespertilionidae - Lasionycteris noctivagans
Animals - Mammals	Lasiurus blossevillii	western red bat	AMACC05060	None	None	SSC	-	3812144	Florin	Unprocessed	Animals - Mammals - Vespertilionidae - Lasiurus blossevillii
Animals - Mammals	Lasiurus cinereus	hoary bat	AMACC05030	None	None	-	-	3812144	Florin	Unprocessed	Animals - Mammals - Vespertilionidae - Lasiurus cinereus
Animals - Mammals	Myotis lucifugus	little brown bat	AMACC01010	None	None	-	-	3812144	Florin	Unprocessed	Animals - Mammals - Vespertilionidae - Myotis lucifugus
Animals - Mammals	Myotis yumanensis	Yuma myotis	AMACC01020	None	None	-	-	3812144	Florin	Unprocessed	Animals - Mammals - Vespertilionidae - Myotis yumanensis
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3812144	Florin	Mapped	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3812143	Elk Grove	Mapped	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3812142	Sloughhouse	Mapped	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3812152	Buffalo Creek	Mapped and Unprocessed	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3812153	Carmichael	Mapped	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3812162	Folsom	Mapped and Unprocessed	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3812154	Sacramento East	Unprocessed	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Emys marmorata	western pond turtle	ARAAD02030	None	None	SSC	-	3812164	Rio Linda	Mapped and Unprocessed	Animals - Reptiles - Emydidae - Emys marmorata
Animals - Reptiles	Thamnophis gigas	giant garter snake	ARADB36150	Threatened	Threatened	-	-	3812164	Rio Linda	Mapped	Animals - Reptiles - Natricidae - Thamnophis gigas
Animals - Reptiles	Thamnophis gigas	giant garter snake	ARADB36150	Threatened	Threatened	-	-	3812143	Elk Grove	Mapped	Animals - Reptiles - Natricidae - Thamnophis gigas
Animals - Reptiles	Thamnophis gigas	giant garter snake	ARADB36150	Threatened	Threatened	-	-	3812144	Florin	Mapped	Animals - Reptiles - Natricidae - Thamnophis gigas
Community - Terrestrial	Elderberry Savanna	Elderberry Savanna	CTT63440CA	None	None	-	-	3812154	Sacramento East	Mapped	Community - Terrestrial - Elderberry Savanna
Community - Terrestrial	Great Valley Valley Oak Riparian Forest	Great Valley Valley Oak Riparian Forest	CTT61430CA	None	None	-	-	3812143	Elk Grove	Mapped	Community - Terrestrial - Great Valley Valley Oak Riparian Forest
Community - Terrestrial	Northern Claypan Vernal Pool	Northern Claypan Vernal Pool	CTT44120CA	None	None	-	-	3812164	Rio Linda	Mapped	Community - Terrestrial - Northern Claypan Vernal Pool
Community - Terrestrial	Northern Hardpan Vernal Pool	Northern Hardpan Vernal Pool	CTT44110CA	None	None	-	-	3812164	Rio Linda	Mapped	Community - Terrestrial - Northern Hardpan Vernal Pool
Community - Terrestrial	Northern Hardpan Vernal Pool	Northern Hardpan Vernal Pool	CTT44110CA	None	None	-	-	3812162	Folsom	Mapped	Community - Terrestrial - Northern Hardpan Vernal Pool

Community - Terrestrial	Northern Hardpan Vernal Pool	Northern Hardpan Vernal Pool	CTT44110CA	None	None	-	-	3812144	Florin	Mapped	Community - Terrestrial - Northern Hardpan Vernal Pool
Community - Terrestrial	Northern Hardpan Vernal Pool	Northern Hardpan Vernal Pool	CTT44110CA	None	None	-	-	3812143	Elk Grove	Mapped	Community - Terrestrial - Northern Hardpan Vernal Pool
Community - Terrestrial	Northern Hardpan Vernal Pool	Northern Hardpan Vernal Pool	CTT44110CA	None	None	-	-	3812142	Sloughhouse	Mapped	Community - Terrestrial - Northern Hardpan Vernal Pool
Community - Terrestrial	Northern Hardpan Vernal Pool	Northern Hardpan Vernal Pool	CTT44110CA	None	None	-	-	3812153	Carmichael	Mapped	Community - Terrestrial - Northern Hardpan Vernal Pool
Community - Terrestrial	Northern Hardpan Vernal Pool	Northern Hardpan Vernal Pool	CTT44110CA	None	None	-	-	3812152	Buffalo Creek	Mapped	Community - Terrestrial - Northern Hardpan Vernal Pool
Community - Terrestrial	Northern Volcanic Mud Flow Vernal Pool	Northern Volcanic Mud Flow Vernal Pool	CTT44132CA	None	None	-	-	3812162	Folsom	Mapped	Community - Terrestrial - Northern Volcanic Mud Flow Vernal Pool
Community - Terrestrial	Northern Volcanic Mud Flow Vernal Pool	Northern Volcanic Mud Flow Vernal Pool	CTT44132CA	None	None	-	-	3812163	Citrus Heights	Mapped	Community - Terrestrial - Northern Volcanic Mud Flow Vernal Pool
Community - Terrestrial	Valley Needlegrass Grassland	Valley Needlegrass Grassland	CTT42110CA	None	None	-	-	3812162	Folsom	Mapped	Community - Terrestrial - Valley Needlegrass Grassland
Plants - Vascular	Sagittaria sanfordii	Sanford's arrowhead	PMALI040Q0	None	None	-	1B.2	3812163	Citrus Heights	Mapped	Plants - Vascular - Alismataceae - Sagittaria sanfordii
Plants - Vascular	Sagittaria sanfordii	Sanford's arrowhead	PMALI040Q0	None	None	-	1B.2	3812154	Sacramento East	Mapped and Unprocessed	Plants - Vascular - Alismataceae - Sagittaria sanfordii
Plants - Vascular	Sagittaria sanfordii	Sanford's arrowhead	PMALI040Q0	None	None	-	1B.2	3812164	Rio Linda	Mapped	Plants - Vascular - Alismataceae - Sagittaria sanfordii
Plants - Vascular	Sagittaria sanfordii	Sanford's arrowhead	PMALI040Q0	None	None	-	1B.2	3812144	Florin	Mapped and Unprocessed	Plants - Vascular - Alismataceae - Sagittaria sanfordii
Plants - Vascular	Sagittaria sanfordii	Sanford's arrowhead	PMALI040Q0	None	None	-	1B.2	3812153	Carmichael	Mapped and Unprocessed	Plants - Vascular - Alismataceae - Sagittaria sanfordii
Plants - Vascular	Sagittaria sanfordii	Sanford's arrowhead	PMALI040Q0	None	None	-	1B.2	3812142	Sloughhouse	Mapped	Plants - Vascular - Alismataceae - Sagittaria sanfordii
Plants - Vascular	Sagittaria sanfordii	Sanford's arrowhead	PMALI040Q0	None	None	-	1B.2	3812143	Elk Grove	Mapped	Plants - Vascular - Alismataceae - Sagittaria sanfordii
Plants - Vascular	Centromadia parryi ssp. rudis	Parry's rough tarplant	PDAST4R0P3	None	None	-	4.2	3812144	Florin	Unprocessed	Plants - Vascular - Asteraceae - Centromadia parryi ssp. rudis
Plants - Vascular	Hesperevax caulescens	hogwallow starfish	PDASTE5020	None	None	-	4.2	3812144	Florin	Unprocessed	Plants - Vascular - Asteraceae - Hesperevax caulescens
Plants - Vascular	Lepidium latipes var. heckardii	Heckard's pepper-grass	PDBRA1M0K1	None	None	-	1B.2	3812144	Florin	Mapped	Plants - Vascular - Brassicaceae - Lepidium latipes var. heckardii
Plants - Vascular	Downingia pusilla	dwarf downingia	PDCAM060C0	None	None	-	2B.2	3812144	Florin	Mapped	Plants - Vascular - Campanulaceae - Downingia pusilla
Plants - Vascular	Downingia pusilla	dwarf downingia	PDCAM060C0	None	None	-	2B.2	3812143	Elk Grove	Mapped	Plants - Vascular - Campanulaceae - Downingia pusilla
Plants - Vascular	Downingia pusilla	dwarf downingia	PDCAM060C0	None	None	-	2B.2	3812164	Rio Linda	Mapped	Plants - Vascular - Campanulaceae - Downingia pusilla

Plants - Vascular	Downingia pusilla	dwarf downingia	PDCAM060C0	None	None	-	2B.2	3812162	Folsom	Mapped	Plants - Vascular - Campanulaceae - Downingia pusilla
Plants - Vascular	Legenere limosa	legenere	PDCAM0C010	None	None	-	1B.1	3812164	Rio Linda	Mapped	Plants - Vascular - Campanulaceae - Legenere limosa
Plants - Vascular	Legenere limosa	legenere	PDCAM0C010	None	None	-	1B.1	3812143	Elk Grove	Mapped	Plants - Vascular - Campanulaceae - Legenere limosa
Plants - Vascular	Legenere limosa	legenere	PDCAM0C010	None	None	-	1B.1	3812142	Sloughhouse	Mapped	Plants - Vascular - Campanulaceae - Legenere limosa
Plants - Vascular	Legenere limosa	legenere	PDCAM0C010	None	None	-	1B.1	3812144	Florin	Mapped	Plants - Vascular - Campanulaceae - Legenere limosa
Plants - Vascular	Legenere limosa	legenere	PDCAM0C010	None	None	-	1B.1	3812152	Buffalo Creek	Mapped and Unprocessed	Plants - Vascular - Campanulaceae - Legenere limosa
Plants - Vascular	Legenere limosa	legenere	PDCAM0C010	None	None	-	1B.1	3812153	Carmichael	Mapped	Plants - Vascular - Campanulaceae - Legenere limosa
Plants - Vascular	Cuscuta obtusiflora var. glandulosa	Peruvian dodder	PDCUS01111	None	None	-	2B.2	3812144	Florin	Mapped	Plants - Vascular - Cuscutaceae - Cuscuta obtusiflora var. glandulosa
Plants - Vascular	Trifolium hydrophilum	saline clover	PDFAB400R5	None	None	-	1B.2	3812144	Florin	Mapped	Plants - Vascular - Fabaceae - Trifolium hydrophilum
Plants - Vascular	Juglans hindsii	Northern California black walnut	PDJUG02040	None	None	-	1B.1	3812144	Florin	Mapped	Plants - Vascular - Juglandaceae - Juglans hindsii
Plants - Vascular	Juncus leiospermus var. ahartii	Ahart's dwarf rush	PMJUN011L1	None	None	-	1B.2	3812153	Carmichael	Mapped	Plants - Vascular - Juncaceae - Juncus leiospermus var. ahartii
Plants - Vascular	Juncus leiospermus var. ahartii	Ahart's dwarf rush	PMJUN011L1	None	None	-	1B.2	3812152	Buffalo Creek	Mapped	Plants - Vascular - Juncaceae - Juncus leiospermus var. ahartii
Plants - Vascular	Fritillaria agrestis	stinkbells	PMLIL0V010	None	None	-	4.2	3812142	Sloughhouse	Unprocessed	Plants - Vascular - Liliaceae - Fritillaria agrestis
Plants - Vascular	Fritillaria agrestis	stinkbells	PMLIL0V010	None	None	-	4.2	3812164	Rio Linda	Mapped and Unprocessed	Plants - Vascular - Liliaceae - Fritillaria agrestis
Plants - Vascular	Fritillaria agrestis	stinkbells	PMLIL0V010	None	None	-	4.2	3812162	Folsom	Unprocessed	Plants - Vascular - Liliaceae - Fritillaria agrestis
Plants - Vascular	Fritillaria agrestis	stinkbells	PMLIL0V010	None	None	-	4.2	3812163	Citrus Heights	Mapped and Unprocessed	Plants - Vascular - Liliaceae - Fritillaria agrestis
Plants - Vascular	Fritillaria agrestis	stinkbells	PMLIL0V010	None	None	-	4.2	3812154	Sacramento East	Unprocessed	Plants - Vascular - Liliaceae - Fritillaria agrestis
Plants - Vascular	Hibiscus lasiocarpus var. occidentalis	woolly rose-mallow	PDMAL0H0R3	None	None	-	1B.2	3812144	Florin	Mapped	Plants - Vascular - Malvaceae - Hibiscus lasiocarpus var. occidentalis
Plants - Vascular	Clarkia biloba ssp. brandegeae	Brandegee's clarkia	PDONA05053	None	None	-	4.2	3812162	Folsom	Mapped and Unprocessed	Plants - Vascular - Onagraceae - Clarkia biloba ssp. brandegeae
Plants - Vascular	Gratiola heterosepala	Boggs Lake hedge-hyssop	PDSCR0R060	None	Endangered	-	1B.2	3812164	Rio Linda	Mapped	Plants - Vascular - Plantaginaceae - Gratiola heterosepala
Plants - Vascular	Gratiola heterosepala	Boggs Lake hedge-hyssop	PDSCR0R060	None	Endangered	-	1B.2	3812152	Buffalo Creek	Mapped	Plants - Vascular - Plantaginaceae - Gratiola heterosepala

Plants - Vascular	<i>Gratiola heterosepala</i>	Boggs Lake hedge-hyssop	PDSCR0R060	None	Endangered	-	1B.2	3812153	Carmichael	Mapped	Plants - Vascular - Plantaginaceae - <i>Gratiola heterosepala</i>
Plants - Vascular	<i>Gratiola heterosepala</i>	Boggs Lake hedge-hyssop	PDSCR0R060	None	Endangered	-	1B.2	3812142	Sloughhouse	Mapped	Plants - Vascular - Plantaginaceae - <i>Gratiola heterosepala</i>
Plants - Vascular	<i>Gratiola heterosepala</i>	Boggs Lake hedge-hyssop	PDSCR0R060	None	Endangered	-	1B.2	3812143	Elk Grove	Mapped	Plants - Vascular - Plantaginaceae - <i>Gratiola heterosepala</i>
Plants - Vascular	<i>Orcuttia tenuis</i>	slender Orcutt grass	PMPOA4G050	Threatened	Endangered	-	1B.1	3812143	Elk Grove	Mapped	Plants - Vascular - Poaceae - <i>Orcuttia tenuis</i>
Plants - Vascular	<i>Orcuttia tenuis</i>	slender Orcutt grass	PMPOA4G050	Threatened	Endangered	-	1B.1	3812152	Buffalo Creek	Mapped	Plants - Vascular - Poaceae - <i>Orcuttia tenuis</i>
Plants - Vascular	<i>Orcuttia viscida</i>	Sacramento Orcutt grass	PMPOA4G070	Endangered	Endangered	-	1B.1	3812152	Buffalo Creek	Mapped	Plants - Vascular - Poaceae - <i>Orcuttia viscida</i>
Plants - Vascular	<i>Orcuttia viscida</i>	Sacramento Orcutt grass	PMPOA4G070	Endangered	Endangered	-	1B.1	3812153	Carmichael	Mapped	Plants - Vascular - Poaceae - <i>Orcuttia viscida</i>
Plants - Vascular	<i>Orcuttia viscida</i>	Sacramento Orcutt grass	PMPOA4G070	Endangered	Endangered	-	1B.1	3812143	Elk Grove	Mapped	Plants - Vascular - Poaceae - <i>Orcuttia viscida</i>
Plants - Vascular	<i>Orcuttia viscida</i>	Sacramento Orcutt grass	PMPOA4G070	Endangered	Endangered	-	1B.1	3812162	Folsom	Mapped	Plants - Vascular - Poaceae - <i>Orcuttia viscida</i>
Plants - Vascular	<i>Navarretia eriocephala</i>	hoary navarretia	PDPLM0C060	None	None	-	4.3	3812143	Elk Grove	Unprocessed	Plants - Vascular - Polemoniaceae - <i>Navarretia eriocephala</i>
Plants - Vascular	<i>Navarretia myersii</i> ssp. <i>myersii</i>	pincushion navarretia	PDPLM0C0X1	None	None	-	1B.1	3812162	Folsom	Mapped and Unprocessed	Plants - Vascular - Polemoniaceae - <i>Navarretia myersii</i> ssp. <i>myersii</i>

CNPS *California Native Plant* Rare and Endangered Plant Inventory

Plant List

25 matches found. *Click on scientific name for details*

Search Criteria

Found in 9 Quads around 38121E2

Scientific Name	Common Name	Family	Lifeform	Rare Plant Rank	State Rank	Global Rank
Arctostaphylos myrtifolia	lone manzanita	Ericaceae	perennial evergreen shrub	1B.2	S2	G2
Calandrinia breweri	Brewer's calandrinia	Montiaceae	annual herb	4.2	S34	G4
Ceanothus roderickii	Pine Hill ceanothus	Rhamnaceae	perennial evergreen shrub	1B.1	S1	G1
Chlorogalum grandiflorum	Red Hills soaproot	Agavaceae	perennial bulbiferous herb	1B.2	S2	G2
Clarkia biloba ssp. brandegeae	Brandegee's clarkia	Onagraceae	annual herb	4.2	S4	G4G5T4
Crocanthemum suffrutescens	Bisbee Peak rush-rose	Cistaceae	perennial evergreen shrub	3.2	S2	G2Q
Downingia pusilla	dwarf downingia	Campanulaceae	annual herb	2B.2	S2	GU
Eriogonum apricum var. apricum	lone buckwheat	Polygonaceae	perennial herb	1B.1	S1	G2T1
Eriogonum apricum var. prostratum	Irish Hill buckwheat	Polygonaceae	perennial herb	1B.1	S1	G2T1
Eriophyllum jepsonii	Jepson's woolly sunflower	Asteraceae	perennial herb	4.3	S3	G3
Eryngium pinnatisectum	Tuolumne button-celery	Apiaceae	annual / perennial herb	1B.2	S2	G2
Fremontodendron decumbens	Pine Hill flannelbush	Malvaceae	perennial evergreen shrub	1B.2	S1	G1
Fritillaria agrestis	stinkbells	Liliaceae	perennial bulbiferous herb	4.2	S3	G3
Galium californicum ssp. sierrae	El Dorado bedstraw	Rubiaceae	perennial herb	1B.2	S1	G5T1
Gratiola heterosepala	Boggs Lake hedge-hyssop	Plantaginaceae	annual herb	1B.2	S2	G2
Horkelia parryi	Parry's horkelia	Rosaceae	perennial herb	1B.2	S2	G2
Juncus leiospermus var. ahartii	Ahart's dwarf rush	Juncaceae	annual herb	1B.2	S1	G2T1
Legenere limosa	legenere	Campanulaceae	annual herb	1B.1	S2	G2
Navarretia eriocephala	hoary navarretia	Polemoniaceae	annual herb	4.3	S4	G4
Navarretia myersii ssp. myersii	pincushion navarretia	Polemoniaceae	annual herb	1B.1	S1	G1T1

Orcuttia tenuis	slender Orcutt grass	Poaceae	annual herb	1B.1	S2	G2
Orcuttia viscida	Sacramento Orcutt grass	Poaceae	annual herb	1B.1	S1	G1
Packera layneae	Layne's ragwort	Asteraceae	perennial herb	1B.2	S2	G2
Sagittaria sanfordii	Sanford's arrowhead	Alismataceae	perennial rhizomatous herb	1B.2	S3	G3
Wyethia reticulata	El Dorado County mule ears	Asteraceae	perennial herb	1B.2	S2	G2

Suggested Citation

CNPS, Rare Plant Program. 2015. Inventory of Rare and Endangered Plants (online edition, v8-02). California Native Plant Society, Sacramento, CA. Website <http://www.rareplants.cnps.org> [accessed 24 June 2015].

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CNPS *California Native Plant* Rare and Endangered Plant Inventory

Plant List

18 matches found. *Click on scientific name for details*

Search Criteria

Found in 9 Quads around 38121E3

Scientific Name	Common Name	Family	Lifeform	Rare Plant Rank	State Rank	Global Rank
<u>Centromadia parryi ssp. rudis</u>	Parry's rough tarplant	Asteraceae	annual herb	4.2	S3	G3T3
<u>Clarkia biloba ssp. brandegeae</u>	Brandegee's clarkia	Onagraceae	annual herb	4.2	S4	G4G5T4
<u>Cuscuta obtusiflora var. glandulosa</u>	Peruvian dodder	Convolvulaceae	annual vine (parasitic)	2B.2	SH	G5T4T5
<u>Downingia pusilla</u>	dwarf downingia	Campanulaceae	annual herb	2B.2	S2	GU
<u>Fritillaria agrestis</u>	stinkbells	Liliaceae	perennial bulbiferous herb	4.2	S3	G3
<u>Gratiola heterosepala</u>	Boggs Lake hedge-hyssop	Plantaginaceae	annual herb	1B.2	S2	G2
<u>Hesperervax caulescens</u>	hogwallow starfish	Asteraceae	annual herb	4.2	S3	G3
<u>Hibiscus lasiocarpus var. occidentalis</u>	woolly rose-mallow	Malvaceae	perennial rhizomatous herb	1B.2	S2	G5T2
<u>Juglans hindsii</u>	Northern California black walnut	Juglandaceae	perennial deciduous tree	1B.1	S1	G1
<u>Juncus leiospermus var. ahartii</u>	Ahart's dwarf rush	Juncaceae	annual herb	1B.2	S1	G2T1
<u>Legenere limosa</u>	legenere	Campanulaceae	annual herb	1B.1	S2	G2
<u>Lepidium latipes var. heckardii</u>	Heckard's pepper-grass	Brassicaceae	annual herb	1B.2	S2	G4T2
<u>Navarretia eriocephala</u>	hoary navarretia	Polemoniaceae	annual herb	4.3	S4	G4
<u>Navarretia myersii ssp. myersii</u>	pincushion navarretia	Polemoniaceae	annual herb	1B.1	S1	G1T1
<u>Orcuttia tenuis</u>	slender Orcutt grass	Poaceae	annual herb	1B.1	S2	G2
<u>Orcuttia viscida</u>	Sacramento Orcutt grass	Poaceae	annual herb	1B.1	S1	G1
<u>Sagittaria sanfordii</u>	Sanford's arrowhead	Alismataceae	perennial rhizomatous herb	1B.2	S3	G3
<u>Trifolium hydrophilum</u>	saline clover	Fabaceae	annual herb	1B.2	S2	G2

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US Fish & Wildlife Service

IPaC Trust Resource Report



Project Description

NAME

My project

PROJECT CODE

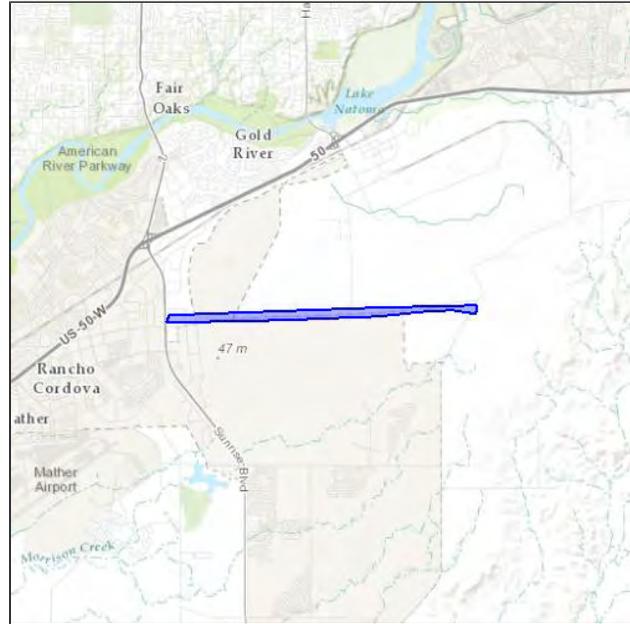
ME7AW-YULWR-GKFES-3QW5A-ZB4RUE

LOCATION

Sacramento County, California

DESCRIPTION

No description provided



U.S. Fish & Wildlife Contact Information

Species in this report are managed by:

Sacramento Fish And Wildlife Office

Federal Building

2800 COTTAGE WAY, ROOM W-2605

Sacramento, CA 95825-1846

(916) 414-6600

Endangered Species

Proposed, candidate, threatened, and endangered species that are managed by the [Endangered Species Program](#) and should be considered as part of an effect analysis for this project.

This unofficial species list is for informational purposes only and does not fulfill the requirements under [Section 7](#) of the Endangered Species Act, which states that Federal agencies are required to "request of the Secretary of Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action." This requirement applies to projects which are conducted, permitted or licensed by any Federal agency.

A letter from the local office and a species list which fulfills this requirement can be obtained by returning to this project on the IPaC website and requesting an official species list on the Regulatory Documents page.

Amphibians

California Red-legged Frog *Rana draytonii* Threatened

CRITICAL HABITAT

There is **final** critical habitat designated for this species.

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=D02D>

California Tiger Salamander *Ambystoma californiense* Threatened

CRITICAL HABITAT

There is **final** critical habitat designated for this species.

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=D01T>

Crustaceans

Conservancy Fairy Shrimp *Branchinecta conservatio* Endangered

CRITICAL HABITAT

There is **final** critical habitat designated for this species.

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=K03D>

Vernal Pool Fairy Shrimp *Branchinecta lynchi* Threatened

CRITICAL HABITAT

There is **final** critical habitat designated for this species.

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=K03G>

Vernal Pool Tadpole Shrimp *Lepidurus packardii* Endangered

CRITICAL HABITAT

There is **final** critical habitat designated for this species.

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=K048>

Fishes

Delta Smelt *Hypomesus transpacificus* Threatened

CRITICAL HABITAT

There is **final** critical habitat designated for this species.

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=E070>

Steelhead *Oncorhynchus (=Salmo) mykiss* Threatened

CRITICAL HABITAT

There is **final** critical habitat designated for this species.

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=E08D>

Flowering Plants

Sacramento Orcutt Grass *Orcuttia viscida* Endangered

CRITICAL HABITAT

There is **final** critical habitat designated for this species.

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=Q1ZQ>

Slender Orcutt Grass *Orcuttia tenuis* Threatened

CRITICAL HABITAT

There is **final** critical habitat designated for this species.

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=Q1AZ>

Insects

Valley Elderberry Longhorn Beetle *Desmocerus californicus dimorphus* Threatened

CRITICAL HABITAT

There is **final** critical habitat designated for this species.

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=I01L>

Reptiles

Giant Garter Snake *Thamnophis gigas* Threatened

CRITICAL HABITAT

No critical habitat has been designated for this species.

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=C057>

Critical Habitats

Potential effects to critical habitat(s) within the project area must be analyzed along with the endangered species themselves.

There is no critical habitat within this project area

Migratory Birds

Birds are protected by the [Migratory Bird Treaty Act](#) and the [Bald and Golden Eagle Protection Act](#).

Any activity which results in the take of migratory birds or eagles is prohibited unless authorized by the U.S. Fish and Wildlife Service (1). There are no provisions for allowing the take of migratory birds that are unintentionally killed or injured.

You are responsible for complying with the appropriate regulations for the protection of birds as part of this project. This involves analyzing potential impacts and implementing appropriate conservation measures for all project activities.

<p>Bald Eagle <i>Haliaeetus leucocephalus</i> Year-round https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B008</p>	Bird of conservation concern
<p>Black Rail <i>Laterallus jamaicensis</i> Season: Breeding https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B09A</p>	Bird of conservation concern
<p>Burrowing Owl <i>Athene cunicularia</i> Year-round https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0NC</p>	Bird of conservation concern
<p>Fox Sparrow <i>Passerella iliaca</i> Year-round</p>	Bird of conservation concern
<p>Lewis's Woodpecker <i>Melanerpes lewis</i> Season: Wintering https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0HQ</p>	Bird of conservation concern
<p>Loggerhead Shrike <i>Lanius ludovicianus</i> Year-round https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0FY</p>	Bird of conservation concern
<p>Long-billed Curlew <i>Numenius americanus</i> Season: Wintering https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B06S</p>	Bird of conservation concern
<p>Marbled Godwit <i>Limosa fedoa</i> Season: Wintering https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0JL</p>	Bird of conservation concern
<p>Mountain Plover <i>Charadrius montanus</i> Season: Wintering https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B078</p>	Bird of conservation concern
<p>Nuttall's Woodpecker <i>Picoides nuttallii</i> Year-round https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0HT</p>	Bird of conservation concern

Oak Titmouse <i>Baeolophus inornatus</i> Year-round https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0MJ	Bird of conservation concern
Peregrine Falcon <i>Falco peregrinus</i> Season: Wintering https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0FU	Bird of conservation concern
Short-eared Owl <i>Asio flammeus</i> Season: Wintering https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0HD	Bird of conservation concern
Snowy Plover <i>Charadrius alexandrinus</i> Season: Breeding	Bird of conservation concern
Swainson's Hawk <i>Buteo swainsoni</i> Season: Breeding https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B070	Bird of conservation concern
Tricolored Blackbird <i>Agelaius tricolor</i> Year-round https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B06P	Bird of conservation concern
Western Grebe <i>aechmophorus occidentalis</i> Year-round https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0EA	Bird of conservation concern
Williamson's Sapsucker <i>Sphyrapicus thyroideus</i> Year-round https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0FX	Bird of conservation concern
Yellow-billed Magpie <i>Pica nuttalli</i> Year-round https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0N8	Bird of conservation concern

Refuges

Any activity proposed on [National Wildlife Refuge](#) lands must undergo a 'Compatibility Determination' conducted by the Refuge. If your project overlaps or otherwise impacts a Refuge, please contact that Refuge to discuss the authorization process.

There are no refuges within this project area

Wetlands

Impacts to [NWI wetlands](#) and other aquatic habitats from your project may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal Statutes.

Project proponents should discuss the relationship of these requirements to their project with the Regulatory Program of the appropriate [U.S. Army Corps of Engineers District](#).

DATA LIMITATIONS

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

DATA EXCLUSIONS

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

DATA PRECAUTIONS

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

Freshwater Emergent Wetland

PEMAx	9.47 acres
PEMFx	1.45 acres
PEMCx	0.335 acre

Freshwater Forested/shrub Wetland

PSSAx	3.46 acres
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Other

PUSAx	4.1 acres
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United States Department of the Interior



In Reply Refer to:
08ESMF00-
2013 F 0444 2

FISH AND WILDLIFE SERVICE
Sacramento Fish and Wildlife Office
2800 Cottage Way, Suite W-2605
Sacramento, California 95825-1846

JAN 26 2015

Ms. Susan D. Bauer
Chief, Environmental Management, M-1 Branch
California Department of Transportation, District 3
703 B Street
Marysville, California 95901-0911

Subject: Formal Consultation on the White Rock Road Improvements Project, Sacramento County, California (Caltrans Fed. ID# STPLCM-5482 [013])

Dear Ms. Bauer:

This letter is in response to the California Department of Transportation's (Caltrans), February 13, 2014, request for initiation of formal consultation with the U.S. Fish and Wildlife Service (Service) on the proposed White Rock Road Improvements Project (proposed project), in Sacramento County, California. Your request, which included the January 2014, *White Rock Road Improvements Biological Assessment* (biological assessment), was received by the Service on February 14, 2014. The Service requested additional information in order for consultation to be initiated in a February 28, 2014, letter. Your September 24, 2014, letter, including the additional information requested, was received in our office September 26, 2014. The biological assessment presents an evaluation of the proposed project's effects on species federally-listed under the Endangered Species Act of 1973, as amended (16 U.S.C. 1531 et seq.) (Act).

The federal action we are consulting on is the widening and improvement of White Rock Road from Sunrise Boulevard to Grant Line Road by the city of Rancho Cordova and Sacramento County (applicants) in coordination with Caltrans and the Federal Highway Administration (FHWA). The proposed project is receiving federal funding through FHWA and Caltrans has assumed FHWA's responsibilities under the Act for this consultation in accordance with Section 1313, Surface Transportation Project Delivery Program, of the Moving Ahead for Progress in the 21st Century Act (MAP-21) of 2012. The MAP-21 is described in the National Environmental Policy Act assignment Memorandum of Understanding between FHWA and Caltrans (effective October 1, 2012) and codified in 23 U.S.C. 327. This response is provided under the authority of the Act, and in accordance with the implementing regulations pertaining to interagency cooperation (50 CFR 402).

The findings presented in the biological assessment conclude that the proposed project may affect, and is likely to adversely affect the federally-listed as threatened valley elderberry longhorn beetle (*Desmocerus californicus dimorphus*) (beetle) and vernal pool fairy shrimp (*Branchinecta lynchi*) (fairy

shrimp) and the federally-listed as endangered vernal pool tadpole shrimp (*Lepidurus packardii*) (tadpole shrimp). The proposed project is not within designated or proposed critical habitat for any federally-listed species.

The Service concurs with your findings that the proposed project may affect, and is likely to adversely affect the beetle, the fairy shrimp, and the tadpole shrimp. The proposed project reaches the 'may affect' level, and the subsequent requirement for a biological assessment, due to the fact that the proposed project will occur within the known range for the beetle, the fairy shrimp, and the tadpole shrimp, suitable habitat for the species occurs within the action area, and the species are reasonably likely to be present in the action area. Therefore, this document provides our biological opinion on the effects of the proposed project on the beetle, the fairy shrimp, and the tadpole shrimp.

We based our evaluation of the biological assessment's findings on the following: (1) your February 13, 2014, letter initiating consultation and the January 2014, *White Rock Road Improvements Biological Assessment*, prepared by PMC (consultant); (2) the June 18, 2014, letter prepared by Caltrans, providing additional information; (3) the September 24, 2014, letter prepared by Caltrans, providing clarifying information; (4) email and telephone correspondence between the Service, Caltrans, and the consultant; and (5) other information available to the Service.

Consultation History

- August 21, 2012* Representatives from the Service, Caltrans, and the applicants attended a meeting to discuss the proposed project and environmental documents.
- February 14, 2014* The Service received the February 13, 2014, letter from Caltrans requesting initiation of formal consultation with the biological assessment enclosed.
- March 19, 2014* A site visit was conducted by representatives from the Service, Caltrans, and the consultant.
- June 20, 2014* The Service received the June 18, 2014, letter from Caltrans providing additional information requested on February 29, 2014.
- July 21, 2014* The Service received an email from the consultant providing additional information requested on a July 2, 2014, telephone call.
- September 26, 2014* The Service received a September 24, 2014, letter from Caltrans providing clarification requested on an August 5, 2014, telephone call. This date also confirms the receipt of all of the complete information in order for consultation to begin.

BIOLOGICAL OPINION

Description of the Proposed Action

The proposed project is located along White Rock Road, between Sunrise Boulevard and Grant Line Road, along the border of the city of Rancho Cordova (city) and Sacramento County (county). The

proposed project will widen the existing primarily two-lane White Rock Road to include four lanes with a 14-foot wide median, two 6-foot wide bicycle lanes, and two 3-foot wide shoulders. Cut and fill work will be required outside the existing roadway footprint, but will only be to a depth of a few feet below the existing roadway. Roadside ditches will be constructed to collect storm drainage along the length of the roadway.

Elderberry Shrub Impacts

The proposed project area contains 108 elderberry shrubs (*Sambucus* sp.), the sole host plant for the beetle, with at least one stem one inch or greater at ground level. Eight of the shrubs are beyond 100 feet from the proposed construction limits. Twenty of the shrubs are located between 20 and 100 feet of construction activities. The remaining 80 shrubs are within the construction footprint and will be removed and transplanted to a Service-approved beetle conservation bank.

Caltrans is proposing to minimize these effects by transplanting, as described in *Conservation Guidelines for the Valley Elderberry Longhorn Beetle* (Guidelines) (Service 1999). The applicants propose to compensate for the 80 shrubs removed as described in Table 1 below.

Table 1: Compensation Ratios for Affected Elderberry Shrubs

Riparian	Elderberry Stem Size	Exit Holes	Number of Stems	Seedling Ratio	Number of Replacement Elderberries	Associated Native Ratio	Number of Associated Seedlings
No	>1" and <3"	No	198	1:1	198	1:1	198
No	>3" and <5"	No	184	2:1	368	1:1	368
No	>5"	No	67	3:1	201	1:1	201
No	>1" and <3"	Yes	0	2:1	0	2:1	0
No	>3" and <5"	Yes	1	4:1	4	2:1	8
No	>5"	Yes	1	6:1	6	2:1	12
Total Stems Affected			451				
Total Replacement Plantings					777		787
Conservation Credits Proposed for Plantings (total replacement plantings/10)						157	
Note: This information is summarized from Tables 4 and 6 in the biological assessment.							

Caltrans' standard Best Management Practices (BMPs; Caltrans 2003) will be implemented throughout the proposed project area for the duration of construction, including erosion and sediment control. In addition, the applicants have proposed the following measures to avoid effects to the remaining shrubs. The measures proposed below are considered part of the proposed action evaluated by the Service in this biological opinion.

- Protective fencing will be installed between the shrubs identified for preservation and the construction area limits to prevent accidental disturbance during construction. Shrub areas that will not be disturbed will be fenced and designated as avoidance areas. Fencing will be set back a minimum of 20 feet from the dripline of each elderberry shrub not within the construction footprint;

- Signs shall be erected along the edge of elderberry avoidance areas noticing construction crews that the area is beetle habitat and must not be disturbed. These signs shall remain for the duration of construction; and
- A Worker Environmental Awareness Program shall be implemented to educate construction workers about the presence of beetle habitat in and near the project area and to instruct them on proper avoidance.

Vernal Pool Wetland Impacts

A total of 4,476 acres of wetland features are present in the vicinity of the proposed project. Of this, 1,617 acres are not considered habitat for the fairy shrimp or the tadpole shrimp because they consist of depressions in historic mine tailings that pond water, but not long enough to support the life cycles of the fairy shrimp or the tadpole shrimp. The remaining 2,859 acres provide suitable habitat for the fairy shrimp and the tadpole shrimp. The applicants have determined that 0.615 acres of this habitat will be filled and 1.068 acres will be indirectly affected. The applicants have proposed to offset the loss of the 1.693 acre (0.615 direct, 1.068 indirect, and 0.010 direct non-habitat) of vernal pool wetlands that are considered suitable habitat for the fairy shrimp and the tadpole shrimp by purchasing 3.991 acres of fairy shrimp and tadpole shrimp habitat credits at a Service-approved conservation bank(s) with a service area covering the proposed project.

The applicants have proposed the following avoidance and minimization measures to minimize effects to the vernal pool wetlands. The avoidance and minimization measures proposed below are considered part of the proposed action evaluated by the Service in this biological opinion.

- Prior to groundbreaking, the applicants propose to purchase fairy shrimp and tadpole shrimp habitat credits at a 3:1 ratio for direct impacts ($0.615 \times 3 = 1.845$ acres), 2:1 ratio for indirect impacts ($1.068 \times 2 = 2.136$ acres), and 1:1 ratio for direct impacts to non-habitat (0.010 acre) at a Service-approved conservation bank(s) that has a service area that covers the proposed project. The credits purchased may be in a combination of creation and preservation credits; however, no more than 0.625 acre of creation credits may be purchased for the minimization of the total direct impacts. The credits may be purchased in no more than two phases, with each applicant purchasing the total required for their portion of the proposed project;
- Soil stabilization and sediment control BMPs shall be implemented to ensure contamination of vernal pool wetlands by sediment and other pollutants does not occur. Waste management and material pollution control BMPs shall also be implemented to minimize the potential for pollutant spill or releases from construction equipment; and
- Standard staging area practices for sediment-tracking reduction will be implemented where necessary, and may include vehicle-washing and street-sweeping.

Action Area

The action area is defined in 50 CFR §402.02 as, “all areas to be affected directly or indirectly by the federal action and not merely the immediate area involved in the action.” For the proposed project, the Service considers the action area to include the construction footprint, as well as any areas used for access and staging. The action area also includes all areas up to 165 feet from the construction footprint in which noise from construction activities is expected to exceed ambient levels.

Analytical Framework for the Jeopardy Analysis

In accordance with policy and regulation, the jeopardy analysis in this biological opinion relies on four components: (1) the *Status of the Species*, which evaluates the beetle's, the fairy shrimp's, and the tadpole shrimp's range-wide condition, the factors responsible for that condition, and their survival and recovery needs; (2) the *Environmental Baseline*, which evaluates the condition of the beetle, the fairy shrimp, and the tadpole shrimp in the action area, the factors responsible for that condition, and the relationship of the action area to the survival and recovery of the beetle, the fairy shrimp, and the tadpole shrimp; (3) the *Effects of the Action*, which determines the direct and indirect effects of the proposed federal action and the effects of any interrelated or interdependent activities on the beetle, the fairy shrimp, and the tadpole shrimp; and (4) the *Cumulative Effects*, which evaluates the effects of future, non-federal activities in the action area on the beetle, the fairy shrimp, and the tadpole shrimp.

In accordance with policy and regulation, the jeopardy determination is made by evaluating the effects of the proposed federal action in the context of the beetle's, the fairy shrimp's, and the tadpole shrimp's current status, taking into account any cumulative effects, to determine if implementation of the proposed action is likely to cause an appreciable reduction in the likelihood of recovery of the beetle, the fairy shrimp, or the tadpole shrimp in the wild.

The jeopardy analysis in this biological opinion places an emphasis on consideration of the range-wide survival and recovery needs of the beetle, the fairy shrimp, and the tadpole shrimp and the role of the action area in the survival and recovery of the beetle, the fairy shrimp, and the tadpole shrimp as the context for evaluating the significance of the effects of the proposed federal action, taken together with cumulative effects, for purposes of making the jeopardy determination.

Status of the Species

Valley Elderberry Longhorn Beetle

For the most recent comprehensive assessment of the range-wide status of the beetle, please refer to the *Withdrawal of the Proposed Rule To Remove the Valley Elderberry Longhorn Beetle From the Federal List of Endangered and Threatened Wildlife* (Service 2014). Threats discussed in the withdrawal continue to act on the beetle, with loss of habitat being the most significant effect. While there continue to be losses of beetle habitat throughout its range, to date no project has proposed a level of effect for which the Service has issued a biological opinion of jeopardy for the beetle.

Vernal Pool Fairy Shrimp and Vernal Pool Tadpole Shrimp

The status of the fairy shrimp and the tadpole shrimp have been assessed in the *Recovery Plan for Vernal Pool Ecosystems of California and Southern Oregon* (Service 2005) (Recovery Plan) and 5-year reviews. For the most recent comprehensive assessment of the range-wide status of the fairy shrimp, please refer to the *Vernal Pool Fairy Shrimp (Branchinecta lynchi) 5-Year Review: Summary and Evaluation* (Service 2007a). For the most recent comprehensive assessment of the range-wide status of the tadpole shrimp, please refer to the *Vernal Pool Tadpole Shrimp (Lepidurus packardii) 5-Year Review: Summary and Evaluation* (Service 2007b).

No change in either species' listing status was recommended in the 5-year reviews. Threats such as the loss of vernal pool habitat primarily due to widespread urbanization were evaluated during the reviews and discussed in the final documents and have continued to act on the fairy shrimp and tadpole shrimp since the 2007 5-year reviews were finalized. The construction of infrastructure associated with urbanization also has contributed greatly to the loss and fragmentation of vernal pool species including the construction of roads. Habitat loss exacerbates the highly fragmented distribution of these species. Direct losses of habitat generally represent an irreversible damage to vernal pools. The alteration and destruction of habitat disrupts the physical processes conducive to functional vernal pool ecosystems. Vernal pool hydrology may be altered by further changes to the patterns of surface and subsurface flow due to the increase in the runoff associated with infrastructure.

While there have been continued losses of vernal pool habitat throughout the various vernal pool regions identified in the Recovery Plan, including the Southeastern Sacramento Valley Vernal Pool Region where the proposed project is located, to date no project has proposed a level of effect for which the Service has issued a biological opinion of jeopardy for either species. The Service is in the process of finalizing its most current 5-year reviews for both the fairy shrimp and the tadpole shrimp.

Environmental Baseline

Portions of the action area have undergone previous consultations with the Service for effects on the beetle, the fairy shrimp, and the tadpole shrimp. A small portion of the action area north of White Rock Road within the city limits overlaps the action area of the Rancho Cordova Parkway (Service File Number 08ESMF00-2011-F-0889-2), which has not yet begun construction. The area south of White Rock Road, from the edge of development just east of Luyung Road to the city limits is within the action area of the Rio del Oro Specific Plan (Service File Number 81420-2010-F-0891-1). To date, construction has not begun on the portion of the action area that overlaps that of the proposed project. The eastern end of the proposed project's action area is within the action area of the White Rock Road Widening Project (Service File Numbers 81420-2008-F-0685 and 81420-2008-F-0685-R001), which has been completed.

Valley Elderberry Longhorn Beetle

The 108 elderberry shrubs in the proposed project's action area represent a small proportion of shrubs throughout the full range of the beetle. The closest known occurrences of the beetle in the California Natural Diversity Database (CNDDB) are just under two miles from the action area, along U.S. Highway 50 (CNDDB 2014). Two exit holes were located on the stems of elderberry

shrubs during surveys for the proposed project. The elderberry shrubs within the proposed project's action area are in close proximity to White Rock Road and are therefore already regularly exposed to dust and other particulates. One elderberry shrub is also in the action area for the Rancho Cordova Parkway, but would not be adversely affected by that project due to proposed avoidance and minimization measures. A number of elderberry shrubs are present in the overlapping action area with the Rio del Oro Specific Plan; however, there is no overlap in the shrubs that will be directly affected by each project. No elderberry shrubs are present within the portion of the proposed project's action area that overlaps that of the previous White Rock Road Widening Project.

Vernal Pool Fairy Shrimp and Vernal Pool Tadpole Shrimp

The action area is located in the Southeastern Sacramento Valley Vernal Pool Region, as described in the Recovery Plan. Core areas within each Vernal Pool Region have been identified. These core areas support high concentrations of vernal pool species, are representative of a given species range, and are where recovery actions are focused. The eastern tip of the action area for the proposed project is located within the Mather Core Recovery Area. The Mather Core Recovery Area was given a Zone 1 ranking in the Recovery Plan which outlines actions necessary to protect 95% of suitable habitat throughout the core area. The portion of the proposed project's action area within the Mather Core Recovery Area represents less than 1% of the total 24,335-acre area encompassed by the full core area.

Formal surveys for the fairy shrimp and the tadpole shrimp were not conducted within the action area; however, there are numerous occurrences of the fairy shrimp and the tadpole shrimp in the CNDDDB in the vicinity of the action area (CNDDDB 2014). The closest known occurrences of both the fairy shrimp and the tadpole shrimp are immediately east of the action area, just across Grant Line Road.

No vernal pool habitat is present within the portion of the proposed project's action area that overlaps that of the Rancho Cordova Parkway. Ten wetland features are present in the portion of the action area that overlaps that of the Rio del Oro Specific Plan; however, construction has not started in this portion, and the features are still present. A number of wetland features within the White Rock Road Widening Project portion of the action area have been previously filled or may have been indirectly affected due to the completed project. Since completion of the White Rock Road Widening Project, the wetland mapping has been updated; therefore, this consultation evaluates current conditions observed post-construction.

Effects of the Proposed Action

Valley Elderberry Longhorn Beetle

Twenty of the elderberry shrubs in the action area are not likely to be adversely affected based on the avoidance and minimization measures proposed by the applicants. The remaining 80 elderberry shrubs with 451 stems one inch or greater in diameter at ground level will be removed and transplanted. Any beetle larvae occupying the shrubs could be killed when the shrubs are transplanted, since the shrubs may be significantly pruned before transplantation and could experience stress due to changes in soil, hydrology, or microclimate. Mortality of transplanted elderberry shrubs would preclude their future use by the beetle. However, in addition to the

transplanting of shrubs, the compensation proposed by the applicants will provide additional habitat for the beetle that will be protected in perpetuity.

Vernal Pool Fairy Shrimp and Vernal Pool Tadpole Shrimp

The construction of the proposed project will result in direct effects to 0.615 acre of habitat for the fairy shrimp and the tadpole shrimp. The project related activities, such as grading, placement of fill, paving, and the use of earth moving equipment, will result in the loss of fairy shrimp and tadpole shrimp habitat and the death of an unknown number of individuals and cysts. The earthmoving equipment will be moving dirt and filling fairy shrimp and tadpole shrimp habitat during construction activities and will likely crush or destroy the fairy shrimp and tadpole shrimp individuals and cysts, or otherwise prevent the cysts from hatching.

The construction of the proposed project will also result in indirect effects to 1.068 acre of habitat for the fairy shrimp and the tadpole shrimp. Indirect effects are caused by or result from the proposed action, are later in time, and are reasonably certain to occur. The mass grading and ground disturbance associated with the proposed project, in combination with the impervious nature of the paved road, is reasonably likely to impede the surface and subsurface hydrology of the vernal pool landscape located outside the project footprint, leading to the eventual loss of that vernal pool habitat. All fairy shrimp and tadpole shrimp individuals and cysts inhabiting 1.683 total acres (0.615 direct + 1.068 indirect) of habitat for the fairy shrimp and the tadpole shrimp that will be affected as part of the proposed project will be harmed, injured, or killed as a result of the direct and indirect effects from the proposed project.

The effects to the beetle, the fairy shrimp, and the tadpole shrimp are small and discrete, relative to the range of the species, and although the loss of habitat will contribute to the overall reduction of habitat within the range of the beetle and the vernal pool core area, the conservation measures will contribute to the long-term preservation and management of beetle, fairy shrimp, and tadpole shrimp habitat. The proposed project will contribute to the conservation of the beetle, the fairy shrimp, and the tadpole shrimp by preserving habitat at conservation banks that will manage large contiguous sections of habitat for the benefit of the species.

Cumulative Effects

Cumulative effects include the effects of future state, tribal, county, local or private actions that are reasonably certain to occur in the action area considered in this biological opinion. Future federal actions that are unrelated to the proposed action are not considered in this section because they require separate consultation pursuant to section 7 of the Act. A Specific Plan is under development for the Westborough property within the city limits north of the proposed project; however, the Service anticipates that any future proposed projects within the property will undergo section 7 consultation. The Service is not aware of any other future actions reasonably certain to occur in the action area that could result in cumulative effects.

Conclusion

After reviewing the current status of the beetle, the fairy shrimp, and the tadpole shrimp, the environmental baseline for the action area covered in this biological opinion, the effects of the proposed project, the cumulative effects, and the proposed conservation measures, it is the Service's

biological opinion that the White Rock Road Improvements Project, as proposed, is not likely to jeopardize the continued existence of the species. The Service reached this conclusion because the project-related effects to the species, when added to the environmental baseline and analyzed in consideration of the lack of cumulative effects, will not rise to the level of precluding recovery of the species or reducing the likelihood of survival of the species.

INCIDENTAL TAKE STATEMENT

Section 9 of the Act and federal regulation pursuant to section 4(d) of the Act prohibit the take of endangered and threatened species, respectively, without special exemption. Take is defined as to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture or collect, or to attempt to engage in any such conduct. Harass is defined by the Service regulations at 50 CFR 17.3 as an intentional or negligent act or omission which creates the likelihood of injury to wildlife by annoying it to such an extent as to significantly disrupt normal behavior patterns which include, but are not limited to, breeding, feeding, or sheltering. Harm is defined by the same regulations as an act which actually kills or injures wildlife. Harm is further defined to include significant habitat modification or degradation that results in death or injury to listed species by significantly impairing essential behavior patterns, including breeding, feeding, or sheltering. Incidental take is defined as take that is incidental to, and not the purpose of, the carrying out of an otherwise lawful activity. Under the terms of section 7(b)(4) and section 7(o)(2), taking that is incidental to and not intended as part of the agency action is not considered to be prohibited taking under the Act provided that such taking is in compliance with the terms and conditions of this Incidental Take Statement.

The measures described below are non-discretionary, and must be undertaken by Caltrans so that they become binding conditions of any grant or permit issued to the applicants, as appropriate, for the exemption in section 7(o)(2) to apply. Caltrans has a continuing duty to regulate the activity covered by this incidental take statement. If Caltrans (1) fails to assume and implement the terms and conditions or (2) fails to require the applicants to adhere to the terms and conditions of the incidental take statement through enforceable terms that are added to the permits or grant documents, the protective coverage of section 7(o)(2) may lapse. In order to monitor the impact of incidental take, Caltrans must report the progress of the action and its impact on the species to the Service as specified in the incidental take statement. [50 CFR §402.14(i)(3)]

Amount or Extent of Take

The incidental take of the beetle anticipated for this proposed project will result from direct effects to the 80 elderberry shrubs with 451 stems one inch or greater in diameter at ground level that will be transplanted. The life stage affected by this action will be the beetle larvae living within the stems of the elderberry shrubs. The life cycle of the beetle takes one or two years to complete, during which it spends most of its life in the larval stage. Due to the fact that it is not possible to know how many beetle larvae are in the stems of any elderberry shrub, the Service cannot quantify the total number of beetles that we anticipate will be taken as a result of the proposed action. In instances in which the total number of individuals anticipated to be taken cannot be determined, the Service may use the amount of habitat impacted as a surrogate; since the take of individuals anticipated will result from the transplantation of the elderberry shrubs, the quantification of suitable habitat serves as a direct surrogate for the beetles that will be lost. Therefore, the Service anticipates take incidental to this project as the 80 affected elderberry shrubs with 451 stems one inch or greater in diameter at ground level that will be transplanted.

The incidental take of fairy shrimp and tadpole shrimp anticipated for this project will result from the grading and destruction of 0.615 acre of vernal pool habitat on-site. The life stage affected by this action will be the mature fairy shrimp and tadpole shrimp, because work could occur during the time that the wetland features are inundated, and their cysts, which are embedded in the soil of the wetland features. In addition, 1.068 acres of habitat for the fairy shrimp and the tadpole shrimp will be indirectly affected due to the ground disturbance associated with project construction within the project footprint. These effects will result later in time and will affect fairy shrimp and tadpole shrimp cysts by preventing those wetland features from inundating. Due to the fact that it is not possible to know how many individuals are in any wetland feature or cysts are in the soil of any wetland feature, or how many individuals or cysts will occupy any wetland feature later in time, the Service cannot quantify the total number of fairy shrimp or tadpole shrimp individuals or cysts that we anticipate will be taken as a result of the proposed action. In instances in which the total number of cysts and/or individuals anticipated to be taken cannot be determined, the Service may use the acreage of habitat impacted as a surrogate; since the take of cysts and individuals anticipated will result from the destruction or the altered hydrology of the vernal pool habitat, the quantification of habitat acreage serves as a direct surrogate for the fairy shrimp and tadpole shrimp that will be lost. Therefore, the Service anticipates take incidental to this project as the 1.683 acres (0.615 acres direct and 1.068 acres indirect) that will be destroyed and altered by grading activities.

Effect of the Take

The Service has determined that this level of anticipated take is not likely to result in jeopardy to the beetle, the fairy shrimp, or the tadpole shrimp.

Reasonable and Prudent Measure

The Service has determined that the following reasonable and prudent measure is necessary and appropriate to minimize the effects of the proposed project on the beetle, the fairy shrimp, and the tadpole shrimp:

1. All conservation measures proposed in the biological assessment, and as re-stated in the project description section of this biological opinion, must be fully implemented and adhered to. Further, this Reasonable and Prudent Measure shall be supplemented by the Terms and Conditions below.

Terms and Conditions

In order to be exempt from the prohibitions of section 9 of the Act, Caltrans must ensure compliance with the following terms and conditions, which implement the reasonable and prudent measure described above. These terms and conditions are nondiscretionary.

1. Caltrans shall include full implementation and adherence to the conservation measures proposed in the biological assessment and restated in this biological opinion as a condition of any permit or contract issued for the project.
2. In order to monitor whether the amount or extent of incidental take anticipated from implementation of the proposed project is approached, Caltrans shall adhere to the following reporting requirement.

- a. For those components of the action that will result in habitat degradation or modification whereby incidental take in the form of harm will occur, Caltrans will provide weekly updates to the Service with a precise accounting of the total acreage of habitat affected. Updates shall also include any information about changes in project implementation.

CONSERVATION RECOMMENDATIONS

Section 7(a)(1) of the Act directs federal agencies to utilize their authorities to further the purposes of the Act by carrying out conservation programs for the benefit of endangered and threatened species. Conservation recommendations are discretionary agency activities that can be implemented to further the purposes of the Act, such as preservation of endangered species habitat, implementation of recovery actions, or development of information or data bases. The Service is providing the following conservation recommendation:

1. Caltrans should work with the Service to assist us in meeting the goals of the Recovery Plan for the fairy shrimp and the tadpole shrimp as outlined in the *December 2005, Recovery Plan for Vernal Pool Ecosystems of California and Southern Oregon* (Service 2005).

In order for the Service to be kept informed of actions minimizing or avoiding adverse effects or benefiting listed species or their habitats, the Service requests notification of the implementation of any conservation recommendation.

REINITIATION - CLOSING STATEMENT

This concludes formal consultation on the White Rock Road Improvements Project in Sacramento County, California. As provided in 50 CFR §402.16, reinitiation of formal consultation is required where discretionary federal agency involvement or control over the action has been retained or is authorized by law and: (a) if the amount or extent of taking specified in the incidental take statement is exceeded; (b) if new information reveals effects of the action that may affect listed species or critical habitat in a manner or to an extent not previously considered; (c) if the identified action is subsequently modified in a manner that causes an effect to listed species or critical habitat that was not considered in the biological opinion; or (d) if a new species is listed or critical habitat designated that may be affected by the identified action.

If you have questions regarding the White Rock Road Improvements Project, please contact Lily Douglas, Fish and Wildlife Biologist, or Kellie Berry, Chief, Sacramento Valley Division at (916) 414-6600.

Sincerely,



Jennifer M. Norris
Field Supervisor

cc:

Dr. Kathleen A. Dadey, U.S. Army Corps of Engineers, Sacramento, CA

LITERATURE CITED

- California Natural Diversity Database (CNDDDB). 2014. Biogeographic Data Branch, Department of Fish and Wildlife. Sacramento, California. Accessed 9 October 2014.
- California Department of Transportation (Caltrans). 2003. Caltrans Storm Water Quality Handbooks: Construction Site Best Management Practices (BMPs) Manual. Caltrans Publication Distribution Unit, Sacramento, California. March 2003.
- U.S. Fish and Wildlife Service (Service). 1999. Conservation Guidelines for the Valley Elderberry Longhorn Beetle. Sacramento Fish and Wildlife Office, Sacramento, California. 15 pp.
- _____. 2005. Recovery Plan for Vernal Pool Ecosystems of California and Southern Oregon. Portland, Oregon. xxii + 574 pp.
- _____. 2007a. Vernal Pool Fairy Shrimp (*Branchinecta lynchi*) 5-year Review: Summary and Evaluation. Sacramento Fish and Wildlife Office, Sacramento, California. September 2007. 75 pp.
- _____. 2007b. Vernal Pool Tadpole Shrimp (*Lepidurus packardii*) 5-Year Review: Summary and Evaluation. Sacramento Fish and Wildlife Office, Sacramento, California. September 2007. 50 pp.
- _____. 2014. Withdrawal of the Proposed Rule To Remove the Valley Elderberry Longhorn Beetle From the Federal List of Endangered and Threatened Wildlife. Federal Register 79:55874-55917. September 17, 2014.

Appendix H Air Quality Conformity Documentation

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Jackson, Kelly (PMC)

From: Karina O'Connor <OConnor.Karina@epamail.epa.gov>
Sent: Wednesday, May 02, 2012 2:34 PM
To: Jose Luis Caceres
Cc: Brigette Tollstrup; Charles Anderson; Dave Johnston; David Melko; Gold. Charity; Jerry Barton; Jason Crow; Joseph Vaughn; Larry Robinson; Mike Brady; Matt Jones; Renee DeVere-Oki; Sharon Tang; Sondra Spaethe; Theresa Arnold
Subject: Re: Fwd: POAQC Submittal - White Rock Road Widening Project, SAC24470, Comments Due May 7
Attachments: POAQC Detemination Form 4-19-12.docx; Traffic Volumes SacDOT 4-19-12.xlsx; Initial Study.pdf; Final White Rock Road Transportation Report 9-30-08.pdf; White Rock Road Traffic Volumes 5-1-12.xlsx

EPA concurs that this is not a project of air quality concern.

Karina O'Connor
(775) 434-8176
ocannon.karina@epa.gov

From: "Jose Luis Caceres"
To: "Brigette Tollstrup", "Charles Anderson", "Larry Robinson", "Jason Crow", "Mike Brady", "Sharon Tang", "Joseph Vaughn", "Dave Johnston", "Jerry Barton", "Karina OConnor/R9/USEPA/US@EPA", "Sondra Spaethe", "David Melko", "Renee DeVere-Oki", "Theresa Arnold", "Matt Jones",
Cc: "Gold. Charity"
Date: 05/02/2012 01:54 PM
Subject: Fwd: POAQC Submittal - White Rock Road Widening Project, SAC24470, Comments Due May 7

Project Level Conformity Group,

This is a reminder that comments on this project are **due May 7**. It was pointed out that the original submittal did not include AADT numbers, so I'm attaching an Excel file, Traffic Volumes 5-1-12, which includes that information.

Thanks,

José Luis Cáceres
Transportation Planner, SACOG
(916) 340-6218

>>> Jose Luis Caceres 4/23/2012 11:38 AM >>>
Project Level Conformity Group,

Attached is the request for a determination of whether the White Rock Rd. Widening project is a Project of Air Quality Concern (POAQC). Please email questions and comments by **May 7th**. Use "reply all," to make comments to the group. Otherwise, you may also contact the sponsor, Charity Gold, directly. Her contact information is below.

This project falls under the 6005 federal process. As such, it requires written concurrence by EPA and FHWA.

Attachments:

1. Determination
2. Traffic Volumes
3. Initial Study/CEQA
4. Final Study

Thanks,

José Luis Cáceres
Transportation Planner, SACOG
(916) 340-6218

>>> "Gold. Charity" 4/23/2012 9:33 AM >>>
José Luis,

I have attached the revised POAQC form, as well as the CEQA document that was released for the project, and traffic information that was provided for the project by SacDOT. Because it is large, I will send the traffic study in another email. Please let me know if you need anything else.

Charity Gold

Environmental Analyst

Division of Environmental Review and Assessment (DERA)

Municipal Services Agency

goldc@saccounty.net

(916) 874-7914 (office)

(916) 874-8343 (fax)

(916) 874-7529 (direct)

www.dera.saccounty.net

Sacramento County

www.saccounty.net

From: Jose Luis Caceres [<mailto:JCaceres@sacog.org>]

Sent: Friday, April 06, 2012 2:51 PM

To: Gold. Charity

Subject: Re: POAQC Submittal - White Rock Road Widening Project

Hi Charity,

I'm sorry it's taken me so long to review the POAQC submittal.

I have a couple requests before I circulate this.

The submittal is missing links to the electronic source information. Step 1b says, "Provide links or electronic attachments along with page numbers for any referenced supporting documents, such as traffic studies and environmental documents."

Also, on page 3, it should say build and no-build. Instead it looks like it just says build and build. Also you say you don't expect a change in traffic volumes, but your statistics show a change from 3,400 to 9,800 between build and no build. So that doesn't make sense to me without some further explanation. Similarly, you show truck traffic percentages staying flat. You need to explain why the traffic is anticipated to stay at the same 4%.

Thanks,

José Luis Cáceres
Transportation Planner, SACOG
(916) 340-6218
>>> "Gold. Charity" 3/5/2012 3:44 PM >>>
José,

I have attached the POAQC form for the White Rock Road Widening Project along with the project's Area of Potential Effects map. Please let me know if there is additional information that I should submit.

Charity Gold
Environmental Analyst
Division of Environmental Review and Assessment (DERA)
Municipal Services Agency
(916) 874-7914 (office)
(916) 874-8343 (fax)
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If you are not the intended recipient, please contact the sender immediately and permanently delete the original and any copies of this email and any attachments thereto.

Jackson, Kelly (PMC)

From: Sharon Tang <sharon_tang@dot.ca.gov>
Sent: Monday, May 07, 2012 10:16 AM
To: Jose Luis Caceres
Cc: Brigette Tollstrup; Charles Anderson; Dave Johnston; David Melko; Gold. Charity; Jerry Barton; Jason Crow; Joseph Vaughn; Larry Robinson; Mike Brady; Matt Jones; Karina O'Connor; Renee DeVere-Okie; Sharon Tang; Sondra Spaethe; Theresa Arnold
Subject: Re: Fwd: POAQC Submittal - White Rock Road Widening Project, SAC24470, Comments Due May 7

Caltrans concurs that this is not a POAQC for PM10 and PM2.5.

Thank you,
Sharon Tang
Environmental Planning-Air/Noise
Department of Transportation, District 3
703 B Street
Marysville, CA 95901
ph. (530)741-4577
fax: (530)741-4457

Jose Luis Caceres
<JCaceres@sacog.org>
To
Brigette Tollstrup
05/02/2012 01:52 PM <BTOLLSTRUP@airquality.org>, Charles Anderson
<CAnderson@airquality.org>, Larry Robinson
<lrobinson@airquality.org>, Jason Crow <jcrow@arb.ca.gov>, Mike Brady
<mike_brady@dot.ca.gov>, Sharon Tang <sharon.tang@dot.ca.gov>, Joseph Vaughn
<Joseph.Vaughn@dot.gov>, Dave Johnston <dave.johnston@edcgov.us>, Jerry Barton <jbarton@edctc.org>, Karina O'Connor
<oconnor.karina@epa.gov>, Sondra Spaethe <:sspaethe@fracmd.org>, David Melko <dmelko@pctpa.net>, Renee DeVere-Okie
<RDeVere-Okie@sacog.org>, Theresa Arnold <TArnold@sacog.org>, Matt Jones <mjones@ysaqmd.org>

cc
"Gold. Charity"
<goldc@saccounty.net>
Subject
Fwd: POAQC Submittal - White Rock
Road Widening Project, SAC24470,
Comments Due May 7

Project Level Conformity Group,

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Thanks,

José Luis Cáceres
Transportation Planner, SACOG
(916) 340-6218

>>> Jose Luis Caceres 4/23/2012 11:38 AM >>>
Project Level Conformity Group,

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Attachments:

- 1.Determination
- 2.Traffic Volumes
- 3.Initial Study/CEQA
- 4.Final Study

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José Luis Cáceres

Transportation Planner, SACOG
(916) 340-6218

>>> "Gold. Charity" <goldc@saccounty.net> 4/23/2012 9:33 AM >>>
José Luis,

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Charity Gold
Environmental Analyst
Division of Environmental Review and Assessment (DERA) Municipal Services Agency goldc@saccounty.net
(916) 874-7914 (office)
(916) 874-8343 (fax)
(916) 874-7529 (direct)
www.dera.saccounty.net
Sacramento County
www.saccounty.net

From: Jose Luis Caceres [mailto:JCaceres@sacog.org]
Sent: Friday, April 06, 2012 2:51 PM
To: Gold. Charity
Subject: Re: POAQC Submittal - White Rock Road Widening Project

Hi Charity,

I'm sorry it's taken me so long to review the POAQC submittal.

I have a couple requests before I circulate this.

The submittal is missing links to the electronic source information. Step 1b says, " Provide links or electronic attachments along with page numbers for any referenced supporting documents, such as traffic studies and environmental documents."

Also, on page 3, it should say build and no-build. Instead it looks like it just says build and build. Also you say you don't expect a change in traffic volumes, but your statistics show a change from 3,400 to 9,800 between build and no build. So that doesn't make sense to me without some further explanation. Similarly, you show truck traffic percentages staying flat. You need to explain why the traffic is anticipated to stay at the same 4%.

Thanks,

José Luis Cáceres
Transportation Planner, SACOG
(916) 340-6218

>>> "Gold. Charity" <goldc@saccounty.net> 3/5/2012 3:44 PM >>>
José,

I have attached the POAQC form for the White Rock Road Widening Project along with the project's Area of Potential Effects map. Please let me know if there is additional information that I should submit.

Charity Gold
Environmental Analyst
Division of Environmental Review and Assessment (DERA) Municipal Services Agency
(916) 874-7914 (office)
(916) 874-8343 (fax)
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[attachment "POAQC Detemination Form 4-19-12.docx" deleted by Sharon Tang/D03/Caltrans/CAGov] [attachment "Traffic Volumes SacDOT 4-19-12.xlsx" deleted by Sharon Tang/D03/Caltrans/CAGov] [attachment "Initial Study.pdf" deleted by Sharon Tang/D03/Caltrans/CAGov] [attachment "Final White Rock Road Transportation Report 9-30-08.pdf" deleted by Sharon Tang/D03/Caltrans/CAGov] [attachment "White Rock Road Traffic Volumes 5-1-12.xlsx" deleted by Sharon Tang/D03/Caltrans/CAGov]

Jackson, Kelly (PMC)

From: Jose Luis Caceres <JCaceres@sacog.org>
Sent: Wednesday, June 11, 2014 12:50 PM
To: Kelly Jackson
Cc: Shalanda M@DOT Christian
Subject: Re: Fwd: POAQC Submittal - White Rock Road Widening Project, SAC24470
Attachments: Re: Fwd: POAQC Submittal - White Rock Road Widening Project, SAC24470, Comments Due May 7; RE: POAQC Submittal - White Rock Road Widening Project, SAC24470, Comments Due May 7; Re: Fwd: POAQC Submittal - White Rock Road Widening Project, SAC24470, Comments Due May 7

Hi Kelly,

Here is the email from SACOG recording that this is not a POAQC. Attached are the emails from EPA and FHWA (also required) concurring.

This should satisfy Caltrans.

--JL

>>> Jose Luis Caceres 5/17/2013 11:38 AM >>>

>>> Jose Luis Caceres 5/10/2012 11:09 AM >>>
Hi Charity,

The White Rock Rd. Widening project has been determined to not be a project of air quality concern. Please keep copies of the concurrence emails from FHWA and EPA.

Thanks,

José Luis Cáceres
Transportation Planner, SACOG
(916) 340-6218

Jackson, Kelly (PMC)

From: Joseph.Vaughn@dot.gov
Sent: Thursday, May 03, 2012 10:11 AM
To: JCaceres@sacog.org; BTOLLSTRUP@airquality.org; CAnderson@airquality.org; lrobinson@airquality.org; jcrow@arb.ca.gov; mike_brady@dot.ca.gov; sharon.tang@dot.ca.gov; dave.johnston@edcgov.us; jbarton@edctc.org; oconnor.karina@epa.gov; sspaethe@fraqmd.org; dmelko@pctpa.net; RDeVere-Oki@sacog.org; TArnold@sacog.org; mjones@ysaqmd.org
Cc: goldc@sacounty.net
Subject: RE: POAQC Submittal - White Rock Road Widening Project, SAC24470, Comments Due May 7

FHWA concurs that this is not a project of air quality concern.

Joseph Vaughn
Air Quality Specialist/MPO Coordinator
FHWA, CA Division
(916) 498-5346

From: Jose Luis Caceres [<mailto:JCaceres@sacog.org>]
Sent: Wednesday, May 02, 2012 1:52 PM
To: Brigitte Tollstrup; Charles Anderson; Larry Robinson; Jason Crow; Mike Brady; Sharon Tang; Vaughn, Joseph (FHWA); Dave Johnston; Jerry Barton; Karina O'Connor; Sondra Spaethe; David Melko; Renee DeVere-Oki; Theresa Arnold; Matt Jones
Cc: Gold. Charity
Subject: Fwd: POAQC Submittal - White Rock Road Widening Project, SAC24470, Comments Due May 7
Project Level Conformity Group,
This is a reminder that comments on this project are **due May 7**. It was pointed out that the original submittal did not include AADT numbers, so I'm attaching an Excel file, Traffic Volumes 5-1-12, which includes that information.
Thanks,

José Luis Cáceres
Transportation Planner, SACOG
(916) 340-6218

>>> Jose Luis Caceres 4/23/2012 11:38 AM >>>

Project Level Conformity Group,

Attached is the request for a determination of whether the White Rock Rd. Widening project is a Project of Air Quality Concern (POAQC). Please email questions and comments by **May 7th**. Use "reply all," to make comments to the group. Otherwise, you may also contact the sponsor, Charity Gold, directly. Her contact information is below.

This project falls under the 6005 federal process. As such, it requires written concurrence by EPA and FHWA.
Attachments:

1. Determination
2. Traffic Volumes
3. Initial Study/CEQA

4. Final Study

Thanks,

José Luis Cáceres

Transportation Planner, SACOG

(916) 340-6218

>>> "Gold. Charity" 4/23/2012 9:33 AM >>>

José Luis,

I have attached the revised POAQC form, as well as the CEQA document that was released for the project, and traffic information that was provided for the project by SacDOT. Because it is large, I will send the traffic study in another email. Please let me know if you need anything else.

Charity Gold

Environmental Analyst

Division of Environmental Review and Assessment (DERA)

Municipal Services Agency

goldc@saccounty.net

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(916) 874-8343 (fax)

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Sacramento County

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From: Jose Luis Caceres [<mailto:JCaceres@sacog.org>]

Sent: Friday, April 06, 2012 2:51 PM

To: Gold. Charity

Subject: Re: POAQC Submittal - White Rock Road Widening Project

Hi Charity,

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I have a couple requests before I circulate this.

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Also, on page 3, it should say build and no-build. Instead it looks like it just says build and build. Also you say you don't expect a change in traffic volumes, but your statistics show a change from 3,400 to 9,800 between

build and no build. So that doesn't make sense to me without some further explanation. Similarly, you show truck traffic percentages staying flat. You need to explain why the traffic is anticipated to stay at the same 4%. Thanks,

José Luis Cáceres
Transportation Planner, SACOG
(916) 340-6218

>>> "Gold. Charity" 3/5/2012 3:44 PM >>>

José,

I have attached the POAQC form for the White Rock Road Widening Project along with the project's Area of Potential Effects map. Please let me know if there is additional information that I should submit.

Charity Gold

Environmental Analyst

Division of Environmental Review and Assessment (DERA)

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U.S. Department
of Transportation
**Federal Highway
Administration**

**Federal Highway Administration
California Division**

January 11, 2016

650 Capitol Mall, Suite 4-100
Sacramento, CA 95814
(916) 498-5001
(916) 498-5008 (fax)

In Reply Refer To:
HDA-CA

Mr. Amarjeet S. Benipal
District Director
California Department of Transportation
District 3
703 B Street
Marysville, CA 95901

Attention: Jason Lee

SUBJECT: Project Level Conformity Determination for the White Rock Road Widening
Project (SAC24470 & SAC24662)

Dear Mr. Benipal:

On December 14, 2015, the California Department of Transportation (Caltrans) submitted to the Federal Highway Administration (FHWA) a complete request for a project level conformity determination for the White Rock Road Widening Project. The project is in an area that is designated Non-Attainment or Maintenance for Ozone and Particulate Matter (PM 2.5).

The project level conformity analysis submitted by Caltrans indicates that the project-level transportation conformity requirements of 40 CFR Part 93 have been met. The project is included in the Sacramento Area Council of Governments' (SACOG) current Regional Transportation Plan (RTP) and Transportation Improvement Program (TIP), as amended. The design concept and scope of the preferred alternative have not changed significantly from those assumed in the regional emissions analysis.

As required by 40 CFR 93.116 and 93.123, the localized PM analyses are included in the documentation. The analyses demonstrate that the project will not create any new violations of the standards or increase the severity or number of existing violations.

Based on the information provided, FHWA finds that the White Rock Road Widening Project conforms with the State Implementation Plan (SIP) in accordance with 40 CFR Part 93.

If you have any questions pertaining to this conformity finding, please contact Joseph Vaughn at (916) 498-5346 or by email at Joseph.Vaughn@dot.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Vincent P. Mammano". The signature is fluid and cursive, with the first name being the most prominent.

For: Vincent P. Mammano
Division Administrator

Appendix I Response to Comments

Introduction

This Appendix contains responses to comments received on the Initial Study with Proposed MND/Environmental Assessment (IS/EA). The comment letters, responses, and any corresponding revisions to the document do not involve any new significant impacts or “significant new information” that would require recirculation of the IS/EA under CEQA or NEPA standards.

List of Commenters

The following individuals and representatives of organizations and agencies submitted comments on the IS/EA:

Letter/ E-mail	Individual or Signatory	Affiliation	Date
A	Rob Ferrera	Sacramento Municipal Utility District	11/19/15
B	Tom Zlotkowski	Capital SouthEast Connector JPA	11/20/15
C	Stephanie Tadlock	Central Valley Regional Water Quality Control Board	11/23/15
D	Christopher Hunley	County of Sacramento Environmental Management Department	11/30/15
E	Jeffery Morneau	California Department of Transportation (Caltrans)	11/30/15
F	Chris Holm	WalkSacramento	11/30/15
G	Molly Wright	Sacramento Metropolitan Air Quality Management District	12/1/15
H	Scott Morgan	State Clearinghouse	12/1/15

Written comments on the document are included at the end of Appendix I. Responses to those comments are included in the table below. To assist in referencing comments and responses, the following coding system is used:

Letters are coded by letters and each issue raised in the comment letter is assigned a number (e.g., Comment Letter A, comment 1: A-1).

Where changes to the IS/EA text result from responding to comments, those changes are included in the text of this document and demarcated with revision marks (line in margin).

Comment Letter	Comment Number	Response
A	1	As identified on page 77 of the Draft IS/EA, the proposed widening of White Rock Road would involve the relocation of both the 69 kV and 12 kV lines. The City will consult with SMUD in the development of the relocation plan to ensure that relocation is conducted to SMUD's expectations and that the public utility easement is adequate for SMUD's use.
B	1	Comment noted. The City is aware of both the Connector project and that the proposed widening of White Rock Road is adjacent to the Connector.
	2	Comment noted. The Connector JPA was included on the distribution list for the draft environmental document and will be on the distribution list for the final environmental document. The City and/or Caltrans will coordinate and collaborate with affected jurisdictions during the final design and construction of the project, as well as any future improvements at the intersection of White Rock Road and Grant Line Road.
	3	This section of the environmental document has been revised to reflect that the County's White Rock Road widening has been completed.
	4	Text referring to Figures 1.4-1a through 1.4-1t has been revised to state that the figures show the proposed right of way limits rather than typical section. Typical sections and proposed project features will be shared with the Connector JPA as part of further project coordination.
	5	Table 2.1-2 and the corresponding text are based on the circulation elements of the City of Rancho Cordova General Plan and Sacramento County's General Plan. The circulation element of the City of Rancho Cordova General Plan was amended in May 2015 to include the Capital Southeast Connector; the amendments did not change the general plan policies included in Table 2.1-2. The text in Section 2.1.1.2 has been updated to show that the City of Rancho Cordova's Land Use Element was updated in January 2015. Table 2.1-2 has also been updated to reflect the County's May 2014 update to its circulation element.
	6	The JPA Project Design Guidelines are not applicable to the Project; the intersection at White Rock Road and Grant Line Road is not part of the project.
	7	The intersection at White Rock Road and Grant Line Road is not part of the project and was not evaluated in the analysis.
	8	<p>In accordance with CEQA, existing conditions were set based on the initiation of environmental review of the project, which occurred in 2008. Requests to modify the description of existing conditions and roadway segments to current conditions were not made since current conditions do not serve as the CEQA baseline for the proposed project.</p> <p>Draft IS/EA Figure 2.1-3 on page 81 illustrates the project roadway network and is based on the Final Transportation Analysis for the White Rock Road Widening Project from Grant Line Road to El Dorado County prepared by Sacramento County in September 2008. No figure showing the future roadway network assumptions was included in Final Transportation Analysis and so no figure is available for inclusion in the IS/EA. The Final Transportation Analysis did include an assumption for its 2030 model run that White Rock Road would be 6 lanes west of the Rancho Cordova City limit. As discussed in Section 2.1.1.2 of the Draft IS/EA, however, based on the economic slowdown which occurred after 2008, projected growth is behind the predictions made in 2008 and a 4 lane facility in the portion of White Rock Road between Sunrise Boulevard and Grant Line Road has been determined to be sufficient to meet the current and future (2030) needs. Based on the economic downturn, the year 2030 modeling done in 2008 is roughly equivalent to what a year 2035 analysis based on current conditions would show.</p> <p>The County's CEQA analysis, which included this portion of White Rock Road, did contain an existing plus project scenario that included analysis of the White Rock Road/Grant Line Road intersection. This intersection would operate at LOS A in the existing plus project condition.</p>

Comment Letter	Comment Number	Response
C	1	Comment noted. A description of the Central Valley Regional Water Quality Control Board's authority associated with state law is described on page 110 of the Draft IS/EA.
	2	Comment noted. A description of the water quality regulatory framework associated with the project is described on Draft IS/EA pages 109-113.
	3	The Construction Storm Water General Permit is described on Draft IS/EA pages 111 and 112. The project would implement construction water quality control measures as part of a SWPPP.
	4	The City of Rancho Cordova is under a Phase II MS4 permit. The project is subject to the City's Stormwater Management and Discharge Control Ordinance (Rancho Cordova Municipal Code Chapter 15.12).
	5	The project is a roadway improvement and does not include an industrial use that would be subject to the Industrial Storm Water General Permit.
	6	The project would require permitting under Section 404 of the Clean Water Act as well as a Water Quality Certification under Section 401.
	7	See Response C-6.
	8	The project would not involve any discharges subject to Waste Discharge Requirement permitting.
	9	The project is a roadway improvement and does not include agricultural uses.
	10	As identified on Draft IS/EA page 117, the project may involve dewater operations and would require coverage under the General Order.
D	1	Potential impacts to the White Rock Road Landfill (North and South) is addressed on Draft IS/EA pages 130 and 132-141 (this includes mapping of the landfill in relation to the roadway). The analysis identifies that construction of the project may be impacted by contamination from both landfills. Soil sampling and health and safety plan would be implemented to address this impact.
	2	Project construction is not expected to involve the maintenance of a construction staging site for over a year that would handle or store hazardous materials.
	3	The project does not propose the construction or abandonment of any wells.
E	1	As identified on Draft IS/EA page 95, the project would implement a Transportation Management Plan to minimize traffic delay.
	2	The City has planned for this intersection to be signalized prior to the completion of the widening of White Rock Road.
	3	The City will continue to coordinate with Caltrans on the implementation of this project.
F	1	The final design of the roadway lane widths has not been determined and this comment will be considered in the final design. As identified on Draft IS/EA page 12, the roadway would include 6-foot wide bike lanes and 3-foot shoulders.
	2	The City will ensure that sidewalks are included in the final design of the roadway widening. The approved Rio del Oro Specific Plan Circulation Chapter identifies that 8-foot wide sidewalks would be provided along White Rock Road.
	3	The roadway improvement would include 6-foot wide bike lanes as well as sidewalk facilities (see Response F-1 and F-2) consistent with Policy C1.11.

Comment Letter	Comment Number	Response
G	1	<p>Upon this request, the City sent the White Rock Road Air Quality and Climate Change Study Report (December 2014) to the District that includes emission model outputs. This report assumed the following regarding construction:</p> <ul style="list-style-type: none"> • Start date of “2015” and duration of “18 months.” Phases are as follows: • Grubbing/Land Clearing – 1.8 months • Grading/Excavation -- 8.1 months • Drainage/Utilities/Sub-grade – 5.4 months • Paving -- 2.7 months <p>Maximum daily construction emissions are shown in Draft IS/EA Table 2.2-5. As shown in this table, the project would exceed the District NOx threshold of 85 pounds per day. Draft IS/EA pages 159-162 list measures to reduce construction emissions that include the District’s Enhanced Exhaust Control Practices. As shown on CEQA Checklist in Appendix A of the Draft IS/EA, the project would have a less than significant impact with mitigation with respect to violating any air quality standard or contributing substantially to an existing or projected air quality violation. As identified in the White Rock Road Air Quality and Climate Change Study Report (page 161), the emissions would be reduced through the implementation of the measures identified on page 159-162 as follows</p> <ul style="list-style-type: none"> • ROG = 5.3 lbs/day • NOx = 57.9 lbs/day • PM10 = 12.6 lbs/day • PM2.5 = 13.0 lbs/day • CO = 37.0 lbs/day <p>Total construction emissions for ROG, NOx, and PM are not available at this time; during final design, the construction timing and methodologies will be developed further so that total construction emissions may be calculated.</p> <p>The SMAQMD construction-related GHG threshold is 1,100 metric tons annually. As shown on page 235 of the Draft IS/EA the project would emit 2,103 metric tons total over 18 months based on the modeling assumptions used in the White Rock Road Air Quality and Climate Change Study Report. However, project construction may take longer than 18 months but not more than 5 years; it is not expected that the project would exceed the District’s threshold in any single year.</p>
	2	<p>The SMAQMD (2011) provides a project-level screening procedure to determine whether detailed CO hotspot modeling is required for a proposed development project. This preliminary screening methodology provides lead agencies with a conservative indication as to whether project-generated vehicle trips would result in the generation of CO emissions that contribute to an exceedance of the thresholds of significance. According to the SMAQMD, the proposed Project would result in a less than significant impact to air quality for local CO if:</p> <ul style="list-style-type: none"> • Traffic generated by the proposed Project would not result in deterioration of intersection level of service (LOS) to LOS E or F; and • The Project would not contribute additional traffic to an intersection that already operates at LOS of E or F. <p>Because the proposed project may contribute additional traffic to the intersections of White Rock Road/Zinfandel Drive, which currently operates at LOS E in the P.M. peak hour, the second tier screening is warranted.</p> <p>If the first tier of screening criteria is not met then the second tier of screening criteria shall be examined. If all of the following criteria are met, the proposed project will result in a less-than-significant impact to air quality for local CO.</p> <p>As further noted below, the project would have a less-than-significant impact to local CO for the following reasons:</p>

Comment Letter	Comment Number	Response
		<ul style="list-style-type: none"> • The project will not result in an affected intersection experiencing more than 31,600 vehicles per hour; • The project will not contribute traffic to a tunnel, parking garage, bridge underpass, urban street canyon, or below-grade roadway; or other locations where horizontal or vertical mixing of air will be substantially limited; and • The mix of vehicle types at the intersection is not anticipated to be substantially different from the County average (as identified by the EMFAC or CalEEMod models). <p>The project would not result in an affected intersection experiencing 31,600 vehicles per hour ; according to the Final Transportation Analysis Report and supplemental traffic analyses (DKS 2008, 2013, Figures 8 & 9) prepared for the project, none of the affected intersections would experience such volumes at any part of the day, including the AM and PM peak hours. The project also does not involve any tunnel, parking garage, below grade roadway, vehicle mix or any other feature that would substantially limit the vertical or horizontal mixing of air. Lastly, no intersections within the proposed project limits would have a substantially different vehicle mix than the County average Therefore, according to the SMAQMD, the proposed project would have a less than significant impact to local CO.</p> <p>See Response G-1 regarding the provision of the White Rock Road Air Quality and Climate Change Study Report.</p> <p>The City has sent the White Rock Road Air Quality and Climate Change Study Report to the District as requested.</p>
	3	<p>The following text is added to has been added to the IS/EA:</p> <p><i>In September 2000, the California Air Resources Board (CARB) adopted the Diesel Risk Reduction Plan (DRRP), which recommends many control measures to reduce the risks associated with diesel-exhaust emissions (diesel PM) and achieve a goal of reducing diesel PM emissions by 85 percent from 2000 levels by 2020. The DRRP incorporates measures to reduce emissions from diesel-fueled vehicles and stationary diesel-fueled engines. Ongoing efforts by CARB to reduce diesel-exhaust emissions from these sources include the development of specific statewide regulations, which are designed to further reduce diesel PM emissions. The goal of each regulation is to make diesel engines as clean as possible by establishing state-of-the-art technology requirements or emission standards to reduce diesel PM emissions. Since the initial adoption of the DRRP in September 2000, CARB has adopted numerous rules related to the reduction of diesel PM from mobile sources, as well as the use of cleaner-burning fuels. Transportation sources addressed by these rules include public transit buses, school buses, on-road heavy-duty trucks, and off-road heavy-duty equipment.</i></p>
	4	<p>The roadway improvement would include 6-foot wide bike lanes as well as sidewalk facilities (see Response F-1 and F-2).</p>
	5	<p>Comment noted. The City and Caltrans will continue to coordination with SMAQMD as the project develops.</p>
H	1	<p>Comment noted. Response to comments from Central Valley Regional Water Quality Control Board and Caltrans are provided above (see responses to Comment Letter C and E).</p>

Letter A

Powering forward. Together.



November 19, 2015

Kelly McNally
Associate Environmental Planner
Department of Transportation, Environmental Planning
703 B Street
Marysville, CA 95901

Subject: White Rock Road Widening Project, Initial Study with Proposed Mitigated Negative Declaration/Environmental Assessment and Section 4(f) Evaluation

Dear Ms. McNally,

The Sacramento Municipal Utility District (SMUD) appreciates the opportunity to provide comments on the White Rock Road Widening Project, Initial Study with Proposed Mitigated Negative Declaration/Environmental Assessment and Section 4(f) Evaluation. SMUD is the primary energy provider for Sacramento County and the proposed project area. SMUD's vision is to empower our customers with solutions and options that increase energy efficiency, protect the environment, reduce global warming, and lower the cost to serve our region. As a Responsible Agency, SMUD aims to ensure that the proposed project limits the potential for significant environmental effects on SMUD facilities, employees, and customers.

The aforementioned document states that the proposed project includes relocation of the following SMUD facilities:

- 69 kilovolt (kv) overhead electrical line to the north along 3,500 feet of White Rock Road east of Luyung Drive;
- 12 kv overhead electrical line to the south along 1.7 miles of White Rock Road between Nimbus Road and Grant Line Road.

Based on our review of the aforementioned document and our understanding of the proposed project, SMUD offers the following input:

- The 69 kV line along White Rock Road, which would be relocated as part of the proposed project, also has an 12 kV line underbuild on the pole line.
- SMUD requires a minimum 25-foot PUE adjacent to all public roads for 69 kV and 12 kV facilities.
- SMUD requires access to all of its facilities.
- SMUD reserves the right to use any portion of its easement and shall not be responsible for any damages to the developed property within said easement.
- There shall be no storage of fuel or combustibles and no fueling of vehicles or any operation equipment within the SMUD easement.

A-1



Letter A Continued

- There shall be no long term staging or storage of construction or maintenance materials within the SMUD easement, such materials shall be removed from the easement at the completion of the project.
- All boom-operated construction equipment within SMUD's easement corridor shall be equipped with a mechanical lock-out device to prevent the boom from extending above the Cal-OSHA required clearance distance to SMUD's energized high voltage lines and fiber optic communication lines.
- No cut or fill will be allowed within the horizontal distances indicated below, measured from the face of each type of structure or anchor:
 - Wood Pole or Anchor - 15 Feet
 - Steel Pole - 25 feet

A-1
cont.

In addition, the aforementioned document states that a relocation plan would be prepared for the relocation of SMUD's existing facilities. SMUD requests that the project engineer engage SMUD during preparation of this plan. Although the exact alignment and pole locations may not be known at the time this plan is prepared, nonetheless SMUD would like to be engaged and offer input.

SMUD would like to be involved with discussing the above areas of interest as well as discussing any other potential issues. We aim to be partners in the efficient and sustainable delivery of the proposed project. Please ensure that the information included in this response is conveyed to the project planners and the appropriate project proponents.

Environmental leadership is a core value of SMUD and we look forward to collaborating with you on this project. Again, we appreciate the opportunity to provide input on this Initial Study with Proposed Mitigated Negative Declaration/Environmental Assessment and Section 4(f) Evaluation. If you have any questions regarding this letter, please contact Kim Crawford, SMUD Environmental Specialist at (916) 732-5063 or kim.crawford@smud.org.

Sincerely,



Rob Ferrera
Environmental Specialist
Environmental Management
Workforce and Enterprise Services
Sacramento Municipal Utility District

Cc: Kim Crawford
Malissa Ellis
Jose Bodipo-Memba
Pat Durham
Joseph Schofield

Letter B



WWW.CONNECTORJPA.NET

10640 Mather Blvd., Suite 120 Mather, CA 95655
Tel: 916.876.9094 Fax: 916.854.9304

November 20, 2015

Kelly McNally
Environmental Planning
Caltrans District 3
703 B Street
Marysville, CA 95901

RE: WHITE ROCK ROAD WIDENING PROJECT

Dear Ms. McNally,

The Capital SouthEast Connector (Connector) is a 34-mile limited-access roadway spanning from the Interstate 5 / Hood-Franklin interchange, south of Elk Grove, to U.S. 50 at the Silva Valley Parkway interchange just east of El Dorado Hills. The alignment of the Connector consists of Kammerer, Grant Line, and White Rock Roads. In particular, the subject White Rock Road Widening Project terminates at the Connector and is planned to have an interchange at the White Rock Road/Grant Line Road intersection.

The Connector is managed by a Joint Powers Authority (Connector JPA) that includes the cities of Folsom, Elk Grove and Rancho Cordova, and El Dorado and Sacramento counties. The JPA was formed in December, 2006 when the cities and counties formalized their collaboration to proceed with planning, environmental review, engineering design and development of what was initially called the Elk Grove-Rancho Cordova-El Dorado Connector Project.

Since being formed in 2006, the JPA has prepared a Program-level Environmental Impact Report (PEIR) for the Connector Project. The PEIR was certified by the JPA Board in 2012. In 2014, the Connector was adopted into the General Plan of Sacramento County. In 2015, the Connector was adopted into the General Plan of the City of Rancho Cordova.

The Connector JPA submits the following comments regarding the Initial Study/ Proposed Mitigated Negative Declaration ("IS/MND") for the White Rock Road Widening Project ("Project").

1. **General.** Please note that there is no specific reference relating to the Connector. This Project is subject to review by various local jurisdictions such as the County of Sacramento and, as it relates to the intersection with the Connector, the Connector JPA. Please coordinate and collaborate with affected jurisdictions for the planning, design, phasing and construction of the Project.
2. **General.** The Connector JPA is a very active partner in the vicinity of the Project and was not aware of the planned activity reflected in the IS/MND. Please add us to your mailing list for notification of the release of future environmental documents. Our mailing address is 10640 Mather Boulevard, Suite 120, Mather, CA 95655.
3. **General.** The Connector was adopted into the General Plan of the City of Rancho Cordova. The Connector JPA is proceeding with a four-lane improvement project (Phase 1) on Grant Line Road from White Rock Road south to State Route 16. Ultimately, the Connector will construct an

B-1

B-2

JPA BOARD OF DIRECTORS

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City of Rancho Cordova

Letter B Continued

- interchange at the intersection of White Rock Road and Grant Line Road. In addition, a Class 1 multi-purpose path is planned along the length of the Connector and Class 2 facilities will be prohibited within the Expressway segments. Please coordinate with the Connector JPA staff regarding the construction timing of the Project. **B-2 cont.**
4. **Chapter 1.2.3.** Please correct this paragraph to reflect the completed construction of White Rock Road from Grant Line Road to Prairie City Road. **B-3**
5. **Chapter 1.4.1 and Figures 1.4a-1.4t.** This chapter refers to a typical section that cannot be found in the Figures. In addition, these Figures do not depict the proposed project – they only depict the proposed right of way. Provide typical sections of the Project and provide figures that depict what the proposed Project will entail. **B-4**
6. **Chapter 2.1.1.2.** Update the various paragraphs on General Plans to refer to the latest amended plan date. Correct references to the transportation facilities if necessary. **B-5**
7. **Chapter 2.1.1.2.** Reference the Connector PEIR and the Connector Project Design Guidelines as the Connector is the eastern terminus of the Project. **B-6**
8. **Chapter 2.1.5.** The Connector JPA Project Design Guidelines have adopted a Level of Service (LOS) C threshold. Revise this Chapter to refer to LOS C for the Connector, in particular the intersection of the Project with Grant Line Road. **B-7**
9. **Chapter 2.1.5.** This Chapter repeatedly refers to "existing", as in existing LOS, existing traffic volumes, etc. Please clarify what year the existing data is referring to.
10. **Chapter 2.1.5.** Revise the description of White Rock Road under the Roadway Network subheading to reflect the recently completed project by the County of Sacramento and to reflect the Connector Segments D3, E1 and E2. Please note that the Connector JPA recently publicly circulated a draft IS/MND in October 2015.
11. **Chapter 2.1.5, Table 2.1-6.** Revise this Table to include the existing traffic operations conditions for the existing signalized intersection of White Rock Road and Grant Line Road. Note the LOS threshold is LOS C. **B-8**
12. **Chapter 2.1.5, Table 2.1-9.** Revise this Table to include the existing Segment LOS between Fitzgerald Road and Grant Line Road.
13. **Chapter 2.1.5, Environmental Consequences.** Please provide figures that show the roadway network assumptions. Numerous new roads and intersections are described on pages 89-93 yet it is not clear where these intersections are located.
14. **Chapter 2.1.5, Environmental Consequences.** Please clarify the use of Design Year 2030 and how the project was analyzed for operations. This document states:
- 1) "The design year for the project is 2030, but as noted in Section 2.1.1.2 it is fully anticipated that the proposed project will meet traffic needs up to and beyond 2035"

Letter B Continued

2) "White Rock Road is six lanes wide west of the Rancho Cordova City limit"

These statements are conflicting. In addition, how can White Rock Road be assumed to be six lanes when this document is only considering four lanes? Does the project have Independent Utility if six lanes are needed by the Design Year? Is this document saying that four lanes are not sufficient to meet demand by the Design Year? Is it reasonable to assume that this project will be complete and open by 2020 when funding for future phases of project delivery have not been identified? For consistency with the MTP, General Plans and other regional planning documents, we highly recommend that a 2035 analysis be performed.

15. **Chapter 2.1.5, Environmental Consequences.** Numerous assumptions on the 2030 roadway network are outdated and unreasonable. The latest City/Counties CIP should be consulted and the Draft 2016 MTP Update on projects that are defined as "Programmed", "Planned", or "Project Development Only" in should be used. In addition, Grant Line Road will not be 6 lanes south of the White Rock Road intersection as this is the Connector and per the Connector Guidelines, County General Plan and City General Plan, the Connector is 4 lanes.
16. **Chapter 2.1.5, Table 2.1-12.** Revise this Table to include the traffic operations conditions for the signalized intersection of White Rock Road and Grant Line Road. Note the LOS threshold is LOS C.

**B-8
cont.**

If any of the comments above are unclear or warrant further discussion please feel free to contact our Project Manager, Derek Minnema at (916) 876-9094 or MinnemaD@ConnectorJPA.net.

Sincerely,



Tom Zlotkowski
Executive Director



Letter C



Central Valley Regional Water Quality Control Board

23 November 2015

Pat Angell
City of Rancho Cordova
2729 Prospect Park Drive
Rancho Cordova, CA 95670

CERTIFIED MAIL
91 7199 9991 7035 8420 8922

COMMENTS TO REQUEST FOR REVIEW FOR THE MITIGATED NEGATIVE DECLARATION, WHITE ROCK ROAD WIDENING PROJECT, SCH# 2015102083, SACRAMENTO COUNTY

Pursuant to the State Clearinghouse's 29 October 2015 request, the Central Valley Regional Water Quality Control Board (Central Valley Water Board) has reviewed the *Request for Review for the Mitigated Negative Declaration* for the White Rock Road Widening Project, located in Sacramento County.

Our agency is delegated with the responsibility of protecting the quality of surface and groundwaters of the state; therefore our comments will address concerns surrounding those issues.

I. Regulatory Setting

Basin Plan

The Central Valley Water Board is required to formulate and adopt Basin Plans for all areas within the Central Valley region under Section 13240 of the Porter-Cologne Water Quality Control Act. Each Basin Plan must contain water quality objectives to ensure the reasonable protection of beneficial uses, as well as a program of implementation for achieving water quality objectives with the Basin Plans. Federal regulations require each state to adopt water quality standards to protect the public health or welfare, enhance the quality of water and serve the purposes of the Clean Water Act. In California, the beneficial uses, water quality objectives, and the Antidegradation Policy are the State's water quality standards. Water quality standards are also contained in the National Toxics Rule, 40 CFR Section 131.36, and the California Toxics Rule, 40 CFR Section 131.38.

The Basin Plan is subject to modification as necessary, considering applicable laws, policies, technologies, water quality conditions and priorities. The original Basin Plans were adopted in 1975, and have been updated and revised periodically as required, using Basin Plan amendments. Once the Central Valley Water Board has adopted a Basin Plan amendment in noticed public hearings, it must be approved by the State Water Resources Control Board (State Water Board), Office of Administrative Law (OAL) and in some cases,

C-1

KARL E. LONGLEY ScD, P.E., CHAIR | PAMELA C. CREEDON P.E., BCEE, EXECUTIVE OFFICER

11020 Sun Center Drive #200, Rancho Cordova, CA 95670 | www.waterboards.ca.gov/centralvalley



Letter C Continued

the United States Environmental Protection Agency (USEPA). Basin Plan amendments only become effective after they have been approved by the OAL and in some cases, the USEPA. Every three (3) years, a review of the Basin Plan is completed that assesses the appropriateness of existing standards and evaluates and prioritizes Basin Planning issues.

C-1
cont.

For more information on the *Water Quality Control Plan for the Sacramento and San Joaquin River Basins*, please visit our website:
http://www.waterboards.ca.gov/centralvalley/water_issues/basin_plans/.

Antidegradation Considerations

All wastewater discharges must comply with the Antidegradation Policy (State Water Board Resolution 68-16) and the Antidegradation Implementation Policy contained in the Basin Plan. The Antidegradation Policy is available on page IV-15.01 at:
http://www.waterboards.ca.gov/centralvalleywater_issues/basin_plans/sacsjr.pdf

In part it states:

Any discharge of waste to high quality waters must apply best practicable treatment or control not only to prevent a condition of pollution or nuisance from occurring, but also to maintain the highest water quality possible consistent with the maximum benefit to the people of the State.

C-2

This information must be presented as an analysis of the impacts and potential impacts of the discharge on water quality, as measured by background concentrations and applicable water quality objectives.

The antidegradation analysis is a mandatory element in the National Pollutant Discharge Elimination System and land discharge Waste Discharge Requirements (WDRs) permitting processes. The environmental review document should evaluate potential impacts to both surface and groundwater quality.

II. Permitting Requirements

Construction Storm Water General Permit

Dischargers whose project disturb one or more acres of soil or where projects disturb less than one acre but are part of a larger common plan of development that in total disturbs one or more acres, are required to obtain coverage under the General Permit for Storm Water Discharges Associated with Construction Activities (Construction General Permit), Construction General Permit Order No. 2009-009-DWQ. Construction activity subject to this permit includes clearing, grading, grubbing, disturbances to the ground, such as stockpiling, or excavation, but does not include regular maintenance activities performed to restore the original line, grade, or capacity of the facility. The Construction General Permit requires the development and implementation of a Storm Water Pollution Prevention Plan

C-3

Letter C Continued

(SWPPP).

For more information on the Construction General Permit, visit the State Water Resources Control Board website at:
http://www.waterboards.ca.gov/water_issues/programs/stormwater/constpermits.shtml.

C-3
cont.

Phase I and II Municipal Separate Storm Sewer System (MS4) Permits¹

The Phase I and II MS4 permits require the Permittees reduce pollutants and runoff flows from new development and redevelopment using Best Management Practices (BMPs) to the maximum extent practicable (MEP). MS4 Permittees have their own development standards, also known as Low Impact Development (LID)/post-construction standards that include a hydromodification component. The MS4 permits also require specific design concepts for LID/post-construction BMPs in the early stages of a project during the entitlement and CEQA process and the development plan review process.

For more information on which Phase I MS4 Permit this project applies to, visit the Central Valley Water Board website at:
http://www.waterboards.ca.gov/centralvalley/water_issues/storm_water/municipal_permits/.

C-4

For more information on the Phase II MS4 permit and who it applies to, visit the State Water Resources Control Board at:
http://www.waterboards.ca.gov/water_issues/programs/stormwater/phase_ii_municipal.shtml

Industrial Storm Water General Permit

Storm water discharges associated with industrial sites must comply with the regulations contained in the Industrial Storm Water General Permit Order No. 2014-0057-DWQ.

For more information on the Industrial Storm Water General Permit, visit the Central Valley Water Board website at:
http://www.waterboards.ca.gov/centralvalley/water_issues/storm_water/industrial_general_permits/index.shtml.

C-5

Clean Water Act Section 404 Permit

If the project will involve the discharge of dredged or fill material in navigable waters or wetlands, a permit pursuant to Section 404 of the Clean Water Act may be needed from the United States Army Corps of Engineers (USACOE). If a Section 404 permit is required by the USACOE, the Central Valley Water Board will review the permit application to ensure that discharge will not violate water quality standards. If the project requires surface water

C-6

¹ Municipal Permits = The Phase I Municipal Separate Storm Water System (MS4) Permit covers medium sized Municipalities (serving between 100,000 and 250,000 people) and large sized municipalities (serving over 250,000 people). The Phase II MS4 provides coverage for small municipalities, including non-traditional Small MS4s, which include military bases, public campuses, prisons and hospitals.

Letter C Continued

drainage realignment, the applicant is advised to contact the Department of Fish and Game for information on Streambed Alteration Permit requirements.

C-6
cont.

If you have any questions regarding the Clean Water Act Section 404 permits, please contact the Regulatory Division of the Sacramento District of USACOE at (916) 557-5250.

Clean Water Act Section 401 Permit – Water Quality Certification

If an USACOE permit (e.g., Non-Reporting Nationwide Permit, Nationwide Permit, Letter of Permission, Individual Permit, Regional General Permit, Programmatic General Permit), or any other federal permit (e.g., Section 10 of the Rivers and Harbors Act or Section 9 from the United States Coast Guard), is required for this project due to the disturbance of waters of the United States (such as streams and wetlands), then a Water Quality Certification must be obtained from the Central Valley Water Board prior to initiation of project activities. There are no waivers for 401 Water Quality Certifications.

C-7

Waste Discharge Requirements – Discharges to Waters of the State

If USACOE determines that only non-jurisdictional waters of the State (i.e., "non-federal" waters of the State) are present in the proposed project area, the proposed project may require a Waste Discharge Requirement (WDR) permit to be issued by Central Valley Water Board. Under the California Porter-Cologne Water Quality Control Act, discharges to all waters of the State, including all wetlands and other waters of the State including, but not limited to, isolated wetlands, are subject to State regulation.

C-8

For more information on the Water Quality Certification and WDR processes, visit the Central Valley Water Board website at:

http://www.waterboards.ca.gov/centralvalley/help/business_help/permit2.shtml.

Regulatory Compliance for Commercially Irrigated Agriculture

If the property will be used for commercial irrigated agricultural, the discharger will be required to obtain regulatory coverage under the Irrigated Lands Regulatory Program. There are two options to comply:

1. **Obtain Coverage Under a Coalition Group.** Join the local Coalition Group that supports land owners with the implementation of the Irrigated Lands Regulatory Program. The Coalition Group conducts water quality monitoring and reporting to the Central Valley Water Board on behalf of its growers. The Coalition Groups charge an annual membership fee, which varies by Coalition Group. To find the Coalition Group in your area, visit the Central Valley Water Board's website at: http://www.waterboards.ca.gov/centralvalley/water_issues/irrigated_lands/app_oval/index.shtml; or contact water board staff at (916) 464-4611 or via email at IrrLands@waterboards.ca.gov.
2. **Obtain Coverage Under the General Waste Discharge Requirements for Individual Growers, General Order R5-2013-0100.** Dischargers not participating

C-9

Letter C Continued

White Rock Road Widening Project
Sacramento County

- 5 -

23 November 2015

in a third-party group (Coalition) are regulated individually. Depending on the specific site conditions, growers may be required to monitor runoff from their property, install monitoring wells, and submit a notice of intent, farm plan, and other action plans regarding their actions to comply with their General Order. Yearly costs would include State administrative fees (for example, annual fees for farm sizes from 10-100 acres are currently \$1,084 + \$6.70/Acre); the cost to prepare annual monitoring reports; and water quality monitoring costs. To enroll as an Individual Discharger under the Irrigated Lands Regulatory Program, call the Central Valley Water Board phone line at (916) 464-4611 or e-mail board staff at IrrLands@waterboards.ca.gov.

C-9
cont.

Low or Limited Threat General NPDES Permit

If the proposed project includes construction dewatering and it is necessary to discharge the groundwater to waters of the United States, the proposed project will require coverage under a National Pollutant Discharge Elimination System (NPDES) permit. Dewatering discharges are typically considered a low or limited threat to water quality and may be covered under the General Order for *Dewatering and Other Low Threat Discharges to Surface Waters* (Low Threat General Order) or the General Order for *Limited Threat Discharges of Treated/Untreated Groundwater from Cleanup Sites, Wastewater from Superchlorination Projects, and Other Limited Threat Wastewaters to Surface Water* (Limited Threat General Order). A complete application must be submitted to the Central Valley Water Board to obtain coverage under these General NPDES permits.

For more information regarding the Low Threat General Order and the application process, visit the Central Valley Water Board website at:

http://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/general_orders/r5-2013-0074.pdf

For more information regarding the Limited Threat General Order and the application process, visit the Central Valley Water Board website at:

http://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/general_orders/r5-2013-0073.pdf

If you have questions regarding these comments, please contact me at (916) 464-4644 or Stephanie.Tadlock@waterboards.ca.gov.



Stephanie Tadlock
Environmental Scientist

cc: State Clearinghouse unit, Governor's Office of Planning and Research, Sacramento

C-10

Environmental Management
Department
Val F. Siebal, Director

Letter D



County of Sacramento

November 30, 2015

Caltrans District 3 Office
Attn: Kelly McNally
703 B Street
Marysville, CA 95901
Kelly.mcnally@dot.ca.gov

**SUBJECT: COMMENTS REGARDING THE NOTICE OF INTENT TO ADOPT A MITIGATED
NEGATIVE DECLARATION / NOTICE OF AVAILABILITY ENVIRONMENTAL
ASSESSMENT – WHITE ROCK ROAD WIDENING PROJECT**

Thank you for the opportunity to comment on the proposed adoption of a Mitigated Negative Declaration for the White Rock Road Widening Project (project). The Environmental Management Department (EMD) has been designated as the Sacramento region's Certified Unified Program Agency (CUPA) by California Environmental Protection Agency (Cal EPA), the Local Enforcement Agency (LEA) for the California Department of Resources, Recycling and Recovery (Cal Recycle), and acts as the local regulatory agency for wells, noise, and other environmental health related programs. This letter presents recommendations to address public health and environmental safety that should be addressed in the public review draft Environmental Document.

EMD's LEA program comments focus on the project's proximity to two closed landfills known as White Rock Road Landfill-North (Landfill-North) and White Rock Road Landfill-South (Landfill-South). EMD is responsible for inspecting both of these closed solid waste disposal sites to ensure compliance with state minimum standards for closed landfills contained in Title 27 of the California Code of Regulations including site security and maintenance of the soil and vegetative landfill cap. The LEA must also approve any changes to post closure land use for these sites. The permitted boundary of Landfill-North is adjacent to the northern edge of the project. The permitted boundary of Landfill-South is adjacent to the southern edge of the project.

D-1

Please address how the road widening project could potentially affect the landfills such as:

1. The proximity of the newly proposed roadway to the Landfill-North and Landfill-South boundaries.
2. The effects of roadway construction on the landfills.
3. Potential future site development of the Landfill-North and Landfill-South.

If you have any questions regarding the LEA program's comments, please contact Ms. Lisa Jameson at (916) 876-7883 or jamesonl@saccounty.net

EMD's CUPA program comments focus on Hazardous Material Storage and Hazardous Material Waste Generation, as follows:

10590 Armstrong Ave. Suite A • Mather, CA 95655 • phone (916) 875-8550 • fax (916) 875-8513 • www.emd.saccounty.net

Letter D Continued

Section 2.2.2 discusses Hazardous Waste/Materials related to the project. As the project is going to be construction site for at least a year, please add the following language:

1. If the handling and/or storage of hazardous material equal to or greater than the minimum reportable quantities (55 gallons for liquids, 500 pounds for solids and 200 cubic feet (at standard temperature and pressure) for compressed gases) occurs at any laydown area along the project, separate hazardous materials permits may be required for each location. Permits are business and owner specific and may not be transferred to other owners or locations. Since construction of the project is anticipated to last until 2020 the construction exemption outlined in Sacramento County Code (SCC) section 6.96.095 may not apply. Also, incorporate adequate protections for the public health and the environment and groundwater from risks or adverse effects associated with the storage of hazardous materials. Please address the handling and/or storage of hazardous materials.

D-2

2. If hazardous waste is generated at any laydown area along the project, separate hazardous waste permits may be required for each location. Permits are business and owner specific and may not be transferred to other owners or locations. Since construction of the project is anticipated to last until 2020 the construction exemption outlined in Sacramento County Code (SCC) section 6.96.095 may not apply. Also, incorporate adequate protections for the public health and the environment and groundwater from risks or adverse effects associated with the generation of hazardous waste. Please address how the facility will ensure compliance with the Hazardous Waste Control Act, verify Hazardous Waste accumulation, labeling, container and tank management standards, and waste generator status, and respond to complaints of illegal disposal of hazardous waste. Please address the generation of hazardous waste.

If you have any questions or concerns regarding the CUPA's comments, please contact Ms. Jeni VanDusen at (916) 875-8418 or VanDusenJ@saccounty.net

EMD's well program comments focus on concerns about the impact of the project on groundwater, as follows:

1. All new wells must be constructed under EMD's permitting process and meet EMD well construction standards. Wells include but are not limited to monitoring wells, piezometers, environmental and/or geotechnical exploratory soil borings. EMD standards are more restrictive than the minimum state standards in order to protect Sacramento County's groundwater supply.
2. Please address project well(s) that will penetrate more than one aquifer and how water quality will be maintained throughout the multi water bearing zones.
3. All wells, including abandoned wells, located throughout the project boundaries should be identified and reported to EMD for tracking. In order to protect the groundwater from potential surface contamination, wells not intended for future use need to be destroyed through EMD's permitting process prior to any grading or well destruction activities.

D-3

Letter D Continued

Thank you again for the opportunity to provide comments on the proposed adoption of a Mitigated Negative Declaration for the White Rock Road Widening Project. If you have any questions, please feel free to contact me at (916) 876-7277 or at hunleyc@saccounty.net

Sincerely,



Christopher Hunley, REHS
Environmental Specialist
Environmental Compliance Division

CWH:LJJ:BM

c: Mark Thomas, City of Rancho Cordova
Jaco Fourie, Aerojet Rocketdyne
Mark Varljen, Aerojet Rocketdyne

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Letter E

STATE OF CALIFORNIA—CALIFORNIA STATE TRANSPORTATION AGENCY

EDMUND G. BROWN Jr., Governor

DEPARTMENT OF TRANSPORTATION

DISTRICT 3—SACRAMENTO AREA OFFICE

2379 GATEWAY OAKS DRIVE, SUITE 150

SACRAMENTO, CA 95833

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TTY 711

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November 30, 2015

032015-SAC-0175
03-SAC-50 PM 17.278
SCH # 2015102083

Mr. Pat Angell
City of Rancho Cordova
2729 Prospect Park Drive
Rancho Cordova, CA 95670

White Rock Road Widening- Mitigated Negative Declaration (MND)

Dear Mr. Angell:

Thank you for including the California Department of Transportation (Caltrans) in the review process for the White Rock Road Widening MND. Caltrans' new mission, vision, and goals signal a modernization of our approach to California's transportation system. We review this local development for impacts to the State Highway System (SHS) in keeping with our mission, vision and goals for sustainability/livability/economy, and safety/health. We provide these comments consistent with the State's smart mobility goals that support a vibrant economy, and build communities, not sprawl.

The MND is for a proposed improvement of the 6-lane portion of White Rock Road near its intersection with Sunrise Boulevard and the widening of White Rock Road from 2 lanes to 4 lanes from Luyung Drive to Grant Line Road. The widening includes two 12-foot wide lanes in each direction, 14-foot wide median, two 6-foot wide bike lanes, and two 3-foot wide shoulders. The following comments are based on the MND received.

Traffic Operations

- As identified by Table 2.1-7, access control will have significant impact to the roadway capacity. It has been observed that existing driveways from the adjacent warehouses and quarries have generated delay and congestion on this segment of White Rock Rd. Therefore, during the PS&E phase of the project, we advise the project sponsor have a plan to control the access to the project to maintain roadway capacity. **E-1**
- Table 2.1-12 indicates that the intersection of Fitzgerald Road-Sunrise Park Drive/White Rock Road will be a signalized intersection by year 2030. Currently, the existing intersection is stop sign controlled and operating at LOS F for the eastbound direction **E-2**

"Provide a safe, sustainable, integrated, and efficient transportation system to enhance California's economy and livability"

Letter E Continued

Mr. Pat Angell, City of Rancho Cordova
November 30, 2015
Page 2

during the PM peak hour. We suggest this intersection be signalized during the widening of White Rock Rd. By signalizing this intersection, it would reduce delay and improve multi-modal safety.

**E-2
cont.**

Please provide our office with copies of any further actions regarding this project. We would appreciate the opportunity to review and comment on any changes related to this development.

E-3

If you have any questions regarding these comments or require additional information, please contact Emily Mraovich, Intergovernmental Review Coordinator at (916) 274-0635 or by email at: emily.mraovich@dot.ca.gov.

Sincerely,



JEFFERY MORNEAU, Chief (Acting)
Office of Transportation Planning—South

"Provide a safe, sustainable, integrated, and efficient transportation system to enhance California's economy and livability"



11/30/2015

VIA EMAIL

Kelly McNally, Associate Environmental Planner
Department of Transportation, Environmental Planning
703 B Street
Marysville, CA 95901

RE: White Rock Road Widening Project Initial Study with Proposed Mitigated Negative Declaration/Environmental Assessment and Section 4(f) Evaluation STPLCM-5482(013)

Thank you for the opportunity to comment on the *White Rock Road Widening Project Initial Study with Proposed Mitigated Negative Declaration/Environmental Assessment and Section 4(f) Evaluation STPLCM-5482(013) (IS/EA)*.

The *IS/EA* describes the project as including a four-lane configuration with 12-foot-wide lanes. However, the design standards for both the City of Rancho Cordova¹ and Sacramento County² specify that 4-lane and 6-lane arterials shall have 11' lanes with 12' inside lanes. The *IS/EA* doesn't indicate a reason for this design exception. Marking 11' and 12' lanes can free up one to two feet of pavement on each side of the roadway that could be used for additional shoulder width or bike lane buffers within segments, and for curb extensions at intersections. All references to roadway lane widths should be changed to "11' lanes with 12' inside lanes", especially in the project description on page *i* and the build alternative on page 12.

F-1

The *IS/EA* also describes the project as having 3-foot-wide shoulders with no mention of sidewalks. It should be anticipated that pedestrians will travel along White Rock Road within the project area, including the existing industrial area at the western end of the project area and particularly at the Westborough Specific Plan and Rio Del Oro Specific Plan areas when development occurs. The regulatory setting of the *IS/EA* is discussed on page 78 in Section 2.1.5 Traffic and Transportation/Pedestrian and Bicycle Facilities, which states that Federal-aid highway projects should give full consideration to safe accommodation of pedestrians. The Cumulative Impacts "Traffic and Transportation/Pedestrian and Bicycle Facilities" section for the Build Alternative on page 226 states "The proposed project would also have a beneficial impact to pedestrian and bicycle facilities by adding bike lanes and sidewalks where there currently are none." A shoulder is not a safe travelway for pedestrians, especially when traffic volumes and speeds are high, such as is expected for White Rock Road. Sidewalks should be

F-2

¹ <http://www.cityofranhocordova.org/Modules/ShowDocument.aspx?documentid=9350>

² http://www.engineering.saccounty.net/Documents/Sect4StreetStds_Saccounty_%20Ver11_01_09.pdf

Letter F Continued

constructed with the project or a schedule for sidewalk construction should be part of the proposed project.

The October 2010 *White Rock Road Improvements Initial Study (Control Number 2009-70081)* on page IS-14 identifies three goals and policies of the City of Rancho Cordova General Plan that are applicable to the project, one of which relates to pedestrians. Policy C.1.11 reads "As part of major individual roadway enhancement project (e.g., intersection redesign, signalization of previously un-signalized intersection), enhance and upgrade pedestrian and bicycle facilities within one-quarter mile of the project." This policy is not found in the *IS/EA*. The *IS/EA* should include discussion of Policy C.1.11 in Section 2.1.1.2 Consistency with State, Regional, and Local Plans and Programs, and include Policy C.1.11 in Table 2.1-2 Consistency with Local Plans and Programs

WALKSacramento is working to support increased physical activity such as walking and bicycling in local neighborhoods as well as helping to create community environments that support walking and bicycling. The benefits include improved physical fitness, less motor vehicle traffic congestion, better air quality, and a stronger sense of cohesion and safety in local neighborhoods.

Thank you for your consideration of these comments and recommendations. If you have questions or need additional information, please contact me at (916) 446-9255.

Sincerely,
Chris Holm
Project Manager

F-2
cont.

F-3

December 1, 2015

SENT VIA E-MAIL

Kelly McNally, Associate Environmental Planner
Department of Transportation, Environmental Planning
703 B Street, Marysville, CA 95901

**Subject: White Rock Road Widening Project Initial Study with
Proposed Mitigated Negative Declaration/
Environmental Assessment and Section 4(f)
Evaluation**

Dear Ms. McNally:

Thank you for providing the Sacramento Metropolitan Air Quality Management District (District) with the opportunity to review the Initial Study with Proposed Mitigated Negative Declaration / Environmental Assessment and Section 4(f) Evaluation (MND/EA) for this project. District comments follow.

Construction Emissions

The District's *Guide to Air Quality Assessment in Sacramento County* (Guide) lists the analysis expectations for construction-generated criteria air pollutant emissions. Following is an overview of applicable expectations where we request more information.

- Timing, phasing and duration of construction – the MND/EA provides a brief discussion, but please provide us the model output for the Road Construction Emissions Model (RCEM) used for the data in table 2.2-5 so we can properly evaluate it.
- Quantification of daily emissions for reactive organic gases (ROG), oxides of nitrogen (NOx) and particulate matter (PM) – table 2.2-5 provides this, but the RCEM model output is also necessary to evaluate this table.
- Total construction emissions for ROG, NOx and PM – please state this explicitly.
- Discussion of whether emissions exceed the District's NOx threshold (available in the Guide) – please explicitly reference the District's NOx threshold.

G-1

Letter G Continued

- Significance determination about construction-generated emissions without mitigation – please include this.
- Discussion of feasible mitigation necessary to reduce impacts and whether the reduction is sufficient to reduce impacts to a less-than-significant (LTS) level – we commend inclusion of the District’s Enhance Exhaust Control Practices as mitigation, but please include a discussion of whether it is sufficient to reduce impacts to LTS.

G-1
cont.

Additionally, the MND/EA Climate Change section does not include a discussion of whether emissions exceed the District’s threshold for construction-generated greenhouse gases. Please include this discussion and mitigation as appropriate.

Carbon Monoxide Hot Spots

The Carbon Monoxide (CO) hot spot analysis seems to reference section 4.7.1 of the Caltrans *Transportation Project-Level Carbon Monoxide CO Protocol* to determine that the project will not worsen air quality and no further analysis is needed. The three criteria for worsening air quality in 4.7.1 are that the project significantly increases the percentage of vehicles operating in cold start mode, the project significantly increases traffic volumes, and that the project worsens traffic flow. The evaluation of the criterion on cold starts relies on information from the Air Quality Study Report. Please provide us with this report.

The criteria references MND/EA traffic analyses, although the MND/EA traffic and transportation section indicates that there would be higher traffic volumes on the road as a result of the widening, regardless of the project’s effects on volumes in the overall area’s transportation network. Please explicitly state whether this criterion is fulfilled before determining that no further analysis is needed.

G-2

Further, this analysis says that existing CO concentrations in the project area are substantially below ambient air quality standards, and includes this as rationale for providing no further analysis of localized mobile-source CO concentrations. However, the MND/EA does not provide estimated CO concentrations for the project build alternative, only emissions generated per year. Please provide this estimate, and associated model output. Finally, for your reference, please note that the District’s Guide to air quality assessment also provides some guidance for CO dispersion modeling.

Mobile Source Air Toxics

Please expand the discussion of mobile source air toxics (MSATs) to include California agencies’ regulatory and scientific framework for addressing MSATs. The MND/EA discusses MSATs from the federal perspective in highlighting the Federal Highway Administration’s position that appropriate tools do not exist to forecast project-specific health impacts due to changes in MSAT emissions. Expanding the discussion to include California frameworks would provide a more complete perspective. This would include

G-3

Letter G Continued

referencing the California Air Resources Board *Air Quality and Land use Handbook*, the District's *Recommended Protocol For Evaluating The Location Of Sensitive Land Uses Adjacent To Major Roadways*, and the Office of Environmental Health Hazard Assessment's *Guidance Manual for Preparation of Health Risk Assessments*.

G-3
cont.

Multimodal Accommodations

As the project area builds out, the roadway will need to accommodate its pedestrian and bicycle needs. The MND/EA does not provide complete improvement dimensions for the project, including cross sections, so it is not possible to fully evaluate the extent to which it anticipates these needs. It is important to note, however, that environmental review for future improvements to the roadway, to support future development, will need to identify and mitigate any impacts to pedestrian and bicycle transportation as consistent with applicable general plan elements, specific plans, and pedestrian or bicycle plans.

G-4

General Comments

All projects are subject to SMAQMD rules and regulations in effect at the time of construction. The attached document describes SMAQMD rules which may apply to this project whether the air quality impacts are determined to be significant or not. If you have additional questions or require further assistance, please contact me at mwright@airquality.org or 916-874-4207

G-5

Sincerely,



Molly Wright
Air Quality Planner / Analyst

Attachment: SMAQMD Rules and Regulations Statement

Cc: Larry Robinson, Program Coordinator, SMAQMD

Letter G Continued

SMAQMD Rules & Regulations Statement (revised 3/12)

The following statement is recommended as standard condition of approval or construction document language for all development projects within the Sacramento Metropolitan Air Quality Management District (SMAQMD):

All projects are subject to SMAQMD rules in effect at the time of construction. A complete listing of current rules is available at www.airquality.org or by calling 916.874.4800. Specific rules that may relate to construction activities or building design may include, but are not limited to:

Rule 201: General Permit Requirements. Any project that includes the use of equipment capable of releasing emissions to the atmosphere may require permit(s) from SMAQMD prior to equipment operation. The applicant, developer, or operator of a project that includes an emergency generator, boiler, or heater should contact the SMAQMD early to determine if a permit is required, and to begin the permit application process. Portable construction equipment (e.g. generators, compressors, pile drivers, lighting equipment, etc.) with an internal combustion engine over 50 horsepower are required to have a SMAQMD permit or a California Air Resources Board portable equipment registration. Other general types of uses that require a permit include, but are not limited to dry cleaners, gasoline stations, spray booths, and operations that generate airborne particulate emissions.

Rule 403: Fugitive Dust. The developer or contractor is required to control dust emissions from earth moving activities, storage or any other construction activity to prevent airborne dust from leaving the project site.

Rule 414: Water Heaters, Boilers and Process Heaters Rated Less Than 1,000,000 BTU PER Hour. The developer or contractor is required to install water heaters (including residence water heaters), boilers or process heaters that comply with the emission limits specified in the rule.

Rule 417: Wood Burning Appliances. This rule prohibits the installation of any new, permanently installed, indoor or outdoor, uncontrolled fireplaces in new or existing developments.

Rule 442: Architectural Coatings. The developer or contractor is required to use coatings that comply with the volatile organic compound content limits specified in the rule.

Rule 460: Adhesives and Sealants. The developer or contractor is required to use adhesives and sealants that comply with the volatile organic compound content limits specified in the rule.

Rule 902: Asbestos. The developer or contractor is required to notify SMAQMD of any regulated renovation or demolition activity. Rule 902 contains specific requirements for surveying, notification, removal, and disposal of asbestos containing material.

Naturally Occurring Asbestos: The developer or contractor is required to notify SMAQMD of earth moving projects, greater than 1 acre in size in areas "Moderately Likely to Contain Asbestos" within eastern Sacramento County. Asbestos Airborne Toxic Control Measures, Section 93105 & 93106 contain specific requirements for surveying, notification, and handling soil that contains naturally occurring asbestos.

Letter H



Edmund G. Brown Jr.
Governor

STATE OF CALIFORNIA
Governor's Office of Planning and Research
State Clearinghouse and Planning Unit



Ken Alex
Director

December 1, 2015

Pat Angell
City of Rancho Cordova
2729 Prospect Park Drive
Rancho Cordova, CA 95670

Subject: White Rock Road Widening
SCH#: 2015102083

Dear Pat Angell:

The State Clearinghouse submitted the above named Mitigated Negative Declaration to selected state agencies for review. On the enclosed Document Details Report please note that the Clearinghouse has listed the state agencies that reviewed your document. The review period closed on November 30, 2015, and the comments from the responding agency (ies) is (are) enclosed. If this comment package is not in order, please notify the State Clearinghouse immediately. Please refer to the project's ten-digit State Clearinghouse number in future correspondence so that we may respond promptly.

Please note that Section 21104(c) of the California Public Resources Code states that:

"A responsible or other public agency shall only make substantive comments regarding those activities involved in a project which are within an area of expertise of the agency or which are required to be carried out or approved by the agency. Those comments shall be supported by specific documentation."

A-1

These comments are forwarded for use in preparing your final environmental document. Should you need more information or clarification of the enclosed comments, we recommend that you contact the commenting agency directly.

This letter acknowledges that you have complied with the State Clearinghouse review requirements for draft environmental documents, pursuant to the California Environmental Quality Act. Please contact the State Clearinghouse at (916) 445-0613 if you have any questions regarding the environmental review process.

Sincerely,


Scott Morgan
Director, State Clearinghouse

Enclosures
cc: Resources Agency

1400 TENTH STREET P.O. BOX 3044 SACRAMENTO, CALIFORNIA 95812-3044
TEL (916) 445-0613 FAX (916) 323-3018 www.opr.ca.gov

Letter H Continued

Document Details Report
State Clearinghouse Data Base

SCH# 2015102083
Project Title White Rock Road Widening
Lead Agency Rancho Cordova, City of

Type MND Mitigated Negative Declaration
Description Proposed improvement of the 6-lane portion of White Rock Road near its intersection with Sunrise Boulevard and the widening of White Rock Road from 2 lanes to 4 lanes from Luyung Drive to Grant Line Road. This includes median, shoulder, and bike lane improvements.

Lead Agency Contact

Name Pat Angell
Agency City of Rancho Cordova
Phone 916 231 3373 **Fax**
email
Address 2729 Prospect Park Drive
City Rancho Cordova **State** CA **Zip** 95670

Project Location

County Sacramento
City Rancho Cordova
Region
Lat / Long 38° 58' N / 121° 25' W
Cross Streets White Rock Road and Sunrise Boulevard

Parcel No.	Township	Range	Section	Base
------------	----------	-------	---------	------

Proximity to:

Highways US 50
Airports Mather
Railways UPRR
Waterways Buffalo Creek
Schools
Land Use Existing roadway

Project Issues Aesthetic/Visual; Air Quality; Archaeologic-Historic; Biological Resources; Drainage/Absorption; Flood Plain/Flooding; Noise; Population/Housing Balance; Public Services; Soil Erosion/Compaction/Grading; Toxic/Hazardous; Traffic/Circulation; Vegetation; Water Quality; Wetland/Riparian; Growth Inducing; Landuse; Cumulative Effects

Reviewing Agencies Resources Agency; Department of Fish and Wildlife, Region 2; Department of Parks and Recreation; Department of Water Resources; Caltrans, Division of Aeronautics; California Highway Patrol; Caltrans, District 3 S; Air Resources Board; Regional Water Quality Control Bd., Region 5 (Sacramento); Department of Toxic Substances Control; Native American Heritage Commission; Public Utilities Commission

Date Received 10/29/2015 **Start of Review** 10/29/2015 **End of Review** 11/30/2015

Note: Blanks in data fields result from insufficient information provided by lead agency.

Letter H Continued

STATE OF CALIFORNIA—CALIFORNIA STATE TRANSPORTATION AGENCY

EDMUND G. BROWN Jr., Governor

DEPARTMENT OF TRANSPORTATION
DISTRICT 3—SACRAMENTO AREA OFFICE
2379 GATEWAY OAKS DRIVE, SUITE 150
SACRAMENTO, CA 95833
PHONE (916) 274-0638
FAX (916) 274-0602
TTY 711
www.dot.ca.gov



*Serious drought.
Help save water!*

November 30, 2015



032015-SAC-0175
03-SAC-50 PM 17.278
SCH # 2015102083

Mr. Pat Angell
City of Rancho Cordova
2729 Prospect Park Drive
Rancho Cordova, CA 95670

White Rock Road Widening- Mitigated Negative Declaration (MND)

Dear Mr. Angell:

Thank you for including the California Department of Transportation (Caltrans) in the review process for the White Rock Road Widening MND. Caltrans' new mission, vision, and goals signal a modernization of our approach to California's transportation system. We review this local development for impacts to the State Highway System (SHS) in keeping with our mission, vision and goals for sustainability/livability/economy, and safety/health. We provide these comments consistent with the State's smart mobility goals that support a vibrant economy, and build communities, not sprawl.

The MND is for a proposed improvement of the 6-lane portion of White Rock Road near its intersection with Sunrise Boulevard and the widening of White Rock Road from 2 lanes to 4 lanes from Luyung Drive to Grant Line Road. The widening includes two 12-foot wide lanes in each direction, 14-foot wide median, two 6-foot wide bike lanes, and two 3-foot wide shoulders. The following comments are based on the MND received.

Traffic Operations

- As identified by Table 2.1-7, access control will have significant impact to the roadway capacity. It has been observed that existing driveways from the adjacent warehouses and quarries have generated delay and congestion on this segment of White Rock Rd. Therefore, during the PS&E phase of the project, we advise the project sponsor have a plan to control the access to the project to maintain roadway capacity.
- Table 2.1-12 indicates that the intersection of Fitzgerald Road-Sunrise Park Drive/White Rock Road will be a signalized intersection by year 2030. Currently, the existing intersection is stop sign controlled and operating at LOS F for the eastbound direction

"Provide a safe, sustainable, integrated, and efficient transportation system to enhance California's economy and livability"

Letter H Continued

Mr. Pat Angell, City of Rancho Cordova
November 30, 2015
Page 2

during the PM peak hour. We suggest this intersection be signalized during the widening of White Rock Rd. By signalizing this intersection, it would reduce delay and improve multi-modal safety.

Please provide our office with copies of any further actions regarding this project. We would appreciate the opportunity to review and comment on any changes related to this development.

If you have any questions regarding these comments or require additional information, please contact Emily Mraovich, Intergovernmental Review Coordinator at (916) 274-0635 or by email at: emily.mraovich@dot.ca.gov.

Sincerely,

JEFFERY MORNEAU, Chief (Acting)
Office of Transportation Planning—South

"Provide a safe, sustainable, integrated, and efficient transportation system to enhance California's economy and livability"

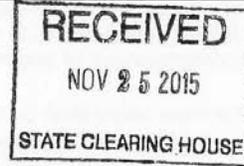
Letter H Continued



Central Valley Regional Water Quality Control Board

23 November 2015

*clear
11/20/15
E*



Pat Angell
City of Rancho Cordova
2729 Prospect Park Drive
Rancho Cordova, CA 95670

CERTIFIED MAIL
91 7199 9991 7035 8420 8922

COMMENTS TO REQUEST FOR REVIEW FOR THE MITIGATED NEGATIVE DECLARATION, WHITE ROCK ROAD WIDENING PROJECT, SCH# 2015102083, SACRAMENTO COUNTY

Pursuant to the State Clearinghouse's 29 October 2015 request, the Central Valley Regional Water Quality Control Board (Central Valley Water Board) has reviewed the *Request for Review for the Mitigated Negative Declaration* for the White Rock Road Widening Project, located in Sacramento County.

Our agency is delegated with the responsibility of protecting the quality of surface and groundwaters of the state; therefore our comments will address concerns surrounding those issues.

I. Regulatory Setting

Basin Plan

The Central Valley Water Board is required to formulate and adopt Basin Plans for all areas within the Central Valley region under Section 13240 of the Porter-Cologne Water Quality Control Act. Each Basin Plan must contain water quality objectives to ensure the reasonable protection of beneficial uses, as well as a program of implementation for achieving water quality objectives with the Basin Plans. Federal regulations require each state to adopt water quality standards to protect the public health or welfare, enhance the quality of water and serve the purposes of the Clean Water Act. In California, the beneficial uses, water quality objectives, and the Antidegradation Policy are the State's water quality standards. Water quality standards are also contained in the National Toxics Rule, 40 CFR Section 131.36, and the California Toxics Rule, 40 CFR Section 131.38.

The Basin Plan is subject to modification as necessary, considering applicable laws, policies, technologies, water quality conditions and priorities. The original Basin Plans were adopted in 1975, and have been updated and revised periodically as required, using Basin Plan amendments. Once the Central Valley Water Board has adopted a Basin Plan amendment in noticed public hearings, it must be approved by the State Water Resources Control Board (State Water Board), Office of Administrative Law (OAL) and in some cases,

KARL E. LONGLEY ScD, P.E., CHAIR | PAMELA C. CREEDON P.E., BCEE, EXECUTIVE OFFICER

11020 Sun Center Drive #200, Rancho Cordova, CA 95670 | www.waterboards.ca.gov/centralvalley



Letter H Continued

White Rock Road Widening Project
Sacramento County

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23 November 2015

the United States Environmental Protection Agency (USEPA). Basin Plan amendments only become effective after they have been approved by the OAL and in some cases, the USEPA. Every three (3) years, a review of the Basin Plan is completed that assesses the appropriateness of existing standards and evaluates and prioritizes Basin Planning issues.

For more information on the *Water Quality Control Plan for the Sacramento and San Joaquin River Basins*, please visit our website:

http://www.waterboards.ca.gov/centralvalley/water_issues/basin_plans/.

Antidegradation Considerations

All wastewater discharges must comply with the Antidegradation Policy (State Water Board Resolution 68-16) and the Antidegradation Implementation Policy contained in the Basin Plan. The Antidegradation Policy is available on page IV-15.01 at:

http://www.waterboards.ca.gov/centralvalleywater_issues/basin_plans/sacsjr.pdf

In part it states:

Any discharge of waste to high quality waters must apply best practicable treatment or control not only to prevent a condition of pollution or nuisance from occurring, but also to maintain the highest water quality possible consistent with the maximum benefit to the people of the State.

This information must be presented as an analysis of the impacts and potential impacts of the discharge on water quality, as measured by background concentrations and applicable water quality objectives.

The antidegradation analysis is a mandatory element in the National Pollutant Discharge Elimination System and land discharge Waste Discharge Requirements (WDRs) permitting processes. The environmental review document should evaluate potential impacts to both surface and groundwater quality.

II. Permitting Requirements

Construction Storm Water General Permit

Dischargers whose project disturb one or more acres of soil or where projects disturb less than one acre but are part of a larger common plan of development that in total disturbs one or more acres, are required to obtain coverage under the General Permit for Storm Water Discharges Associated with Construction Activities (Construction General Permit), Construction General Permit Order No. 2009-009-DWQ. Construction activity subject to this permit includes clearing, grading, grubbing, disturbances to the ground, such as stockpiling, or excavation, but does not include regular maintenance activities performed to restore the original line, grade, or capacity of the facility. The Construction General Permit requires the development and implementation of a Storm Water Pollution Prevention Plan

Letter H Continued

White Rock Road Widening Project
Sacramento County

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23 November 2015

(SWPPP).

For more information on the Construction General Permit, visit the State Water Resources Control Board website at:
http://www.waterboards.ca.gov/water_issues/programs/stormwater/constpermits.shtml.

Phase I and II Municipal Separate Storm Sewer System (MS4) Permits¹

The Phase I and II MS4 permits require the Permittees reduce pollutants and runoff flows from new development and redevelopment using Best Management Practices (BMPs) to the maximum extent practicable (MEP). MS4 Permittees have their own development standards, also known as Low Impact Development (LID)/post-construction standards that include a hydromodification component. The MS4 permits also require specific design concepts for LID/post-construction BMPs in the early stages of a project during the entitlement and CEQA process and the development plan review process.

For more information on which Phase I MS4 Permit this project applies to, visit the Central Valley Water Board website at:
http://www.waterboards.ca.gov/centralvalley/water_issues/storm_water/municipal_permits/.

For more information on the Phase II MS4 permit and who it applies to, visit the State Water Resources Control Board at:
http://www.waterboards.ca.gov/water_issues/programs/stormwater/phase_ii_municipal.shtml

Industrial Storm Water General Permit

Storm water discharges associated with industrial sites must comply with the regulations contained in the Industrial Storm Water General Permit Order No. 2014-0057-DWQ.

For more information on the Industrial Storm Water General Permit, visit the Central Valley Water Board website at:
http://www.waterboards.ca.gov/centralvalley/water_issues/storm_water/industrial_general_permits/index.shtml.

Clean Water Act Section 404 Permit

If the project will involve the discharge of dredged or fill material in navigable waters or wetlands, a permit pursuant to Section 404 of the Clean Water Act may be needed from the United States Army Corps of Engineers (USACOE). If a Section 404 permit is required by the USACOE, the Central Valley Water Board will review the permit application to ensure that discharge will not violate water quality standards. If the project requires surface water

¹ Municipal Permits = The Phase I Municipal Separate Storm Water System (MS4) Permit covers medium sized Municipalities (serving between 100,000 and 250,000 people) and large sized municipalities (serving over 250,000 people). The Phase II MS4 provides coverage for small municipalities, including non-traditional Small MS4s, which include military bases, public campuses, prisons and hospitals.

Letter H Continued

White Rock Road Widening Project
Sacramento County

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23 November 2015

drainage realignment, the applicant is advised to contact the Department of Fish and Game for information on Streambed Alteration Permit requirements.

If you have any questions regarding the Clean Water Act Section 404 permits, please contact the Regulatory Division of the Sacramento District of USACOE at (916) 557-5250.

Clean Water Act Section 401 Permit – Water Quality Certification

If an USACOE permit (e.g., Non-Reporting Nationwide Permit, Nationwide Permit, Letter of Permission, Individual Permit, Regional General Permit, Programmatic General Permit), or any other federal permit (e.g., Section 10 of the Rivers and Harbors Act or Section 9 from the United States Coast Guard), is required for this project due to the disturbance of waters of the United States (such as streams and wetlands), then a Water Quality Certification must be obtained from the Central Valley Water Board prior to initiation of project activities. There are no waivers for 401 Water Quality Certifications.

Waste Discharge Requirements – Discharges to Waters of the State

If USACOE determines that only non-jurisdictional waters of the State (i.e., "non-federal" waters of the State) are present in the proposed project area, the proposed project may require a Waste Discharge Requirement (WDR) permit to be issued by Central Valley Water Board. Under the California Porter-Cologne Water Quality Control Act, discharges to all waters of the State, including all wetlands and other waters of the State including, but not limited to, isolated wetlands, are subject to State regulation.

For more information on the Water Quality Certification and WDR processes, visit the Central Valley Water Board website at:
http://www.waterboards.ca.gov/centralvalley/help/business_help/permit2.shtml.

Regulatory Compliance for Commercially Irrigated Agriculture

If the property will be used for commercial irrigated agricultural, the discharger will be required to obtain regulatory coverage under the Irrigated Lands Regulatory Program. There are two options to comply:

1. **Obtain Coverage Under a Coalition Group.** Join the local Coalition Group that supports land owners with the implementation of the Irrigated Lands Regulatory Program. The Coalition Group conducts water quality monitoring and reporting to the Central Valley Water Board on behalf of its growers. The Coalition Groups charge an annual membership fee, which varies by Coalition Group. To find the Coalition Group in your area, visit the Central Valley Water Board's website at: http://www.waterboards.ca.gov/centralvalley/water_issues/irrigated_lands/app_approval/index.shtml; or contact water board staff at (916) 464-4611 or via email at IrrLands@waterboards.ca.gov.
2. **Obtain Coverage Under the General Waste Discharge Requirements for Individual Growers, General Order R5-2013-0100.** Dischargers not participating

Letter H Continued

White Rock Road Widening Project
Sacramento County

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23 November 2015

in a third-party group (Coalition) are regulated individually. Depending on the specific site conditions, growers may be required to monitor runoff from their property, install monitoring wells, and submit a notice of intent, farm plan, and other action plans regarding their actions to comply with their General Order. Yearly costs would include State administrative fees (for example, annual fees for farm sizes from 10-100 acres are currently \$1,084 + \$6.70/Acre); the cost to prepare annual monitoring reports; and water quality monitoring costs. To enroll as an Individual Discharger under the Irrigated Lands Regulatory Program, call the Central Valley Water Board phone line at (916) 464-4611 or e-mail board staff at IrrLands@waterboards.ca.gov.

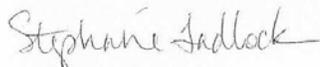
Low or Limited Threat General NPDES Permit

If the proposed project includes construction dewatering and it is necessary to discharge the groundwater to waters of the United States, the proposed project will require coverage under a National Pollutant Discharge Elimination System (NPDES) permit. Dewatering discharges are typically considered a low or limited threat to water quality and may be covered under the General Order for *Dewatering and Other Low Threat Discharges to Surface Waters* (Low Threat General Order) or the General Order for *Limited Threat Discharges of Treated/Untreated Groundwater from Cleanup Sites, Wastewater from Superchlorination Projects, and Other Limited Threat Wastewaters to Surface Water* (Limited Threat General Order). A complete application must be submitted to the Central Valley Water Board to obtain coverage under these General NPDES permits.

For more information regarding the Low Threat General Order and the application process, visit the Central Valley Water Board website at:
http://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/general_orders/r5-2013-0074.pdf

For more information regarding the Limited Threat General Order and the application process, visit the Central Valley Water Board website at:
http://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/general_orders/r5-2013-0073.pdf

If you have questions regarding these comments, please contact me at (916) 464-4644 or Stephanie.Tadlock@waterboards.ca.gov.



Stephanie Tadlock
Environmental Scientist

cc: State Clearinghouse unit, Governor's Office of Planning and Research, Sacramento

List of Technical Studies

Air Quality Study Report, December 2014, Ambient Air Quality & Noise Consulting

Air Quality Conformity Analysis, December 2015, Environmental Science Associates

Archaeological Survey Report, December 2014, AECOM

Biological Assessment, January 2014, PMC

Geotechnical Report, May 2012, Wallace Kuhl & Associates

Historic Property Survey Report, March 2015, AECOM

Historic Resources Evaluation Report, December 2014, AECOM

Initial Site Assessment, May 2015, Red Rock Inc.

Natural Environment Study, February 2014, PMC

Noise Study Report, January 2014, Ambient Air Quality & Noise Consulting

Revised Initial Site Assessment Addendum and Sampling and Analysis Plan, May 2015, Apex Envirotech, Inc.

Transportation Analysis, September 2008, DKS Associates

Traffic Analysis Memorandum, October 2013, DKS Associates

Traffic Supplemental Analysis, April 2014, DKS Associates

Visual Impact Memorandum, February 2013, PMC

Water Quality Report, April 2012, Sacramento County