

# SAN JOAQUIN RIVER RESTORATION PROGRAM: SALMON CONSERVATION AND RESEARCH FACILITY AND RELATED FISHERIES MANAGEMENT ACTIONS PROJECT

Final Environmental Impact Report

April 2014



## **Appendix A**

# **DEIR NOTICES AND MAILING LIST**

This appendix contains the Notice of Availability of the DEIR, the Notice of Completion of the DEIR that was sent to the State Office of Planning and Research (OPR), the newspaper advertisements announcing the availability of the DEIR and details regarding the public meetings, and the distribution list for DEIR notices.

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# DEIR Notice of Availability

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October 7, 2013

**Re: Notice of Availability of a Draft Environmental Impact Report Regarding the Proposed Salmon Conservation and Research Facility and Related Management Actions Project**

To Interested Parties:

**NOTICE IS HEREBY GIVEN** that the California Department of Fish and Wildlife (CDFW), as lead agency under the California Environmental Quality Act (CEQA), is making available a draft environmental impact report (DEIR) for public review. CDFW, formerly known as the California Department of Fish and Game, has prepared this DEIR to provide the public, responsible agencies, and trustee agencies with information about the potential environmental effects of the proposed Salmon Conservation and Research Facility (SCARF) and Related Fisheries Management Actions Project (Project or Proposed Project). This DEIR was prepared in compliance with the California Environmental Quality Act (CEQA) of 1970 (as amended) and the State CEQA Guidelines (California Code of Regulations [CCR] title 14, section (§) 15000 et seq.). CDFW hereby invites comments on the adequacy and completeness of the environmental analyses in the DEIR.

**PROJECT LOCATION:** The SCARF would be located at the address currently listed as 17372 Brook Trout Drive in Friant, Fresno County, California. The SCARF site is adjacent to the San Joaquin River approximately 1.1 miles downstream of Friant Dam, immediately west of CDFW's existing San Joaquin Fish Hatchery (SJFH). The Project Area also includes other locations where physical actions that are part of the Proposed Project would take place, including broodstock collection sites, quarantine sites, Chinook salmon production and reintroduction sites, and fisheries management and research areas. The DEIR also makes reference to the Restoration Area, which includes the San Joaquin River below Friant Dam to the confluence of the Merced River, and the Potentially Affected Area, including the portions of the San Joaquin River watershed, Sacramento River watershed, Sacramento-San Joaquin Delta (Delta), San Francisco Bay, and Pacific Ocean that are accessible to salmon released under the Proposed Project.

**PROJECT DESCRIPTION AND ENVIRONMENTAL REVIEW:** The Proposed Project, as analyzed in this DEIR, consists of evaluation of the proposed construction and operation of the SCARF and associated improvements and activities. The primary purpose of the SCARF is to produce Chinook salmon for reintroduction to the San Joaquin River. The SCARF would provide CDFW with the ability to use relatively small numbers of Chinook salmon eggs and juveniles collected from various donor populations to develop a broodstock. This broodstock would enable CDFW to produce a conservation stock that is genetically diverse, while minimizing impacts to source populations. Thus, the SCARF would play an important role in achieving the SJRRP spring-run Chinook salmon population objectives established in the FMP.

The DEIR evaluates the potential environmental impacts of the Proposed Project and four project alternatives: the No Project Alternative (CDFW would not construct the SCARF or other facilities to propagate spring-run or fall-run Chinook salmon); the Spring-Run Only Alternative (which would reintroduce only spring-run Chinook salmon to the Restoration Area; no fall-run Chinook salmon would be actively reintroduced); the Hatchery Broodstock Only Alternative (only the Feather River Fish Hatchery would be used to provide a source of spring-run broodstock; no

wild sources of broodstock would be used); and the SCARF siting Alternative (the SCARF would be constructed at an alternative site).

In accordance with CEQA Guidelines §415087, given the size of the Proposed Project area, it is possible that hazardous waste sites or listed toxic sites listed by the Department of Toxic Substances Control (Cal-EPA) may be present in the area. The analysis in the DEIR concluded that the location for the SCARF facility does not overlap with listed sites and did not identify any potentially significant impacts that would require mitigation to reduce effects to a less-than-significant level, or that would be significant and unavoidable. Other facilities to be constructed under the Proposed Project would be evaluated for their potential to be located on a hazardous waste site or listed toxic site listed by the Department of Toxic Substances Control (Cal-EPA) once their specific locations have been identified.

**DOCUMENT AVAILABILITY:** The DEIR and supporting documents are available for download from the CDFW's website: <http://www.dfg.ca.gov/news/pubnotice/>.

Printed copies of the DEIR and supporting documents are available to review during regular business hours at CDFW's offices in Fresno and Sacramento (listed below). Copies are also available to review at county libraries in Davis, Fresno, Los Banos, Sacramento, Visalia, Willows, and Yolo (listed below). CDs are available on request by phoning (510) 986-1850 or emailing [REG4SCARFCEQA@wildlife.ca.gov](mailto:REG4SCARFCEQA@wildlife.ca.gov). They will also be available at the public meetings in Fresno and Sacramento. Printed copies are also available at cost plus postage, upon request using the above contact information.

**PUBLIC REVIEW PERIOD:** The DEIR is available for a 45-day public review and comment period, which begins on October 7, 2013 and ends at 5 p.m. on November 21, 2013. **Please send comments on the DEIR at the earliest possible date, but postmarked no later than 5 p.m. on November 21, 2013 in order for your comments to be considered.**

Comments may be mailed to the following address:

California Department of Fish and Wildlife  
ATTN: Gerald Hatler, SCARF Draft EIR Comments  
1234 E. Shaw Avenue  
Fresno, CA 93710

Written comments may also be submitted by email to: [REG4SCARFCEQA@wildlife.ca.gov](mailto:REG4SCARFCEQA@wildlife.ca.gov). Emailed comments are preferred, and should include your name, address, and daytime telephone number so a representative of CDFW can contact you if clarifications regarding your comments are required.

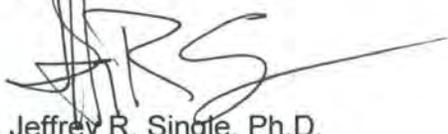
All comments received, including names and addresses, will become part of the official public record. A Final Environmental Impact Report will be prepared which will include responses to comments received during the public review period.

**PUBLIC MEETINGS:** All interested persons are encouraged to attend the public meetings to present written and/or verbal comments on the DEIR. Two public meetings will be held at the following locations and times:

- Fresno, CA: Monday, November 4, 2013 from 6:00 to 8:00 p.m. at the California Retired Teachers Association Building (3930 E. Saginaw Way, Fresno, CA 93726)

- Sacramento, CA: Wednesday, November 6, 2013 from 6:00 to 8:00 p.m. at the Department of Health Care Services and Department of Public Health Building (1500 Capitol Avenue, Sacramento, CA 95814).

Sincerely,

A handwritten signature in black ink, appearing to read 'JRS', with a long horizontal line extending to the right.

Jeffrey R. Single, Ph.D.  
Regional Manager

**Locations where DEIR copies can be reviewed:**

- California Department of Fish and Wildlife, Fresno Office, 1234 East Shaw Avenue, Fresno, CA 93710
- California Department of Fish and Wildlife, Fresno Office, 1130 East Shaw Avenue, Suite 206, Fresno, CA 93710
- California Department of Fish and Wildlife, Sacramento Office, 1416 9<sup>th</sup> Street, 12<sup>th</sup> Floor, Sacramento, CA 95814
- Fresno Central Branch Library, 2420 Mariposa Street, Fresno, CA 93721
- Los Banos Public Library, 1312 South 7<sup>th</sup> Street, Los Banos, CA 93635
- Sacramento Public Library, 828 I Street, Sacramento, CA, 95814
- Visalia Branch Library, 200 West Oak Avenue, Visalia, CA 93291-4931
- Willows Public Library, 201 North Lassen Street, Willows, CA 95988
- Yolo County Library, 37750 Sacramento Street, Yolo, CA 95697
- Yolo County Library, Davis Branch, 315 East 14<sup>th</sup> Street, Davis, CA 95616

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# Notice of DEIR Comment Period Extension

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State of California - Natural Resources Agency  
DEPARTMENT OF FISH AND WILDLIFE  
1234 E. Shaw Avenue  
Fresno, CA 93710  
<http://www.dfg.ca.gov>

**EDMUND G. BROWN JR., Governor**  
**CHARLTON H. BONHAM, Director**

October 31, 2013

**Re: Extension of Public Review Period and Additional Public Meeting for the Draft Environmental Impact Report Regarding the Proposed Salmon Conservation and Research Facility and Related Management Actions Project**

To Interested Parties:

For a week following the beginning of the public review period for the above-referenced project, technical difficulties prevented the use of the email address at which the California Department of Fish and Wildlife (CDFW) is receiving public comments on the Draft Environmental Impact Report (DEIR). For this reason, the public review period has been extended and will end at **5 p.m. on December 2, 2013**.

In addition, a printed copy of the DEIR is now available for review at the Chico Branch of the Butte County Library, in addition to the other locations where printed copies are available (address below).

Finally, CDFW will be holding an additional public meeting in Chico, as follows:

- Chico, CA: Monday, November 18, 2013 from 6:00 to 8:00 p.m. at the Lakeside Pavilion (2565 California Park Drive, Chico, CA 95928)

The remainder of this letter repeats information from the previously distributed Notice of Availability regarding document availability, the public review period, and public meetings.

**DOCUMENT AVAILABILITY:** The DEIR and supporting documents remain available for download from the CDFW's website: <http://www.dfg.ca.gov/news/pubnotice/>. Printed copies of the DEIR and supporting documents are available to review during regular business hours at CDFW's offices in Fresno and Sacramento (listed below). Copies are also available to review at county libraries in Chico, Davis, Fresno, Los Banos, Sacramento, Visalia, Willows, and Yolo (listed below). CDs are available on request by phoning (510) 986-1850 or emailing [REG4SCARFCEQA@wildlife.ca.gov](mailto:REG4SCARFCEQA@wildlife.ca.gov). They will also be available at the public meetings in Fresno, Sacramento and Chico. Printed copies are also available at cost plus postage, upon request using the above contact information.

**PUBLIC REVIEW PERIOD:** The DEIR is available for a 56-day public review and comment period, which begins on October 7, 2013 and ends at 5 p.m. on December 2, 2013. **Please send comments on the DEIR at the earliest possible date, but postmarked no later than 5 p.m. on December 2, 2013 in order for your comments to be considered.**

Comments may be mailed to the following address:

California Department of Fish and Wildlife  
ATTN: Gerald Hatler, SCARF Draft EIR Comments  
1234 E. Shaw Avenue  
Fresno, CA 93710

Written comments may also be submitted by email to: [REG4SCARFCEQA@wildlife.ca.gov](mailto:REG4SCARFCEQA@wildlife.ca.gov). Emailed comments are preferred, and should include your name, address, and daytime

*Conserving California's Wildlife Since 1870*

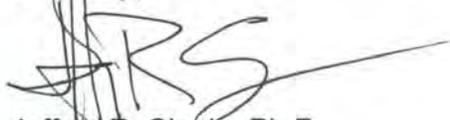
telephone number so a representative of CDFW can contact you if clarifications regarding your comments are required.

All comments received, including names and addresses, will become part of the official public record. A Final Environmental Impact Report will be prepared which will include responses to comments received during the public review period.

**PUBLIC MEETINGS:** All interested persons are encouraged to attend the public meetings to present written and/or verbal comments on the DEIR. Three public meetings will be held at the following locations and times:

- Fresno, CA: Monday, November 4, 2013 from 6:00 to 8:00 p.m. at the California Retired Teachers Association Building (3930 E. Saginaw Way, Fresno, CA 93726)
- Sacramento, CA: Wednesday, November 6, 2013 from 6:00 to 8:00 p.m. at the Department of Health Care Services and Department of Public Health Building (1500 Capitol Avenue, Sacramento, CA 95814)
- Chico, CA: Monday, November 18, 2013 from 6:00 to 8:00 p.m. at the Lakeside Pavilion (2565 California Park Drive, Chico, CA 95928).

Sincerely,



Jeffrey R. Single, Ph.D.  
Regional Manager

**Locations where DEIR copies can be reviewed:**

- California Department of Fish and Wildlife, Fresno Office, 1234 East Shaw Avenue, Fresno, CA 93710
- California Department of Fish and Wildlife, Fresno Office, 1130 East Shaw Avenue, Suite 206, Fresno, CA 93710
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- Los Banos Public Library, 1312 South 7<sup>th</sup> Street, Los Banos, CA 93635
- Sacramento Public Library, 828 I Street, Sacramento, CA, 95814
- Visalia Branch Library, 200 West Oak Avenue, Visalia, CA 93291-4931
- Willows Public Library, 201 North Lassen Street, Willows, CA 95988
- Yolo County Library, 37750 Sacramento Street, Yolo, CA 95697
- Yolo County Library, Davis Branch, 315 East 14<sup>th</sup> Street, Davis, CA 95616

# DEIR Notice of Completion

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Notice of Completion & Environmental Document Transmittal

Mail to: State Clearinghouse, P.O. Box 3044, Sacramento, CA 95812-3044 (916) 445-0613
For Hand Delivery/Street Address: 1400 Tenth Street, Sacramento, CA 95814

SCH # 2012111083

Project Title: San Joaquin River Restoration Program: Salmon Conservation and Research Facility and Related Management

Lead Agency: California Department of Fish and Wildlife Contact Person: Gerald Hatler
Mailing Address: 1234 E. Shaw Avenue Phone: 559/243-4014
City: Fresno Zip: 93710 County: Fresno

Project Location: County: Fresno, Madera, Merced, Shasta, City/Nearest Community: Friant; various

Cross Streets: 17372 Brook Trout Drive near North Friant Road Zip Code: 93626

Longitude/Latitude (degrees, minutes and seconds): ... N / ... W Total Acres: ...

Assessor's Parcel No.: ... Section: ... Twp.: ... Range: ... Base: ...

Within 2 Miles: State Hwy #: ... Waterways: ...

Airports: ... Railways: ... Schools: ...

Document Type:

- CEQA: [ ] NOP [x] Draft EIR [ ] Early Cons [ ] Supplement/Subsequent EIR [ ] Neg Dec [ ] Mit Neg Dec [ ] Other:
NEPA: [ ] NOI [ ] EA [ ] Draft EIS [ ] FONSI
Other: [ ] Joint Document [ ] Final Document [ ] Other:

Local Action Type:

- [ ] General Plan Update [ ] Specific Plan [ ] Rezone [ ] Annexation
[ ] General Plan Amendment [ ] Master Plan [ ] Prezone [ ] Redevelopment
[ ] General Plan Element [ ] Planned Unit Development [ ] Use Permit [ ] Coastal Permit
[ ] Community Plan [ ] Site Plan [ ] Land Division (Subdivision, etc.) [ ] Other:

Development Type:

- [ ] Residential: Units \_\_\_\_\_ Acres \_\_\_\_\_
[ ] Office: Sq.ft. \_\_\_\_\_ Acres \_\_\_\_\_ Employees \_\_\_\_\_
[ ] Commercial: Sq.ft. \_\_\_\_\_ Acres \_\_\_\_\_ Employees \_\_\_\_\_
[ ] Industrial: Sq.ft. \_\_\_\_\_ Acres \_\_\_\_\_ Employees \_\_\_\_\_
[ ] Educational: \_\_\_\_\_
[ ] Recreational: \_\_\_\_\_
[ ] Water Facilities: Type \_\_\_\_\_ MGD \_\_\_\_\_
[ ] Transportation: Type \_\_\_\_\_
[ ] Mining: Mineral \_\_\_\_\_
[ ] Power: Type \_\_\_\_\_ MW \_\_\_\_\_
[ ] Waste Treatment: Type \_\_\_\_\_ MGD \_\_\_\_\_
[ ] Hazardous Waste: Type \_\_\_\_\_
[x] Other: fish hatchery

Project Issues Discussed in Document:

- [x] Aesthetic/Visual [ ] Fiscal [x] Recreation/Parks [x] Vegetation
[x] Agricultural Land [x] Flood Plain/Flooding [ ] Schools/Universities [x] Water Quality
[x] Air Quality [ ] Forest Land/Fire Hazard [x] Septic Systems [x] Water Supply/Groundwater
[x] Archeological/Historical [x] Geologic/Seismic [x] Sewer Capacity [x] Wetland/Riparian
[x] Biological Resources [x] Minerals [x] Soil Erosion/Compaction/Grading [x] Growth Inducement
[ ] Coastal Zone [x] Noise [x] Solid Waste [x] Land Use
[x] Drainage/Absorption [x] Population/Housing Balance [x] Toxic/Hazardous [x] Cumulative Effects
[ ] Economic/Jobs [x] Public Services/Facilities [x] Traffic/Circulation [ ] Other:

Present Land Use/Zoning/General Plan Designation:

fish hatchery

Project Description: (please use a separate page if necessary)

The primary purpose of the Salmon Conservation and Research Facility (SCARF) is to produce Chinook salmon for reintroduction to the San Joaquin River. The SCARF also would serve as a research facility for studies related to Chinook salmon in the San Joaquin River Restoration Program Restoration Area. The SCARF would provide CDFW with the ability to use relatively small numbers of Chinook salmon eggs and juveniles collected from various donor populations to develop a broodstock. This broodstock would enable CDFW to produce a conservation stock that is genetically diverse, while minimizing impacts to source populations. The SCARF would include structures, a parking area, water supply and wastewater systems, drainage and stormwater management, an access road, up to two staff residences, and other ancillary improvements.

Note: The State Clearinghouse will assign identification numbers for all new projects. If a SCH number already exists for a project (e.g. Notice of Preparation or previous draft document) please fill in.

**Reviewing Agencies Checklist**

Lead Agencies may recommend State Clearinghouse distribution by marking agencies below with an "X".  
If you have already sent your document to the agency please denote that with an "S".

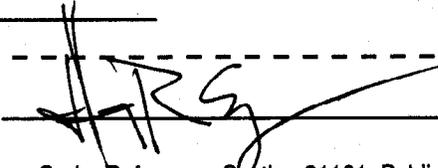
- |   |  |
|---|--|
| <input checked="" type="checkbox"/> Air Resources Board                   | <input type="checkbox"/> Office of Historic Preservation                     |
| <input checked="" type="checkbox"/> Boating & Waterways, Department of    | <input type="checkbox"/> Office of Public School Construction                |
| <input type="checkbox"/> California Emergency Management Agency           | <input checked="" type="checkbox"/> Parks & Recreation, Department of        |
| <input checked="" type="checkbox"/> California Highway Patrol             | <input type="checkbox"/> Pesticide Regulation, Department of                 |
| <input checked="" type="checkbox"/> Caltrans District #6                  | <input type="checkbox"/> Public Utilities Commission                         |
| <input type="checkbox"/> Caltrans Division of Aeronautics                 | <input checked="" type="checkbox"/> Regional WQCB #5                         |
| <input type="checkbox"/> Caltrans Planning                                | <input checked="" type="checkbox"/> Resources Agency                         |
| <input checked="" type="checkbox"/> Central Valley Flood Protection Board | <input type="checkbox"/> Resources Recycling and Recovery, Department of     |
| <input type="checkbox"/> Coachella Valley Mtns. Conservancy               | <input type="checkbox"/> S.F. Bay Conservation & Development Comm.           |
| <input type="checkbox"/> Coastal Commission                               | <input type="checkbox"/> San Gabriel & Lower L.A. Rivers & Mtns. Conservancy |
| <input type="checkbox"/> Colorado River Board                             | <input checked="" type="checkbox"/> San Joaquin River Conservancy            |
| <input type="checkbox"/> Conservation, Department of                      | <input type="checkbox"/> Santa Monica Mtns. Conservancy                      |
| <input type="checkbox"/> Corrections, Department of                       | <input checked="" type="checkbox"/> State Lands Commission                   |
| <input type="checkbox"/> Delta Protection Commission                      | <input type="checkbox"/> SWRCB: Clean Water Grants                           |
| <input type="checkbox"/> Education, Department of                         | <input type="checkbox"/> SWRCB: Water Quality                                |
| <input type="checkbox"/> Energy Commission                                | <input type="checkbox"/> SWRCB: Water Rights                                 |
| <input type="checkbox"/> Fish & Game Region #                             | <input type="checkbox"/> Tahoe Regional Planning Agency                      |
| <input type="checkbox"/> Food & Agriculture, Department of                | <input type="checkbox"/> Toxic Substances Control, Department of             |
| <input type="checkbox"/> Forestry and Fire Protection, Department of      | <input checked="" type="checkbox"/> Water Resources, Department of           |
| <input type="checkbox"/> General Services, Department of                  | <input type="checkbox"/> Other: _____  |
| <input type="checkbox"/> Health Services, Department of                   | <input type="checkbox"/> Other: _____  |
| <input type="checkbox"/> Housing & Community Development                  |  |
| <input checked="" type="checkbox"/> Native American Heritage Commission   |  |

**Local Public Review Period (to be filled in by lead agency)**

Starting Date 10/7/2013 Ending Date 11/21/2013

**Lead Agency (Complete if applicable):**

|   |                       |
|---|-----------------------|
| Consulting Firm: <u>Horizon Water and Environment</u> | Applicant: _____      |
| Address: <u>180 Grand Avenue, Suite 1405</u>          | Address: _____        |
| City/State/Zip: <u>Oakland, CA 94612</u>              | City/State/Zip: _____ |
| Contact: <u>Michael Stevenson</u>                     | Phone: _____          |
| Phone: <u>510/986-1852</u>                            |                       |

Signature of Lead Agency Representative:  Date: 10-2-13

Authority cited: Section 21083, Public Resources Code. Reference: Section 21161, Public Resources Code.

# Newspaper Advertisements on DEIR Availability and Public Meetings

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# Chico Enterprise-Record

400 E. Park Ave.  
Chico, Ca 95928  
530-896-7702  
erlegal@chicoer.com

HORIZON WATER AND ENVIRONMENT  
180 GRAND AVE SUITE 1405  
OAKLAND CA 94612

## IN THE SUPERIOR COURT OF THE STATE OF CALIFORNIA, IN AND FOR THE COUNTY OF BUTTE

In The Matter Of  
**PUBLIC MEETING.**

### AFFIDAVIT OF PUBLICATION

STATE OF CALIFORNIA }  
COUNTY OF BUTTE } **SS.**

The undersigned resident of the county of Butte, State of California, says:

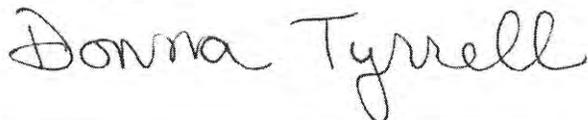
That I am, and at all times herein mentioned was a citizen of the United States and not a party to nor interested in the above entitled matter; that I am the principal clerk of the printer and publisher of

**The Chico Enterprise-Record  
The Oroville Mercury-Register**

That said newspaper is one of general circulation as defined by Section 6000 Government Code of the State of California, Case No. 26796 by the Superior Court of the State of California, in and for the County of Butte; that said newspaper at all times herein mentioned was printed and published daily in the City of Chico and County of Butte; that the notice of which the annexed is a true printed copy, was published in said newspaper on the following days:

**10/7/2013**

Dated October 10, 2013  
at Chico, California



(Signature)

Legal No. **0004990179**

**Join us for a  
CEQA public meeting  
on the  
Salmon Conservation and Research  
Facility and Related Management Actions  
EIR**

The California Department of Fish and Wildlife is circulating a Draft Environmental Impact Report (DEIR) for the Salmon Conservation and Research Facility and Related Management Actions Project for a 45-day review public review and comment period beginning on Monday October 7, 2013 and ending on Thursday, November 21, 2013. During this period, CDFW will hold two public meetings, in Fresno and Sacramento. The purpose of public circulation and the public meetings is to provide agencies and interested individuals with opportunities to comment on or express concerns regarding the contents of the DEIR. There will be two meetings, as follows:

**Monday November 4th " 6:00 p.m.  
California Retired Teachers Association building  
3930 E. Saginaw Way  
Fresno, CA 93726**

**Wednesday November 6th " 6:00 p.m.  
Sacramento Department of Health Care Services and De-  
partment of Public Health Building  
1500 Capitol Avenue  
Sacramento, CA 95814**

**Website: <http://www.dfg.ca.gov/news/pubnotice/>**

Will you need an accommodation in order to attend and/or participate in this event? If so, please contact Michael Stevenson, Horizon Water and Environment at (510) 986-1852. Auxiliary aides and services are available to individuals with disabilities upon request.  
Publish: 10/7/13

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HORIZON WATER AND ENVIRONMENT

180 GRAND AVENUE #1405

OAKLAND, CA 94612

# PROOF OF PUBLICATION

## COUNTY OF FRESNO STATE OF CALIFORNIA

### EXHIBIT A.

The undersigned states:

McClatchy Newspapers in and on all dates herein stated was a corporation, and the owner and publisher of The Fresno Bee.

The Fresno Bee is a daily newspaper of general circulation now published, and on all-the-dates herein stated was published in the City of Fresno, County of Fresno, and has been adjudged a newspaper of general circulation by the Superior Court of the County of Fresno, State of California, under the date of November 22, 1994, Action No. 520058-9.

The undersigned is and on all dates herein mentioned was a citizen of the United States, over the age of twenty-one years, and is the principal clerk of the printer and publisher of said newspaper; and that the notice, a copy of which is hereto annexed, marked Exhibit A, hereby made a part hereof, was published in The Fresno Bee in each issue thereof (in type not smaller than nonpareil), on the following dates.

*Oct. 7, 2013*

PUBLIC NOTICE

#13982  
Join us for a  
**CEQA public meeting**  
on the  
**Salmon Conservation and Research  
Facility and Related Management  
Actions EIR**

The California Department of Fish and Wildlife is circulating a Draft Environmental Impact Report (DEIR) for the Salmon Conservation and Research Facility and Related Management Actions Project for a 45-day review public review and comment period beginning on Monday October 7, 2013 and ending on Thursday, November 21, 2013. During this period, CDFW will hold two public meetings, in Fresno and Sacramento. The purpose of public circulation and the public meetings is to provide agencies and interested individuals with opportunities to comment on or express concerns regarding the contents of the DEIR. There will be two meetings, as follows:

**Monday November 4th 6:00 p.m.**  
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Sacramento Department of Health Care Services  
and Department of Public Health Building  
1500 Capitol Avenue  
Sacramento, CA 95814

Website: <http://www.dfg.ca.gov/news/pubnotice/>

Will you need an accommodation in order to attend and/or participate in this event? If so, please contact Michael Stevenson, Horizon Water and Environment at (510) 986-1852. Auxiliary aides and services are available to individuals with disabilities upon request.

I certify (or declare) under penalty of perjury that the foregoing is true and correct.

Dated OCTOBER 7, 2013

*W. Williams*

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# The Sacramento Bee

P.O. Box 15779 • 2100 Q Street • Sacramento, CA 95852

**HORIZON WATER & ENVIRONMENT  
180 GRAND AVE #1405  
OAKLAND, CA 94612**

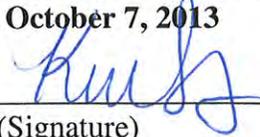
DECLARATION OF PUBLICATION  
(C.C.P. 2015.5)

COUNTY OF SACRAMENTO  
STATE OF CALIFORNIA

I am a citizen of the United States and a resident of the County aforesaid; I am over the age of eighteen years, and not a party to or interested in the above entitled matter. I am the printer and principal clerk of the publisher of The Sacramento Bee, printed and published in the City of Sacramento, County of Sacramento, State of California, daily, for which said newspaper has been adjudged a newspaper of general circulation by the Superior Court of the County of Sacramento, State of California, under the date of September 26, 1994, Action No. 379071; that the notice of which the annexed is a printed copy, has been published in each issue thereof and not in any supplement thereof on the following dates, to wit:

**October 7, 2013**

I certify (or declare) under penalty of perjury that the foregoing is true and correct and that this declaration was executed at Sacramento, California, on **October 7, 2013**

  
\_\_\_\_\_  
(Signature)

**NO 141 PUBLIC NOTICE**

Join us for a  
**CEQA public meeting**  
on the  
**Salmon Conservation and Research  
Facility and Related Management Actions  
EIR**

The California Department of Fish and Wildlife is circulating a Draft Environmental Impact Report (DEIR) for the Salmon Conservation and Research Facility and Related Management Actions Project for a 45-day review public review and comment period beginning on Monday October 7, 2013 and ending on Thursday, November 21, 2013. During this period, CDFW will hold two public meetings, in Fresno and Sacramento. The purpose of public circulation and the public meetings is to provide agencies and interested individuals with opportunities to comment on or express concerns regarding the contents of the DEIR. There will be two meetings, as follows:

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# Chico Enterprise-Record

400 E. Park Ave.  
Chico, Ca 95928  
530-896-7702  
erlegal@chicoer.com

HORIZON WATER AND ENVIRONMENT  
180 GRAND AVE SUITE 1405  
OAKLAND CA 94612

## IN THE SUPERIOR COURT OF THE STATE OF CALIFORNIA, IN AND FOR THE COUNTY OF BUTTE

In The Matter Of  
**CEQA Public Meeting.**

### AFFIDAVIT OF PUBLICATION

STATE OF CALIFORNIA }  
COUNTY OF BUTTE } **SS.**

The undersigned resident of the county of Butte, State of California, says:

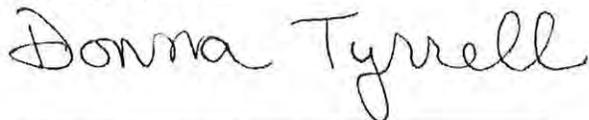
That I am, and at all times herein mentioned was a citizen of the United States and not a party to nor interested in the above entitled matter; that I am the principal clerk of the printer and publisher of

**The Chico Enterprise-Record  
The Oroville Mercury-Register**

That said newspaper is one of general circulation as defined by Section 6000 Government Code of the State of California, Case No. 26796 by the Superior Court of the State of California, in and for the County of Butte; that said newspaper at all times herein mentioned was printed and published daily in the City of Chico and County of Butte; that the notice of which the annexed is a true printed copy, was published in said newspaper on the following days:

**11/4/2013**

Dated November 08, 2013  
at Chico, California



(Signature)

Legal No. **0005016904**

**Join us for a  
CEQA public meeting  
on the  
Salmon Conservation and Research Facility and Related  
Management Actions  
EIR**

The California Department of Fish and Wildlife is circulating a Draft Environmental Impact Report (DEIR) for the Salmon Conservation and Research Facility and Related Management Actions Project for a 56-day review public review and comment period beginning on Monday October 7, 2013 and ending on Monday, December 2, 2013. During this period, CDFW will hold three public meetings, in Fresno, Sacramento and Chico. The purpose of public circulation and the public meetings is to provide agencies and interested individuals with opportunities to comment on or express concerns regarding the contents of the DEIR. There will be three meetings, as follows:

**Monday November 4th @ 6:00 p.m.  
California Retired Teachers Association building  
3930 E. Saginaw Way  
Fresno, CA 93726**

**Wednesday November 6th @ 6:00 p.m.  
Sacramento Department of Health Care Services and Department of Public Health Building  
1500 Capitol Avenue  
Sacramento, CA 95814**

**Monday November 18th @ 6:00 p.m.  
Lakeside Pavilion  
2565 California Park Drive  
Chico, CA 95928**

**Website: <http://www.dfg.ca.gov/news/pubnotice/>**

Will you need an accommodation in order to attend and/or participate in this event? If so, please contact Michael Stevenson, Horizon Water and Environment at (510) 986-1852. Auxiliary aides and services are available to individuals with disabilities upon request.  
Publish: 11/4/13

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**The Fresno Bee**

1626 E Street  
 Fresno, CA 93786  
 (559) 441-6271

**ADVERTISING MEMO INVOICE**

HORIZON WATER AND ENVIRONMENT  
 180 GRAND AVENUE #1405  
 OAKLAND, CA 94612

ACCOUNT NUMBER: F- HORI5109861617  
 AD NUMBER: 043976  
 DATE: NOVEMBER 4, 2013  
 INVOICE NUMBER: T110404397601

PLEASE RETURN DUPLICATE WITH PAYMENT

| START DATE | END DATE | DESCRIPTION                   | CLASS | LINES/ INCHES | # RUN | TOTAL LINES | RATE   | TOTAL AMOUNT |
|------------|----------|-------------------------------|-------|---------------|-------|-------------|--------|--------------|
| 11/04/13   | 11/04/13 | PUBLIC NOTICE # 43976 Join us | 894   | 126           | 1     | 126         | \$ .00 | \$621.18     |
|            |          |                               |       |               |       |             | TOTAL  | \$621.18     |

RATE SHOWN SUBJECT TO ADJUSTMENT AT THE END OF CONTRACT YEAR  
 DEPENDING ON AMOUNT OF SPACE USED

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|            |          |                               |       |               |       |             | TOTAL  | \$621.18     |

RATE SHOWN SUBJECT TO ADJUSTMENT AT THE END OF CONTRACT YEAR  
 DEPENDING ON AMOUNT OF SPACE USED

FMEMO

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# The Sacramento Bee

P.O. Box 15779 • 2100 Q Street • Sacramento, CA 95852

**HORIZON WATER & ENVIRONMENT  
PATRICK DONALDSON  
180 GRAND AVE #1405  
OAKLAND, CA 94612**

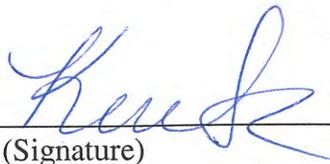
DECLARATION OF PUBLICATION  
(C.C.P. 2015.5)

COUNTY OF SACRAMENTO  
STATE OF CALIFORNIA

I am a citizen of the United States and a resident of the County aforesaid; I am over the age of eighteen years, and not a party to or interest in the above entitled matter. I am the printer and principal clerk of the publisher of The Sacramento Bee, printed and published in the City of Sacramento, County of Sacramento, State of California, daily, for which said newspaper has been adjudged a newspaper of general circulation by the Superior Court of the County of Sacramento, State of California, under the date of September 26, 1994, Action No. 379071; that the notice of which the annexed is a printed copy, has been published in each issue thereof and not in any supplement thereof on the following dates, to wit:

**November 4, 2013**

I certify (or declare) under penalty of perjury that the foregoing is true and correct and that this declaration was executed at Sacramento, California, on **November 4, 2013**

  
(Signature)

**NO 212 PUBLIC NOTICE**

Join us for a  
**CEQA public meeting**  
on the  
**Salmon Conservation and Research  
Facility and Related Management Actions  
EIR**

The California Department of Fish and Wildlife is circulating a Draft Environmental Impact Report (DEIR) for the Salmon Conservation and Research Facility and Related Management Actions Project for a 56-day review public review and comment period beginning on Monday October 7, 2013 and ending on Monday, December 2, 2013. During this period, CDFW will hold three public meetings, in Fresno, Sacramento and Chico. The purpose of public circulation and the public meetings is to provide agencies and interested individuals with opportunities to comment on or express concerns regarding the contents of the DEIR. There will be three meetings, as follows:

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## Distribution List for DEIR Notices

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| Last      | First             | Title                          | Agency/Affiliation                               | Street Address                | City        | Zip        |
|-----------|-------------------|--------------------------------|--|-------------------------------|-------------|------------|
|           |                   |                                | 120 Duck Club                                    | 6439 North Harrison           | Fresno      | 93711      |
| Stearns   | Mike              |                                | 4W Ranch   | 47375 W Dakota Avenue         | Firebaugh   | 93622      |
| Willis    | Michael and Wendy |                                | 4-W Ranch  | 12593 Elgin Road              | Dos Palos   | 93620      |
| Adolphson | Gordon            | Owner                          | Adolphson Farming                                | 5570 N Madera Avenue          | Kerman      | 93630      |
| Geringer  | Tricia            | Director of Government Affairs | Agricultural Council of California               | 1000 G Street, Suite 230      | Sacramento  | 95814-6800 |
|           |                   |                                | Alameda County Board of Supervisors              | 1221 Oak Street, Suite 536    | Oakland     | 94612      |
| Lopez     | Albert            |                                | Alameda County Planning Department               | 399 Elmhurst, Room 136        | Hayward     | 94544      |
|           |                   |                                | Alameda County Water District                    | 43885 South Grimmer Boulevard | Fremont     | 94538      |
| Catania   | Roy               |                                | Aliso Water District                             | 10302 Av 7 1/2                | Firebaugh   | 93622      |
|           |                   |                                | Alpaugh Irrigation District                      | 5458 Road 38                  | Alpaugh     | 93201      |
| Leonard   | Bill              |                                | American Indian Council of Mariposa County       | P.O. Box 1200                 | Mariposa    | 95338      |
|           |                   |                                | American Indian Movement Grand Governing Council | P.O. Box 13521                | Minneapolis | 55414      |
| Haynes    | Brenda            | President                      | Anderson-Cottonwood Irrigation District          | 2810 Silver Street            | Anderson    | 96007      |
| Andrews   | Johnny            |                                | Andrews Farms, APartnership                      | 6635 West Andrews Road        | Dos Palos   | 93620      |
| Vlomis    | Barbara           | Executive Director             | AquAlliance                                      | PO Box 4024                   | Chico       | 95927      |
| Collop    | Steve             |                                | Arvin-Edison Water Storage District              | 20401 Bear Mountain Boulevard | Arvin       | 93203      |
| Frick     | Howard            | President                      | Arvin-Edison Water Storage District              | 20401 Bear Mountain Boulevard | Arvin       | 93203      |
|           |                   |                                | Association of California Water Agencies         | 910 K Street, Suite 100       | Sacramento  | 95814      |
| Vincent   | Darrell           |                                | B B Limited                                      | 78 Hollister Ranch Road       | Gaviota     | 93117      |
| Ward      | Bill              |                                | B B Limited                                      | 78 Hollister Ranch Road       | Gaviota     | 93117      |
| Baker     | Barry             |                                | Baker, Barry S. & Byron R. et al.                | 45499 W. Panoche Road         | Firebaugh   | 93622      |

| Last             | First           | Title                          | Agency/Affiliation                                  | Street Address              | City          | Zip   |
|------------------|-----------------|--------------------------------|---|-----------------------------|---------------|-------|
| McLeod           | James           | President                      | Banta-Carbona Irrigation District                   | 3514 West Lehman Road       | Tracy         | 95304 |
| Barger           | Ray and Darlene |                                | Barger Farms  | 4256 Columbia Road          | Firebaugh     | 93622 |
| Blaisdell        | Lynette         | President                      | Bella Vista Water District                          | 11368 East Stillwater Way   | Redding       | 96003 |
| Edwards          | James           | Chairperson                    | Berry Creek Rancheria of Maidu Indians              | 5 Tyme Way                  | Oroville      | 95966 |
|                  |                 | Cultural Resources Coordinator | Berry Creek Rancheria of Maidu Indians              | 5 Tyme Way                  | Oroville      | 95966 |
| Hutchins Kipp    | Liz             | Chairperson                    | Big Sandy Rancheria of Mono Indians                 | P. O. Box 337/3702          | Auberry       | 93602 |
| Spain            | Bob             |                                | Bob Spain, Jr. Trust                                | 20358 State Highway 33      | Dos Palos     | 93620 |
| Lawrence         | John Mark       |                                | Bowles Farming Company                              | 11078 Sunset Boulevard      | Los Angeles   | 90049 |
| Michael          | Cannon          |                                | Bowles Farming Company                              | 11609 S. Hereford Road      | Los Banos     | 93635 |
|                  |                 |                                | Bownick Partnership                                 | 505 Sansome Street 1975     | San Francisco | 94111 |
| Morningstar Pope | Rhonda          | Chairperson                    | Buena Vista Rancheria                               | 1418 20th Street, Suite 200 | Sacramento    | 95811 |
|                  |                 |                                | Buena Vista Rancheria                               | 1418 20th Street, Suite 200 | Sacramento    | 95811 |
|                  |                 |                                | Bufkin, Otis I Tr                                   | 1111 E. Simpson Avenue      | Fresno        | 93704 |
| Reeves           | Christopher     |                                | Bureau of Indian Affairs                            | 2800 Cottage Way            | Sacramento    | 95825 |
| Thomas           | Jennifer        |                                | Bureau of Indian Affairs                            | 2800 Cottage Way            | Sacramento    | 95825 |
|                  |                 |                                | Bureau of Land Management - San Joaquin River Gorge | P.O. Box 248                | Auberry       | 93602 |
| Rice             | Erin            |                                | Bureau of Reclamation                               | 2800 Cottage Way            | Sacramento    | 95825 |
| Bryant           | Robert          | President                      | Butte Slough Irrigation Company                     | P.O. Box 129                | Meridian      | 95957 |
| Reynolds         | Ren             |                                | Butte Tribal Council                                | 1693 Mt. Ida Road           | Oroville      | 95966 |
| Teixeira         | Tom             |                                | Butts, Carolyn                                      | 9715 Denton Leake Road      | Dos Palos     | 93620 |
| Kagehiro         | Russell         | President                      | Byron-Bethany Irrigation District                   | 7995 Bruns Road             | Byron         | 94514 |
| Gomez            | Daniel          | Chairman                       | Cachil DeHe Band of Wintun Indians                  | 3730 Highway 45             | Colusa        | 95932 |
| Mitchum, Jr.     | Wayne           |                                | Cachil DeHe Band of Wintun Indians                  | 3730 Highway 45             | Colusa        | 95932 |

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|----------|---------|---|--|-------------------------------------|---------------|----------------|
| Grimes   | Gloria  | Chairperson<br>Cultural<br>Resources<br>Specialist                | Calaveras Band of Mi-Wuk Indians                             | P.O. Box 899                        | West Point    | 95255          |
| Grimes   | Debra   | Tribal<br>Preservation<br>Assistant                               | Calaveras Band of Mi-Wuk Indians                             | P.O. Box 1015                       | West Point    | 95255          |
| Lewis    | Adam    |   | Calaveras Band of Mi-Wuk Indians                             | P.O. Box 899                        | West Point    | 95255          |
| Williams | Lois    |   | Calaveras Band of Mi-Wuk Indians                             | P.O. Box 876                        | West Point    | 95255          |
| Wilson   | Charles | Chairperson   | Calaveras Band of Mi-Wuk Indians                             | 546 Bald Mountain<br>Road           | West Point    | 95255          |
| Fisher   | Arvada  | Vice<br>Chairperson   | Calaveras County Mountain Miwok<br>Indian Council            | 416 Railroad Flat                   | Railroad Flat | 95248          |
|          |         |   | California Air Resources Board                               | 1001 I Street                       | Sacramento    | 95814          |
|          |         |   | California Association of Resource<br>Conservation Districts | 801 K Street, Suite 1318            | Sacramento    | 95814-<br>3500 |
|          |         | Central<br>Valley/Sierra<br>Nevada<br>Conservation<br>Coordinator |  |                                     |               |                |
| Taylor   | Daniel  |   | California Audubon Society                                   | 765 University Avenue               | Sacramento    | 95825          |
| Sweet    | Scott   | President   | California Bass Federation                                   | 6116 Al Way                         | Simi Valley   | 93063          |
|          |         |   | California Business, Transportation,<br>and Housing Agency   | 980 9th Street, Suite<br>2450       | Sacramento    | 95814          |
|          |         |   | California Coastal Commission                                | 725 Front Street, Suite<br>300      | Santa Cruz    | 95060          |
| Sotelo   | Mike    |   | California Department of Boating<br>and Waterways            | 2000 Evergreen Street,<br>Suite 100 | Sacramento    | 95815          |
| Lowrie   | John M. |   | California Department of<br>Conservation                     | 801 K Street, MS 24-01              | Sacramento    | 95814          |
| Nechodom | Mark    |   | California Department of<br>Conservation                     | 801 K Street, MS 24-01              | Sacramento    | 95814          |
| Bonham   | Chuck   |   | California Department of Fish and<br>Wildlife                | 1416 9th Street, 12th<br>Floor      | Sacramento    | 95814          |
| Hatler   | Gerald  |   | California Department of Fish and<br>Wildlife                | 1234 East Shaw Avenue               | Fresno        | 93710          |

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|-------------|-----------|---|---|---|------------|------------|
| Little      | Shannon   |   | California Department of Fish and Wildlife            | 1416 9 <sup>th</sup> Street, Suite 1341 | Sacramento | 95814      |
| Marston     | Dean      | Environmental Program Manager             | California Department of Fish and Wildlife            | 1234 East Shaw Avenue                   | Fresno     | 93710      |
| Single      | Jeffrey   |   | California Department of Fish and Wildlife            | 1234 East Shaw Avenue                   | Fresno     | 93710      |
| Vance       | Julie     |   | California Department of Fish and Wildlife            | 1234 East Shaw Avenue                   | Fresno     | 93710      |
| Yoshioka    | Janice    | Staff Services Analyst                    | California Department of Fish and Wildlife, Region 4  | 1234 East Shaw Avenue                   | Fresno     | 93710      |
| Vail        | Nita      | Executive Officer                         | California Department of Food and Agriculture         | 1220 N Street                           | Sacramento | 95864      |
| Hendricks   | Paul      |   | California Department of Forestry and Fire Protection | 96 Kendal Court                         | Chico      | 95973      |
| Coleman     | Ruth      | Director                                  | California Department of Parks and Recreation         | 1416 9th Street                         | Sacramento | 95814      |
| Mellon      | Knox      |   | California Department of Parks and Recreation         | 1416 9th Street, Room 1442              | Sacramento | 95814      |
| Raphael     | Debbie    | Director                                  | California Department of Toxic Substances Control     | 1001 I Street                           | Sacramento | 95814-2828 |
| Ajise       | Kome      | Director                                  | California Department of Transportation, District 10  | 1976 East Charter Way                   | Stockton   | 95205      |
| Cox         | Christine |   | California Department of Transportation, District 6   | 2015 East Shields Avenue, Suite 100     | Fresno     | 93726      |
| Ghilarducci | Mark      | Secretary<br>Deputy                       | California Emergency Management Agency                | 3650 Schriever Avenue                   | Mather     | 95655      |
|             |           | Secretary for Science and the Environment | California Environmental Protection Agency            | 1001 I Street                           | Sacramento | 95814      |
|             |           |   | California Farm Bureau Federation                     | 2300 River Plaza Drive                  | Sacramento | 95833-3239 |
|             |           |   | California Farm Water Coalition                       | 5999 Freepoint Boulevard                | Sacramento | 95822      |

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|           |         |                                     | California Fish and Wildlife Commission                          | 1416 Ninth Street, Room 1320     | Sacramento    | 95833-2090 |
|           |         |                                     | California Highway Patrol  | 6 Massie Court                   | Sacramento    | 95823      |
|           |         |                                     | California Native Plant Society                                  | 1424 South Van Ness Avenue #A    | San Francisco | 94110-4024 |
| Laird     | John    | Secretary                           | California Natural Resources Agency                              | 1416 9th Street, Suite 1311      | Sacramento    | 95814      |
| Youngsen  | Jim     |                                     | California Natural Resources Agency - Policy Planning Department | 1416 9th Street, Room 1311       | Sacramento    | 95814      |
| Donaldson | Milford | State Historic Preservation Officer | California Office of Historic Preservation                       | 1416 9th Street, Room 1442       | Sacramento    | 95814      |
| Jennings  | Bill    | Executive Director                  | California Sportfishing Protection Alliance                      | 3536 Rainier Avenue              | Stockton      | 95204      |
| Schutes   | Chris   |                                     | California Sportfishing Protection Alliance                      | 1360 Neilson Street              | Berkeley      | 94702      |
|           |         |                                     | California State Counties Association                            | 1100 K Street, Suite 101         | Sacramento    | 95814      |
| Brown     | Judy    |                                     | California State Lands Commission                                | 100 Howe Avenue, Suite 100 South | Sacramento    | 95825      |
| Lehman    | Steve   |                                     | California State Lands Commission                                | 100 Howe Avenue, Suite 100 S.    | Sacramento    | 95825      |
| Oggins    | Cy      |                                     | California State Lands Commission                                | 100 Howe Avenue, Suite 100 South | Sacramento    | 95825-8202 |
|           |         | Public Land Management Specialist   | California State Lands Commission                                | 100 Howe Avenue, Suite 100 South | Sacramento    | 95825-8202 |
| Smith     | Jane    |                                     | California State Lands Commission                                | 100 Howe Avenue, Suite 100 South | Sacramento    | 95825-8202 |
| Kelly     | Patrick | Ph.D .                              | California State University, Stanislaus                          | 1 University Circle              | Turlock       | 95382      |
|           |         | General Manager                     | California State Water Contractors                               | 1121 L Street, Suite 1050        | Sacramento    | 95814      |
| Chapman   | Jack    | President                           | California Striped Bass Association                              | 5042 Caviar Port                 | Fair Oaks     | 95628      |
|           |         |                                     | California Valley Land Company, Inc.                             | P.O. Box 219                     | Huron         | 93234      |
| Krieger   | Carolee | President                           | California Water Impact Network                                  | 808 Romero Canyon Road           | Santa Barbara | 93108      |
|           |         | Senior Research Associate           |  |                                  |               |            |
| Stroshane | Tim     |                                     | California Water Impact Network                                  | 639 San Carlos Avenue            | Albany        | 94706      |

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|           |         |                      | California Waterfowl Association                    | 4630 Northgate Boulevard, Suite 150                  | Sacramento     | 95834      |
|           |         |                      | CalTrout  | 360 Pine Street, 4th Floor                           | San Francisco  | 94104      |
|           |         |                      | Cardella Family Limited Partnership                 | 39984 W North Avenue                                 | Mendota        | 93640      |
|           |         |                      | Carter Mutual Water District                        | 4746 River Road                                      | Colusa         | 95932-4200 |
| Federighi | Douglas |                      | Castle Duck Club                                    | 1051 MacArthur Blvd.                                 | San Leandro    | 94577      |
|           |         |                      | Cawelo Water District                               | 17207 Industrial Farm Road                           | Bakersfield    | 93308      |
| Johnston  | Terry   | President            | Centinella Water District                           | P.O. Box 1596  | Patterson      | 95363      |
| White     | Chris   | General Manager      | Central California Irrigation District              | 1335 W I St  | Los Banos      | 93635-4545 |
| Biagi     | George  | President            | Central Delta Water Agency                          | 235 East Weber Avenue                                | Stockton       | 95201      |
| Thompson  | Grant   | President            | Central San Joaquin Water Conservation District     | 311 East Main Street, Suite 202                      | Stockton       | 95202      |
| Marino    | Len     |                      | Central Valley Flood Protection Board               | 3310 El Camino Avenue, Room 151                      | Sacramento     | 95821      |
| Punia     | Jay     | Executive Officer    | Central Valley Flood Protection Board               | 3310 El Camino Avenue                                | Sacramento     | 95821      |
|           |         |                      | Central Valley Miwok Tribe                          | 10601 North Escondido Place                          | Stockton       | 95212      |
| Denn      | Sandy   | President            | Central Valley Project Water Association            | 1521 I Street  | Sacramento     | 95814      |
| Ditto     | TJ      |                      | Central Valley Regional Water Quality Control Board | 11020 Sun Center Drive, Suite 200 Attn: Rudy Schnagl | Rancho Cordova | 95670      |
| Schangl   | Rudy    |                      | Central Valley Regional Water Quality Control Board | 11020 Sun Center Drive, Suite 200                    | Rancho Cordova | 95670      |
| Vaughn    | Greg    | Senior WRCE          | Central Valley Regional Water Quality Control Board | 11020 Sun Center Drive, Suite 200                    | Rancho Cordova | 95670      |
| Wass      | Lonnie  | Supervising Engineer | Central Valley Regional Water Quality Control Board | 1685 E Street, Suite 200                             | Fresno         | 93706      |
| Tull      | Rob     |                      | CH2M Hill   | 2485 Natomas Park Drive, Suite 600                   | Sacramento     | 95833      |
| Mathiesen | Lloyd   | Chairperson          | Chicken Ranch Rancheria                             | 16955 Nelson Road                                    | Jamestown      | 95327      |
|           |         |                      | Chicken Ranch Rancheria of Me-Wuk                   | P.O. Box 1159  | Jamestown      | 95327      |

| <b>Last</b> | <b>First</b> | <b>Title</b>              | <b>Agency/Affiliation</b>           | <b>Street Address</b>           | <b>City</b> | <b>Zip</b> |
|-------------|--------------|---------------------------|-------------------------------------|---------------------------------|-------------|------------|
| Powell      | Melissa      | Cultural Resources Coord. | Chicken Ranch Rancheria of Me-Wuk   | P.O. Box 1159                   | Jamestown   | 95327      |
| Smith       | Sally        | Tribal Administrator      | Chicken Ranch Rancheria of Me-Wuk   | P.O. Box 1159                   | Jamestown   | 95327      |
| Planas      | Lorrie       | Chairperson               | Choinumni Tribe                     | 2736 Palo Alto                  | Clovis      | 93611      |
| Brown       | Jerry        |                           | Choinumni Tribe, Choinumni/Mono     | 2736 Palo Alto                  | Clovis      | 93611      |
| Maddalena   | Dan          | President                 | Chowchilla Tribe of Yokuts          | 10553 N. Rice Road              | Fresno      | 93720      |
| Welch       | Doug         | General Manager           | Chowchilla Water District           | 327 South Chowchilla Boulevard  | Chowchilla  | 93610      |
| Nicoletti   | Cynthia      | Mayor                     | Chowchilla Water District           | 327 S. Chowchilla Boulevard     | Chowchilla  | 93610      |
|             |              | Mayor                     | Christiana-Santa Rita Farms         | 16035 Indiana Road              | Dos Palos   | 93620      |
|             |              | Mayor                     | City of Avenal                      | 919 Skyline Boulevard           | Avenal      | 93204      |
|             |              | Mayor                     | City of Coalinga                    | 155 West Durian Avenue          | Concord     | 93210      |
|             |              | Mayor                     | City of Dos Palos                   | 2174 Blossom Street             | Dos Palos   | 93620      |
|             |              | Mayor                     | City of Firebaugh                   | 1133 P Street                   | Firebaugh   | 93622-2230 |
|             |              |                           | City of Folsom                      | 50 Natoma Street                | Folsom      | 95630      |
| Swearengin  | Ashley       | Mayor                     | City of Fresno                      | 2600 Fresno Street, Room 3065   | Fresno      | 93721      |
| Townsend    | Scott        | Manager                   | City of Huron                       | 36311 S. Lassen Avenue          | Huron       | 93234      |
|             |              | Mayor                     | City of Lindsay                     | 251 E Honolulu Street           | Lindsay     | 93247      |
|             |              | Mayor                     | City of Los Banos                   | 520 J Street                    | Los Banos   | 93635      |
|             |              | Mayor                     | City of Madera                      | 205 West 4th Street             | Madera      | 93637      |
|             |              | Mayor                     | City of Mendota                     | 643 Quince Street               | Mendota     | 93640      |
|             |              | Manager                   | City of Merced, Planning Department | 678 West 18th Street            | Merced      | 95340      |
| Little      | Bill         | Manager                   | City of Orange Cove                 | 633 6th Street                  | Orange Cove | 93646      |
| Boesetti    | Rick         | Mayor                     | City of Redding                     | 777 Cypress Avenue              | Redding     | 96001-2718 |
|             |              | Mayor                     | City of Roseville                   | 2005 Hilltop Circle             | Roseville   | 95747      |
| Kerridge    | Ray          | City Manager              | City of Sacramento                  | 1395 35th Avenue                | Sacramento  | 95616      |
|             |              |                           | City of Tracy                       | City Hall, 325 East 10th Street | Tracy       | 95376      |

| Last     | First   | Title                             | Agency/Affiliation  | Street Address                | City       | Zip        |
|----------|---------|-----------------------------------|---|-------------------------------|------------|------------|
| Silva    | Gary    | President                         | Clay Water District                                       | 13070 Twin Cities Road        | Herald     | 95638      |
| Connley  | Clayton |                                   | Clayton Family Partnership                                | P.O. Box 24                   | El Nido    | 95317      |
|          |         |                                   | Coalition for Urban/Rural Environmental Stewardship       | 531-D North Alta Avenue       | Dinuba     | 93618-3203 |
| Coburn   | Shawn   |                                   | Coburn Family Trust                                       | 8174 Eucalyptus Road          | Dos Palos  | 93620      |
| Coelho   | Joe     |                                   | Coelho Family Trust                                       | 5494 West Mt. Whitney Avenue  | Riverdale  | 93656      |
|          |         |                                   | Cold Springs Rancheria                                    | 32861 Sycamore Road #300      | Tollhouse  | 93667      |
| Marquez  | Robert  | Chairperson                       | Cold Springs Rancheria of Mono Indians                    | P. O. Box 209                 | Tollhouse  | 93667      |
| Cubbler  | Pamela  |                                   | Colfax-Todds Valley Consolidated Tribe                    | P.O. Box 734                  | Foresthill | 95631      |
| Marks    | Judith  |                                   | Colfax-Todds Valley Consolidated Tribe                    | 1068 Silverton Circle         | Lincoln    | 95648      |
| Houk     | Randall | General Manager                   | Columbia Canal Company                                    | 6770 Ave 7 1/2                | Firebaugh  | 93622      |
| Marshall | Mark    | Chair                             | Colusa County   | 546 Jay Street                | Colusa     | 95932-2400 |
| Carter   | Thomas  | President                         | Colusa County Water District                              | 840 1st Street                | Arbuckle   | 95912      |
| Massa    | Larry   | President                         | Colusa Drain Mutual Water Company                         | 520 Market Street #3          | Colusa     | 95932      |
|          |         |                                   | Consolidated Irrigation District                          | 2255 Chandler Street          | Selma      | 93662-3041 |
|          |         |                                   | Contra Costa County Board of Supervisors                  | 651 Pine Street               | Martinez   | 94553      |
| Orloff   | Leah    |                                   | Contra Costa Water District                               | 1331 Concord Avenue           | Concord    | 94520      |
|          |         |                                   | Corcoran Irrigation District                              | P.O. Box 566                  | Corcoran   | 93212      |
|          |         |                                   | Corning Water District                                    | 22240 Gallagher Avenue        | Corning    | 96021      |
|          |         |                                   | Cortina Water District                                    | P.O. Box 757                  | Arbuckle   | 95912-0757 |
| Couthard | Jeff    |                                   | Coulthard Enterprises L P & Coulthard Jeffrey D. Trust    | 8104 Road 39                  | Madera     | 93636      |
| Gorman   | Lynn    | AICP, Deputy Director of Planning | County of Fresno, Department of Public Works and Planning | 2220 Tulare Street, Suite 600 | Fresno     | 93721      |

| Last     | First         | Title              | Agency/Affiliation  | Street Address                            | City            | Zip        |
|----------|---------------|--------------------|---|---|-----------------|------------|
| Weaver   | Alan          | Director           | County of Fresno, Department of Public Works and Planning | 2220 Tulare Street, Suite 600             | Fresno          | 93721      |
| James    | Jerald        | Director           | County of Madera, Planning Department                     | 2037 W. Cleveland Avenue M.S. G           | Madera          | 93637      |
| Lewis    | Robert        | Director           | County of Merced, Planning and Development Services       | 2222 M Street                             | Merced          | 95340      |
|          |               |                    | D&D Pombo LLC   | 25730 Hansen Road                         | Tracy           | 95377      |
|          |               |                    | Davis Water District                                      | P.O. Box 83                               | Arbuckle        | 95912-0083 |
|          |               |                    | Deer Creek and Tule River Authority                       | 357 East Olive Avenue                     | Tipton          | 93272      |
| Berens   | Bill          |                    | Deer Creek Watershed Conservancy                          | 26240 7th                                 | Vina            | 96092      |
|          |               |                    | Del Puerto Water District                                 | P.O. Box 1596                             | Patterson       | 95363      |
| Nelson   | Harold        | President          | Delano-Earlimart Irrigation District                      | 14181 Avenue 24                           | Delano          | 93215      |
| Petroni  | Fred          |                    | Delta Farms   | 12730 South Hereford Road                 | Los Banos       | 93635      |
|          |               |                    | Delta Protection Commission                               | 2101 Stone Blvd., Suite 210               | West Sacramento | 95691      |
| Isenberg | Phil          | Chair              | Delta Stewardship Council                                 | 980 9th Steet, Suite 1500                 | Sacramento      | 95814      |
| Cantrell | Scott         |                    | DFG   | 830 S Street                              | Sacramento      | 95811      |
| Peracchi | Donald        |                    | DJP Farm LLC  | 5151 N Palm Avenue 900                    | Fresno          | 93704      |
|          |               |                    | Dos Palos Joint Powers Authority                          | 1546 Golden Gate Avenue                   | Dos Palos       | 93620      |
| Ansley   | Jolie-Anne S. |                    | Duane Morris LLP  | One Market Plaza, Spear Tower, Suite 2200 | San Francisco   | 94105-1127 |
| Berliner | Thomas M.     |                    | Duane Morris LLP  | One Market, Spear Tower, Suite 200        | San Francisco   | 94105-1104 |
|          |               |                    | Ducks Unlimited   | 3074 Gold Canal Drive                     | Rancho Cordova  | 95670      |
|          |               |                    | Dumna Tribal Government                                   | 1305 East Sussex Way                      | Fresno          | 93704-4438 |
| Ledger   | Robert        | Tribal Chairperson | Dumna Wo-Wah Tribal Government                            | 2216 East Hammond Street                  | Fresno          | 93702      |
| Ledger   | John          | Assistant Cultural | Dumna Wo-Wah Tribal Government                            | 2216 East Hammond Street                  | Fresno          | 93602      |

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|-----------|------------|-------------------------------|---|--------------------------------|-----------------|------------|
|           |            | Resource Manager              |   |                                |                 |            |
|           |            | Cultural Resource Manager     |   |                                |                 |            |
| Smith     | Eric       | Board Chairperson             | Dumna Wo-Wah Tribal Government                      | 2216 East Hammond Street       | Fresno          | 93602      |
| Marine    | Mandy      | CEO                           | Dunlap Band of Mono Historical Preservation Society | P. O. Box 18                   | Dunlap          | 93621      |
| Tex       | Jeneen     |                               | Dunlap Band of Mono Indians                         | P. O. Box 44                   | Dunlap          | 93624      |
|           |            |                               | Dunnigan Water District                             | 3817 1st Street                | Dunnigan        | 95937      |
|           |            | Environmental Program Manager |   |                                |                 |            |
| Dulik     | Karen      |                               | DWR Fresno  | 3374 East Shields Avenue       | Fresno          | 93726      |
| Kerckhoff | Laurence   | Staff Counsel                 | DWR Sacramento 9th Street office                    | 1416 9th Street                | Sacramento      | 95814      |
|           |            |                               | Eagle Field Irrigation District                     | 51170 West Althea              | Firebaugh       | 93622      |
| Miyamoto  | Joe        |                               | East Bay Municipal Utility District                 | 375 11th Street                | Oakland         | 94607      |
| Sykes     | Richard G. |                               | East Bay Municipal Utility District                 | 375 11th Street                | Oakland         | 94607      |
|           |            |                               | East Contra Costa Irrigation District               | 1711 Sellers Avenue            | Brentwood       | 94513      |
|           |            |                               | Eastside Mutual Water District                      | P.O. Box 1815                  | Woodland        | 95776-1815 |
|           |            |                               | El Camino Irrigation District                       | 8451 99W Road                  | Gerber          | 96035      |
|           |            |                               | El Dorado County Water Agency                       | 3932 Ponderosa Road, Suite 200 | Shingle Springs | 95682      |
|           |            |                               | El Dorado Irrigation District                       | 2890 Mosquito Road             | Placerville     | 95667      |
| Emmert    | Steve      | Owner                         | Emmert Farms  | 3870 Road 22                   | Madera          | 93637      |
| Angle     | Art        | Vice Chairperson              | Enterprise Rancheria of Maidu Indians               | 2133 Monta Vista Avenue        | Oroville        | 95966      |
| Nelson    | Glenda     | Chairperson                   | Enterprise Rancheria of Maidu Indians               | 2133 Monta Vista Avenue        | Oroville        | 95966      |
| Graff     | Tom        |                               | Environmental Defense Fund                          | 123 Mission Street, Floor 28   | San Francisco   | 94105-5142 |
| Cosart    | Stanley    | President                     | Exeter Irrigation District                          | 150 South E Street             | Exeter          | 93221      |
| Logoluso  | Frank      |                               | Farmers Water District                              | 7567 Road 28                   | Madera          | 93637      |
|           |            |                               | Feather Water District                              | 280 Wilkie Avenue              | Yuba City       | 95991-9405 |
|           |            |                               | Federal Emergency Management Agency, Region IX      | 1111 Broadway, Suite 1200      | Oakland         | 94607      |

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|------------|-----------|-------------------------------------|---|--------------------------------|------------|------------|
| Bryant     | Jeff      | General Manager                     | Firebaugh Canal Water District                        | 2412 Hwy 33 - Dos Palos Road   | Mendota    | 93640      |
| McNamara   | Dan       |                                     | Forbes, Yore & McGinn Corporation                     | P.O. Box 2985                  | Merced     | 95344      |
| Stillwell  | Jim       |                                     | Foresthill Public Utility District                    | 24540 Main Street              | Foresthill | 95631      |
| Grossi     | Mark      |                                     | Frank A Logoluso Farms                                | 7567 Road 28                   | Madera     | 93637      |
| Warszawski | Marek     |                                     | Fresno Bee  | 1626 E Street                  | Fresno     | 93786      |
|            |           |                                     | Fresno Bee  | 1626 E Street                  | Fresno     | 93786      |
|            |           |                                     | Fresno Central Branch Library                         | 2420 Mariposa Street           | Fresno     | 93721      |
|            |           |                                     | Fresno County Board of Supervisors                    | 2281 Tulare Street, Suite 300  | Fresno     | 93721-2198 |
| Salazar    | Victor E. |                                     | Fresno County Clerk/Register of Voters                | 2221 Kern Street               | Fresno     | 93721      |
|            |           |                                     | Fresno County Department of Public Works and Planning | 2220 Tulare Street, 6th Floor  | Fresno     | 93721      |
|            |           |                                     | Fresno County Economic Opportunities Commission       | 1920 Mariposa Mall, Suite 300  | Fresno     | 93721      |
|            |           |                                     | Fresno County Farm Bureau                             | 1274 W. Hedges Avenue          | Fresno     | 93728      |
|            |           | SJR Stewardship Program Coordinator |   |                                |            |            |
| Starcher   | Steve     |                                     | Fresno County Office of Education                     | 1111 Van Ness Avenue           | Fresno     | 93721      |
| Trafican   | Jeff      |                                     | Fresno Fly Fishers for Conservation                   | 100 East Sierra, PMB 3310      | Fresno     | 93710      |
| Boswell    | Jeffrey   | President                           | Fresno Irrigation District                            | 2907 South Maple Avenue        | Fresno     | 93725      |
| Will       | Mark      |                                     | Fresno Metropolitan Flood Control District            | 5469 East Olive Avenue         | Fresno     | 93727      |
|            |           |                                     | Fresno Sheriff's Department                           | 2200 Fresno Street             | Fresno     | 93721      |
| Bailey     | Harvey    | Chair                               | Friant Water Authority                                | 854 North Harvard Avenue       | Lindsay    | 93247      |
| Jacobsma   | Ron       | General Manager                     | Friant Water Authority                                | 854 N. Harvard Avenue          | Lindsay    | 93247      |
| Luce       | Bill      | Resource Manager                    | Friant Water Authority                                | 4969 East McKinley Avenue #201 | Fresno     | 93727      |
| Ottmoeller | Steve     | Water Resource Manager              | Friant Water Authority                                | 4969 East McKinley Avenue #201 | Fresno     | 93727      |

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|-----------|----------------------|----------------------|--|--|-------------|------------|
| Frusetta  | Robert               |                      | Friends of the San Joaquin                                   | 5638 West El Paso                              | Fresno      | 93722      |
| Raabe     | Andy                 |                      | Frusetta, Peter C. and Anita c.<br>FWS                       | 8827 Road 6                                    | Tres Pinos  | 93622      |
| Lee       | G. Fred              |                      | G. Fred Lee & Associates                                     | 2800 Cottage Way<br>27298 East El Macero Drive | Sacramento  | 95618-1005 |
| Ricchiuti | Pat                  | President            | Garfield Water District                                      | 3825 East International Avenue                 | Clovis      | 93611      |
| Gragnani  | John                 |                      | Glenn-Colusa Irrigation District                             | 344 East Laurel Street                         | Willows     | 95988      |
| Gragnani  | Jerry                |                      | Gragnani Farms   | PO Box 128                                     | Tranquility | 93668      |
|           |                      |                      | Gragnani Farms   | PO Box 128                                     | Tranquility | 93668      |
| Emmert    | Steve                |                      | Grassland Water District                                     | 22759 South Mercy Springs Road                 | Los Banos   | 93635      |
| DaSilva   | Timothy              | President            | Gravelly Ford Ranch  | 3870 Road 22                                   | Madera      | 93637      |
|           |                      | President            | Gravelly Ford Water District                                 | 18811 Road 27                                  | Madera      | 93638      |
| Self      | Kyle                 | Chairperson          | Great Valley Center<br>Greenville Rancheria of Maidu Indians | 201 Needham Street<br>P.O. Box 279             | Modesto     | 95354      |
|           |                      |                      | Grigsby, Euleess S & Opal Trust                              | P.O. Box 12                                    | Greenville  | 95947      |
| Harman    | Lawrence and Richard |                      | Harman Bros.   | 802 Front Street                               | Friant      | 93626      |
| Bauer     | Barry H.             |                      | Herb Bauer Sporting Goods                                    | 6264 North Blackstone Avenue                   | Dos Palos   | 93630      |
| Stevenson | Michael              |                      | Horizon Water and Environment                                | 180 Grand Avenue, Suite 1405                   | Fresno      | 93710      |
| Stevenson | Michael              |                      | Horizon Water and Environment                                | 180 Grand Avenue, Suite 1405                   | Oakland     | 94612      |
| Iest      | Richie               |                      | Iest Family Farms and Accommodators, Inc.                    | 14676 Avenue 14                                | Oakland     | 94612      |
| Harlan    | Floyd                | President            | International Water District                                 | 9010 East Tollhouse Street                     | Madera      | 93637      |
| Miller    | Yvonne               | Chairperson          | Ione Band of Miwok Indians                                   | P.O. Box 699                                   | Clovis      | 93619      |
|           |                      | Tribal Administrator | Ione Band of Miwok Indians                                   | P.O. Box 699                                   | Plymouth    | 95669      |
| Burris    | Anthony              | Chairperson          | Ione Band of Miwok Indians Cultural Committee                | P.O. Box 699                                   | Plymouth    | 95669      |
| Caviglia  | Gary                 | President            | Ivanhoe Irrigation District                                  | 33777 Road 164                                 | Plymouth    | 95669      |
|           |                      |                      |  |  | Visalia     | 93292      |

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|-----------|-------------------|--------------------|---|-----------------------------------|--------------|------------|
|           |                   |                    | Jackson Rancheria                         | P.O. Box 1090                     | Jackson      | 95642      |
| Diedrich  | James and Michael |                    | James Diedrich Farms                      | P.O. Box 805                      | Firebaugh    | 93622      |
|           |                   |                    | James Irrigation District                 | P.O. Box 757                      | San Joaquin  | 93660      |
|           |                   |                    | James Maiorino and Annette Maiorino Trust | P.O. Box 458                      | Firebaugh    | 93622      |
| Mills     | Donald            | President          | Kaweah Delta Water Conservation District  | 2975 North Farmersville Boulevard | Farmersville | 93223      |
|           |                   |                    | Kern County Board of Supervisors          | 1115 Truxton Avenue, 5th Floor    | Bakersfield  | 93301      |
| Beck      | James             |                    | Kern County Water Agency                  | 3200 Rio Mirada Drive             | Bakersfield  | 93308      |
| Lundquist | Gene              | President          | Kern County Water Agency                  | 3200 Rio Mirado Drive             | Bakersfield  | 93308      |
|           |                   |                    | Kern Valley Indian Council                | 6113 Olive Knols Drive            | Barkersfield | 93308      |
|           |                   |                    | Kern-Tulare Water District                | 401 Road 192                      | Delano       | 93215      |
|           |                   |                    | Kings County Administrative Office        | 1400 West Lacey Boulevard         | Hanford      | 93230      |
|           |                   |                    | Kings County Board of Supervisors         | 1400 West Lacey Boulevard         | Hanford      | 93230      |
|           |                   |                    | Kings River Conservation District         | 4886 East Jensen Avenue           | Fresno       | 93725      |
| Haugen    | Steve             | Executive Director | Kings River Water Association             | 4888 E. Jensen Avenue             | Fresno       | 93725      |
| Lollar    | Clifton           |                    | Kings River Water Association             | 4888 East Jensen Avenue           | Fresno       | 93725      |
| Haugen    | Steve             |                    | Kings River Water Conservation District   | 4888 E. Jensen Avenue             | Fresno       | 93725      |
|           |                   | Chairperson        | KonKow Band of Maidu                      | 1706 Sweem Street                 | Oroville     | 95965      |
|           |                   |                    | Laguna Water District                     | P.O. Box 305                      | Dos Palos    | 93620-0305 |
| Lehman    | Alex              |                    | Lehman Farms                              | 15715 Avenue 13                   | Madera       | 93637      |
| Dreyer    | Dan               | President          | Lewis Creek Water District                | 209 South Locust Street           | Visalia      | 93291      |
| Luallen   | Quinten           | President          | Lindmore Irrigation District              | 240 West Lindmore Street          | Lindsay      | 93247      |
| Pursell   | Rex               | President          | Lindsay-Strathmore Irrigation District    | 23260 Round Valley Road           | Lindsay      | 93247      |

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|-----------|----------|-------------------|---|---------------------------------|-----------|------------|
| Keene     | Thomas   |                   | Linneman, Burgess, Telles, Van Atta, Vierra, Rathmann, Whitehurst & Keene | 1820 Marguerite Street          | Dos Palos | 93620      |
|           |          |                   | Los Banos Public Library  | 1312 South 7th Street           | Los Banos | 93635-4757 |
|           |          |                   | Los Banos Wildlife Management Area  | 18110 West Henry Miller Avenue  | Los Banos | 93635      |
| Hill      | Reggie   | Secretary-Manager | Lower San Joaquin Levee District  | 11704 West Henry Miller Avenue  | Dos Palos | 93620      |
| Simonich  | Anton    | President         | Lower Tule River Irrigation District                                      | 357 East Olive Avenue           | Tipton    | 93272      |
|           |          |                   | Madera City Council   | 207 West Fourth Street          | Madera    | 93637      |
|           |          |                   | Madera County Agricultural Commissioner                                   | 332 Madera Avenue               | Madera    | 93637      |
|           |          |                   | Madera County Board of Supervisors  | 209 West Yosemite               | Madera    | 93637      |
| Martinez  | Rebecca  |                   | Madera County Clerk   | 200 West 4th Street             | Madera    | 93637      |
|           |          |                   | Madera County Farm Bureau   | 1102 South Pine Street          | Madera    | 93637      |
| Harmstead | Scott    |                   | Madera County Planning Department   | 2037 W. Cleveland Avenue M.S. G | Madera    | 93637      |
| Vang      | Ken      |                   | Madera County Resource Management District                                | 2037 W. Cleveland Avenue        | Madera    | 93637      |
|           |          |                   | Madera County Sheriff's Department  | 14143 Road 28                   | Madera    | 93638      |
| Janzen    | Carl     | President         | Madera Irrigation District  | 12152 Road 28-1/4               | Madera    | 93637      |
|           |          |                   | Main Stone Corporation  | 2930 Whitegate Drive            | Merced    | 95340      |
| Maiorino  | Brian    |                   | Maiorino Farms  | 37618 W Silaxo Avenue           | Firebaugh | 93622      |
| Mancebo   | John     |                   | Mancebo, John and Beverly Trust   | 18557 Fairfax Avenue            | Dos Palos | 93620      |
|           |          |                   | Mariposa County Board of Supervisors                                      | 5100 Buillon Street             | Mariposa  | 95338      |
|           |          |                   | Maxwell Irrigation District   | 3999 Two Mile Road              | Maxwell   | 95955      |
| DeSpain   | Mike     | Director-OEPP     | Mechoopda Indian Tribe of Chico Rancheria                                 | 125 Mission Ranch Boulevard     | Chico     | 95926      |
| Ramirez   | Dennis   | Chairperson       | Mechoopda Indian Tribe of Chico Rancheria                                 | 125 Mission Ranch Boulevard     | Chico     | 95926      |
|           |          |                   | Menefee River Ranch Company   | 1624 E Pachecho Boulevard       | Los Banos | 93635      |
|           |          |                   | Merced County Board of Supervisors  | 2222 M Street                   | Merced    | 95340      |
| Adams     | Karen D. | CPA               | Merced County Clerk   | 2222 M Street, Room 14          | Merced    | 95340      |

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|           |             |                            | Merced County Farm Bureau                            | 646 South State Highway 59    | Merced     | 95341      |
|           |             |                            | Merced County Sheriff's Department                   | 700 West 22nd Street          | Merced     | 95340      |
| Koda      | Ed          | President                  | Mercy Springs Water District                         | 52027 West Althea Avenue      | Firebaugh  | 93622      |
|           |             |                            | Meridian Farms Water Company                         | 1138 4th Street               | Meridian   | 95957      |
|           |             |                            | Metropolitan Water District                          | 1121 L Street, Suite 900      | Sacramento | 95814      |
| Orth      | David       | Manager                    | Mid-Valley Water Authority                           | 4886 East Jensen Avenue       | Fresno     | 93725      |
| Cuoto     | James       | Vice President             | Mid-Valley Water District                            | 286 West Cromwell Avenue      | Fresno     | 93711-6162 |
| Bundy     | Burt        |                            | Mill Creek Conservancy                               | 40652 Highway 36 East         | Mill Creek | 96061      |
| Burke     | Kerry       |                            | Mill Creek Conservancy                               | 40652 Highway 36 East         | Mill Creek | 96061      |
|           |             |                            | Millerton Area Watershed Coalition                   | 34876 SJ&E Road               | Auberry    | 93602      |
|           |             |                            | Millerton Lake Area Chamber of Commerce              | P.O. Box 430                  | Friant     | 93626      |
|           |             |                            | Modesto Irrigation District                          | 1231 11th Street              | Modesto    | 95354-0701 |
| Archuleta | Gary        | Chairperson                | Mooretown Rancheria of Maidu Indians                 | 1 Alverda Drive               | Oroville   | 95966      |
| Sanders   | James       | Tribal Administrator       | Mooretown Rancheria of Maidu Indians                 | 1 Alverda Drive               | Oroville   | 95966      |
| Moosios   | Louis       |                            | Moosios River Ranch and San Joaquin Guide Service    | 7215 Road 35                  | Madera     | 93636      |
| Moosios   | Louis       |                            | Moosios River Ranch, San Joaquin Guide Service       | 7215 Road 35                  | Madera     | 93636      |
| Morehead  | Jim & Betty |                            | Morehead Farms                                       | PO Box 789                    | Pixley     | 93526      |
|           |             |                            | Mumby Farms, Inc.                                    | 17996 Grandvale Road          | Dos Palos  | 93620      |
|           |             |                            | Myers-March Mutual Water Company                     | P.O. Box 1308                 | Arbuckle   | 95912-1308 |
| Rea       | Maria       | Sacramento Area Supervisor | National Marine Fisheries Service, West Coast Region | 650 Capitol Mall, Suite 5-100 | Sacramento | 95814      |
| Reed      | Rhonda      |                            | National Marine Fisheries Service, West Coast Region | 650 Capitol Mall, Suite 5-100 | Sacramento | 95814      |

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|---------|---------------|---------------------------|--|-------------------------------|---------------|------------|
| Stuart  | Jeff          |                           | National Marine Fisheries Service, West Coast Region | 650 Capitol Mall, Suite 5-100 | Sacramento    | 95814      |
|         |               |                           | National Park Service, Pacific West Region           | 333 Bush Street, Suite 500    | San Francisco | 94104      |
| Myers   | Larry         | Executive Secretary       | Native American Heritage Commission                  | 915 Capitol Mall, Room 364    | Sacramento    | 95814      |
| Ramos   | James         |                           | Native American Heritage Commission                  | 915 Capitol Mall, Room 364    | Sacramento    | 95814      |
|         |               |                           | Natomas Central Mutual Water Company                 | 2601 West Elkhorn Boulevard   | Rio Linda     | 95673-2905 |
| Brown   | Anita         | State Information Officer | Natural Resource Conservation Service                | 4810 Seventh Avenue           | Sacramento    | 95820      |
| Alvis   | Julie         |                           | Natural Resources Agency                             | 1416 Ninth Street, Suite 1311 | Sacramento    | 95814      |
| Kemp    | Patrick       |                           | Natural Resources Agency                             | 1416 Ninth Street, Suite 1311 | Sacramento    | 95814      |
| Obegi   | Doug          |                           | Natural Resources Defense Council                    | 111 Sutter Street, 20th floor | San Francisco | 94104      |
| Schmitt | Monty         | Senior Scientist          | Natural Resources Defense Council                    | 111 Sutter Street, 20th floor | San Francisco | 94104      |
| Nickel  | James         | CEO/President             | Nickel Family LLC                                    | 15701 Highway 178             | Bakersfield   | 93306-9500 |
| Stearns | Brent         |                           | Nickel Family LLC                                    | 15701 Highway 178             | Bakersfield   | 93306-9500 |
| Burns   | Daniel        |                           | Nickel Farms LLC                                     | 13252 Elgio Road              | Dos Palos     | 93620      |
| Delgado | Marilyn       | Chairperson               | Nor-Rel-Muk Nation                                   | P.O. Box 1967                 | Weaverville   | 96093      |
|         |               |                           | North Delta Water Agency                             | 910 K Street, Suite 100       | Sacramento    | 95814      |
| Goode   | Ron           | Chairperson               | North Fork Mono Tribe                                | 13396 Tollhouse Road          | Clovis        | 93619      |
| Beihn   | Leora         |                           | North Fork Rancheria                                 | 32024 Poy-Ah-Now Road         | North Fork    | 93643      |
| Fink    | Elaine (Judy) | Chairperson               | North Fork Rancheria                                 | P.O. Box 929                  | North Fork    | 93643      |
| Fink    | Dene          |                           | North Fork Rancheria                                 | 32033 Poy-Ah-Now Road         | North Fork    | 93643      |
| Lee     | Gaylen        |                           | North Fork Rancheria                                 | P.O. Box 869                  | North Fork    | 93643      |
| Matzke  | Brett         |                           | North Fork Rancheria                                 | 33143 Road 222                | North Fork    | 93643      |

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|----------------|-----------|--|---|----------------------------|---------------|------------|
|                |           |  | North Fork Rancheria  | 13396 Tollhouse Road       | Clovis        | 93611      |
|                |           |  | North San Joaquin Water Conservation District   | P.O. Box 757               | San Joaquin   | 93660      |
| Erolinda Perez | Katherine |  | North Valley Yokuts Tribe   | P. O. Box 717              | Linden        | 95236      |
|                |           |  | Northern California Power Agency  | 180 Cirby Way              | Roseville     | 95678      |
|                |           |  | Oakdale Irrigation District   | 1205 East F Street         | Oakdale       | 95361      |
| O'Banion       | Mike      | Owner                                    | O'Banion Farms  | 4160 Brentwood Street      | Chowchilla    | 93610-8449 |
|                |           | Regional Environmental Intern, Region IX | Office of Environmental Policy and Compliance, Dept. of the Interior                      | 333 Bush Street, Suite 500 | San Francisco | 94104      |
| Spector        | Juliana   |  | Omochumne-Hartnell Water District   | 7513 Sloughhouse Road      | Elk Grove     | 95624      |
| Bailey         | Harvey    | President                                | Orange Cove Irrigation District   | 1130 Park Boulevard        | Orange Cove   | 93646      |
|                |           |  | Orland-Artois Water District  | P.O. Box 218               | Orland        | 95963      |
|                |           |  | Oro Loma Water District   | 2655 Grant Avenue          | San Lorenzo   | 94580      |
|                |           |  | Pacheco Water District  | 52027 West Althea Avenue   | Firebaugh     | 93622      |
| Grader         | Zeke      | Executive Director                       | Pacific Coast Federation of Fishermen's Associations and Institute for Fisheries Research | PO Box 29370               | San Francisco | 94129-0370 |
|                |           |  | Pacific Gas and Electric, Technical and Ecological Services                               | 3400 Crow Canyon Road      | San Ramon     | 94583      |
|                |           |  | Pajaro Valley Water Management Agency   | 36 Brennan Street          | Watsonville   | 95076      |
| Mellilo        | Tony      |  | Palazzo Farms   | 13355 West Bisignani Road  | Los Banos     | 93635      |
| Palazzo        | Pat       |  | Palazzo Farms   | 13355 West Bisignani Road  | Los Banos     | 93635      |
|                |           |  | Panoche Water District  | 52027 West Althea Avenue   | Firebaugh     | 93622      |
| Catania        | Roy       |  | Paramount Farming Company   | 7 1/2 Avenue 10302         | Firebaugh     | 93622      |
| Phillimore     | William   |  | Paramount Farming Company   | 33141 Lerdo Highway        | Bakersfield   | 93308-9767 |
| Widhalm        | Mike      |  | Paramount Farming Company   | 33141 East Lerdo Highway   | Bakersfield   | 93308      |

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|---------------|---------|------------------------------------|--|----------------------------|-----------------|------------|
|               |         |                                    | Patterson Irrigation District  | 948 Orange Avenue          | Patterson       | 95363-9692 |
| Tucker        | Scott   |                                    | Pelger Mutual Water Company  | 805 Ridgeview              | Woodland        | 95695      |
|               |         |                                    | Picayne Rancheria of Chukchansi Indians  | 46575 Road 417             | Coarsegold      | 93614      |
| Ayala         | Nancy   | Chairperson Environmental Director | Picayune Rancheria of Chuckchansi  | 46575 Road 417             | Coarsegold      | 93613      |
| Elizondo      | Sammuel |                                    | Picayune Rancheria of Chuckchansi  | 46575 Road 417             | Coarsegold      | 93614      |
| Martin        | Gary    |                                    | Pikalok Farming  | P.O. Box 549               | Firebaugh       | 93622      |
| Pirtle        | Gary    |                                    | Pirtle, Gary M. Trust et al.   | 6419 Road 24               | Madera          | 93637      |
|               |         |                                    | Pixley Irrigation District   | 357 East Olive Avenue      | Tipton          | 93272-9627 |
|               |         |                                    | Placer County Water Agency   | 144 Ferguson Road          | Auburn          | 95603      |
| Minton        | Jonas   | Senior Water Policy Advisor        | Planning and Conservation League   | 1107 9th Street, Suite 901 | Sacramento      | 95814      |
|               |         |                                    | Pleasant Grove-Verona Mutual Water Company   | 1510 West Catlett Road     | Pleasant Grove  | 95668      |
|               |         |                                    | Pleasant Valley Water District   | P.O. Box 468               | Coalinga        | 93210-0468 |
| Swingley      | Robert  |                                    | Porter Estate Co, Poso Ranch Inc.  | 100 Bush Street 800        | San Francisco   | 94104      |
| Lombardi      | Guido   | President                          | Porterville Irrigation District  | 22086 Avenue 160           | Porterville     | 93257      |
| Gardali       | Thomas  |                                    | PRBO Conservation Science  | 3820 Cypress Drive #11     | Petaluma        | 94954      |
|               |         |                                    | Princeton-Codora-Glenn Irrigation District   |                            | Princeton       | 95970-0098 |
|               |         |                                    | Proberta Water District  | 21246 Dusty Way            | Red Bluff       | 96080      |
|               |         |                                    | Provident Irrigation District  | 258 South Butte Street     | Willows         | 95988-3005 |
| Jennifer      | Parson  |                                    | Real Estate Services Division, Professional Services Branch; California Department of General Services | 707 3rd Street, 3rd Floor  | West Sacramento | 95605      |
| Hunt 96-42020 | Shane   |                                    | Reclamation DC   | 1849 C Street NW           | Washington      | 20240-0001 |
|               |         |                                    | Reclamation District No. 1004  | 134 5th Street             | Colusa          | 95932-2409 |
|               |         |                                    | Reclamation District No. 108   | 975 Wilson Bend Road       | Grimes          | 95950      |

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|--------------|---------|----------------------------|--|-------------------------------------|----------------|------------|
| Mallyon      | John    | General Manager            | Reclamation District No. 1606                        | P.O. Box 757                        | San Joaquin    | 93660      |
|              |         |                            | Reclamation District No. 770                         | P.O. Box 877                        | Corcoran       | 93212      |
|              |         |                            | Reclamation District No. 830                         | 450 Walnut Meadows Drive            | Oakley         | 94561      |
| Hyatt        | David   |                            | Reclamation Fresno                                   | 1243 N Street                       | Fresno         | 93721      |
| SJRRP Office |         |                            | Reclamation Sacramento                               | 2800 Cottage Way                    | Sacramento     | 95825      |
| Edwards      | Tracy   | Chief Executive Officer    | Redding Rancheria                                    | 2000 Redding Rancheria Road         | Redding        | 96001      |
| Hart         | Jason   | Chairperson                | Redding Rancheria                                    | 2000 Redding Rancheria Road         | Redding        | 96001      |
|              |         | Cultural Resources Program |  |                                     |                |            |
| Hayward, Sr. | James   |                            | Redding Rancheria                                    | 2000 Redding Rancheria Road         | Redding        | 96001      |
| Fausone      | Steve   |                            | Redfern Ranches                                      | 14664 Brannon Avenue                | Dos Palos      | 93620      |
| Redfern-West | Suzanne | Owner                      | Redfern Ranches (Steve Fausone)                      | 14664 Brannon Avenue                | Dos Palos      | 93620-9469 |
| Reents       | Gary    | Chair                      | Regional Water Authority                             | 5620 Birdcage Street, Suite 180     | Citrus Heights | 95610      |
| Acree        | Chris   |                            | Revive the San Joaquin                               | 5132 North Palm Avenue, PMB 121     | Fresno         | 93704      |
| Rentner      | Julie   | Restoration Ecologist      | River Partners                                       | 912 Eleventh Street, Suite LL2      | Modesto        | 95354      |
|              |         |                            | River Partners, SJV Project                          | 806 14th Street                     | Modesto        | 95354      |
| Sloan        | Richard |                            | River Tree Volunteers                                | 1509 East Fallbrook                 | Fresno         | 93720      |
|              |         |                            | Roberts Ditch Irrigation Company                     | 436 Market Street                   | Colusa         | 95932      |
|              |         |                            | Root Creek Water District                            | 1368 West Herndon Avenue, Suite 103 | Fresno         | 93711-7172 |
|              |         |                            | Rosedale-Rio Bravo Water Storage District            | 849 Allen Road                      | Bakersfield    | 93314-9402 |
|              |         | Executive Director         | Sacramento Area Flood Control Agency                 | 1007 7th Street, 5th Floor          | Sacramento     | 95814-3407 |
|              |         |                            | Sacramento County Board of Supervisors               | 700 H Street, Suite 2450            | Sacramento     | 95814      |
|              |         |                            | Sacramento County Public Works - Planning Department | 827 7th Street                      | Sacramento     | 95814      |

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|-----------|----------|---------------------------|--|-------------------------------------|----------------|------------|
|           |          |                           | Sacramento County Water Agency                                   | 827 7th Street, Room 301            | Sacramento     | 95814      |
|           |          |                           | Sacramento Groundwater Agency                                    | 5620 Birdcage Street, Suite 180     | Citrus Heights | 95610      |
|           |          |                           | Sacramento Municipal Utility District                            | P.O. Box 15830                      | Sacramento     | 95852      |
|           |          |                           | Sacramento Public Library  | 828 I Street                        | Sacramento     | 95814      |
|           |          |                           | Sacramento River Water Contractors Authority                     | 910 K Street, Suite 310             | Sacramento     | 95852-1830 |
|           |          |                           | Sacramento Suburban Water District                               | 3701 Marconi Avenue, Suite 100      | Sacramento     | 95821-5346 |
| Samarin   | Ken      |                           | Samarin Farms  | 2085 North Lake                     | Kerman         | 93630      |
|           |          |                           | San Benito County Water District                                 | 30 Mansfield Road                   | Hollister      | 95023-9732 |
|           |          |                           | San Joaquin County Board of Supervisors                          | 44 N. San Joaquin Street            | Stockton       | 95202      |
| Ornellas  | Leroy    | Chair                     | San Joaquin County Flood Control and Water Conservation District | 1810 East Hazelton Avenue           | Stockton       | 95205      |
|           |          |                           | San Joaquin County Planning Department                           | 6 South El Dorado Street, 2nd Floor | Stockton       | 95202      |
| Brewer    | Robert   | President                 | San Joaquin River Association                                    | 10637 No. Lanes Road                | Fresno         | 93720      |
| Marks     | Melinda  | Executive Officer         | San Joaquin River Conservancy                                    | 5469 E. Olive Avenue                | Fresno         | 93727      |
| Chedester | Steve    |                           | San Joaquin River Exchange Contractors Water Authority           | PO Box 2115                         | Los Banos      | 93635      |
| Koehler   | Dave     | Executive Director        | San Joaquin River Parkway and Conservation Trust                 | 11605 Old Friant Road               | Fresno         | 93730      |
| Green     | Sargeant | Technical Coordinator     | San Joaquin River Resource Management Coalition                  | 6014 North Cedar Avenue             | Fresno         | 93710      |
| Martin    | Mari     | Chairperson               | San Joaquin River Resource Management Coalition                  | PO Box 2115                         | Los Banos      | 93635      |
| Meade     | Rod      | Restoration Administrator | San Joaquin River Restoration Program                            | 1221 Torrey Pines Road              | La Jolla       | 92037      |
| Short     | Allen    | Coordinator               | San Joaquin Tributary Association                                | 1231 11th Street                    | Modesto        | 95352      |
| Martinez  | Jose     |                           | San Joaquin Valley Air Pollution Control District                | 1990 East Gettysbury Avenue         | Fresno         | 93726      |

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|-------------|-----------|----------------------|--|--------------------------------|-----------------|------------|
| Sadredin    | Sayed     |                      | San Joaquin Valley Air Pollution Control District              | 1990 East Gettysbury Avenue    | Fresno          | 93726      |
| Willis      | Jessica   |                      | San Joaquin Valley Air Pollution Control District              | 1990 East Gettysbury Avenue    | Fresno          | 93726      |
| Peterson    | David     | President            | San Juan Water District  | 9935 Auburn Folsom Road        | Granite Bay     | 95746      |
| Nelson      | Dan       | Executive Director   | San Luis & Delta-Mendota Water Authority                       | 1415 L Street, Suite 800       | Sacramento      | 95814      |
| Rubin       | Jon D.    |                      | San Luis & Delta-Mendota Water Authority                       | 1415 L Street, Suite 800       | Sacramento      | 95814      |
| Hurley      | Chase     | General Manager      | San Luis Canal Company/Henry Miller Reclamation District #2131 | 11704 West Henry Miller Avenue | Dos Palos       | 93620      |
| Neves       | Anthony   | (Also Neves Farms)   | San Luis Canal Company/Henry Miller Reclamation District #2131 | 715 Madison Avenue             | Los Banos       | 93635-4716 |
| Hurd        | Chris     | President            | San Luis Water District  | 1015 6th Street                | Los Banos       | 93635      |
| Sanchez     | Sig       | Chair                | Santa Clara Valley Water District                              | 5750 Almaden Expressway        | San Jose        | 95118-3686 |
| Halliman    | Thomas    | President            | Santa Nella County Water District                              | 12931 South Highway 33         | Santa Nella     | 95322      |
| Barrios Sr. | Rueben    | Chairperson          | Santa Rosa Rancheria   | P. O. Box 8                    | Lemoore         | 93245      |
| Franco      | Lalo      | Cultural Coordinator | Santa Rosa Tachi Rancheria                                     | P. O. Box 8                    | Lemoore         | 93245      |
| Merritt     | Eric      | President            | Saucelito Irrigation District                                  | 20712 Avenue 120               | Porterville     | 93258      |
|             |           |                      | Say Family Trust 1997  | 5775 Greenwood Avenue          | Clovis          | 93619      |
| Pedreira    | Thomas    |                      | Seajar, LLC  | 102 West Alexander Avenue      | Merced          | 95348      |
| Boschman    | Wilmar L. |                      | Semitropic Water Storage District                              | 1101 Central Avenue            | Wasco           | 93280      |
| Ezell       | Jerry L.  |                      | Shafter-Wasco Irrigation District                              | PO Box 1168                    | Wasco           | 93280      |
| Frantz      | Mark      | President            | Shafter-Wasco Irrigation District                              | PO Box 1168                    | Wasco           | 93280      |
|             |           |                      | Shasta County Water Agency                                     | 1855 Placer Street             | Redding         | 96001-1759 |
| Shehady     | Larry     |                      | Shehadey Larry Farms Ltd.                                      | 144 E. Belmont Avenue          | Fresno          | 93701      |
| Fonseca     | Nicholas  | Chairperson          | Shingle Springs Band of Miwok Indians                          | P.O Box 1340                   | Shingle Springs | 95682      |

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|----------|-----------|-----------------------------|--|------------------------------|-----------------|------------|
| Fonseca  | Daniel    | Cultural Resources Director | Shingle Springs Band of Miwok Indians            | P.O. Box 1340                | Shingle Springs | 95682      |
| Bill     | Lawrence  | Interim Chairperson         | Sierra Nevada Native American Coalition          | P. O. Box 125                | Dunlap          | 93621      |
|          |           |                             | South Delta Water Agency                         | 4255 Pacific Avenue, No. 2   | Stockton        | 95207      |
| Fisher   | John      | President                   | Southern San Joaquin Municipal Utility District  | P.O. Box 279                 | Delano          | 93216      |
| Brochini | Anthony   | Chairperson                 | Southern Sierra Miwok Nation                     | P. O. Box 1200               | Mariposa        | 95338      |
| James    | Les       | Spiritual Leader            | Southern Sierra Miwok Nation                     | P.O. Box 1200                | Mariposa        | 95338      |
|          |           |                             | Southern Sierra Miwok Nation                     | P.O. Box 1200                | Mariposa        | 95338      |
|          |           | County Administrator        | Stanislaus County                                | 1010 10th Street             | Modesto         | 95354      |
|          |           |                             | Stanislaus County Board of Supervisors           | 1010 10th Street, Suite 6500 | Modesto         | 95354      |
| Mendez   | Raul      |                             | Stanislaus County Environmental Review Committee | 1010 10th Street, Suite 3400 | Modesto         | 95354      |
| Cotta    | Stanley   |                             | Stanley Cotta Farms                              | 3221 Emory Road              | Dos Palos       | 93620      |
|          |           |                             | State Clearinghouse                              | P.O. Box 3044                | Sacramento      | 95812-3044 |
| Erlewine | Terry     |                             | State Water Contractors                          | 1121 L Street                | Sacramento      | 95814      |
|          |           |                             | State Water Resources Control Board              | 1001 I Street, 14th Floor    | Sacramento      | 95814      |
| Carr     | Chris     |                             | State Water Resources Control Board              | 1001 I Street, 14th Floor    | Sacramento      | 95814      |
| Grober   | Les       |                             | State Water Resources Control Board              | 1001 I Street, 14th Floor    | Sacramento      | 95814      |
| Mrowka   | Kathy     | Chief, Inland Streams Unit  | State Water Resources Control Board              | 1001 I Street                | Sacramento      | 95814      |
| Kelly    | Robert    | Owner                       | Stevenson Ranch                                  | 25079 West River Road        | Stevenson       | 95374      |
| Zolezzi  | Jeanne M. |                             | Stockton East Water District                     | 6767 E Main Street           | Stockton        | 95215      |
| Simms    | George    | President                   | Stone Corral Irrigation District                 | 37656 Road 172               | Visalia         | 93292      |
|          |           |                             | Stony Creek Water District                       | 940 County Road 303          | Elk Creek       | 95939      |
| Bishop   | Cathy     | Chairperson                 | Strawberry Valley Rancheria                      | P.O. Box 667                 | Marysville      | 95901      |
| Inamine  | Mike      | Executive Director          | Sutter Butte Flood Control Agency                | 1227 Bridge Street, Suite C  | Yuba City       | 95991      |

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|--------------|----------|----------------------------|---------------------------------------|------------------------------|---------------|------------|
|              |          |                            | Sutter Mutual Water Company           | 15094 Cranmore Road          | Robbins       | 95676      |
|              |          |                            | Sutter-Extension Water District       | 4525 Franklin Road           | Yuba City     | 95993      |
|              |          |                            | Swinford Tract Irrigation District    | P.O. Box 7321                | Mammoth Lakes | 93546      |
| Coney        | Grayson  | Cultural Director          | T' si-Akim Maidu                      | P.O. Box 1316                | Colfax        | 95713      |
| Moon         | Eileen   | Vice Chairperson           | T' si-Akim Maidu                      | P.O. Box 1246                | Grass Valley  | 95945      |
| Ryberg       | Don      | Chairperson                | T' si-Akim Maidu                      | 1239 East Main Street        | Grass Valley  | 95945      |
| Pennell      | Bob      | Cultural Resource Director | Table Mountain Rancheria              | P. O. Box 410                | Friant        | 93626      |
| Walker Grant | Leann    | Chairperson                | Table Mountain Rancheria              | P. O. Box 410                | Friant        | 93626      |
| Walker-Grant | Leanne   | Chairperson                | Table Mountain Rancheria              | 23736 Sky Harbor Rd          | Friant        | 93626      |
|              |          |                            | Tachi Yokut Tribe                     | 16835 Alkali Drive           | Lemoore       | 93245-9463 |
| Sherwood     | David    | President                  | Tea Pot Dome Water District           | 105 West Tea Pot Dome Avenue | Porterville   | 93257      |
|              |          |                            | Tehama-Colusa Canal Authority         | P.O. Box 1025                | Willows       | 95988      |
| Wheaton      | Edwin    | President                  | Terra Bella Irrigation District       | 24790 Avenue 95              | Terra Bella   | 93270      |
| Vorster      | Peter    |                            | The Bay Institute                     | 3901 Belfour Avenue          | Oakland       | 94610      |
| Smith        | Rosemary | Chairperson                | The Choinumni Tribe of Yokuts         | 1099 Pistachio Avenue        | Clovis        | 96311      |
| Matsumoto    | Sandi    | Program Director           | The Nature Conservancy                | 555 Capitol Mall, Suite 1290 | Sacramento    | 95814      |
| Weber        | Magill   |                            | The Nature Conservancy                | 555 Capitol Mall, Suite 1290 | Sacramento    | 95814      |
|              |          |                            | The West Side Irrigation District     | 1320 N Tracy Boulevard       | Tracy         | 95376-3436 |
|              |          |                            | Thomes Creek Water District           | P.O. Box 1017                | Corning       | 96021-1017 |
|              |          |                            | Tisdale Irrigation & Drainage Company | P.O. Box 309                 | Meridian      | 95957-0309 |
| Alvarez      | David    | Chairperson                | Traditional Choinumni Tribe           | 2415 E. Houston Avenue       | Fresno        | 93720      |
|              |          |                            | Traditional Choinumni Tribe           | 2787 North Piedra Road       | Sanger        | 93657      |

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|----------|---------|----------------------------------|--|---|-------------|------------|
|          |         |                                  | Traditional Mono Basket                | P.O. Box 62   | Friant      | 93626      |
|          |         |                                  | Tranquility Irrigation District        | 25390 W Silveria Street                             | Tranquility | 93668      |
|          |         |                                  | Tranquility Public Utility District    | 97 South Corona Drive                               | Porterville | 93257      |
|          |         | Executive Director               | Tree Fresno                            | 3150 E. Barstow Avenue                              | Fresno      | 93740      |
| Ayres    | Lee     |                                  | TreeTOPS                               | 5132 North Palm Avenue, PMB 121                     | Fresno      | 93704      |
|          |         |                                  | Tri-Valley Water District              | 15142 East Goodfellow Avenue                        | Sanger      | 93657      |
| Ferrari  | Chandra |                                  | Trout Unlimited                        | 125 Ada Way   | Sacramento  | 95819      |
| Henery   | Rene    |                                  | Trout Unlimited                        | 2239 5th Street                                     | Berkeley    | 94710      |
|          |         |                                  | Tulare County                          | County Civic Center, 2800 West Burrel               | Visalia     | 93921      |
|          |         |                                  | Tulare County Board of Supervisors     | 2800 West Burrel Avenue                             | Visalia     | 93921      |
|          |         |                                  | Tulare County Planning and Development | 221 South Mooney Boulevard, County Civic Center 111 | Visalia     | 93291-1920 |
| Bixler   | David   | President                        | Tulare Irrigation District             | 6826 Avenue 240                                     | Tulare      | 93274      |
|          |         | Tribal Archeological Coordinator |  |   |             |            |
| Garfield | Joey    |                                  | Tule River Indian Tribe                | P.O. Box 589  | Porterville | 93258      |
| Peyron   | Neil    | Chairperson                      | Tule River Indian Tribe                | P.O. Box 589  | Porterville | 93258      |
|          |         | Environmental Department         |  |   |             |            |
| Vera     | Kerri   |                                  | Tule River Indian Tribe                | P.O. Box 589  | Porterville | 93258      |
|          |         |                                  | Tule River Tribe                       | 340 N Reservation Road                              | Porterville | 93257      |
|          |         | Tribal Administrator             |  |   |             |            |
| Camp     | Mary    |                                  | Tuolumne Band of Me-Wuk                | P.O. Box 699  | Tuolumne    | 95379      |
| Day      | Kevin   | Chairperson                      | Tuolumne Band of Me-Wuk                | P.O. Box 699  | Tuolumne    | 95379      |
|          |         | Cultural Resources Dr            |  |   |             |            |
| Cox      | Stanley |                                  | Tuolumne Band of Mi-Wuk                | P.O. Box 699  | Tuolumne    | 95379      |
| Fuller   | Reba    |                                  | Tuolumne Band of Mi-Wuk                | P.O. Box 699  | Tuolumne    | 95379      |
|          |         |                                  | Tuolumne Rancheria                     | P.O. Box 699  | Tuolumne    | 95379      |
|          |         |                                  | Tuolumne Utilities District            | 18885 Nugget Boulevard                              | Sonora      | 95370-9284 |
|          |         |                                  | Turlock Irrigation District            | 333 East Canal Drive                                | Turlock     | 95381      |

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|----------------|-----------------|----------------------------|--|---|---------------|-------------|
|                |                 |                            | Turner Island Farms  | 1269 W I Street   | Los Banos     | 93635-3930  |
|                |                 |                            | Turner Island Water District   | 1269 West "I" Street  | Los Banos     | 93635       |
| Jewell         | Michael         | Chief, Regulatory Division | U.S. Army Corps of Engineers   | 1325 J Street   | Sacramento    | 95814-95814 |
| Muncy          | Brandon         |                            | U.S. Army Corps of Engineers   | 1325 J Street   | Sacramento    | 2928        |
| Norton         | Kathy           |                            | U.S. Army Corps of Engineers   | 1325 J Street   | Sacramento    | 95814       |
| Larson         | Aaron           |                            | U.S. Army Corps of Engineers   | 1325 J Street   | Sacramento    | 95814       |
| Johannis       | John            |                            | U.S. Army Corps of Engineers, Sacramento District                      | 1325 J Street   | Sacramento    | 95814       |
|                |                 |                            | U.S. Coast Guard   | 900 Beach Drive   | Rio Vista     | 94571       |
|                |                 |                            | U.S. Coast Guard, Division of Boating Safety                           | 6037 Price Avenue #1106                                     | McLellan      | 95652-2400  |
|                |                 |                            | U.S. Department of Agriculture Forest Service                          | 650 Capitol Mall, Suite 8-200                               | Sacramento    | 95814       |
|                |                 |                            | U.S. Department of Agriculture Forest Service - Sierra National Forest | 1600 Tollhouse Road   | Clovis        | 93611       |
| Mahdavi        | Sarvy           |                            | U.S. Environmental Protection Agency                                   | Environmental Review Office 75 Hawthorne Street c/o Water 8 | San Francisco | 94105       |
| Sachs          | Carol           |                            | U.S. Environmental Protection Agency Region 9                          | Environmental Review Office 75 Hawthorne Street             | San Francisco | 94105       |
| Goforth        | Kathleen Martyn |                            | U.S. Environmental Protection Agency, Environmental Review Office      | 75 Hawthorne Street   | San Francisco | 94105       |
| Skophammer     | Stephanie       |                            | U.S. Environmental Protection Agency, Region 9, CED-2                  | 75 Hawthorne Street   | San Francisco | 94105       |
| Cabrera-Stagno | Valentina       |                            | U.S. Environmental Protection Agency, WTR-2                            | 75 Hawthorne Street   | San Francisco | 94105       |
| Castleberry    | Dan             |                            | U.S. Fish & Wildlife Service   | 2800 Cottage Way, W-2605                                    | Sacramento    | 95825       |
| Clark          | Robert          |                            | U.S. Fish & Wildlife Service   | 2800 Cottage Way  | Sacramento    | 95825-1898  |

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|-------------------|---------------|-------------------------------|---|-------------------------------------|------------|------------|
| Dan               | Welsh         |                               | U.S. Fish & Wildlife Service  | 2800 Cottage Way                    | Sacramento | 95825-1898 |
| Mesick            | Carl          |                               | U.S. Fish & Wildlife Service  | 4001 North Wilson Way               | Stockton   | 95205      |
| Webb              | Kim           |                               | U.S. Fish & Wildlife Service  | 4001 North Wilson Way               | Stockton   | 95205      |
| Forrest           | Kim           |                               | U.S. Fish & Wildlife Service, Merced and San Luis National Wildlife Refuges | P.O. Box 2176                       | Los Banos  | 93635      |
| Robert            | Shaffer       |                               | U.S. Fish & Wildlife Service, Central Valley Joint Venture                  | 2800 Cottage Way, W-1916            | Sacramento | 95825      |
|                   |               |                               | U.S. Geological Survey - California Water Science Center                    | 6000 J Street Placer Hall Room 2005 | Sacramento | 95819-6129 |
|                   |               |                               | Union Public Utility District   | 339 Main Street                     | Murphys    | 95247      |
| Baker             | Gregory       |                               | United Auburn Indian Community of the Auburn Rancheria                      | 953 Indian Rancheria Road           | Auburn     | 95603      |
| Camp              | Jason         | THPO                          | United Auburn Indian Community of the Auburn Rancheria                      | 10720 Indian Hill Road              | Auburn     | 95603      |
|                   |               | Tribal Preservation Committee | United Auburn Indian Community of the Auburn Rancheria                      | 10720 Indian Hill Road              | Auburn     | 95603      |
| Guerrero          | Marcos        |                               | United Auburn Indian Community of the Auburn Rancheria                      | 10720 Indian Hill Road              | Auburn     | 95603      |
| Whitehouse        | Gene          | Chairperson                   | United Auburn Indian Community of the Auburn Rancheria                      | 10720 Indian Hill Road              | Auburn     | 95603      |
| Castro            | John          | Cultural Liaison              | United Tribe of Northern Calif., Inc., Wintun, Wintun, Wintoon              | 20059 Parocast                      | Redding    | 96003      |
| Gomes             | Gloria        | Chairperson                   | United Tribe of Northern Calif., Inc., Wintun, Wintun, Wintoon              | 20059 Parocast                      | Redding    | 96003      |
| Vida              | Linda         |                               | University of California, Water Resources Center Archives                   | 410 O'Brien Hall                    | Berkeley   | 94720-1718 |
| Haze              | Steve         |                               | Upper San Joaquin Stewardship Council                                       | 34876 SJ&E Road                     | Auberry    | 93602      |
|                   |               |                               | USDA-NRCS Fresno Area Office  | 4974 East Clinton Way, Suite 114    | Fresno     | 93727      |
| Michael and Wendy | Vander Dussen |                               | Vander Dussen, Michael and Wendy Trust                                      | 729 E Jefferson Road                | El Nido    | 95317      |
|                   |               |                               | Visalia Branch Library  | 200 West Oak Avenue                 | Visalia    | 93291-4931 |
| Sudman            | Rita          |                               | Water Education Foundation  | 717 K Street, #317                  | Sacramento | 95818      |

| Last        | First    | Title                             | Agency/Affiliation                      | Street Address                 | City            | Zip        |
|-------------|----------|-----------------------------------|---|--------------------------------|-----------------|------------|
|             |          |                                   | Water Quality Improvement SPA           | P.O. Box 218                   | South Dos Palos | 93665      |
|             |          |                                   | West Stanislaus Irrigation District     | P.O. Box 37                    | Westley         | 95387      |
| Birmingham  | Tom      |                                   | Broadview Water District                | 3130 N Fresno Street           | Fresno          | 93703-1126 |
|             |          |                                   | Westlands Water District                | 3130 N Fresno Street           | Fresno          | 93703-1126 |
|             |          |                                   | Westside Water District                 | 5005 State Highway 20          | Williams        | 95987-5137 |
|             |          |                                   | Widren Water District                   | P.O. Box 1365                  | Los Banos       | 93635      |
|             |          |                                   | Willow Creek Mutual Water Company       | 134 West Sycamore Street       | Willows         | 95988      |
|             |          |                                   | Willows Public Library                  | 201 North Lassen Street        | Willows         | 95988      |
| Franklin    | Andrew   | Chairperson                       | Wilton Rancheria                        | 9300 W. Stockton, Suite 200    | Elk Grove       | 95758      |
| Hutchason   | Steve    | Director of Cultural Preservation | Wilton Rancheria                        | 9300 W. Stockton, Suite 200    | Elk Grove       | 95758      |
| Sisk-Franco | Caleen   | Tribal Chair                      | Winnemem Wintu Tribe                    | 14840 Bear Mountain Road       | Redding         | 96003      |
| Burns       | Robert   |                                   | Wintu Educational and Cultural Council  | P.O. Box 483                   | Hayfork         | 96041      |
| Hayward     | Kelli    |                                   | Wintu Tribe of Northern California      | P.O. Box 995                   | Shasta Lake     | 96019      |
| Skinner     | L. Scott |                                   | Wolfsen Land and Cattle Company         | 1269 West "I" Street           | Los Banos       | 93635      |
|             |          |                                   | Woodbridge Irrigation District          | P.O. Box 580                   | Woodbridge      | 95258      |
| Woodrow     | Kenneth  | Chairperson                       | Wuksache Indian Tribe/Eshom Valley Band | 1179 Rock Haven Court          | Salinas         | 93906      |
| Sartuche    | John     |                                   | Wuksache Tribe                          | 1028 East K Avenue             | Visalia         | 93292      |
|             |          |                                   | Yolo County Library                     | 37750 Sacramento Street        | Yolo            | 95697      |
| Amaro       | Basilo   |                                   | Yolo County Library, Davis Branch       | 315 East 14th Street           | Davis           | 95616      |
| Areias      | James    |                                   |   | 11704 West Henry Miller Avenue | Dos Palos       | 93620      |

| Last               | First                    | Title    | Agency/Affiliation | Street Address           | City          | Zip        |
|--------------------|--------------------------|----------|--------------------|--------------------------|---------------|------------|
| Bong               | Harold J IV & Kimberly A |          |                    | P.O. Box 4               | Friant        | 93626      |
| Burkhart           | Shane & Becky            |          |                    | 4887 W Pinedale Avenue   | Fresno        | 93722      |
| Burrough           | John Miller              |          |                    | P.O. Box 62              | Friant        | 93626      |
| Butts              | Carolyn                  |          |                    | 732 Madison Avenue       | Los Banos     | 93635      |
| Cameron            | John                     |          |                    | 2384 Northhill           | Selma         | 93662      |
| Cardoza            | Cecilia                  |          |                    | 42779 Mint Road          | Dos Palos     | 93620      |
| Case               | Mike                     |          |                    | 685 Roble Drive          | Morgan Hill   | 95037      |
| Creekmore          | Briana                   |          |                    | P.O. Box 84              | Wilseyville   | 95257      |
| Cullins            | Maryann                  |          |                    | P.O. Box 47              | Friant        | 93626      |
| Doty               | Johnnie and Rosalie      |          |                    | 19424 Farallon Road      | Madera        | 93638      |
| Ehrich             | Tom                      |          |                    | 5231 Myrtle Drive        | Concord       | 94521-1524 |
| Enos               | Rose                     |          |                    | 15310 Bancroft Road      | Auburn        | 95603      |
| Fox                | Dennis                   |          |                    | 918 Blossom Street       | Bakersfield   | 93306      |
| Gaynor             | Keith                    |          |                    | PO Box 83                | Friant        | 93626      |
| Harvey             | Jill                     |          |                    | 11799 McCourtney Road    | Grass Valley  | 95949      |
| Henderson          | Kenneth and Ruby         |          |                    | P.O. Box 102 Friant      | Friant        | 93626      |
| Heredia            | Mark                     |          |                    | 5491 N. Ferger Avenue    | Fresno        | 93704      |
| Hollenbeck         | Jon                      |          |                    | 6260 N. Palm Ave 119     | Fresno        | 93704      |
| Hoover             | John K and Michelle A    | Trustees |                    | 13310W. Eagle Field Road | Firebaugh     | 93622      |
| Hoover             | John K and Michelle A    | Trustees |                    | 17275 N. Friant Road     | Friant        | 93626      |
| Hovannisian, Et Al | John                     |          |                    | P.O. Box 3665            | Pinedale      | 93650      |
| Howell             | Nelson                   |          |                    | 7444 E State Route 88    | Stockton      | 95215      |
| Hunger             | Paul                     |          |                    | P.O. Box 592             | Dos Palos     | 93620      |
| Hunniecutt         | Gloria P                 | Trustee  |                    | 55 Topaz Way             | San Francisco | 94131      |

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| Jaquith   | Howard                   |       |                    | 28490 Road 26            | Chowchilla     | 92610-8700 |
| Kissee    | William M. and Crystal K |       |                    | 4561 W. Celeste Avenue   | Fresno         | 93722      |
| Knight    | Ray                      |       |                    | 1565 P Street            | Firebaugh      | 93622      |
| Knutson   | Paulette Bianchi         |       |                    | P.O. Box 64 Friant       | Friant         | 93626      |
| Lanfranco | Reno & Suzanna           |       |                    | P.O. Box 132             | Kerman         | 93630      |
| Limas     | Jessi                    |       |                    | 230 Ridgeview Ct.        | Valley Springs | 95252      |
| Looney    | Bowman                   |       |                    | P.O. Box 468             | LeGrand        | 95333      |
| Lopes     | James                    |       |                    | 757 Orchard Road         | Vernalis       | 95385      |
| Lotkowski | John M.                  |       |                    | 4848 N Delbert Avenue    | Fresno         | 93722      |
| Marquez   | Frank                    |       |                    | P.O Box 565              | Friant         | 93626      |
| Martin    | Michael                  |       |                    | P.O. Box 2216            | Mariposa       | 95338      |
| Mathis    | Harold M and Carla M     |       |                    | P.O. Box 101             | Friant         | 93626      |
| McNamara  | Dan                      |       |                    | 9695 Turner Island Road  | Dos Palos      | 93620      |
| McNeil    | Deborah F                |       |                    | P.O. Box 1030            | Bonsall        | 92003      |
| Merlic    | Edward                   |       |                    | 18381 Laurel Drive       | Los Gatos      | 95030      |
| Millar    | Kent R. and Naomi M      |       |                    | 9110 N. Woodlawn Drive   | Fresno         | 93720      |
| O'Banion  | James                    |       |                    | 15775 So. Indiana Avenue | Dos Palos      | 93620      |
| Ogle      | Beverly                  |       |                    | 29855 Plum Creek Road    | Paynes Creek   | 96075      |
| Root      | Matthew                  |       |                    | 16117 North Street       | Keswick        | 96001      |
| Root      | Loretta                  |       |                    | 5620 Kofford Lane        | Redding        | 96001      |
| Roselli   | John                     |       |                    | 628 Ventura Avenue       | San Mateo      | 94403      |
| Salazar   | Joseph                   |       |                    |                          |                |            |
| Schroeder | Ken                      |       |                    | 4213 Scott Court         | Denair         | 95316      |
| Seaborn   | Joe and Leonor           |       |                    | P.O. Box 594 Friant      | Friant         | 93626      |
| Sequeira  | Joe Eugene               |       |                    | 15490 Willis Road        | Dos Palos      | 93620      |
| Shehren   | Rick                     |       |                    | 1421 Birchwood Lane      | Sacramento     | 95822      |

| Last                    | First             | Title | Agency/Affiliation | Street Address             | City          | Zip        |
|-------------------------|-------------------|-------|--------------------|----------------------------|---------------|------------|
| Stewart                 | Gerald J          |       |                    | 8708 N. 4th Street         | Fresno        | 93720      |
| Teixeira                | Shane             |       |                    | 11356 Road 5 1/2           | Firebaugh     | 93622      |
| Tostenson, <i>et al</i> | Mary F            |       |                    | 4374 N Blackstone Avenue   | Fresno        | 93726      |
| Waldron                 | Robert            |       |                    | PO Box 3492                | Carbondale    | 62902      |
| Wallace Moore           | April             |       |                    | 19630 Placer Hills Road    | Colfax        | 95713      |
| Watson, <i>et al</i>    | Ralph WW, A E Jr. |       |                    | P.O. Box 27138             | Fresno        | 93729      |
| Watson, <i>et al</i>    | Jenny WDW, A E    |       |                    | P.O. Box 27138             | Fresno        | 93729      |
| Weber                   | Peter             |       |                    | 320 West Bluff Avenue #103 | Fresno        | 93711      |
| Westcot                 | Dennis            |       |                    | 716 Valencia Avenue        | Davis         | 95616-0153 |
| Yonemura                | Randy             |       |                    | 4305 39th Avenue           | Sacramento    | 95824      |
| Burke                   | Kerry             |       |                    | 34 Ames Port Landing       | Half Moon Bay | 94019      |

**Appendix B**  
**PUBLIC MEETING TRANSCRIPTS**

This appendix contains transcripts of the public meetings that were held during the public review period of the DEIR.

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# Fresno Public Meeting Transcript

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REPORTER'S TRANSCRIPT OF PROCEEDINGS

NOVEMBER 4, 2013

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THE CALIFORNIA DEPARTMENT OF FISH AND  
WILDLIFE SALMON CONSERVATION AND RESEARCH  
FACILITY & RELATED FISHERIES MANAGEMENT ACTIONS  
DRAFT ENVIRONMENTAL IMPACT REPORT PUBLIC MEETING

-oOo-

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The proceedings in the above-entitled matter were held at the Saginaw Center, 3930 East Saginaw Way, Fresno, California, commencing at 6:15 p.m. on November 4, 2013, before DEVRA L. JOY, CSR No. 6459, a Certified Shorthand Reporter of the State of California, having offices located at Fresno, California.

PRESENT AT THE MEETING:

- MICHAEL STEVENSON
- GERALD HATLER
- RYAN ERLANDSEN
- BENESSA ESPINO
- JENNIFER PARSON
- KEVIND FISHER
- PATRICK DONALDSON

SPEAKER FROM THE COMMUNITY:

- RICHARD HASS

1                   MR. STEVENSON: Let's get started. Thank  
2 you all for coming tonight. My name is Michael  
3 Stevenson. I'm with a company called Horizon Water  
4 Environment, and we've been assisting the California  
5 Department of Fish & Wildlife in preparing the EIR. And  
6 I'm going to help facilitate the meeting tonight.

7                   We are going to start out with a  
8 presentation that describes the project that we're  
9 considering and the CEQA process, the reason why we're  
10 having this meeting, and where we go from here.

11                   So just a couple housekeeping things as I  
12 get started. You guys mostly have been here for a  
13 little bit, but we've got snacks in the back if you want  
14 a brownie or a danish or some regular or decaf coffee.  
15 Help yourself to that. There's also some poster boards  
16 you can take a look at. Restrooms are down the hall  
17 outside.

18                   And when you came in, you would have  
19 received a couple of handouts from Patrick. The first  
20 is a speaker card. If you want to give an oral comment  
21 tonight, please fill this out with your name and  
22 date. You can also take notes on it if you want to just  
23 track and outline your presentation or what you want to  
24 say.

25                   In addition, we've got a comment form, and

1 so for those of you who don't want to give verbal  
2 comment or want to do a written comment in addition,  
3 which we really encourage, please go ahead and complete  
4 one of these. You can just fold it right over. Staple  
5 or tape it, put a stamp on it, and drop it in the  
6 mail. You can also send in a letter on your own  
7 letterhead or by E-mail. There's an E-mail address.

8           There's a meeting agenda here, and on the  
9 back of this there's some basic ground rules. Most  
10 important one is if you have a cell phone, let's go  
11 ahead and put that on silent if you haven't already.  
12 I'm going to make sure I've done mine.

13           And then, finally, there's just a brief  
14 flier that tells a little more information about the  
15 project, how you can make comments on the Environmental  
16 Impact Report, and so forth.

17           In the audience we've got a number of  
18 folks from CDFW or other parts of the project team.  
19 Joe Hatler is here in the front. He's an environmental  
20 program manager, and he is helping manage this process  
21 for the Department of Fish and Wildlife. We also have  
22 Ryan Erlandsen from DFW. Benessa Espino, also from DFW.  
23 Jennifer Parson is here from Department of General  
24 Services. They've been assisting on the contracting  
25 side of this. And then Kevin Fisher is on my staff. So

1 hopefully we can assist you if you have any questions  
2 tonight.

3           So getting into the meeting agenda. So I  
4 already talked a little bit about the ground rules here.  
5 We'll talk a little bit more about that. Joe is going  
6 to tell you a little bit of background on the  
7 San Joaquin River restoration program and then the  
8 proposed project, and then I'm going to talk about the  
9 CEQA process, some of the highlights of the Draft  
10 Environmental Impact Report, how to comment during the  
11 public review period. And at that point we'll shift  
12 gears and start to take your public comments.

13           So the purpose of this meeting is we've  
14 got a Draft Environmental Impact Report that's been  
15 prepared for the Salmon Conservation & Research  
16 Facility. It's a hatchery that the Department is  
17 planning to build on the San Joaquin River.

18           The purpose of this is to provide the  
19 public and public agencies an opportunity to provide  
20 comments on the adequacy, sufficiency of the Draft  
21 Environmental Impact Report, the EIR, in analyzing  
22 possible impacts of the activity or the ways in which  
23 those effects, if they're significant, they might be  
24 avoided or reduced.

25           And so we really encourage you to provide

1 us if you have ideas for additional mitigation measures  
2 or alternatives that the Department should be  
3 considering. I really encourage you to provide that  
4 either orally or in writing. And, also, the basis for  
5 your comments if you have data to support them, relevant  
6 references, that's really useful to us as well.

7           So we're in the middle of our public  
8 review period. It's a 56-day public review period.  
9 Normally it's 45 days under CEQA. We had a glitch with  
10 the E-mail address at which we were supposed to be  
11 receiving comments, and that wasn't up and running for  
12 the first period, so we extended the public comment  
13 period to reflect that.

14           So once again, please silence all cell  
15 phones and pagers.

16           This probably won't be a problem, but  
17 if -- please, one person only speaking at a time. Clear  
18 and succinct comments are also very helpful.

19           And, finally, if you do hear any  
20 viewpoints that are different from your own, please be  
21 respectful. We want to have everyone have an  
22 opportunity to express their point of view.

23           So with that, I'm going to turn it over to  
24 Gerald.

25           GERALD HATLER: Thank you, Michael.

1 Well, thank you for coming tonight. I  
2 just want to give you a very, very brief background on  
3 the project.

4 So what you're -- what you're seeing here  
5 on the left, this is a Program Environmental Impact  
6 Statement, Environmental Impact Report that was prepared  
7 by the Bureau of Reclamation and Department of Water  
8 Resources. That document was released in 2011.

9 That document analyzes some of the broader  
10 aspects of the program, steps that the program needs to  
11 take to achieve the water management goal, flood  
12 management, some of those things.

13 There is some analysis of -- for fish  
14 reintroduction in that document, but it was based on, I  
15 think, the limited amount of information that they had  
16 at the time when that document was being prepared. So  
17 what we're doing here is we needed to develop a more  
18 robust document for our purposes to assist with the  
19 proposed actions to reintroduce spring-run Chinook  
20 salmon, in particular, under the project.

21 On the right side, that's showing -- give  
22 you some perspective on the project. But that's the  
23 entire San Joaquin River from the headwater out to the  
24 Delta. It's about 366 miles. The project itself is  
25 mainly focused on the reach -- 136 -- approximately 136

1 mile reach from Friant dam down to the confluence with  
2 the Merced River.

3           There are some broader management  
4 implications looking at -- looking at the San Joaquin  
5 basin tributary set that we've analyzed. And we also  
6 looked at some of the potential impacts with respect to  
7 some of the donor streams up in Northern California.

8           So the restoration program is a result of  
9 a settlement to restore the San Joaquin River. It was a  
10 suit filed primarily by NRDC and a coalition of  
11 environmental groups. They sued the Bureau of  
12 Reclamation and Friant Water Authority. Basically,  
13 Friant -- Friant constructed and operates the dam, and  
14 then the water itself is managed by Friant Water  
15 Authority.

16           And so in 2006 a settlement was reached  
17 to -- really to -- the settlement intended to achieve  
18 two collaborative coequal goals, one to restore the  
19 San Joaquin River and such that it could support  
20 reintroduced runs of Chinook salmon, both spring-run and  
21 fall-run Chinook, and then a water management goal that  
22 would offset those impacts resulting from restoration in  
23 the San Joaquin River and the flows that are called for  
24 in the settlement.

25           Now, the State's role in the restoration

1 project is largely outlined in what we're calling the  
2 State MOU. The State MOU outlines the State's role in  
3 implementing the project. And, you know, it was -- it  
4 was believed that the State should play a major  
5 collaborative role in planning, design, funding, and  
6 implementation of the settlement.

7           And the MOU also acknowledges the State's  
8 authorities, resources, broader resource strategies, and  
9 it also outlines oversight for flows, fish passage and  
10 entrainment, fish reintroduction, fishery monitoring and  
11 evaluation, and the establishment and maintenance of  
12 riparian habitat.

13           So here's -- here's an overview of the  
14 project area associated directly with the salmon  
15 conservation and research facility that we're  
16 proposing. This is Friant Dam right here. Right in  
17 here is the existing San Joaquin trout hatchery. And  
18 the facility itself is adjacent to the hatchery, about  
19 1.1 miles downstream of Friant Dam. Approximately, the  
20 proposed, at least, structural area is probably about  
21 two acres. There's also an access road that goes  
22 through there.

23           And so the facility includes buildings and  
24 residences in the proposed design. Potentially includes  
25 residences. We're still working that out. But we've

1 got a main hatchery building, small production area,  
2 adult captive brooding, and then we've got some water  
3 treatment features associated with it as well.

4           And so the project as described in this  
5 document involves five principle actions. One would be  
6 to construct and operate the conservation facility. The  
7 parties agreed that a hatchery would be necessary to  
8 achieve the fish reintroduction goals. Also, what we've  
9 analyzed is salmon reintroduction, including donor stock  
10 collection, broodstock development. And some of the  
11 sources of broodstock could potentially be streams in  
12 Northern California, the Deer Mill Creek complex,  
13 Butte Creek, Feather River. We're also looking at  
14 spring running -- spring running spring -- fish that  
15 exhibit a spring-run life history characteristic.  
16 Looking at McKelumne. There's spring run in Stanislaus,  
17 Battle Creek, Clear Creek, and/or Yuba Creek, and we're  
18 also looking at utilizing fish from Feather River Fish  
19 Hatchery.

20           And some of those reintroduction  
21 approaches could be direct release fish of river,  
22 translocating fish from one stream or one facility to  
23 another, taking the fish that are produced in the  
24 hatchery, releasing them somewhere else in the river.  
25 And so, you know, there's a broad spectrum of potential

1 actions that we could pursue, and we tried to  
2 sufficiently analyze those as much as possible in this  
3 document.

4 The third principle action would be to  
5 manage the salmon runs in the restoration area in the  
6 context of basin-wide strategies. And that kind of gets  
7 to our State MOU and the State's role in managing our  
8 broader regional resource strategies.

9 In the tributaries we've been managing  
10 fall-run Chinook salmon there for some time. We also  
11 manage salmon in Northern California where some of the  
12 donor stocks could come from. And so there's some  
13 potential implications between all these management  
14 actions and what we'd like to achieve under this  
15 project. And so, you know, there's some analysis of  
16 that.

17 We also have a great deal of work to  
18 pursue both in evaluating baseline conditions for the  
19 restoration program, finding out things about the river,  
20 about the quantity and quality of habitat, and actions  
21 that we think would be necessary to support  
22 reintroduction of spring and fall-run Chinook salmon in  
23 the restoration area. And there's -- and there's a lot  
24 of ongoing monitoring and evaluation that would be  
25 necessary in that.

1                   And then, finally, to manage and support  
2 recreation within the restoration area. You know, and  
3 that's really in the context of the Department's  
4 mission, you know, to manage the State's resources not  
5 only for the ecological value but for the use and  
6 enjoyment by the public.

7                   And that concludes what I wanted to  
8 present. I thank you again for coming.

9                   I really want to encourage you guys to  
10 provide your questions and comments later this evening,  
11 or, you know, provide your comments by the December 2  
12 deadline. We really want to honor your questions and  
13 comments by giving them the fullest possible  
14 consideration by responding appropriately in the final  
15 EIR.

16                   MICHAEL STEVENSON: Thanks, Gerald.

17                   So I'm going to talk a little bit more  
18 about the CEQA process and the Environmental Impact  
19 Report and its contents, how to provide public comment.

20                   So CEQA stands for California  
21 Environmental Quality Act. It's a state law that  
22 requires that all public agencies in the state, whether  
23 those are state or local agencies, consider the  
24 environmental impacts of their discretionary actions.  
25 And depending on the level of impact that's possible,

1 there's different types of documents that may be  
2 prepared.

3 In this case the Department has chosen to  
4 prepare the highest level of environmental  
5 documentation. It's called an Environmental Impact  
6 Report or EIR.

7 And so the purpose of this law is really  
8 to provide for public disclosure of those environmental  
9 impacts to be used by agency decision makers in deciding  
10 whether or not to carry out the actions as they're  
11 described and describe any mitigation measures or  
12 alternatives that could potentially be adopted that  
13 could reduce the impacts of those actions.

14 So Gerald talked a lot about what are the  
15 actions, and now I'm talking -- I'm going to talk a  
16 little bit more about what the impacts of those actions  
17 might be.

18 So in terms of the CEQA process, we  
19 circulated a Notice of Preparation November 2012.  
20 That's the very first step in the CEQA process. That  
21 initiated a 30-day public scoping period. During that  
22 time we received comments from members of the public and  
23 public agencies about what the EIR should address, scope  
24 and contents of the EIR. We had a series of public  
25 meetings, in fact, one at this location, during that

1 time.

2           Following that we considered all those  
3 comments, and we prepared a Draft EIR. And so that  
4 document was released just a few weeks ago, towards the  
5 beginning of last month, and we're now in this 56-day  
6 public review period. And during that time period we're  
7 having a meeting here tonight. We're going to have a  
8 meeting on Wednesday in Sacramento. And then in a  
9 couple weeks we're going to have another public meeting  
10 up in Chico. But those are opportunities for people to  
11 come and provide their comments, learn a little bit more  
12 about the project. We're also encouraging, as Gerald  
13 mentioned, that people submit comments in writing as  
14 well.

15           We will then prepare the final EIR. And  
16 I'll talk a little bit more about what's in the final  
17 EIR. That's anticipated early part of 2014, I think in  
18 the March time frame. And following that there will be  
19 a public notice. And then the Department will consider  
20 whether or not to approve the project and keep moving  
21 forward.

22           The next stage after that would be to  
23 continue the architectural design, engineering design  
24 for the facility.

25           But to finish that, the Department will

1 file what's called findings. They'll adopt findings on  
2 the project and file what's called a Notice of  
3 Determination. And that's the final step in the CEQA  
4 process.

5           In terms of the contents of the Draft EIR,  
6 here's a quick summary of the main sections of it.  
7 There's an Executive Summary. And so if you haven't  
8 read it yet, that's a great place to start. There's a  
9 more detailed information in the project description.  
10 Chapters 3 through 17 contain various topical impact  
11 sections. And I'll talk about those in just a second.  
12 And, also, note we've got alternatives analysis.

13           And so some of those topical sections,  
14 these are all different resource topics that are  
15 mandated by CEQA to be looked at, so it goes everywhere  
16 from aesthetics, air quality emissions, biological  
17 resources. I'm not going to list all these, but you can  
18 see there's a wide range of different topics that CEQA  
19 requires that you look at.

20           So in terms of the findings, I'm going to  
21 provide a very quick overview, and if you're interested  
22 in learning more about the findings in the EIR, do take  
23 a look at it. There's a summary in the "Executive  
24 Summary."

25           First of all, there were a number of

1 impacts that we found would be less than significant.  
2 Or if they were potentially significant, there's  
3 mitigation measures that the Department could implement  
4 that would reduce it to a level of less than  
5 significant. And that includes construction-related  
6 effects, for the most part, could be mitigated, whether  
7 that's noise, dust, air, air emissions, hatchery  
8 operations, broodstock collection from the Feather River  
9 Fish Hatchery, the effects of fish reintroduction on  
10 existing populations, not only of salmon but of other  
11 aquatic life, the effects of the research and monitoring  
12 activities that Gerald was talking about, and just a  
13 number of other topics where we found it was less than  
14 significant or less than significant with mitigation.

15           There were several possible significant  
16 and unavoidable impacts that were identified, and I want  
17 to talk about those briefly.

18           The first one is wild broodstock  
19 collection. Gerald was talking about some of the  
20 locations where spring-run Chinook may be collected for  
21 the purposes of developing a broodstock.

22           Prior to doing that, the Department would  
23 need to obtain a permit from the National Marine Fishery  
24 Service, and the National Marine Fishery Service would  
25 identify measures that would need to be taken to be

1 protective of those spring-run fish. And there are  
2 threatened runs, and the Department doesn't want to take  
3 any actions that could potentially jeopardize those  
4 fish.

5           However, under CEQA you have to have  
6 clearly identified what those measures are at the time  
7 you publish the Draft EIR in order to find that the  
8 impacts might be less than significant. And so because  
9 we don't know yet what the National Marine Fishery  
10 Service permit is going to require of them, we couldn't  
11 say that -- that the impact would necessarily be less  
12 than significant.

13           At the time that such a permit is going to  
14 be issued, it's the Department's plan to conduct  
15 additional CEQA analysis, look at those measures, and  
16 make conclusions related to whether or not the impacts  
17 on those native runs of fish would be significant.

18           But as I mentioned before, the  
19 Department's intent is not to have significant impacts,  
20 but because of CEQA's requirements and the fact that we  
21 don't know what those measures are, we found it as  
22 significant unavoidable.

23           Another area where we had kind of similar  
24 challenges with doing analysis related to greenhouse gas  
25 emissions and the fact that certain of the project

1 components aren't fully defined at this time. For many  
2 of them they are well defined, and we were able to do  
3 greenhouse gas emissions estimates and compare those  
4 against the significance threshold that's been adopted.

5           But for some of those things that may be a  
6 little bit further out such as some of the recreational  
7 enhancements, we didn't know the list of construction  
8 equipment might be needed, how many people might be  
9 using them. And so it's possible that once those are  
10 inventoried in the future, that they would exceed the  
11 threshold or that mitigation may not be feasible. And  
12 so we found that as significant unavoidable as well.

13           And, finally, there are many measures  
14 being taken right now to try to prevent the spread of  
15 aquatic invasive species. I know before this meeting  
16 started, we were talking about zebra mussels.

17           There are standard protocols that are in  
18 place for that, but we recognize that there really  
19 wasn't anything additional that the Department could do  
20 to try and prevent the spread of that beyond what  
21 they're doing already and that it was likely that if  
22 they did construct some of these recreational  
23 enhancements, it's possible that that could lead to the  
24 spread of invasive species. And so once again, to be  
25 conservative, we determined that that was a significant

1 unavoidable impact of the project.

2           So moving on to some of the alternatives  
3 that we considered, CEQA requires that you look at a no  
4 project alternative and evaluate what the possible  
5 consequences would be of not taking the action, and so  
6 we evaluated that. That would involve the Department  
7 not reintroducing fish, not constructing the SCARF.  
8 There are other parties that may very well be involved  
9 in doing some of these actions, and so it's possible  
10 that some of the other entities that Gerald was  
11 mentioning may step up and do some of these things if  
12 the Department weren't to go forward.

13           Some of the other alternatives we  
14 considered included the spring-run-only alternative. So  
15 right now the project contemplates reintroducing both  
16 fall-run Chinook and spring-run Chinook. We considered  
17 the possibility of, well, what if we only reintroduced  
18 spring-run Chinook, actively reintroduced spring-run  
19 Chinook, that maybe the fall-run Chinook might  
20 volitionally recolonize the area and what might the  
21 consequences of that be.

22           We also looked at -- because there's a lot  
23 of concern over possible effects on the native  
24 spring-run fish that could be used to develop a  
25 broodstock, we looked at what the consequences might be

1 if they only used hatchery broodstock from the Feather  
2 River Fish Hatchery.

3 And, finally, we looked at a siting  
4 alternative where we put the SCARF at a different site  
5 and reduced the impacts on that site and whether there'd  
6 be any advantage to that.

7 We looked at -- all these alternatives  
8 were designed to try and reduce some of the identified  
9 significant impacts of the project, and they all would  
10 reduce or avoid certain of those impacts. However, we  
11 did acknowledge in the document that we believed that  
12 the proposed project as it's designed is secure to any  
13 of these alternatives. The environmental benefits of it  
14 outweigh the adverse effects in comparison to these  
15 alternatives.

16 So that's a really brief summary of some  
17 of the key conclusions of the EIR. I do encourage you  
18 to look at the document more.

19 In terms of our next steps and timeline,  
20 the public review period ends on December 2. It's a  
21 Monday. So we do encourage you to provide your comments  
22 within that time frame.

23 The final EIR in the early part of next  
24 year.

25 And then the Department, at least ten days

1 after publishing the final EIR -- they have to wait that  
2 long -- then they would take the final steps of  
3 certifying the EIR, filing the NOD, and adopting the  
4 findings under CEQA.

5           And that final EIR is going to be an  
6 addendum document. So the Drift EIR is the bulk of the  
7 analysis. The final EIR will contain all the comments  
8 received during the public comment period, including  
9 transcripts of these meetings -- we have somebody taking  
10 a transcript right now -- specific responses to all the  
11 comments that have been provided, and then any changes  
12 to the Draft EIR based on those comments and responses,  
13 so any updates that the Department wants to make.

14           So in just a minute we're going to  
15 transition to the public comment portion of this  
16 meeting. And a couple of notes just on effective  
17 commenting. CEQA provides some guidance, actually, in  
18 the CEQA guidelines about how to provide comments. And  
19 one of the things it asks for is that comments should be  
20 substantive and focused on the sufficiency of the EIR  
21 and identifying possible impacts or ways in which they  
22 could be mitigated or alternatives that could avoid the  
23 impacts.

24           Specifically, we really encourage you to  
25 provide -- if you have alternative mitigation measures

1 or alternatives in general, be specific about what those  
2 might be, if they could better avoid or mitigate the  
3 impacts that we've identified.

4 Under CEQA there's what's called the  
5 Substantial Evidence Standard. And all analysis is  
6 supposed to be based on what's called substantial  
7 evidence. So that goes to the same thing for public  
8 comments. If you can provide substantial evidence, that  
9 really helps bolster your comments.

10 And, finally, you can give comments today  
11 verbally or you can provide them on the comment forms  
12 or, really, any time in writing or by E-mail during the  
13 public comment period.

14 Here's a little bit more information the  
15 public -- where to send your comments. And this is also  
16 in the handouts that you received.

17 Here's a couple websites for the project.  
18 Probably most of you are familiar with these. The top  
19 one is the Department's website specifically for this  
20 project, and then the bottom one is more generally  
21 related to the overall San Joaquin River restoration  
22 program.

23 So at this point we're going to transition  
24 into receiving everybody's public comments. Could I get  
25 a show of hands who all wants to give a comment

1 tonight. We have one.

2 Okay. And I believe that we already have  
3 your comment card. So you've got that one? Okay.

4 So what we're going to do -- and if other  
5 folks want to give comments, you're certainly welcome to  
6 do so once he's done.

7 What I'm going to do is bring this  
8 microphone over, and if you can just stand and state  
9 your name for the record, and then we'll have you give  
10 your comments.

11 So this is Richard.

12 RICHARD HAAS: Name's Richard Haas. You  
13 go -- I read in the book there you're going to put that  
14 hatchery on a hundred-year flood plain. Go higher.  
15 I've seen that hundred -- hundred-year flood plain not  
16 work on handicap fishing ramps up at -- on the  
17 San Joaquin River. They wash away.

18 That hatchery, after all the input's in,  
19 start building it in '15?

20 GERALD HATLER: Well, that depends. We've  
21 got a current construction schedule -- we would hope  
22 that we could begin constructing the hatchery, well,  
23 2014, I think. We hope to have it done by 2015.

24 RICHARD HAAS: Okay. Another question.  
25 After this gets going, all those old gravel pits, are

1 you going to plug them up or leave them open? Down  
2 around 41.

3 GERALD HATLER: Well, one of the  
4 settlement goals is to identify the highest priority  
5 mining pits for potential isolation from the San Joaquin  
6 River. So that is one of the major projects that's been  
7 identified in the settlement.

8 RICHARD HAAS: I know a lot of people that  
9 fish, and they're worried about they're going to dry  
10 them up and everything. Up in the Merced River, they're  
11 open up there.

12 That's all I got. Thank you.

13 MICHAEL STEVENSON: Thank you.

14 All right. Do we have anyone else who  
15 would like to give a comment?

16 Okay. Well, if you do want to talk with  
17 any of the staff that are here, we're going to be  
18 sticking around for a little while, so feel free to come  
19 up and talk to us. And if you do have written comments,  
20 we really do encourage you to provide those. So please  
21 get those in by the comment deadline of December 2.

22 And with that, I'll close the meeting.  
23 Thank you very much. Have a good night.

24 (Whereupon, the meeting concluded at  
25 approximately 6:44 p.m.)

1 State of California, )  
2 County of Fresno.) ) ss.

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I, DEVRA L. JOY, a Certified Shorthand Reporter of the State of California, having offices located in Fresno, California, do hereby certify:

THAT said proceedings was reported in shorthand by me at the time and place above stated, and thereafter transcribed under my direction and control.

I FURTHER CERTIFY that I am not interested in the outcome of said action, nor connected with, nor related to any of the parties in said action or to their respective counsel.

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DEVRA L. JOY, C.S.R. No. 6459

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# Sacramento Public Meeting Transcript

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CALIFORNIA DEPARTMENT OF  
FISH AND WILDLIFE

SALMON CONSERVATION AND RESEARCH FACILITY  
OPERATIONS, FISH REINTRODUCTION, AND  
RELATED MANAGEMENT ACTIONS  
DRAFT ENVIRONMENTAL IMPACT REPORT

Public Meeting  
Sacramento, California  
Wednesday, November 6, 2013  
6:00 p.m.

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Reported by: CATHERINE D. LAPLANTE  
CSR License No. 10140

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A P P E A R A N C E S

MICHAEL STEVENSON  
GERALD HATLER

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AGENDA

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| Comments by Mr. Stevenson     | 10   |
| Public Comments               | 19   |

1           MR. STEVENSON: All right, everybody. We're  
2 going to go ahead and get started here. Thank you very  
3 much for coming to the public meeting on the Draft  
4 Environmental Impact Report, the Salmon Conservation and  
5 Research Facility and Related Management Actions  
6 Project, part of the San Joaquin River Restoration  
7 Program, and the San Joaquin Research Facility, we call  
8 SCARF for short. I'll be referring to SCARF a lot.

9           Here in our audience, looks like we have agency  
10 representatives from the folks who are working directly  
11 on this contract. My name is Michael Stevenson. I'm  
12 with Horizon Water Environment. We are a contractor  
13 assisting with the preparation of the EIR.

14           This is Gerald Hatler. He is the manager on  
15 the CDFW side, Environmental Program Manager involved  
16 with the San Joaquin River Restoration Program. We also  
17 have Shannon Little from the Office of General Council  
18 at CDFW, and also assisting us from Department of  
19 General Services is Jennifer Parson, and then from my  
20 staff, this is Kevin Fisher. He's helped with the EIR  
21 preparation.

22           So we're going to talk probably for about a  
23 half-hour here about the project, the environmental  
24 analysis, the CEQA process, and then we're going to open  
25 it up to receive public comments.

1           So I'm going to briefly discuss the meeting  
2 purpose and the ground rules. Gerald is going to give a  
3 background on the San Joaquin River Restoration Program  
4 and give us a review of the proposed project and any  
5 actions contemplated in the EIR, and then I'll talk  
6 about the CEQA process and the highlights of the  
7 environmental analysis and how to comment during the  
8 public review period, and at that point, we'll turn it  
9 over to receive public comment.

10           So the purpose of this meeting is to allow  
11 members of the public, public agencies the opportunity  
12 to provide comments on the adequacy of the Draft EIR in  
13 evaluating possible environmental impacts of the  
14 proposed action, as well as the ways in which impacts  
15 that are found significant might be reduced or avoided  
16 or mitigated.

17           And so we're here really to hear from you all  
18 who are attending on these topics, ideas that you may  
19 have for alternative mitigation measures or additional  
20 mitigation measures, alternative approaches that should  
21 be considered. Those type of things we're hoping to get  
22 out of this process, and if you do have ideas also, the  
23 more data you can provide us, reference material,  
24 information to support the approach that you're  
25 suggesting, that's really useful.

1           Our public review period is 56 days. Normally  
2 it's a 45-day review period. We had a little glitch  
3 with the e-mail that -- at which we receive our  
4 comments, and so we extended it to account for that.

5           So meeting ground rules. You seem like an  
6 unruly bunch, so I'm going to be watching you.

7           Please silence your cell phone, if you haven't  
8 already, and let's see about some of these others.

9           Actually, you know, I forgot, before I turn  
10 this over to Gerald, I just wanted to call your  
11 attention to some of the materials you would have  
12 gotten.

13           This is the agenda. This is a flyer that has  
14 some information on how to provide your comments.

15           This one is actually a comment form, which  
16 folks can write down their comments if they want to.  
17 Fold it over, place a stamp on it and mail it in. You  
18 are also welcomed to e-mail us comments. There's an  
19 e-mail address, as well as write it on your own  
20 letterhead and also encouraged to submit multiple  
21 comments, if you want to.

22           If you're interested in speaking tonight, we  
23 have speaker cards. What we'll do is have everybody who  
24 wants to talk fill these out, and we'll collect them and  
25 call the folks up who want to give comment. You can

1 also write down some notes in terms of what you want to  
2 talk about; we can give it back to you for that purpose.  
3 If you want to talk, we can get one to you at that point  
4 in the meeting.

5 So with that, I will turn it over to Gerald who  
6 is going to give a background on the San Joaquin  
7 Restoration Program.

8 MR. HATLER: Thank you, Michael. Thank you for  
9 coming tonight.

10 One thing I would like to add to the setting  
11 for the meeting tonight is that I would really want to  
12 encourage people to provide questions and comments. We  
13 want to honor those questions and comments and respond  
14 appropriately, and so we will be waiting to respond to  
15 those comments when we can give them the fullest  
16 consideration in the Final EIR.

17 Also, it's really important that the questions  
18 and comments focus on the project description. It gives  
19 you much more standing for your comments and questions,  
20 and it also makes it easier for us to respond to them.

21 So, again, my name is Gerald Hatler. I  
22 supervise and manage all the staff working on the  
23 restoration program for the Department, as well as  
24 manage the Department's involvement with the restoration  
25 program.

1 I had been on the project pretty much since its  
2 inception, and so I have been involved with all the  
3 fishery and restoration activities on the program for  
4 almost seven years now, and so the activities proposed  
5 in the Draft EIR are -- they're disclosing activities  
6 that the Department seeks to pursue to support  
7 implementation of the San Joaquin River Settlement  
8 Agreement, and the settlement agreement has two  
9 foundational goals, and they're both treated co-equally.

10 One is to restore the San Joaquin River so that  
11 it will support spring and fall-run Chinook Salmon and  
12 other native fish, and the other goal is to reduce or  
13 avoid impact to necessary water supplies as a result of  
14 program implementation.

15 And the Department is one of five primary  
16 implementing agencies on the project that includes the  
17 State Department of Water Resources, National Marine  
18 Fishery Service, the US Fish and Wildlife Service, and  
19 the US Bureau of Reclamation.

20 The State is not a settling party under the  
21 settlement agreement, but our role and commitment to  
22 implement the settlement is set forth under an MOU  
23 between the State and the settling parties.

24 And the MOU also acknowledges that the State  
25 has a significant interest in restoring the San Joaquin

1 River, and, you know, we are a public trust for the  
2 resources associated with the river.

3 It's not really too easy to see.

4 The project itself is a 153-mile reach from  
5 Friant Dam northeast of the City of Fresno all the way  
6 down to the confluence with the Merced River, and the  
7 potential affected area would include tributaries in the  
8 San Joaquin basin and in the Sacramento River basin, as  
9 well as the Delta and the Pacific Ocean connected for  
10 salmon.

11 The proposed site for construction of the  
12 conservation facility is approximately 1.1 miles  
13 downstream from Friant Dam near the town of Friant, and  
14 the proposed hatchery itself, this is -- this is the  
15 proposed site here, and here's the existing State trout  
16 hatchery and the proposed hatchery is probably about  
17 half the size of the existing State trout hatchery.

18 The hatchery itself is largely composed of  
19 smolt and adult production areas, as well a pertinent  
20 water supply and water treatment facilities, and it also  
21 includes a volitional release channel that will release  
22 fish directly into the San Joaquin River.

23 And the principal actions for the project would  
24 include the construction and operation of the  
25 conservation facility as well as reintroduction, which

1 would involve brood stock production within the  
2 conservation facility, the collection of source stock  
3 for reintroduction and potential actions to directly  
4 release Chinook salmon into the San Joaquin River.

5 The State also -- Department Fish and Game --  
6 Fish and Wildlife, I'm sorry, excuse me, still haven't  
7 got that down yet.

8 Department of Fish and Wildlife also  
9 reintroduced Chinook salmon in both the San Joaquin  
10 basin and the Sacramento basins, and so we consider  
11 interactions between the actions that we're pursuing  
12 under the program and those broader resource strategies  
13 that the Department is pursuing.

14 Another important element is the collection of  
15 biological information that will support restoration  
16 actions for the program as well as monitor and success,  
17 and the Department seeks to manage recreational  
18 resources consistent with the Department's mission to  
19 manage natural resources for the use and enjoyment of  
20 the public.

21 And that concludes -- thank you very much for  
22 coming.

23 MR. STEVENSON: All right. Thanks, Gerald.

24 So CEQA is the California Environmental Qualify  
25 Act. It's a law that was passed in the '70s requiring

1 public agencies in California to consider the  
2 environmental impacts of their discretionary action, and  
3 so it's focused on environmental review and public  
4 disclosure.

5 In this case, the Department of Fish and  
6 Wildlife has prepared an Environmental Impact Report.  
7 That's the highest level of environmental documentation  
8 that you can do under CEQA, and the purpose is really  
9 disclose environmental impacts as well as identify  
10 mitigation measures and alternatives that may reduce or  
11 avoid or lessen those impacts.

12 We're in the midst of the process right now.  
13 The notice of preparation was circulated back in  
14 November last year, and that -- that started a 30-day  
15 public scoping period where we had a series of scoping  
16 meetings, one in this very room, where we solicited  
17 information from members of the public and other public  
18 agencies about what we should be looking in this  
19 Environmental Impact Report. What are the key issues?  
20 What are the data sources we should be looking at?

21 From there, we considered all those comments  
22 and other information and prepared a Draft EIR. That  
23 was released in October, and now in the midst of the  
24 56-day public review period.

25 Following the close of that public review

1 period, we will prepare a Final EIR, and I'll talk a  
2 little bit about what's contained in the Final EIR,  
3 probably around March 2014. From there, there's going  
4 to be a public notice process, and the final step in the  
5 CEQA process is the adoption of findings by the  
6 Department on the EIR and filing a Notice of  
7 Determination, which concludes the CEQA process.

8 So that's our general approach in our timeline.

9 In terms of what's in the EIR. There are a  
10 number of different chapters; this summarizes them.  
11 Really the Executive Summary, if you're interested in  
12 learning about the EIR very quickly, that's a good place  
13 to start. Project description has a lot of information  
14 about the proposed actions, and then chapter 3 through  
15 17 are each topical sections, and then there's a couple  
16 of other chapters, other statutory considerations,  
17 alternatives analysis.

18 But the topics range -- are wide ranging based  
19 on what CEQA requires, everything from esthetics and air  
20 quality, very extensive analysis of biological  
21 resources, fisheries. We have gas emissions all the way  
22 through to recreational facilities, et cetera.

23 So some of the key EIR findings, there was a  
24 number of less than significant or impacts -- less than  
25 significant impacts or impacts that were mitigated to a

1 level less than significant.

2 Most of the construction-related effects were  
3 found to be that way, such as, you know, air quality  
4 emissions from construction equipment, dust, noise, the  
5 effects of hatchery operations, collection of brood  
6 stock from the Feather River Fish Hatchery found to be  
7 less than significant. The effects of the  
8 reintroduction of the fish on other salmon population  
9 and other aquatics species. The effects of the Research  
10 and Monitoring Components Program and a number of other  
11 resource topics.

12 There were several possible significant  
13 unavoidable impacts that were found in the environmental  
14 document. I want to talk about those a little bit.

15 The first one relates to wild brood stock  
16 collection, and the Department is proposing as part of  
17 their brood stock development, initially they will be  
18 collecting brood stock from the Feather River Fish  
19 Hatchery, but ultimately they would seek to obtain from  
20 wild brood stock for spring-run Chinook. And as part of  
21 that, they will be required to get a 10A-1A permit from  
22 National Marine Fishery Service.

23 At this time they -- they are -- they begun to  
24 evaluate what would be involved with the spring-run  
25 collection of those native runs, but many of the details

1 have yet to be identified, and some of the specific  
2 requirements that would be in that permit haven't been  
3 finalized.

4 And so we evaluated what the possible  
5 consequences of brood stock collection would be, but  
6 because under CEQA if we did find it is potentially a  
7 significant impact, that there could be damage to these  
8 runs if it was not done properly, CEQA requires in those  
9 cases that you identify very clear and specific  
10 mitigation for how to avoid those things from happening.

11 In this case because this action is dependant  
12 upon future permits that haven't been issued yet, we  
13 couldn't necessarily speculate on exactly what those  
14 requirements would be, so in an abundance of caution, we  
15 concluded those impacts would be significant unavoidable  
16 while at the same time acknowledging it's not the  
17 Department's intent to have significant impacts on those  
18 wild runs, but rather this was a conclusion that we felt  
19 compelled to make because of CEQA'S requirements.

20 So at the time that the Department does seek to  
21 pursue wild brood stock collection, they would obtain a  
22 permit, and they would conduct further CEQA analysis if  
23 necessary to evaluate what the possible impacts would be  
24 and more specific measures would be to avoid those.

25 Another kind of similar CEQA environmental

1       unavoidable impact relates to greenhouse gas emissions.  
2       There's a lot of different components to the projects  
3       that are going to involve. We were pretty clear on  
4       exactly what was going to be involved in constructing  
5       the facility itself, but there are other -- other  
6       construction aspects of the project such as the  
7       development of some of the recreational enhancements,  
8       fishing resources and off-channel ponds and where -- the  
9       designs weren't far enough along, the plans weren't far  
10      enough along that we could conduct a greenhouse gas  
11      inventory.

12               And so while we identified that -- that there  
13      would be mitigation that would likely be feasible to  
14      reduce this impact, we couldn't completely dismiss the  
15      possibility of a greenhouse gas emissions, so we found  
16      out it has a significant unavoidable impact.

17               Finally, the other that we looked at was the  
18      spread of aquatic invasive species. This is a really  
19      big problem. That is really actively being addressed.  
20      There are de-contamination protocols, but we couldn't  
21      entirely rule out the possibility that there would be  
22      some spread, so those are the significant unavoidable  
23      impacts we found in the EIR.

24               CEQA requires that you look at a no project  
25      alternative, which is basically looking at what would be

1 the consequences of not taking this action, and so we  
2 evaluated that.

3 We also looked at several other alternatives  
4 that seek to avoid some of the possible impacts of the  
5 project, and so we looked at a spring-run only  
6 alternative under which there would be only volitional  
7 recolonization of fall-run Chinook salmon, but the  
8 Department only focused on propagating and releasing  
9 spring-run.

10 Right now, the possibility in the project  
11 exists they would do both, so we consider what the  
12 possible impacts of that might be.

13 We looked at possible impacts of only using  
14 hatchery brood stock as opposed to alternating wild  
15 brook stock collection.

16 We also looked into a different sites and  
17 whether or not we can reduce impacts of the project by  
18 moving into a different location.

19 And all of those alternatives we're -- would be  
20 successful in reducing some of the impacts of the  
21 project.

22 We did find that many of those would also have  
23 impacts of their own or may not as fully reach the  
24 project objectives or provide as many environmental  
25 benefits as the proposed project, and so we did

1 determine that the proposed project was environmentally  
2 secure overall compared to the alternatives.

3 That is a really quick summary. I encourage  
4 you to look at the Environmental Impact Report because  
5 there's a lot more detail in it.

6 In terms of our next steps in timeline, the  
7 public review period closes on December 2nd, Monday. We  
8 do ask that you e-mail your comments by 5:00 p.m. on  
9 that day or have them postmarked by that point.

10 We expect the Final EIR to be completed within  
11 three to four months following that, and then from there  
12 the Department will consider whether they want to  
13 certify the EIR, and as I mentioned earlier, file a  
14 determination and adopt CEQA findings.

15 So the Final EIR is going to an addendum  
16 document. What will be contained in that will be a copy  
17 of all the comments that are submitted. We're taking a  
18 transcript tonight, so we will be re-producing the  
19 comments that were provided at the public meetings and  
20 then specific response to each comment that was  
21 received.

22 And if there was a letter that is 20 pages  
23 long, chances are there are numerous comments in there,  
24 and there will be a separate response to each.

25 And then in addition, the Final EIR will

1 contain any changes to the document based on the  
2 comments and responses, and so when you take the Draft  
3 EIR and the Final EIR together, that constitutes the  
4 entire document.

5 Just a couple words on how to comment during  
6 the public review period. This is guidance that is  
7 provided in CEQA.

8 I first want to reiterate what Gerald said,  
9 public input is valued and we want to honor your  
10 comments. We do request the comments be substantive,  
11 really focused on the evaluation that's provided in the  
12 EIR, did we analyze the impacts correctly? Did we  
13 identify the right ones? Did we consider all the  
14 possible mitigation measures or alternatives, and if  
15 there are additional things we should consider, please  
16 suggest them.

17 In addition, CEQA has a substantial evidence  
18 standard in which the analysis needs to be supported by  
19 substantial evidence, so all comments will be more  
20 robust if they have substantial evidence supporting them  
21 as well.

22 We encourage if you have reference data,  
23 information that maybe wasn't included in the EIR that  
24 you have, that's great to provide.

25 So you can give your comments verbally today,

1 and we're going to transition to that part of the  
2 meeting in just a minute, or you can do it on the  
3 comment forms, by e-mail, by letter, and, you know, you  
4 are encouraged if you write a letter and then five days  
5 later you remember there were other things you wanted to  
6 comment on, feel free to provide another one.

7 So this is a little more information on where  
8 to provide those comments.

9 The first website is the Department's website  
10 for this EIR process, and the bottom website is for the  
11 overall San Joaquin River Restoration Program.

12 So with that, we're going to wrap up our  
13 presentation, and move into the public comment portion  
14 of the meeting.

15 Could I have a show of hands who wants to give  
16 public comments today?

17 We've got one. All right.

18 Did you happen to fill out a comment card?

19 MS. REED: I didn't, but -- Rhonda Reed,  
20 R-H-O-N-D-A, R-E-E-D, and I just wanted to say thank you  
21 for extending the comment period. I know it was because  
22 of a glitch, but because we had a furlough, we  
23 appreciate having the extra time.

24 MR. STEVENSON: Great.

25 Any other comments? All right.

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You're making it easy for us today, so with that, we appreciate your coming and attending, we will close the meeting. We'll be here for awhile if you want to keep chatting with us.

Thank you.

MR. HATLER: Thank you for coming.

(Proceedings concluded at 6:41 p.m.)

REPORTER'S CERTIFICATE

I, CATHERINE D. LAPLANTE, a Certified Shorthand Reporter for the State of California, do hereby certify:

That I am a disinterested person herein; that the foregoing was reported in shorthand by me, CATHERINE D. LAPLANTE, a Certified Shorthand Reporter of the State of California, and thereafter transcribed into typewriting; that the foregoing is a true and correct record given.

IN WITNESS WHEREOF, I hereby certify this transcript at my office in the County of Placer, State of California, this 19th day of November, 2013.

  
CATHERINE D. LAPLANTE, CSR #10140



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# Chico Public Meeting Transcript

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CALIFORNIA DEPARTMENT OF  
FISH AND WILDLIFE

SALMON CONSERVATION AND RESEARCH FACILITY  
OPERATIONS, FISH REINTRODUCTION, AND  
RELATED MANAGEMENT ACTIONS  
DRAFT ENVIRONMENTAL IMPACT REPORT

Public Meeting  
Chico, California  
Monday, November 18, 2013  
6:00 p.m.

--o0o--

Reported by: CATHERINE D. LAPLANTE  
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A P P E A R A N C E S

MICHAEL STEVENSON

GERALD HATLER

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AGENDA

Page

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1           MR. STEVENSON: First of all, on behalf of the  
2 Department of Fish and Wildlife, I'd like to welcome you  
3 all to the public meeting on the Draft Environmental  
4 Impact Report for the San Joaquin River Restoration  
5 Program, Salmon Conservation Research Facility and  
6 Related Management Actions Draft Environmental Impact  
7 Report.

8           My name is Michael Stevenson. I work with  
9 Horizon Water Environment. We're a contractor that is  
10 supporting the Department of Fish and Wildlife in  
11 conducting this project and preparing the document.

12           I see some familiar faces out here today, so I  
13 apologize if this is a presentation you've seen already.

14           Also here from the Department is Gerald Hatler.  
15 You've all met him before. He's an environmental  
16 program manager with the Department, and he's leading it  
17 up for them, along with Mike Barry, and then Kevin  
18 Fisher and Patrick Donaldson.

19           We're going to start out with a presentation  
20 about -- probably 20, 30 minutes, and then we will open  
21 it up to receive public comment.

22           So some of the topics we'll talk about, I'm  
23 going to give a little bit of an overview, just the  
24 purpose of our meeting.

25           Gerald is going to talk about the background on

1 the San Joaquin River Restoration Program, to provide an  
2 overview of the proposed project.

3 I will then talk a little bit with the CEQA  
4 process, highlights of the Draft EIR and provide some  
5 guidance on how to comment during the public comment  
6 period, and then we'll turn the meeting over to you all.

7 So the purpose of this meeting is to provide  
8 the public and the agencies with an opportunity to  
9 provide comments regarding the efficiency of the Draft  
10 Environmental Impact Report, or EIR, on analyzing and  
11 identifying possible environmental impacts of the  
12 proposal, as well as ways in which these effects where  
13 they're significant can be either mitigated or avoided.

14 We are encouraging folks who want to provide  
15 comments to provide very specific alternatives or  
16 mitigation measures that we can consider incorporating  
17 into the project that further reviews or mitigates any  
18 of the environmental impacts and provide us with  
19 supporting data, reference material to the extent that  
20 you have that.

21 The public review period is a -- normally 45  
22 days under CEQA. We extended it to 56 days, in which we  
23 had our e-mail system during the first part of the  
24 public review period, so we will be running it until  
25 December 2nd.

1           So with that, I'll turn it over to Gerald.

2           MR. HATLER: Yeah.

3           One thing I'd like to add to the setting for  
4 this meeting is we want to encourage everyone to provide  
5 comments and questions, and I really encourage you to do  
6 that either later this evening or in writing by the  
7 December 2nd deadline.

8           We want to honor comments and questions by  
9 responding to them appropriately so we won't be  
10 responding to questions tonight, but we will respond  
11 after giving them full consideration in the Final EIR.

12           Also, it's important that you focus your  
13 comments and questions on what's described in the  
14 project that gives you greater legal standing and also  
15 makes it easier for us to respond to your questions and  
16 comments.

17           So the activities proposed in the Draft EIR  
18 disclose Department activities which seem to support the  
19 implementation San Joaquin River Settlement Agreement.

20           The Settlement Agreement has two foundational  
21 goals that are treated coequally. One is to restore the  
22 San Joaquin River such that it will support spring and  
23 fall-run Chinook Salmon, as well as other native fish,  
24 and the other is to reduce or avoid water impacts  
25 associated with the implementation of the project.

1           The Department is one of five primary  
2           implementing agencies which includes the State  
3           Departmental Water Resources, the National Marine  
4           Fishery Service, the US Fish and Wildlife Service and  
5           the US Bureau of Reclamation.

6           The Department is not a settling party, but our  
7           role and commitment to support implementation of the  
8           Settlement Agreement is set forth in an MOU between the  
9           State and the settling parties.

10          In the MOU it acknowledges that the State has a  
11          significant interest in restoring the San Joaquin River,  
12          and that we are a public trust for the resources  
13          associated with it.

14          So the project area kind of cuts down low over  
15          here, but it's a 153-mile reach between Friant and  
16          northeast of the city of Fresno down to the confluence  
17          with the Merced River.

18          The potentially affected area includes  
19          tributaries within the Sacramento and the San Joaquin  
20          River watersheds, as well as the Delta and Pacific Ocean  
21          accessible to Salmon.

22          The proposed conservation hatchery site is  
23          approximately 1.1 miles downstream of Friant Dam near  
24          the town of Friant.

25          This is the existing the State trout hatchery,

1 and the area for the proposed conservation hatchery  
2 would occupy an area about half the size of the existing  
3 trout hatchery.

4 So most of the area occupied by this proposed  
5 facility would include smolt and adult production areas,  
6 as well as water treatment and water supply facilities  
7 and includes a volitional release channel that would  
8 release fish directly into the San Joaquin River.

9 The project -- the principal action under the  
10 project would include construction and operation of the  
11 hatchery, fish reproduction, which would involve brood  
12 stock development at the conservation facility,  
13 collection of brook stock and the direct placement of  
14 fish in the San Joaquin River.

15 The Department also manages Chinook Salmon  
16 within the Sacramento and San Joaquin River basins, and  
17 so consideration is given to how the program interacts  
18 with those ongoing broader resource strategies.

19 Another important feature is the collection of  
20 biological information. That information will better  
21 advise restoration actions and also monitor program  
22 success.

23 And then finally the Department seeks to manage  
24 recreational resources consistent with the Department's  
25 mission to manage resources for their use and enjoyment

1 by the public.

2 That's it.

3 MR. STEVENSON: So I'm going to talk a little  
4 bit about CEQA and requirements and talk a little bit  
5 more about the Draft EIR.

6 As I mentioned before, the purpose of CEQA is  
7 to allow for environmental review of the disclosure for  
8 discretionary actions conducted by public agencies.

9 So CEQA was a law that was passed back in the  
10 '70s that requires all public agencies in the State to  
11 consider the effects of their discretionary actions on  
12 the environment and disclose them, and also identify  
13 ways in which those effects may be reduced or mitigated  
14 where they're determined to be significant.

15 Our process on this project started in November  
16 of last year where we circulated the notice of  
17 preparation. That's the first step in the CEQA process.

18 That began a 30-day public scoping period where  
19 we encouraged members of the public to provide us with  
20 comments on what the scope and content of the EIR should  
21 be, what environmental issues we should be looking at,  
22 data sources we should be considering.

23 So we took all that information and utilized it  
24 and then prepared the Draft Environmental Impact Report.  
25 That's the document that's out for public review right

1 now during this public review period.

2 Following the close of the public review  
3 period, we're going to be collecting all those comments,  
4 including the comments that are provided in public  
5 meetings that we've been holding. We held a meeting  
6 down in Fresno and Sacramento prior to this one, and  
7 we'll prepare a Final EIR. Talk a little bit what that  
8 will contain.

9 That is anticipated in the early part of 2014,  
10 and once that is complete, there will be a public notice  
11 process, and the Department will consider whether or not  
12 to certify the EIR, and if they do so, they will adopt  
13 findings on it and file a notice of determination, which  
14 is the final step in the CEQA process.

15 So the structure of the EIR, it's centered  
16 around -- there's a couple introductory tactics. The  
17 executive summary. If you haven't had a chance to look  
18 at the EIR yet, that's a good place to start, and then  
19 the introduction of the project description provides  
20 more detailed information about the project, some of the  
21 background information that Gerald was providing  
22 earlier.

23 The bulk of the document is different chapters  
24 of topical impact analysis, and I'll talk about those  
25 topics in just a second, as well as some other sections

1 in the document, which were required by CEQA, including  
2 alternatives analysis, consideration of what the  
3 possible effects of different approaches might be.

4 So here's the list of topics that were  
5 analyzed. I'm not going to go through the entire list.  
6 You can see these are all different topics that are  
7 suggested by CEQA. There's aesthetics, aesthetics  
8 effects of the project, gas emissions, noise, cumulative  
9 impacts.

10 And in terms of the findings of the EIR, we  
11 found that the majority of the impacts that we looked at  
12 would be either less than significant, a lower  
13 significant threshold or mitigated to a level of less  
14 than significant, and some of those impacts include  
15 construction effects of the hatchery, hatchery  
16 operations, collection of brook stock from the Feather  
17 River Fish Hatchery, which is in the initial source of  
18 brood stock the Department is looking at.

19 The effects of fish reintroduction on Salmon  
20 population, other aquatic species, the effects of  
21 fisheries research and monitoring, and a variety of  
22 other topics. There were several --

23 There were several -- there were several  
24 impacts that we found that potentially would be  
25 significant and unavoidable; meaning, that there were

1 impacts we couldn't find a way to mitigate to a level of  
2 less than significant, and so I wanted to spend just a  
3 minute talking about those.

4 One of those that we found is related to wild  
5 stock, brood stock collection from -- from natural run  
6 of Chinook Salmon. It's the Department's intent that  
7 they will not have adverse effects on these native  
8 species of fish in terms of their brood stock collection  
9 strategy.

10 However, they will need -- before they go and  
11 do that brood stock collection, they will need to obtain  
12 a permit from the National Marine Fishery Service, which  
13 would specify and measures would be implemented to  
14 ensure that those impacts don't happen.

15 That permit hasn't been issued yet, and so it  
16 will be -- at this point to describe what those measures  
17 would be. We have a general sense of what a lot of them  
18 might be. We don't know the specifics, and because we  
19 didn't know those details, under CEQA we couldn't state  
20 that the impacts would necessarily be mitigated to a  
21 level of less than significant as a result of that.

22 So as I mentioned again, the Department is not  
23 intending to do any actions that would have significant  
24 adverse effect on those species, and at such a time the  
25 permits were issued, they would conduct additional CEQA

1 analysis to evaluate possible impacts and conclusions at  
2 that time, but to be conservative at this time, the  
3 Department and CEQA, they found that as significant  
4 unavoidable impact.

5 Another kind of similar aspect to the project  
6 related to greenhouse gas emissions. Many components of  
7 the project are pretty well defined, and we were able to  
8 do an inventory of what the possible emissions might be.  
9 There are other aspects of the project that -- such as  
10 some of the fish barriers that are discussed for -- to  
11 prevent fish from migrating in the false migration  
12 pathways, there's specific locations that haven't been  
13 developed, and so we weren't able to conduct an  
14 efficient inventory.

15 And so we've included mitigation by which the  
16 Department once they have the details will evaluate what  
17 those emissions might be, apply mitigation measures  
18 feasible, but at this point in time, they couldn't  
19 guarantee the impacts would be below the threshold, and  
20 so they found that possible significant unavoidable.

21 Another one, and Gerald spoke a little bit  
22 about some of the recreation enhancements that are  
23 intended to be conducted along the restoration area.

24 One of the concerns associated with that would  
25 be the spread of aquatic invasive species, so there's

1 decontamination protocols that are already in place, but  
2 we did feel -- we couldn't rule out the possibility that  
3 there will be a spread, and so also had that potentially  
4 significant unavoidable.

5 So that's kind of a real brief nutshell of the  
6 key aspects of the Environmental Impact Analysis. Now,  
7 I want to talk a little bit about the alternatives we  
8 considered.

9 And the purposes of these alternatives under  
10 CEQA is to identify alternatives, which may be able to  
11 reduce some of the significant impacts of the project.  
12 One exception to that is the no-project alternative.

13 This is something that CEQA required to be  
14 looked at to determine what would be the consequences of  
15 not taking this action, and so that's something we  
16 looked at.

17 We looked at alternatives where the Department  
18 would focus on only actively propagating or  
19 reintroducing spring-run fish instead of potentially  
20 also looking at incorporating fall-run.

21 We looked at an alternative under which the  
22 Department would only use hatchery brood stock for the  
23 spring-run fish as opposed to all brood stock  
24 collection, and so finally we looked at an alternative  
25 involving different locations for the San Joaquin

1 Conservation Research Facility, Conservation Hatchery to  
2 try to avoid any impacts that would happen at that site.

3 So on the whole, while all these alternatives  
4 would reduce some of the impacts of the project, we did  
5 determine that the project overall, given its  
6 environmental benefits we determined that was the  
7 environmental and superior approach that's with the  
8 Department. Moving forward with that as opposed to one  
9 of these alternatives.

10 So that's just a real brief overview. I  
11 encourage everyone to read the Environmental Impact  
12 Report in detail. I encourage you to provide us with  
13 comments on that during the public review period.

14 As I stated before, the public review period  
15 ends on December 2nd. You can submit your comments by  
16 e-mail, by regular mail, you can send multiple comments  
17 if you want to.

18 As I said before, the Final EIR 2014, and final  
19 steps of certification of the EIR, and finally the -- so  
20 the EIR, Final EIR will contain copies of all comments  
21 received, both transcripts from these public meeting.  
22 Also going to provide specific responses to each of the  
23 comments that were provided.

24 And finally, it's going to contain changes to  
25 the Draft Environment Impact Report based on those

1 comments and the responses that were provided too, so  
2 it's an addendum document which taken with the Draft EIR  
3 is the EIR in its entirety.

4 A couple of notes on effective commenting, and  
5 Gerald also spoke to this a little bit earlier,  
6 obviously public input is best. That's the purpose of  
7 doing this. We do request the comments be focused on  
8 the EIR in evaluating environmental impacts or possible  
9 mitigation measures or alternatives to the proposal.

10 Specific alternatives or mitigation measures  
11 that can better avoid or mitigate the effects are  
12 encouraged, providing those comments, and under CEQA  
13 there's what's called potential evidence standard. All  
14 conclusions shall be concluded with substantial  
15 evidence, so to the extent that we have data, reference  
16 material that can support your comments will strengthen  
17 the gravity of your letter.

18 And you can give your comment today or in  
19 writing on the comment forms that were provided or by  
20 other means that I mentioned, letterhead, send an  
21 e-mail, attachment to the e-mail.

22 Here's the information on where to send those.  
23 You can send them to Gerald at the following address in  
24 Fresno. E-mail to this e-mail address, and this is on  
25 the information that's handed out in the meeting, and do

1 include your contact information so we can keep you  
2 updated on the progress related to this CEQA process, as  
3 well as other aspects of the restoration program.

4 And here are a couple of websites that provide  
5 more information about the project. This is the  
6 Department's website that they have specific to this EIR  
7 process, and this bottom address for the overall San  
8 Joaquin Restoration Program.

9 So with that, we're going to shift gears and  
10 take your public comments, and could I have a show of  
11 hands who want to provide public comment tonight?

12 Anyone? Okay.

13 MR. BROBECK: My comments aren't really  
14 comments on the project, per se, but just general policy  
15 issues that are integrated with Salmon management in the  
16 State.

17 MR. STEVENSON: Okay.

18 MR. BROBECK: I already shared them with two  
19 experts in the room.

20 MR. STEVENSON: Okay. Very good.

21 Are you planning on submitting them in a  
22 written letter as well?

23 MR. BROBECK: I'll consult with my director to  
24 see if we want to pursue that.

25 MR. STEVENSON: Only thing I would say, if some

1 of the things you were talking with Gerald and others  
2 about earlier in the evening, those aren't part of the  
3 public record yet, so if you do want them to be in the  
4 transcript, you may want to just give them again. Up to  
5 you.

6 MR. BROBECK: I will do that and provide some  
7 background information.

8 MR. STEVENSON: Okay. Sounds good.

9 MR. BROBECK: Thank you.

10 MR. STEVENSON: All right. Well, with that  
11 then, we will close the meeting. Appreciate your  
12 attention. Welcome your comments. Have a good night.

13 (Proceedings concluded at 6:49 p.m.)  
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1 REPORTER'S CERTIFICATE

2  
3 I, CATHERINE D. LAPLANTE, a Certified Shorthand  
4 Reporter for the State of California, do hereby certify:

5 That I am a disinterested person herein; that  
6 the foregoing was reported in shorthand by me, CATHERINE  
7 D. LAPLANTE, a Certified Shorthand Reporter of the State  
8 of California, and thereafter transcribed into  
9 typewriting; that the foregoing is a true and correct  
10 record given.

11 IN WITNESS WHEREOF, I hereby certify this  
12 transcript at my office in the County of Placer, State  
13 of California, this 3rd day of December, 2013.

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16 \_\_\_\_\_  
17 CATHERINE D. LAPLANTE, CSR #10140



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## **Appendix C**

# **MEETING MATERIALS**

This appendix contains the materials and handouts associated with the public meetings which were held during the public review period of the DEIR, including the meeting flyer, meeting agenda, sign-in sheets, comment and speaker forms, posters, and PowerPoint presentation.

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# DEIR Public Meeting Flyer

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# **CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE**

## **SALMON CONSERVATION AND RESEARCH FACILITY OPERATIONS, FISH REINTRODUCTION, AND RELATED MANAGEMENT ACTIONS PROJECT**

### ***CEQA Draft EIR Public Review***

Public input is a valued and important component of the California Environmental Quality Act (CEQA) process. Please provide input on the content of the draft environmental impact report.

Per the guidance provided by CEQA, comments should focus on the sufficiency of the document in identifying and analyzing the possible impacts on the environment and ways in which the significant effects might be avoided or mitigated. Comments are most helpful when they suggest additional specific alternatives or mitigation measures that would provide better ways to avoid or mitigate the significant environmental effects. The basis for your comments should be explained, including relevant data or references.

All comments received will be considered during preparation of the Final EIR.

#### **COMMENTS DUE:**

**5:00 pm on Monday, December 2, 2013**

#### **MAIL WRITTEN COMMENTS TO:**

California Department of Fish and Wildlife  
Attn: Gerald Hatler  
SCARF Draft EIR Comments  
1234 E. Shaw Avenue  
Fresno, CA 93710

#### **OR EMAIL COMMENTS TO:**

[REG4SCARFCEQA@wildlife.ca.gov](mailto:REG4SCARFCEQA@wildlife.ca.gov)

Include your name, address, contact number, and email address  
for future correspondence related to this CEQA process

**Visit our website: <http://www.dfg.ca.gov/regions/4/SanJoaquinRiver/>  
Further information about the San Joaquin River Restoration Program can be found at the  
program website: <http://www.restoresjr.net>**



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# DEIR Public Meeting Agenda

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**California Department of Fish and Wildlife**  
**Salmon Conservation and Research Facility &**  
**Related Fisheries Management Actions**  
**Draft Environmental Impact Report**  
*Public Meetings*

**6:00 WELCOME & OPEN HOUSE**

- Opportunity for one-on-one discussion with staff
- Review and discussion of materials at various stations with opportunity for questions and clarifications

**6:25 OPENING REMARKS**

Michael Stevenson, Horizon Water & Environment – Facilitator

- Welcome
- Agenda Review
- Purpose of Meeting
- Meeting Ground Rules

**PROJECT BACKGROUND & OVERVIEW**

Gerald Hatler, Environmental Program Manager, DFW

- Overview of San Joaquin River Restoration Program
- Discussion of the SCARF Project

**CEQA OVERVIEW & HOW TO COMMENT DURING PUBLIC REVIEW PERIOD**

Michael Stevenson

- Background & Overview of CEQA and the EIR Process
- Key findings and conclusions of the Draft EIR
- How to Comment on Draft EIR and Use of Public Meeting Comments
- Summary of Next Steps

**6:45 RECEIPT OF PUBLIC COMMENTS**

- Receive oral comments and questions

**8:00 ADJOURN**

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*FOR MORE INFO, VISIT:*

[HTTP://WWW.DFG.CA.GOV/REGIONS/4/SANJOAQUINRIVER/](http://www.dfg.ca.gov/regions/4/sanjoaquinriver/)

*WRITTEN COMMENTS ACCEPTED UNTIL DECEMBER 2, 2013*

# Meeting Ground Rules

The purpose of this meeting is to solicit input from the public and interested public agencies regarding the analysis of environmental impacts, mitigation measures and project alternatives in the draft Environmental Impact Report (EIR). Additionally, the public meeting provides an opportunity for the Department of Fish and Wildlife to share information regarding the EIR that is being prepared for the SCARF Project. Staff are present to answer relevant questions and to help the public become better informed in order to provide constructive comments on the environmental analysis. Toward that end:

- Please make sure that all cell phones and pagers are on silent.
- Focus your attention on the presentation or response to questions – having side conversations distracts others in the group.
- Do not interrupt the presenter; there will be plenty of time for discussion.
- Try to make your comments clear and succinct. For specific questions that are of personal interest to you, please talk to Department staff before or after the meeting.
- Be respectful of each other and of differing points of view.
- Take personal responsibility for observing these ground rules, and honor our time together by keeping the meeting moving forward positively.
- This is a public meeting, not a formal hearing. Oral comments are being transcribed, and the transcription will be included in the Final EIR. Written comments will also be printed in the Final EIR. Responses to both written and oral comments will be provided in the Final EIR.
- The facilitator may ask individuals who do not abide by these rules to leave the workshop.

# DEIR Public Meeting Sign-in Sheets

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**SCARF and Related Management Actions**  
**Draft EIR Public Meeting Sign In Sheet**  
**November 6<sup>th</sup> – Sacramento, CA**

| Name               | Address   | Email Address<br>(optional)     | Organization<br>(optional) | Phone Number<br>(optional) |
|--------------------|---|---------------------------------|----------------------------|----------------------------|
| Elif Fehm Sullivan | 650 Capitol Mall<br>Suite 5-100<br>Sacramento, CA 95814 | elif.fehm-sullivan@nwf.usgs.gov | NWF S                      | (916)<br>930-3627          |
| Klaida Reed        | ((  | KlaidaReed@nwf.usgs.gov         | NWF S                      | 930-3609                   |
| Andrew Raabe       | 2800 Cottage Way<br>Sacramento, CA 95825                | andrew_raabe@fws.gov            | FWS                        | 916-414-6600               |
| BRIAN MULVEY       | 1325 J Street   | mulveys@sonic.net               | USACE                      | 916 557-7660               |
|                    |   |                                 |                            |                            |
|                    |   |                                 |                            |                            |
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**SCARF and Related Management Actions**  
**Draft EIR Public Meeting Sign In Sheet**  
**November 18<sup>th</sup> - Chico, CA**

| Name               | Address                                   | Email Address<br>(optional) | Organization<br>(optional) | Phone Number<br>(optional) |
|--------------------|---|-----------------------------|----------------------------|----------------------------|
| JR Brobeck         | 1605 Manzanita<br>Chico CA 95926          | jimb@aqualliance.net        | AquAlliance                |                            |
| RHONDA REED        | NMFS, 650 capitola mall<br>Sacramento, CA | Rhonda.Reed@NOAA.gov        | NMFS                       |                            |
| Elif Fehm Sullivan | "   | elif.fehm-sullivan@NOAA.gov | "                          |                            |
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# DEIR Public Meeting Comment and Speaker Forms

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## Posters Displayed at DEIR Public Meetings

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Welcome to the California  
Department of Fish and Wildlife

SALMON CONSERVATION AND  
RESEARCH FACILITY AND  
RELATED MANAGEMENT  
ACTIONS

Draft Environmental Impact Report  
Public Meeting



# SIGN IN / ORIENTATION

- ❖ All Guests Sign In Here
- ❖ Information, Handouts, and Comment Cards for Tonight's Meeting



Settlement agreement reached through federal court action in NRDC et al. v. Kirk Rodgers et al. in 2006

Two major goals of the SJRRP:

- **Restoration Goal** to restore and maintain fish populations in good condition in the Restoration Area, including naturally reproducing and self-sustaining populations of salmon and other fish
- **Water Management Goal** to reduce or avoid water supply impacts to Friant Division contractors that may result from Interim/Restoration flows provided by the Settlement

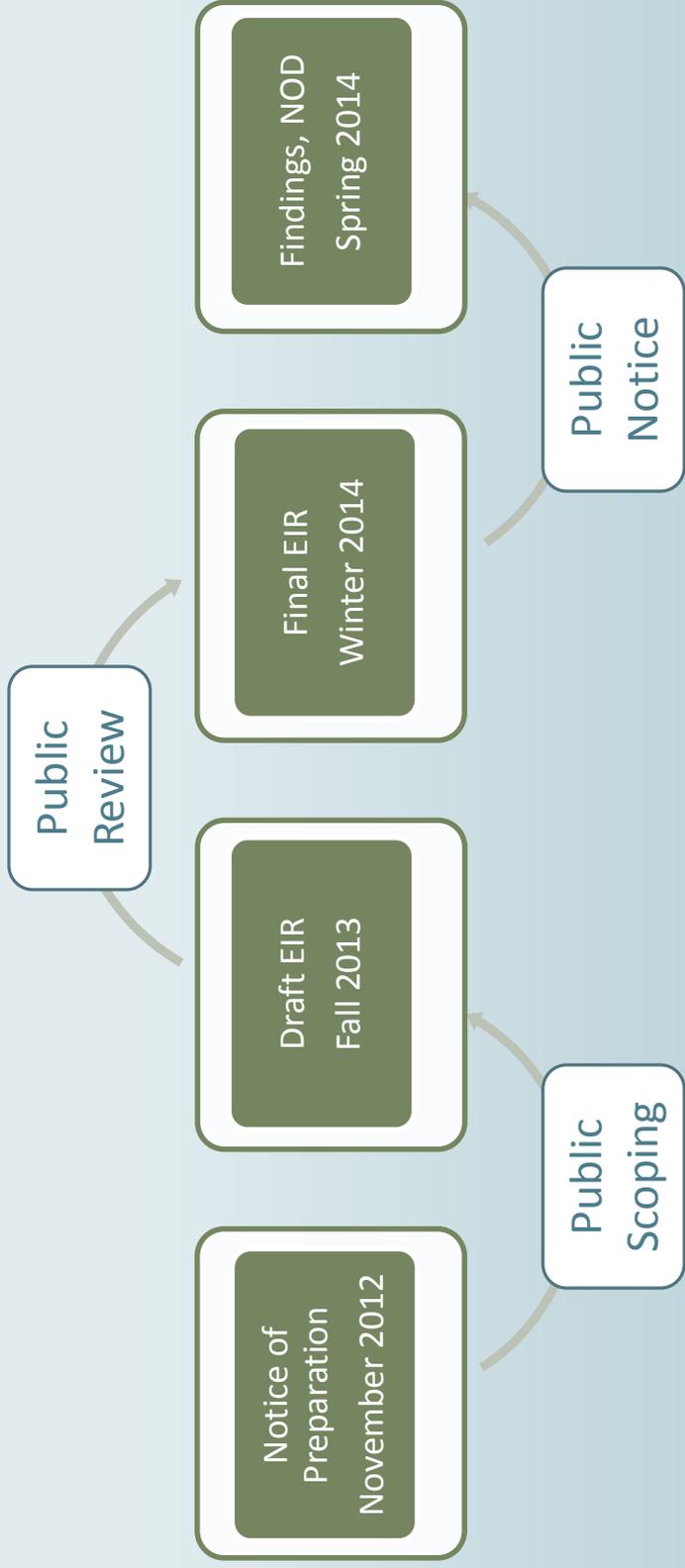
Proposed Project purpose is to support the implementation of the Restoration Goal



## The Proposed Project involves the following principal actions:

1. Construct and operate the Salmon Conservation and Research Facility (SCARF);
2. Reintroduce Chinook salmon to the Restoration Area, including donor-stock selection, broodstock development, and/or direct translocation;
3. Manage Chinook salmon runs in the Restoration Area;
4. Conduct fisheries research and monitoring in the Restoration Area;
5. Manage and support recreation within the Restoration Area

# PROPOSED ACTIONS



# PUBLIC REVIEW PROCESS



Aesthetics  
Air Quality  
Biological Resources  
Cultural Resources  
Geology, Soils, and Seismicity  
Greenhouse Gases  
Hazards and Hazardous Materials  
Hydrology, Geomorphology, and Water Quality  
Land Use and Planning  
Noise  
Recreation  
Transportation and Traffic  
Utilities and Service Systems  
Cumulative Impacts  
Alternatives

**EIR TOPICS**



# PUBLIC MEETING COMMENT SUBMITTAL

- Please provide input regarding the Draft EIR on the comment cards provided.
- Or mail your comment card before the deadline:  
**California Department of Fish and Wildlife**  
**Attn: Gerald Hatler**  
**SCARF Draft EIR Comments**  
**1234 E. Shaw Avenue**  
**Fresno, CA 93710**
- Or Email your comments to: [REG4SCARFCEQA@wildlife.ca.gov](mailto:REG4SCARFCEQA@wildlife.ca.gov)
- Visit the Program Website: [www.restoresjr.net](http://www.restoresjr.net)

**COMMENTS DUE DECEMBER 2<sup>nd</sup>, 2013**

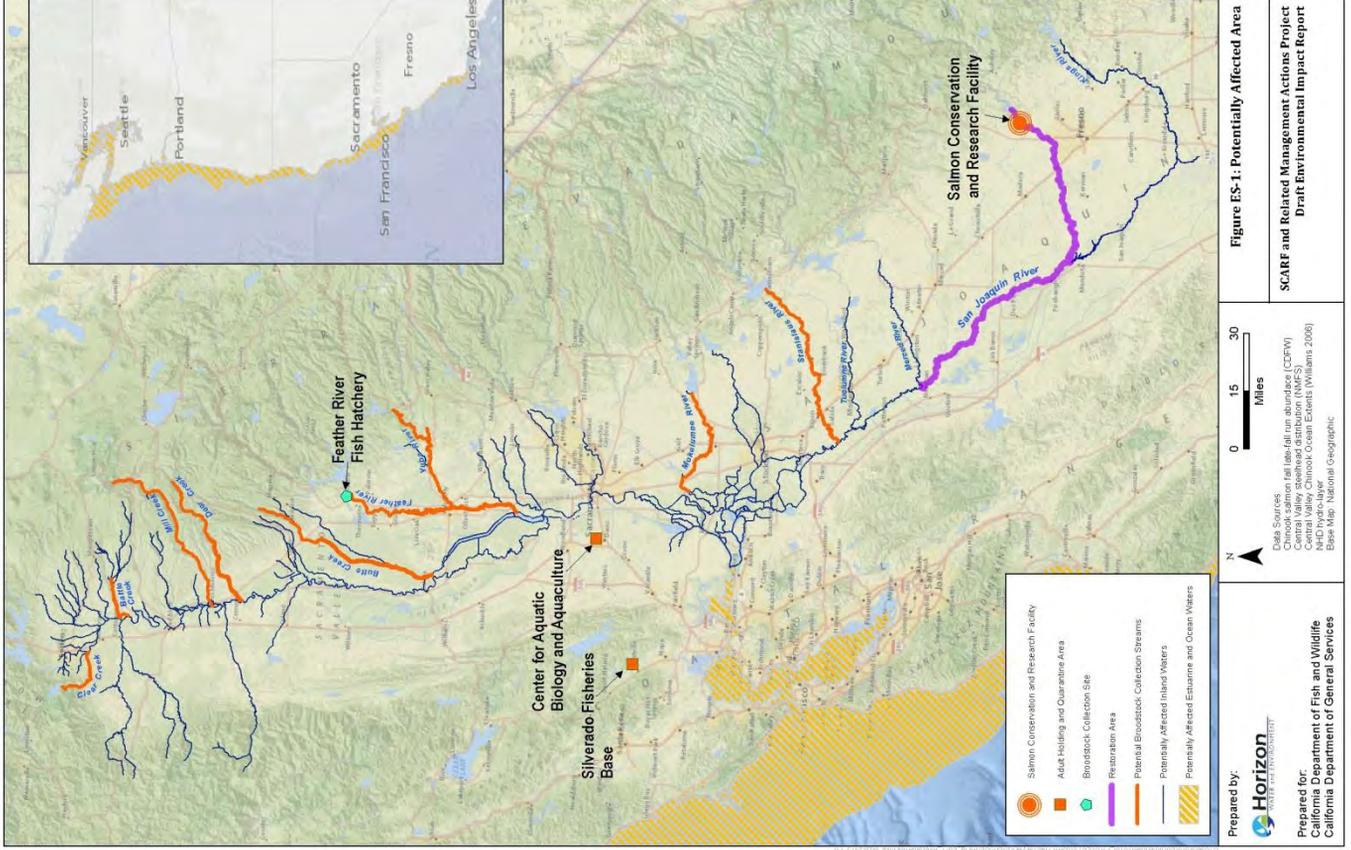


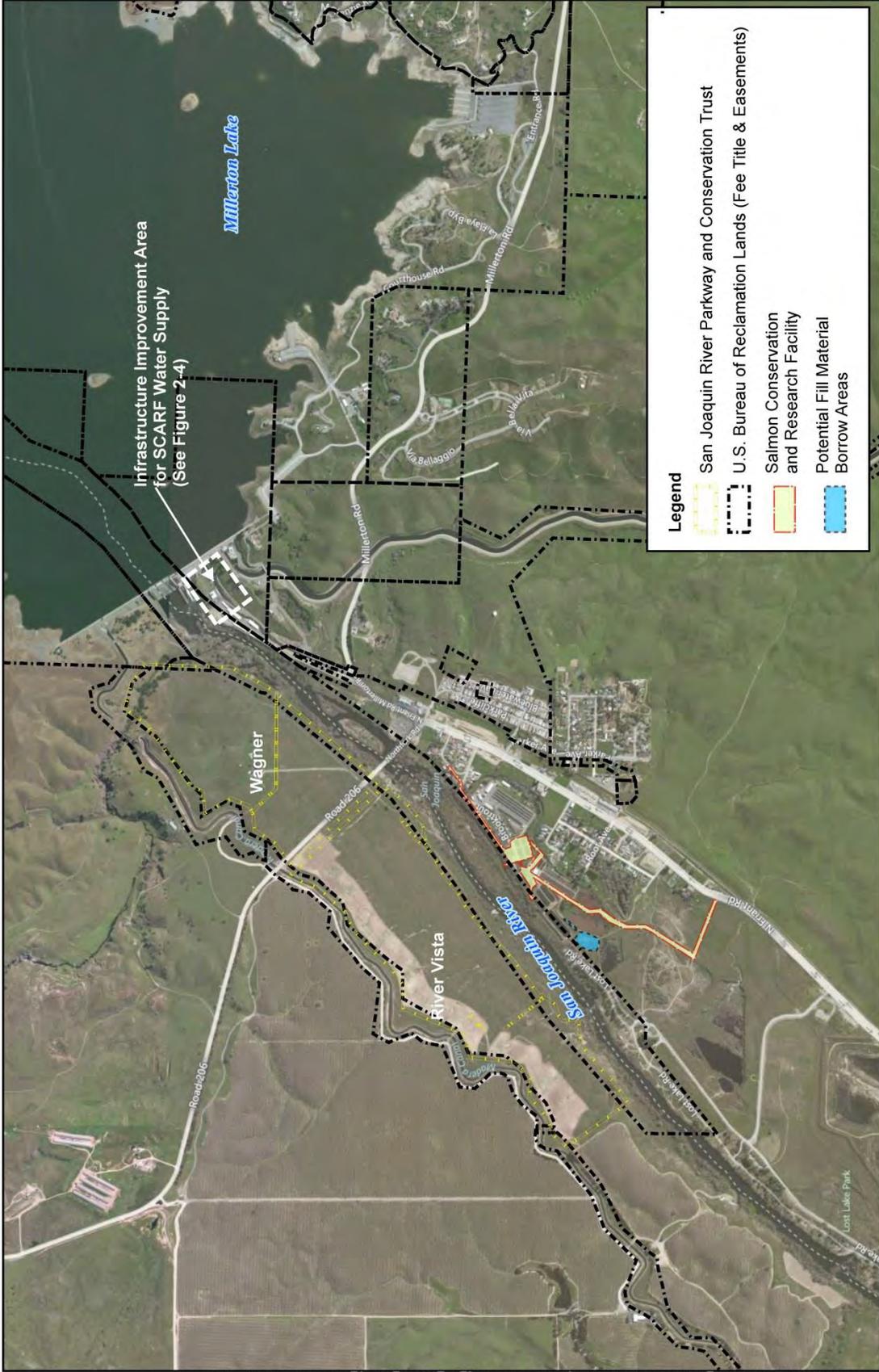
Figure ES-1: Potentially Affected Area

SCARF and Related Management Actions Project  
Draft Environmental Impact Report

Data Sources:  
 Chinook salmon fall late-fall run abundance (CDFW)  
 Central Valley Chinook Ocean Exports (Waters 2006)  
 NHD Hydro-layer  
 Base Map: National Geographic

Prepared by:  
**Horizon**  
 CONSULTING ENGINEERS

Prepared for:  
 California Department of Fish and Wildlife  
 California Department of General Services



**Legend**

- San Joaquin River Parkway and Conservation Trust
- U.S. Bureau of Reclamation Lands (Fee Title & Easements)
- Salmon Conservation and Research Facility
- Potential Fill Material Borrow Areas

**Figure 2-2: Salmon Conservation and Research Facility Vicinity Map**

**SCARF and Related Management Actions Project**  
**Draft Environmental Impact Report**

0 500 1,000 2,000 Feet

North Arrow

Imagery Source: Reclamation; Bing Maps

Prepared by:

**Horizon**  
 WATER and ENVIRONMENT

Prepared for:  
 California Department of Fish and Wildlife  
 California Department of General Services

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# PowerPoint Presentation Delivered at DEIR Public Meetings

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California Department of Fish and Wildlife  
San Joaquin River Restoration Program  
Salmon Conservation and Research Facility (SCARF)  
and Related Management Actions

Draft Environmental Impact Report  
CEQA Public Meeting



# Welcome and Opening Remarks



# Meeting Agenda

1. Meeting Purpose and Ground Rules
2. Background on San Joaquin River Restoration Program
3. Overview of Proposed Project
4. Overview of the CEQA Process
5. Highlights of the Draft EIR
6. How to Comment during Public Review Period
7. Receive Public Comments

# Meeting Purpose

Afford the public and agencies an opportunity to provide comments regarding the sufficiency of the Draft EIR in identifying and analyzing:

- ✓ Possible environmental impacts
- ✓ The ways in which significant effects might be avoided or mitigated

Commenters are encouraged to suggest additional specific alternatives or mitigation measures to provide better ways to avoid or mitigate significant environmental effects. The basis for comments should be supported by relevant data or references.

The public review period allows 56 days to review the Draft EIR and provide comments.

# Meeting Ground Rules

- Please silence all cell phones and pagers.
- One person speaks at a time; please do not interrupt a speaker.
- Make clear and succinct comments in order for us to effectively capture the comment in notes.
- Be respectful of each other and of differing points of view.

# San Joaquin River Restoration Program Background

Settlement agreement reached through federal court action in NRDC et al. v. Kirk Rodgers et al. in 2006

Two major goals of the SJRRP:

**Restoration Goal** - to restore and maintain fish populations in good condition in the Restoration Area, including naturally reproducing and self-sustaining populations of salmon and other fish

**Water Management Goal** - to reduce or avoid water supply impacts to Friant Division contractors that may result from Interim/Restoration flows provided for by the Settlement

# San Joaquin River Restoration Program Background

CDFW intends to assist in achieving the Restoration Goal pursuant to an MOU by constructing and operating the SCARF, including collection of broodstock, fish rearing and reintroduction and other management activities.

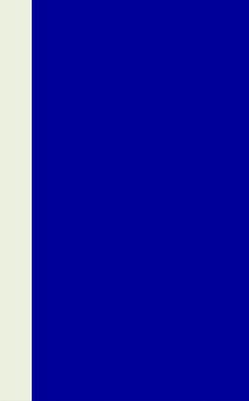
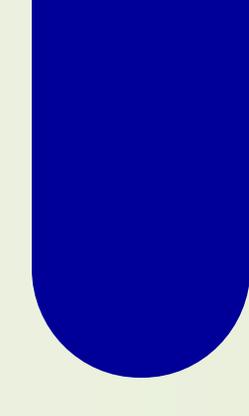
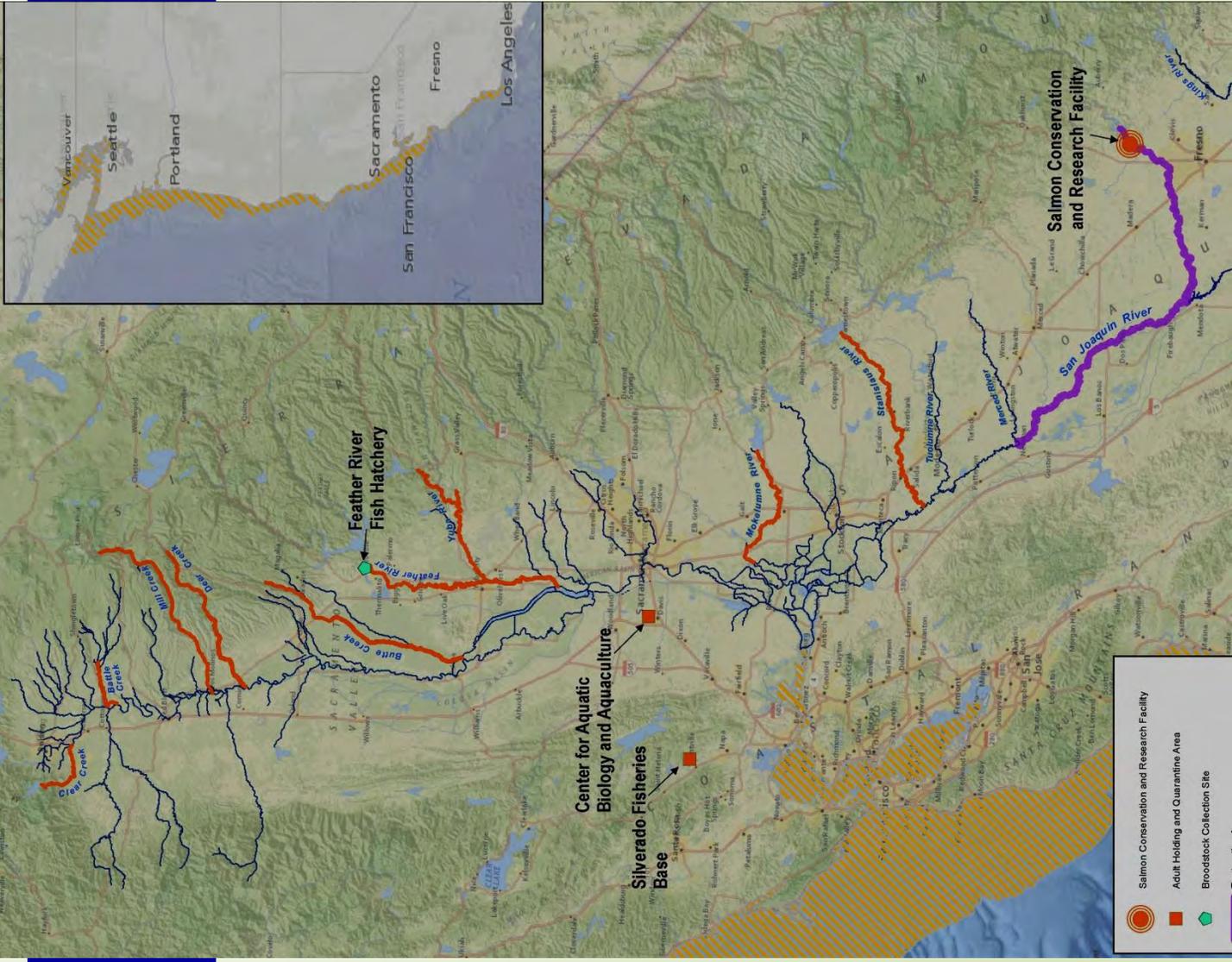
## MOU Signatories

### *State Agencies*

- California Resources Agency
- Department of Water Resources
- California Department of Fish and Wildlife
- California Environmental Protection Agency

### *Settling Parties*

- Department of the Interior
- Department of Commerce
- Natural Resources Defense Council
- Friant Water Users Authority





# Proposed Project Overview



# Proposed Project Actions

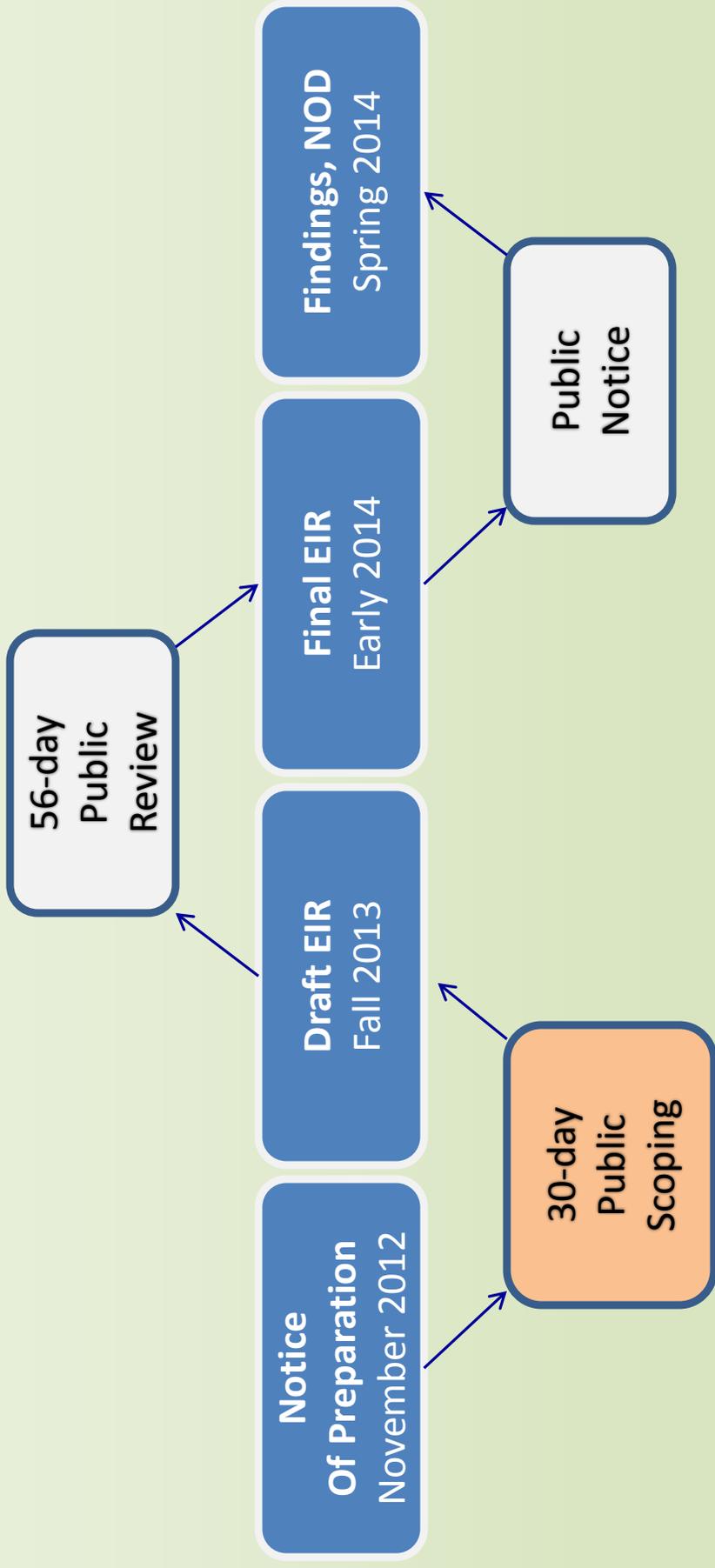
The Proposed Project involves five principal actions:

1. Construct and operate the SCARF;
2. Reintroduce Chinook salmon to the Restoration Area (including donor stock collection, broodstock development, and/or direct translocation);
3. Manage Chinook salmon runs in the Restoration Area within the context of basin-wide conditions and strategies;
4. Conduct fisheries research and monitoring in the Restoration Area; and
5. Manage and support recreation within the Restoration Area.

# CEQA Requirements

- Environmental review and public disclosure for discretionary actions conducted by public agencies
- Disclosure of potential environmental impacts
- Identification of mitigation measures and project alternatives to potentially reduce or avoid these impacts

# CEQA Process and Schedule



# Structure of DEIR

Executive Summary

Chapter 1 - Introduction

Chapter 2 – Project Description

Chapters 3 through 17 – Topical Impact Sections

Chapter 18 – Other Statutory Considerations

Chapter 19 – Alternatives Analysis

Appendices

# Topics Analyzed

Aesthetics

Air Quality

Biological Resources

Cultural Resources

Geology, Soils, and Seismicity

Greenhouse Gases

Hazards and Hazardous Materials

Hydrology, Geomorphology, and Water Quality

Land Use and Planning

Noise

Recreation

Traffic and Transportation

Utilities and Service Systems

Cumulative Impacts

Alternatives

# Draft EIR Findings

## Numerous less than significant or mitigated impacts:

- ✓ Most construction-related effects (except below)
- ✓ Hatchery operations
- ✓ Broodstock collection from FRFH
- ✓ Effects of fish reintroduction on existing salmon populations and other aquatic species
- ✓ Effects of fisheries research and monitoring
- ✓ Air quality, cultural resources, geology, land use, noise, traffic, utilities

## Several possible significant and unavoidable impacts:

- ✓ Wild broodstock collection
- ✓ Construction-related GHG emissions
- ✓ Spread of AIS from recreation enhancements

# Alternatives Considered

- No Project Alternative
- Spring-Run Only Alternative
- Hatchery Broodstock Only Alternative
- SCARF Siting Alternative

While all alternatives would reduce or avoid certain impacts of the Proposed Project, the Proposed Project was determined to be environmentally superior overall.

# Next Steps and Timeline

Public Review of Draft EIR

October 7<sup>th</sup> – December 2<sup>nd</sup>

Final EIR

Early 2014

Certify EIR, file Notice of  
Determination and CEQA  
Findings

At least 10 days after  
completion of Final EIR

# Contents of the Final EIR

- Copies of all comments received, including a transcript of the public meetings
- Specific responses to each comment
- Changes to DEIR based on the comments and responses

# Effective Commenting

- Public input is valued and important
- Comments should be substantive and focused on sufficiency of the Draft EIR in identifying and analyzing:
  - Possible environmental impacts
  - The ways in which significant effects might be avoided or mitigated
- You are encouraged to suggest additional specific alternatives or mitigation measures that could better avoid or mitigate significant environmental effects

# Effective Commenting

- Basis for comments should be supported by relevant data or references (“substantial evidence”)
- Comments may be given orally today (use speaker cards), in writing on provided comment forms, or in writing/email at any time during the public review period

# How to Comment After Today

- Comments due: **5:00 pm on December 2<sup>nd</sup>, 2013**
- Send written comments to:

**California Department of Fish and Wildlife**

**Attn: Gerald Hatler**

**1234 E. Shaw Avenue**

**Fresno, CA 93710**

**Email: [REG4SCARFCEQA@wildlife.ca.gov](mailto:REG4SCARFCEQA@wildlife.ca.gov)**

**Subject Line: SCARF Draft EIR Comments**

- Include name, address, contact number and email address for future correspondence related to this CEQA Process

# For More Information

More information regarding the Proposed  
Project:

[www.dfg.ca.gov/regions/4/sanjoaquinriver](http://www.dfg.ca.gov/regions/4/sanjoaquinriver)

More information regarding the overall SJRRP:  
[www.restoresjr.net](http://www.restoresjr.net)

We will now take your comments

Thank you!



# Proposed Project Actions

## Proposed SCARF location:

- Adjacent to the San Joaquin River
- Approximately 1.1 miles downstream of Friant Dam
- Immediately west of the existing San Joaquin Fish Hatchery

## Facilities are proposed to include:

- Buildings and Residences
- Smolt Production, Captive Rearing, Holding Facility and Release Channel
- Fish Propagation Water Supply & Treatment System
- Other Infrastructure and Ancillary Improvements

# Proposed Project Actions

## Potential Sources of Spring-Run Broodstock

- Feather River Fish Hatchery • Deer/Mill Creek complex
- Feather River • Butte Creek
- Mokelumne, Stanislaus, Battle Creek, Clear Creek, and/or Yuba Creek

## Fish Reintroduction Approaches

- Direct Release • Translocation
- Off-Site Release

# Proposed Project Actions

## Fish Studies

- Assess quantity of available habitat
- Evaluate condition of habitat
- Analyze impediments to fish migration and survival
- Observe responses to conditions in the Restoration Area

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## Appendix D

# MITIGATION MONITORING AND REPORTING PLAN

In compliance with Section 21081.6 of the California Environmental Quality Act, the California Department of Fish and Wildlife (CDFW) has prepared this Mitigation Monitoring and Reporting Plan (MMRP) for the Proposed Salmon Conservation and Research Facility (SCARF). Each mitigation measure and the method of monitoring or verifying the completion of the measure are described in the MMRP. CDFW will be the party responsible for verifying implementation of the mitigation measures identified in this MMRP.

The MMRP has been divided into seven separate tables. The first table summarizes all of the mitigation measures and identifies to which category of activity it applies. For the remaining six tables, each is specific to one of the six categories of activities that would be conducted under the Proposed Project. Each table shows just the mitigation measures applicable to that category of activity. By removing the mitigation measures which are not applicable to a particular activity, these tables are intended to streamline use of the MMRP in monitoring and verifying completion of the relevant mitigation measures for each activity.

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| Mitigation Measure Title  | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party   | Implementation Timing         | Verification Sign-off (initials and date) |
|---|---|--------------------------------------|------------------|---------------------|----------------------|-----------------------------------|-----------------------|--|-------------------------------|---|
|   |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |  |                               |   |
| AES-CONSTRUCT-3a: Materials and Colors Used in Construction of SCARF Facilities Shall be Compatible with the Surrounding Built and Natural Environments | Department of General Services (DGS), CDFW or the construction contractor shall select materials and colors of the facilities to be compatible with the surrounding developed and natural environments.   | X                                    |                  |                     |                      |                                   |                       | DGS (if during design); DGS, CDFW and/or Contractor (if during construction) | During design or construction |   |
| AES-CONSTRUCT-3b: Landscaping of SCARF Facilities Shall Consist of Native Vegetation  | CDFW or the construction contractor shall use native plants for landscaping in a manner consistent with Mitigation Measure BIO-CONSTRUCT-11a (Minimize Area of Disturbance of Riparian Habitat) and with Mitigation Measure BIO-CONSTRUCT-11b (Develop and Implement Revegetation Plan for Riparian Habitat Disturbed by Construction). | X                                    |                  |                     |                      |                                   |                       | DGS (if during design); DGS, CDFW and/or Contractor (if during construction) | During design or construction |   |
| AES-CONSTRUCT-3c: Pipelines and Utilities Serving SCARF Facilities Shall be Installed Underground   | DGS, CDFW or the construction contractor shall install pipelines and utilities underground, to the extent feasible.   | X                                    |                  |                     |                      |                                   |                       | DGS  | During design                 |   |

| Mitigation Measure Title  | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party   | Implementation Timing         | Verification Sign-off (initials and date) |
|---|--|--------------------------------------|------------------|---------------------|----------------------|-----------------------------------|-----------------------|--|-------------------------------|---|
|   |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |  |                               |   |
| AES-CONSTRUCT-4: Exterior Construction Security Lighting Shall Be Hooded and Directed Downward      | CDFW shall ensure that exterior construction security lighting is hooded and directed downward toward the SCARF, and away from adjacent properties.  | X                                    |                  |                     |                      |                                   |                       | DGS (if during design); DGS, CDFW and/or Contractor (if during construction) | During design or construction |   |
| AES-OP-2a: Permanent Exterior Lighting Shall Be Designed to Protect the Darkness of Nighttime Skies | CDFW shall ensure that permanent lighting utilizes lights that are low wattage, or incorporates appropriate shielding, and that lighting is directed away from sensitive uses and adjacent properties. |                                      | X                |                     |                      |                                   |                       | DGS (if during design); DGS, CDFW and/or Contractor (if during construction) | During design or construction |   |
| AES-OP-2b: SCARF Structures Shall Be Constructed to Avoid Surface Glare                             | To reduce glare, CDFW shall ensure that all structures are painted with non-glare surfacing or constructed of materials that do not produce glare.   |                                      | X                |                     |                      |                                   |                       | DGS (if during design); DGS, CDFW and/or Contractor (if during construction) | During design or construction |   |

| Mitigation Measure Title  | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing  | Verification Sign-off (initials and date) |
|---|---|--------------------------------------|------------------|---------------------|----------------------|-----------------------------------|-----------------------|--------------------|--|---|
|   |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |  |   |
| AQ-OP-3: Fish Disposal Limitations  | <p>CDFW will implement at least one of the following measures to minimize the likelihood of potential odors from fish disposal activities affecting a substantial number of sensitive receptors:</p> <ul style="list-style-type: none"> <li>Limit fish disposal locations to areas that are at least 1,000 feet from any potential sensitive receptors, including terrestrial recreationists such as hikers.</li> <li>Implement disposal methods that ensure that fish carcasses are weighed down and disposed of within a stream channel instead of on a stream bank.</li> </ul> |                                      | X                |                     |                      |                                   |                       | CDFW               | During operation   |   |
| AQ-MANAGEMENT-1: Prepare Project-Level Quantitative Analysis of Construction Related Air Quality Emissions, and Implement | As future individual project components are further defined to a level that construction emissions can be estimated, and prior to implementing that component   |                                      |                  |                     | X                    |                                   | X                     | CDFW               | Prior to implementing a project component or taking actions that commit CDFW |   |

| Mitigation Measure Title  | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing          | Verification Sign-off (initials and date) |
|---------------------------|---|--------------------------------------|------------------|---------------------|----------------------|-----------------------------------|-----------------------|--------------------|--------------------------------|---|
|                           |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                                |   |
| Measures to Cap Emissions | <p>or taking actions that commit CDFW to implementing that component, CDFW will prepare a complete, quantitative project-level air quality analysis for that component.</p> <p>The quantitative construction air quality analyses will be based on the types, locations, numbers, and operations of equipment to be used; the amount and distance of material to be transported; and worker trips required. In addition, the analysis will be based on the projected quantity and frequency of vehicle and/or truck trips, and other activities that generate emissions. The analysis will determine whether the combined emissions of the quantified components' construction activities exceed the SJVAPCD's construction air quality thresholds (see the SJVAPCD thresholds presented in Table 5-5 of the DEIR). In addition, the analysis will evaluate whether the</p> |                                      |                  |                     | X                    |                                   | X                     |                    | to implementing that component |   |

| Mitigation Measure Title | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
|--------------------------|---|--------------------------------------|------------------|---------------------|----------------------|-----------------------------------|-----------------------|--------------------|-----------------------|---|
|                          |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
|                          | <p>combined emissions from all project components constitute a significant health risk from diesel fueled equipment.</p> <p>If the analysis determines that construction emissions exceed the air quality significance thresholds, then CDFW will identify and implement appropriate mitigation. As a performance standard, the mitigation shall be sufficient to reduce construction emissions so that the Proposed Project's emissions are below the applicable significance thresholds. Examples of appropriate mitigation may include, but not be limited to, SJVAPCD Regulation VIII, alternative fueled equipment, phasing of material hauling trips, use of chemical additives or after-market devices to reduce emissions on existing equipment, use of electrically powered equipment, reduction in total equipment hours, use of newer equipment models, adopting a vehicle idling policy</p> |                                      |                  |                     | X                    |                                   | X                     |                    |                       |   |

| Mitigation Measure Title | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
|--------------------------|---|--------------------------------------|------------------|---------------------|----------------------|-----------------------------------|-----------------------|--------------------|-----------------------|---|
|                          |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
|                          | <p>requiring all vehicles to adhere to a 5 minute idling policy, and sourcing of material from local sources. Actual emissions efficiency for off-road equipment and motor vehicles will be at least as efficient as the most recent CARB fleet average for off-road equipment and motor vehicles for the current calendar year.</p> <p>In the event that the mitigation strategies (either those listed above or others developed to achieve the performance standard) are calculated to be insufficient to reduce construction emissions levels below significance thresholds, then CDFW will enter into a Voluntary Emission Reduction Agreement (VERA) with SJVAPCD. A VERA is a contractual agreement in which the project proponent agrees to mitigate project specific emissions by providing funds for the SJVAPCD's Emission Reduction Incentive Program (ERIP). The funds are</p> |                                      |                  |                     | X                    |                                   | X                     |                    |                       |   |

| Mitigation Measure Title | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
|--------------------------|---|--------------------------------------|------------------|---------------------|----------------------|-----------------------------------|-----------------------|--------------------|-----------------------|---|
|                          |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
|                          | <p>disbursed by ERIP in the form of grants for projects that achieve emission reductions. Types of emission reduction projects that have been funded in the past include electrification of stationary internal combustion engines (e.g., agricultural irrigation pumps), replacing old heavy-duty trucks with new, cleaner, more efficient heavy-duty trucks, and replacement of old farm tractors. The VERA will be used to offset the project's increase in emissions so that the Proposed Project would have no increase in construction emissions above the significance threshold.</p> <p>Similarly, if the air quality analysis indicates that the activities pose a significant health risk, then CDFW will identify mitigation measures, which, as a performance standard, will ensure health risks are at a less-than-significant level. Examples of appropriate mitigation may</p> |                                      |                  |                     | X                    |                                   | X                     |                    |                       |   |

| Mitigation Measure Title | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
|--------------------------|--|--------------------------------------|------------------|---------------------|----------------------|-----------------------------------|-----------------------|--------------------|-----------------------|---|
|                          |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
|                          | include, but not be limited to, use of alternative fueled equipment, use of aftermarket control devices such as diesel particulate filters, use of electrical equipment where possible, or reduction in number of hours of equipment use with a minimum reduction in diesel particulate matter of 85% compared to a Tier 2 engine or equivalent to 100 trucks per day based on CARB's Air Quality and Land Use Handbook. |                                      |                  |                     | X                    |                                   | X                     |                    |                       |   |

| Mitigation Measure Title   | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party     | Implementation Timing | Verification Sign-off (initials and date) |
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|  |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                        |                       |   |
| FISH-CONSTRUCT-4a: Relocate Special-Status Fish Species Outside of the Work Area | Prior to commencing instream construction, a barrier will be constructed around the affected area and qualified fisheries biologists shall survey the enclosure by making a minimum of three passes by electrofishing, using protocols developed by NMFS (2000). All fish captured, including special-status species, will be placed into a suitable holding container of cool, aerated stream water and then relocated to a suitable location near the construction area. Construction in the side channel will occur when it is dry or has low flow to the extent feasible; water in the work area will be diverted using coffer dams or similar structures. | X                                    |                  |                     |                      |                                   |                       | CFDW and/or Contractor | During construction   |   |

| Mitigation Measure Title                               | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party     | Implementation Timing | Verification Sign-off (initials and date) |
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|  |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                        |                       |   |
| FISH-CONSTRUCT-4b: Monitor and Maintain Fish Enclosure | The fish exclusion structure will remain in place during all instream construction activities and will be monitored daily during instream construction to ensure that it is effectively excluding fish. If the fisheries biologist determines that the enclosure has been compromised, instream construction will be stopped until the biologist has repeated <b>Mitigation Measure FISH-CONSTRUCT-4a</b> and the enclosure has been repaired and is deemed effective. | X                                    |                  |                     |                      |                                   |                       | CDFW and/or Contractor | During construction   |   |

| Mitigation Measure Title                                 | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing                                     | Verification Sign-off (initials and date) |
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|  |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |   |   |
| FISH-REINTRO-1:<br>Determine Stream-specific Take Totals | CDFW will confer with USFWS and NMFS to determine stream-specific take totals that incorporate estimates of viable population size, life stage-specific survival, and the maintenance of genetic diversity of the donor stock populations. These take totals will be incorporated as specific permit conditions in a ESA section 10(a)(1)(A) permit, which must be issued prior to broodstock collection. At a minimum, the selected threshold(s) shall ensure that the adverse effects of broodstock collection will not be substantial in the context of the overall population of each spring-run donor stock. |                                      |                  | X                   |                      |                                   |                       | CDFW               | Prior to conducting wild spring-run broodstock collection |   |

| Mitigation Measure Title   | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party     | Implementation Timing          | Verification Sign-off (initials and date) |
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|  |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                        |                                |   |
| FISH-MANAGEMENT-1: Implement Conservation Measures prior to and during Construction Activities | CDFW shall implement appropriate Conservation Measures from Appendix I, CDFW's Conservation Measures for Biological Resources that May Be Affected by Program-level Actions, prior to and during the construction of fish segregation weirs and barriers. Pre-construction planning shall include a site assessment by a qualified fisheries biologist to determine the potential for special-status species to occur in the vicinity. If the biologist determines that special-status aquatic species may be present, CDFW shall implement the applicable Appendix I avoidance and minimization measures for each species that may be present. |                                      |                  |                     | X                    |                                   |                       | CDFW and/or Contractor | Before and during construction |   |

| Mitigation Measure Title  | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|   |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
| FISH-MANAGEMENT-5a: Monitor Fish Communities in the Vicinity of Segregation Weirs and Traps | If actions described in Impact FISH-MANAGEMENT-5 are used in the Restoration Area, CDFW shall assess the species composition of fish communities within the 500-foot reach both upstream and downstream of each segregation weir or trap, during the time of year that the weir(s) or trap is in place. The monitoring activities shall focus on large bodied special-status fish species such as green sturgeon and steelhead. Monitoring techniques may include the use of visual surveys, rod and reel angling, set lines, fyke nets, DIDSON™, or seines. |                                      |                  |                     | X                    |                                   |                       | CDFW               | During operation      |   |

| Mitigation Measure Title   | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party     | Implementation Timing | Verification Sign-off (initials and date) |
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|  |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                        |                       |   |
| FISH-MANAGEMENT-5b: Develop and Implement Measures that Allow Special-Status Large Bodied Fishes to Bypass Weirs and Traps | If as a result of <b>Mitigation Measure FISH-MANAGEMENT-5a</b> or through other means, CDFW identifies that, outside of the current seasonal operation of the HFB (September to mid-December), the migration of special-status large bodied fishes could be impeded by the operation of the weir(s) or trap and haul activities, then CDFW shall modify the operation of the weir or implement measures that allow fish to bypass the weir so that movement of large bodied special-status fish species such as green sturgeon and steelhead is not impeded. Such measures may include removal or relocation of the weir(s), or operating a trap(s) to allow for manual selection of fish passing across the barrier. |                                      |                  |                     | X                    |                                   |                       | CDFW and/or Contractor | During operation      |   |
| FISH-MANAGEMENT-8a: Check Traps Daily and Minimize Handling of Fish  | To reduce stress on captured fish, all trapping devices will be checked at least once per day. Untargeted wildlife (e.g., snakes, turtles) caught in traps will be released into suitable habitat for the species. Traps  |                                      |                  |                     | X                    |                                   |                       | CDFW                   | During operation      |   |

| Mitigation Measure Title | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|                          |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
|                          | will be checked more frequently during times when conditions are stressful (e.g., high temperatures, large amounts of debris during high flow events) to reduce the time that fish are subject to trap-related stress. Fish will be carefully handled and given sufficient time to recover (at least 30 minutes) prior to being released back into the river. If rotary screw traps are used, they will be operated in accordance with the USFWS "Draft Rotary Screw Trap Protocol for Estimating Production of Juvenile Chinook Salmon" (USFWS 2008) and/or similar protocols which are at least as protective and developed after conferring with USFWS and, if required, NMFS. |                                      |                  |                     | X                    |                                   |                       |                    |                       |   |

| Mitigation Measure Title  | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|   |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
| FISH-MANAGEMENT-8b: Adaptively Manage Trap Operations                                   | If mortalities greater than 2 fish or 2% of total catch are observed in a given day due to high debris loads, traps will be removed or raised out of the water until conditions are suitable for survival of fish (i.e., reduced winds or streamflow, improved weather conditions). For rotary screw traps, if predation causes such mortality, a structural refuge will be installed inside the trap to reduce predation. This will consist of a perforated plastic box or similar refuge for small fish within the rotary screw trap to prevent predation by larger fish captured in the trap. |                                      |                  |                     | X                    |                                   |                       | CDFW               | During operation      |   |
| FISH-MONITORING-2a: Implement Standard Protocols for Active Sampling of Aquatic Species | When conducting active sampling, CDFW shall adhere to fish handling procedures prescribed in Guidelines for the Use of Fishes in Research (Nickum <i>et al.</i> 2004), or any more current protocols which are considered at least as protective.  |                                      |                  |                     |                      | X                                 |                       | CDFW               | During operation      |   |
| FISH-MONITORING-2b: Use Passive Sampling  | To reduce impacts associated with active instream  |                                      |                  |                     |                      | X                                 |                       | CDFW               | During operation      |   |

| Mitigation Measure Title  | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|   |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
| Techniques in place of Active Sampling Techniques, When Appropriate   | monitoring activity such as electrofishing, seining, and use of jet or propeller motor boats by investigators, the use of passive capture equipment will be used in place of active sampling whenever appropriate and feasible. Passive sampling equipment includes entanglement gear such as gill nets and trammel nets, and entrapment gear such as Fyke nets and rotary screw traps. |                                      |                  |                     |                      | X                                 |                       |                    |                       |   |
| FISH-MONITORING-2c: Use Observational Techniques in place of Traditional Capture Techniques, When Appropriate | Wherever possible and appropriate, observational techniques will be used in place of capture techniques to reduce the need to handle organisms.   |                                      |                  |                     |                      | X                                 | CDFW                  | During operation   |                       |   |
| FISH-MONITORING-2d: Check Rotary Screw Traps Daily  | Rotary screw traps will be operated in accordance with the USFWS "Draft Rotary Screw Trap Protocol for Estimating Production of Juvenile Chinook Salmon" (USFWS 2008) and/or similar protocols which are at least as protective and developed after conferring with USFWS and, if required,   |                                      |                  |                     |                      | X                                 | CDFW                  | During operation   |                       |   |

| Mitigation Measure Title                              | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|   |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
|   | NMFS. USFWS (2008) includes several measures, as follows. To reduce stress on captured fish, all trapping devices will be checked at least once per day when in the fishing position. Untargeted wildlife (e.g., snakes, turtles) caught in traps will be released into suitable habitat for the species. Traps will be checked more frequently during times when conditions are stressful (e.g., high temperatures, large amounts of debris during high flow events) to reduce the time that fish are subject to trap-related stress. Fish may need to be anesthetized, which would be done using methods acceptable to USFWS and NMFS before they are handled and given sufficient time to recover (at least 30 minutes) prior to being released back into the river. |                                      |                  |                     |                      | X                                 |                       |                    |                       |   |
| FISH-MONITORING-2e: Adaptively Manage Trap Operations | If mortalities greater than two fish or 2% of total catch are observed in a given day due to high debris loads, traps will be raised out of the water until   |                                      |                  |                     |                      | X                                 | CDFW                  | During operation   |                       |   |

| Mitigation Measure Title | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|                          |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
|                          | conditions are suitable for survival of fish (i.e., reduced winds or streamflow, improved weather conditions). If predation causes such mortality, a structural refuge will be installed inside the trap to reduce predation. This will consist of a perforated plastic box or similar refuge for small fish within the rotary screw trap to prevent predation by larger fish captured in the trap. |                                      |                  |                     |                      | X                                 |                       |                    |                       |   |

| Mitigation Measure Title   | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party     | Implementation Timing          | Verification Sign-off (initials and date) |
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|  |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                        |                                |   |
| FISH-RECREATION-1: Implement Conservation Measures prior to and during Construction of Recreational Enhancements | CDFW shall implement appropriate conservation measures from Appendix I, CDFW's Conservation Measures for Biological Resources that May Be Affected by Program-level Actions, prior to and during the construction of recreational fishing enhancements. Pre-construction planning shall include a site assessment by a qualified fisheries wildlife biologist to determine the potential for special-status species to occur in the vicinity. If the biologists determine that special-status species may be present, CDFW shall implement the applicable Appendix I avoidance and minimization measures for each species that may be present. |                                      |                  |                     |                      |                                   | X                     | CDFW and/or Contractor | Before and during construction |   |
| BIO-CONSTRUCT-1a: Perform Focused Surveys for Special-Status Plant Species                                       | Within one year prior to commencement of ground disturbing activities, a qualified CDFW botanist will perform surveys for special-status plant species with the potential to occur at the SCARF site.  | X                                    |                  |                     |                      |                                   |                       | CDFW                   | Before construction            |   |

| Mitigation Measure Title  | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party     | Implementation Timing | Verification Sign-off (initials and date) |
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|   |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                        |                       |   |
|   | Floristic surveys will be performed according to the Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities (CDFG 2009 or current version). Floristic surveys will include the use of a reference population to increase the likelihood of detection, and will be performed during the appropriate bloom period(s) for each species. If special-status plants are detected within the construction zone or within a 100-foot radius of the construction zone, CDFW will implement <b>Mitigation Measure BIO-CONSTRUCT-1b</b> . | X                                    |                  |                     |                      |                                   |                       |                        |                       |   |
| BIO-CONSTRUCT-1b: Avoid or Minimize Impacts to Special-Status Plant Species | If special-status plants are detected within the construction zone or within a 100-foot radius of the construction zone, CDFW will adjust the construction footprint or establish exclusion fencing to avoid impacts to the plants. Locations of special-status plant populations will be   | X                                    |                  |                     |                      |                                   |                       | CDFW and/or Contractor | During construction   |   |

| Mitigation Measure Title | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|                          |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
|                          | <p>clearly identified in the field by staking, flagging, or fencing a minimum 100-foot wide buffer around them prior to the commencement of activities that may cause disturbance. No activity will occur within the buffer area.</p> <p>If avoidance is not feasible, then CDFW will implement measures to minimize the impact to the species. Minimization measures may include transplanting perennial species, seed collection and dispersal for annual species, and other conservation strategies that will protect the viability of the local population. If minimization measures are implemented, monitoring of plant populations will be conducted annually for 5 years to assess the mitigation's effectiveness. The performance standard for the mitigation will be no net reduction in the size or viability of the local population.</p> | X                                    |                  |                     |                      |                                   |                       |                    |                       |   |

| Mitigation Measure Title  | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|   |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
| BIO-CONSTRUCT-2a:<br>Perform 2 Years of Surveys for Special Status Vernal Pool Branchiopods | Prior to implementation of construction activities, CDFW biologists will perform surveys for special-status vernal pool branchiopods species in seasonally ponded depression with the potential to be impacted by construction of the SCARF. Surveys will be performed according to the Interim Survey Guidelines to Permittees for Recovery Permits under Section 10(a)(1)(A) of the Endangered Species Act for the Listed Vernal Pool Branchiopods (USFWS 1996 or current version). | X                                    |                  |                     |                      |                                   |                       | CDFW               | Before construction   |   |

| Mitigation Measure Title  | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing          | Verification Sign-off (initials and date) |
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|   |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                                |   |
| BIO-CONSTRUCT-2b:<br>Avoid Impacts to Suitable Vernal Pool Branchiopods Habitat | <p>The Proposed Project will be designed to avoid impacts to suitable vernal pool branchiopods' habitat. Such avoidance measures may include adjusting roadway and pipeline alignments, minimizing the footprint of borrow sites, and locating staging/stockpile areas outside of suitable habitat.</p> <p>If vernal pools are present, a 250-foot no disturbance buffer will be established from the high water mark of the vernal pools and seasonal wetlands that provide suitable habitat for vernal pool crustaceans. Wetland habitat will be delineated by staking, flagging or fencing. This buffer will be established prior to ground-disturbing activities, and it will remain until ground-disturbing activities in that area are completed.</p> | X                                    |                  |                     |                      |                                   |                       | DGS and Contractor | During design and construction |   |

| Mitigation Measure Title                                  | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing  | Verification Sign-off (initials and date) |
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|   |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |  |   |
| BIO-CONSTRUCT-2c: Replace Vernal Pool Branchiopod Habitat | <p>If occupied vernal pool branchiopods habitat cannot be avoided, CDFW will first identify if there are potential wetland mitigation opportunities on-site and will preferentially conserve, restore, or construct new wetland habitat at this location. If habitat cannot be restored on-site or in the immediate vicinity of the disturbance location, replacement at a nearby off-site location will be provided. The replacement of habitat will be equivalent to the nature of the habitat lost, and will be provided at a suitable ratio to ensure that, at a minimum, there is no net loss of habitat acreage or value. The replacement habitat will be set aside in perpetuity for habitat use. Mitigation ratios to achieve the “no net loss” standard will be determined in consultation with the USFWS.</p> <p>If off-site compensation includes dedication of conservation easements,</p> | X                                    |                  |                     |                      |                                   |                       | CDFW               | Prior to any construction with potential to adversely affect vernal pool branchiopad habitat |   |

| Mitigation Measure Title | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|                          |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
|                          | purchase of mitigation credits or other off-site conservation measures, the details of these measures will be developed through consultation with USFWS. The plan will include information on responsible parties for long-term management, holders of conservation easements, long-term management requirements, and other details, as appropriate, for the preservation of long-term viable populations. Any impacts that result in a compensation purchase will be required to do so with an endowment for land management in perpetuity prior to any project groundbreaking activities. | X                                    |                  |                     |                      |                                   |                       |                    |                       |   |

| Mitigation Measure Title   | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|  |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
| BIO-CONSTRUCT-3a: Conduct Protocol-Level Surveys for California Tiger Salamander | CDFW will conduct a minimum of 2 years of surveys to determine the presence/absence of CTS at the SCARF site. Surveys will be conducted in accordance with the Interim Guidance on Site Assessment and Field Surveys for Determining Presence or a Negative Finding of the California Tiger Salamander (USFWS 2003). In consultation with the USFWS, CDFW may modify survey protocols to reflect site conditions and potential utilization of habitat by CTS. If protocol surveys result in negative findings of CTS for 2 consecutive years, then <b>Mitigation Measure BIO-CONSTRUCT-3c</b> would not be implemented. | X                                    |                  |                     |                      |                                   |                       | CDFW               | Before construction   |   |

| Mitigation Measure Title  | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party     | Implementation Timing          | Verification Sign-off (initials and date) |
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|   |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                        |                                |   |
| BIO-CONSTRUCT-3b:<br>Avoid Impacts to Suitable Upland California Tiger Salamander.        | To the extent feasible, the Proposed Project will be designed to avoid impacts to suitable upland CTS habitat. Such avoidance measures may include adjusting roadway and pipeline alignments, minimizing the footprint of borrow sites, and locating staging/stockpile areas outside of suitable upland habitat.   | X                                    |                  |                     |                      |                                   |                       | DGS                    | During design                  |   |
| BIO-CONSTRUCT-3c:<br>Minimize Construction-related Impacts to California Tiger Salamander | <p>If CTS are detected during protocol surveys conducted under <b>Mitigation Measure BIO-CONSTRUCT-3a</b>, or in the absence of conducting 2 years of protocol-level surveys, CDFW will implement the following actions during construction to minimize potential impacts to CTS.</p> <ul style="list-style-type: none"> <li>Prior to commencing ground disturbing activities, construction workers will be educated regarding CTS and the measures intended to protect this species.</li> </ul> | X                                    |                  |                     |                      |                                   |                       | CDFW and/or Contractor | Before and during construction |   |

| Mitigation Measure Title | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|                          |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
|                          | <ul style="list-style-type: none"> <li>When feasible, there will be a 50-foot no-disturbance buffer around burrows that provide suitable upland habitat for CTS. Burrows considered suitable for CTS will be identified by a qualified CDFW biologist. The biologist will delineate and mark the no-disturbance buffer.</li> <li>All suitable burrows directly impacted by construction will be hand excavated under the supervision of a qualified wildlife biologist. If CTS are found, the biologist will relocate the organism to the nearest burrow that is outside of the construction impact area.</li> <li>All ground-disturbing work will occur during daylight hours. In coordination with USFWS, and depending on the level of rainfall and site conditions. CDFW will monitor the National Weather Service 72-hour</li> </ul> | X                                    |                  |                     |                      |                                   |                       |                    |                       |   |

| Mitigation Measure Title | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|                          |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
|                          | forecast for the work area. If a 70% or greater chance of rainfall is predicted within 72 hours of project activity, all activities in areas within 1.3 miles of potential or known CTS breeding sites will cease until no further rain is forecast. If work must continue when rain is forecast, a qualified biologist will survey the project site before construction begins each day rain is forecast. If rain exceeds 0.25 inch during a 24 hour period, work will cease until no further rain is forecast. This restriction is not applicable for areas located greater than 1.3 miles from potential or known CTS breeding sites once they have been encircled with CTS exclusion fencing. However, even after exclusion fencing is installed, this condition would still apply to construction related traffic moving through areas within 1.3 miles of potential or known CTS breeding sites | X                                    |                  |                     |                      |                                   |                       |                    |                       |   |

| Mitigation Measure Title | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|                          |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
|                          | <p>but outside of the salamander exclusion fencing (e.g. on roads).</p> <ul style="list-style-type: none"> <li>For work conducted during the CTS migration season (November 1 to May 31), exclusionary fencing will be erected around the construction site during ground disturbing activities after hand excavation of burrows has been completed. A biological monitor will visit the site weekly to ensure that the fencing is in good working condition. Fencing material and design will be subject to the approval of USFWS. If exclusionary fencing is not used, a qualified biological monitor will be on-site during all ground disturbance activities. Exclusion fencing will also be placed around all spoils and stockpiles.</li> <li>For work conducted during the CTS migration season</li> </ul> | X                                    |                  |                     |                      |                                   |                       |                    |                       |   |

| Mitigation Measure Title | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|                          |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
|                          | <p>(November 1 to May 31), a qualified biologist will survey the active work areas (including access roads) in mornings following measurable precipitation events. Construction may commence once the biologist has confirmed that no CTS are in the work area.</p> <ul style="list-style-type: none"> <li>• Prior to beginning work each day, underneath equipment and stored pipes greater than 1.2 inches in diameter will be inspected for CTS. If any are found they will be allowed to move out of the construction area under their own accord.</li> <li>• Trenches and holes will be covered and inspected daily for stranded animals. Trenches and holes deeper than 1 foot will contain escape ramps (maximum slope of 2:1) to allow trapped animals to escape uncovered holes or trenches.</li> </ul> | X                                    |                  |                     |                      |                                   |                       |                    |                       |   |

| Mitigation Measure Title | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|                          |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
|                          | <p>Holes and trenches will be inspected prior to filling.</p> <ul style="list-style-type: none"> <li>All food and food-related trash will be enclosed in sealed trash containers at the end of each workday and removed completely from the construction site once every three days to avoid attracting wildlife.</li> <li>A speed limit of 15 mph will be maintained on dirt roads.</li> <li>All equipment will be maintained such that there are no leaks of automotive fluids such as fuels, oils, and solvents. Any fuel or oil leaks will be cleaned up immediately and disposed of properly.</li> <li>Plastic monofilament netting (erosion control matting) or similar material will not be used at the project site because CTS may become entangled or trapped. Acceptable substitutes</li> </ul> | X                                    |                  |                     |                      |                                   |                       |                    |                       |   |

| Mitigation Measure Title   | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party     | Implementation Timing          | Verification Sign-off (initials and date) |
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|  |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                        |                                |   |
|  | <p>include coconut coir matting or tackified hydroseeding compounds.</p> <ul style="list-style-type: none"> <li>Hazardous materials such as fuels, oils, solvents, etc. will be stored in sealable containers in a designated location that is at least 100 feet from wetlands and the San Joaquin River channel. If it is not feasible to store hazardous materials 100 feet from wetlands and the river channel, then spill containment measures will be implemented to prevent the possibility of accidental discharges to wetlands and waters.</li> </ul> | X                                    |                  |                     |                      |                                   |                       |                        |                                |   |
| BIO-CONSTRUCT-3d: Minimize Construction-related Impacts to Western Spadefoot | <ul style="list-style-type: none"> <li>Prior to commencing ground disturbing activities, construction workers will be educated regarding western spadefoot, and the measures intended to protect these species.</li> </ul>  | X                                    |                  |                     |                      |                                   |                       | CDFW and/or Contractor | Before and during construction |   |

| Mitigation Measure Title | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|                          |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
|                          | <ul style="list-style-type: none"> <li>For work conducted during the western spadefoot toad migration and breeding season (November 1 to May 31), a qualified biologist will survey the active work areas (including access roads) in mornings following measurable precipitation events. Construction may commence once the biologist has confirmed that no spadefoot toads are in the work area.</li> <li>When feasible, there will be a 50-foot no-disturbance buffer around burrows that provide suitable upland habitat for western spadefoot toad. Burrows considered suitable for spadefoot will be identified by a qualified CDFW biologist. The biologist will delineate and mark the no-disturbance buffer.</li> <li>If western spadefoot is toad is found within the construction footprint, it will</li> </ul> | X                                    |                  |                     |                      |                                   |                       |                    |                       |   |

| Mitigation Measure Title | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|                          |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
|                          | <p>be allowed to move out of harm's way of its own volition or a qualified biologist will relocate the organism to the nearest burrow that is outside of the construction impact area.</p> <ul style="list-style-type: none"> <li>• Prior to beginning work each day, underneath equipment and stored pipes greater than 1.2 inches (3 cm) in diameter will be inspected for western spadefoot toad. If any are found, they will be allowed to move out of the construction area under their own accord.</li> <li>• Trenches and holes will be covered and inspected daily for stranded animals. Trenches and holes deeper than 1 foot will contain escape ramps (maximum slope of 2:1) to allow trapped animals to escape uncovered holes or trenches.</li> </ul> | X                                    |                  |                     |                      |                                   |                       |                    |                       |   |

| Mitigation Measure Title  | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party     | Implementation Timing          | Verification Sign-off (initials and date) |
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|   |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                        |                                |   |
|   | Holes and trenches will be inspected prior to filling.  | X                                    |                  |                     |                      |                                   |                       |                        |                                |   |
| BIO-CONSTRUCT-4: Implement Pre-construction Surveys and Minimization Measures for Western Pond Turtle | <p>Pre-construction surveys for WPT will be conducted by a qualified biologist 14 days before and 24 hours before the start of construction activities where suitable habitat exists (i.e., along riparian areas, ponds and freshwater emergent wetlands). If WPT or their nests are observed during pre-construction surveys, the following measures will be implemented:</p> <ul style="list-style-type: none"> <li>A qualified biologist will be on site to monitor construction in suitable WPT habitat. WPT found within the construction area will be allowed to leave on its own volition or it will be captured by the qualified biologist and relocated out of harm's way to the nearest suitable habitat immediately</li> </ul> | X                                    |                  |                     |                      |                                   |                       | CDFW and/or Contractor | Before and during construction |   |

| Mitigation Measure Title   | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party     | Implementation Timing          | Verification Sign-off (initials and date) |
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|  |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                        |                                |   |
|  | <p>upstream or downstream from the project site.</p> <ul style="list-style-type: none"> <li>If WPT nests are identified in the work area during pre-construction surveys, a 300-foot no-disturbance buffer will be established between the nest and any areas of potential disturbance. Buffers will be clearly marked with temporary fencing. Construction will not be allowed to commence in the exclusion area until hatchlings have emerged from the nest, or the nest is deemed inactive by a qualified biologist.</li> </ul> | X                                    |                  |                     |                      |                                   |                       |                        |                                |   |
| BIO-CONSTRUCT-5: Implement Pre-construction Surveys and Minimization Measures for Burrowing Owls | Prior to initiating ground-disturbing activities, CDFW will conduct surveys for burrowing owls in accordance with protocols established in the Staff Report on Burrowing Owl Mitigation (CDFG 2012 or current version). If ground-disturbing activities are delayed or suspended for more  | X                                    |                  |                     |                      |                                   |                       | CDFW and/or Contractor | Before and during construction |   |

| Mitigation Measure Title | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|                          |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
|                          | <p>than 30 days after the pre-construction survey, the site will be resurveyed. If burrowing owls are detected, disturbance to burrows will be avoided during the nesting season (February 1 through August 31). CDFW will establish buffers around occupied burrows in accordance with guidance provided in the Staff Report on Burrowing Owl Mitigation, and at the discretion of the qualified CDFW wildlife biologist. Buffers around occupied burrows will be a minimum of 656 feet during the breeding season, and 160 feet during the non-breeding season.</p> <p>Outside of the nesting season (February 1 through August 31), passive owl relocation techniques will be implemented. Owls would be excluded from burrows within 160 feet of construction by installing one-way doors in burrow entrances. The work</p> | X                                    |                  |                     |                      |                                   |                       |                    |                       |   |

| Mitigation Measure Title | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|                          |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
|                          | <p>area will be monitored daily for 1 week to confirm owl departure from burrows prior to any ground-disturbing activities. Where possible burrows will be excavated using hand tools and refilled to prevent reoccupation. Sections of flexible plastic pipe will be inserted into the tunnels during excavation to maintain an escape route for any animals inside the burrow.</p> <p>If occupied burrows cannot be avoided during the non-breeding season, CDFW will enhance or create burrows in adjacent habitat at a 1:1 ratio (burrows destroyed to burrows enhanced or created) one week prior to implementation of passive relocation techniques. If burrowing owl habitat enhancement or creation takes place, CDFW will develop and implement a monitoring and management plan to assess the effectiveness of the mitigation.</p> | X                                    |                  |                     |                      |                                   |                       |                    |                       |   |

| Mitigation Measure Title   | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party     | Implementation Timing          | Verification Sign-off (initials and date) |
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|  |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                        |                                |   |
| BIO-CONSTRUCT-6a: Implement Pre-construction Surveys and Minimization Measures for Bald Eagle and Golden Eagle | <p>Surveys for bald and golden eagle nests will be conducted within 2 miles of any construction area supporting suitable nesting habitat and important eagle roost sites and foraging areas. Surveys will be conducted in accordance with the USFWS Interim Golden Eagle Inventory and Monitoring Protocols (USFWS 2010), and CDFW's Bald Eagle Breeding Survey Instructions (CDFG 2010), or current guidance.</p> <p>If an active eagle's nest is found, project disturbance will not occur within 0.5 mile of the active nest site during the breeding season (December 30 through July 1), or in any area that may disturb the nesting birds. The 0.5 mile no-disturbance buffer will be maintained throughout the breeding season or until the young have fledged and are no longer dependent upon the</p> | X                                    |                  |                     |                      |                                   |                       | CDFW and/or Contractor | Before and during construction |   |

| Mitigation Measure Title   | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party     | Implementation Timing          | Verification Sign-off (initials and date) |
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|  |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                        |                                |   |
|  | nest or parental care for survival.   | X                                    |                  |                     |                      |                                   |                       |                        |                                |   |
| BIO-CONSTRUCT-6b: Implement Pre-construction Surveys and Minimization Measures for Swainson's Hawk and White-tailed Kite | If construction occurs between February 1 and August 31, CDFW will conduct surveys for nesting raptors, with a focus on Swainson's hawk and white-tailed kite, in accordance with established CDFW raptor survey protocols (e.g., CDFG 2000, or current guidance). Surveys will cover a minimum of a 0.5-mile radius around the construction area. If nesting raptors are detected, CDFW will establish buffers around nests that are sufficient to ensure that breeding is not likely to be disrupted or adversely impacted by construction. Buffers will be maintained until a qualified CDFW biologist has determined that young have fledged and are no longer reliant upon the nest or parental care for survival. | X                                    |                  |                     |                      |                                   |                       | CDFW and/or Contractor | Before and during construction |   |

| Mitigation Measure Title  | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party      | Implementation Timing          | Verification Sign-off (initials and date) |
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|   |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                         |                                |   |
|   | If potential nesting trees are to be removed during construction activities, removal will take place outside of Swainson's hawk nesting season and CDFW will develop a plan to replace known Swainson's hawk nest trees at a ratio of 3:1. If replacement planting is implemented, monitoring will be conducted annually for 5 years to assess the mitigation's effectiveness. The performance standard for the mitigation will be 65% survival of all replacement plantings. | X                                    |                  |                     |                      |                                   |                       |                         |                                |   |
| BIO-CONSTRUCT-6c: Implement Pre-construction Surveys and Minimization Measures for Non-listed Raptors | If construction occurs between February 1 and August 31, CDFW will conduct surveys for nesting raptors in accordance with established CDFW raptor survey protocols. Surveys will cover a minimum of a 0.5-mile radius around the construction area. If nesting raptors are detected, CDFW will establish buffers around nests that are sufficient to ensure that breeding is not likely to be   | X                                    |                  |                     |                      |                                   |                       | CDFW and/or Contractor) | Before and during construction |   |

| Mitigation Measure Title | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|                          |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
|                          | <p>disrupted or adversely impacted by construction. Buffers around active raptor nests will be 500 feet for non-listed raptors, unless a qualified biologist determines that smaller buffers would be sufficient to avoid impacts to nesting raptors. Factors to be considered for determining buffer size will include: the presence of natural buffers provided by vegetation or topography; nest height; locations of foraging territory; and baseline levels of noise and human activity. Buffers will be maintained until a qualified CDFW biologist has determined that young have fledged and are no longer reliant upon the nest or parental care for survival. If potential nesting trees are to be removed during construction activities, removal will take place outside of the raptor nesting season and CDFW will develop a plan to replace known nest trees at a ratio of 3:1. If replacement planting is implemented,</p> | X                                    |                  |                     |                      |                                   |                       |                    |                       |   |

| Mitigation Measure Title  | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party     | Implementation Timing          | Verification Sign-off (initials and date) |
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|   |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                        |                                |   |
|   | monitoring will be conducted annually for 5 years to assess the mitigation's effectiveness. The performance standard for the mitigation will be 65% survival of all replacement plantings.   | X                                    |                  |                     |                      |                                   |                       |                        |                                |   |
| BIO-CONSTRUCT-7a: Implement Pre-construction Surveys and Minimization Measures for Special-Status Passerine Species | If construction begins between February 1 and August 31, CDFW will conduct surveys for special-status birds within a 1,000-ft radius of the construction area. Surveys will be conducted by biologists adhering to guidance offered in Western Yellow-billed Cuckoo Natural History Summary and Survey Methodology (Halterman et al. 2009); Least Bell's Vireo Survey Guidelines (USFWS 2001); and/or A Survey Protocol for Willow Flycatcher in California (Bombay et al. 2003). If nests are detected, CDFW will establish buffers around nests that are sufficient to ensure that breeding is not likely to be disrupted or adversely impacted by construction. No- | X                                    |                  |                     |                      |                                   |                       | CDFW and/or Contractor | Before and during construction |   |

| Mitigation Measure Title                             | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party     | Implementation Timing          | Verification Sign-off (initials and date) |
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|  |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                        |                                |   |
|  | disturbance buffers around active nests will be a minimum of 500 feet, unless a qualified CDFW biologist determines that smaller buffers would be sufficient to avoid impacts to nesting birds. Factors to be considered for determining buffer size will include: the presence of natural buffers provided by vegetation or topography; nest height; locations of foraging territory; and baseline levels of noise and human activity. Buffers will be maintained until a qualified CDFW biologist has determined that young have fledged and are no longer reliant upon the nest or parental care for survival. | X                                    |                  |                     |                      |                                   |                       |                        |                                |   |
| BIO-CONSTRUCT-7b: Implement Pre-construction Surveys | Whenever possible, impacts to native nesting birds will be avoided by not conducting project activities that involve  | X                                    |                  |                     |                      |                                   |                       | CDFW and/or Contractor | Before and during construction |   |

| Mitigation Measure Title           | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|                                    |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
| for Birds Protected under the MBTA | <p>clearing of vegetation, generation of mechanical noise, or ground disturbance during the typical breeding season (February 1 to September 1), if species covered under the Migratory Bird Treaty Act and Fish and Game Code sections 3503, 3503.5, and/or 3513 are determined to be present.</p> <p>If construction begins between February 1 and August 31, CDFW will conduct surveys for nesting birds within a 1,000-ft radius of the construction area. If nests are detected, CDFW will establish buffers around nests that are sufficient to ensure that breeding is not likely to be disrupted or adversely impacted by construction. Buffers around active nests will be a minimum of 250 feet, unless a qualified CDFW biologist determines that smaller buffers would be sufficient to avoid impacts to nesting birds. Factors to be considered for determining buffer size will include: the</p> | X                                    |                  |                     |                      |                                   |                       |                    |                       |   |

| Mitigation Measure Title   | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party     | Implementation Timing          | Verification Sign-off (initials and date) |
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|  |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                        |                                |   |
|  | presence of natural buffers provided by vegetation or topography; nest height; locations of foraging territory; and baseline levels of noise and human activity. Buffers will be maintained until young have fledged or the nests become inactive.   | X                                    |                  |                     |                      |                                   |                       |                        |                                |   |
| BIO-CONSTRUCT-8a: Conduct Pre-construction Surveys for Bat Species | No less than 7 days and no more than 14 days prior to the beginning of ground disturbance and/or construction activities, a qualified CDFW wildlife biologist, or wildlife biologist approved by CDFW, will conduct surveys for special-status bats during the appropriate time of day to maximize detectability to determine if bat species are roosting near the work area. Survey methodology may include visual surveys of bats (observation of presence of bats during foraging period), inspection for suitable habitat or bat sign (guano), or use of ultrasonic detectors (Anabat, | X                                    |                  |                     |                      |                                   |                       | CDFW and/or Contractor | Before and during construction |   |

| Mitigation Measure Title  | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party     | Implementation Timing          | Verification Sign-off (initials and date) |
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|   |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                        |                                |   |
|   | etc.). Visual surveys may consist of a daytime pedestrian survey looking for evidence of bat use (e.g., guano) and/or an evening emergence survey to note the presence or absence of bats and will include trees within 0.25 mile of project construction activities. The type of survey will depend on the condition of the potential roosting habitat. If no bat roosts are found, then no further study is required. If evidence of bat use is observed, the number and species of bats using the roost will be determined. | X                                    |                  |                     |                      |                                   |                       |                        |                                |   |
| BIO-CONSTRUCT-8b: Avoid and Minimize Impacts to Roosting/Breeding Sites | CDFW will avoid disturbance to roosts to the greatest extent feasible. If roosts must be removed, the bats will be excluded from the roosting site before it is removed. A mitigation program addressing compensation, exclusion methods, and roost removal procedures will be developed prior to implementation. Exclusion methods may  | X                                    |                  |                     |                      |                                   |                       | CDFW and/or Contractor | Before and during construction |   |

| Mitigation Measure Title | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|                          |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
|                          | include use of one-way doors at roost entrances (bats may leave, but not reenter), or sealing roost entrances when a site can be confirmed to contain no bats. Exclusion efforts may be restricted during periods of sensitive activity (e.g., during hibernation or while females in maternity colonies are nursing young). | X                                    |                  |                     |                      |                                   |                       |                    |                       |   |

| Mitigation Measure Title  | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party     | Implementation Timing                 | Verification Sign-off (initials and date) |
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|   |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                        |                                       |   |
| BIO-CONSTRUCT-8c:<br>Replace Bat Roosting/Breeding Sites              | If roosts cannot be avoided or it is determined that construction activities may cause roost abandonment, such activities may not commence until permanent, elevated bat houses have been installed outside of, but near the construction area. Placement and height will be determined by a qualified CDFW wildlife biologist, but the height of bat house will be at least 15 feet. Bat houses will be multi-chambered and be purchased or constructed in accordance with CDFW standards. The number of bat houses required will be dependent upon the size and number of colonies found, but at least one bat house will be installed for each pair of bats (if occurring individually), or of sufficient number to accommodate each colony of bats to be relocated. | X                                    |                  |                     |                      |                                   |                       | CDFW and/or Contractor | Before and during construction        |   |
| BIO-CONSTRUCT-9:<br>Conduct Pre-construction Surveys and Minimization | No less than 14 days and no more than 30 days prior to the beginning of ground disturbance and/or   | X                                    |                  |                     |                      |                                   |                       | CDFW and/or Contractor | Before construction in locations with |   |

| Mitigation Measure Title     | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing       | Verification Sign-off (initials and date) |
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|                              |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                             |   |
| Measures for American Badger | construction activities, CDFW will conduct a survey to determine if American badger den sites are present at the SCARF site. If dens are found, they will be monitored for badger activity. If CDFW determines that dens may be active, the entrances of the dens will be blocked with soil, sticks, and debris for three to five days to discourage the use of these dens prior to project disturbance activities. The den entrances will be blocked to an incrementally greater degree over the three to five-day period. After the qualified CDFW biologist determines that badgers have stopped using active dens, the dens will be hand-excavated with a shovel to prevent re-use during construction. No disturbance of active dens will take place when cubs may be present and dependent on parental care, as determined by a qualified CDFW biologist. | X                                    |                  |                     |                      |                                   |                       |                    | potential to affect badgers |   |

| Mitigation Measure Title  | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party     | Implementation Timing   | Verification Sign-off (initials and date) |
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|   |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                        |   |   |
| BIO-CONSTRUCT-10:<br>Conduct Pre-construction Surveys and Minimization Measures for San Joaquin Kit Fox | <p>A qualified biologist will conduct pre-construction surveys no less than 14 days and no more than 30 days before the commencement of construction activities to identify potential dens more than 5 inches in diameter. CDFW will implement USFWS Standardized Recommendations for Protection of San Joaquin Kit Fox Prior to or During Ground Disturbance (USFWS 1999, 2011). CDFW will notify USFWS in writing of the results of the pre-construction survey within 30 days after these activities are completed.</p> <p>If potential dens are located within the proposed work area and cannot be avoided during construction activities, a USFWS-approved biologist will determine if the dens are occupied. If occupied dens are present within the proposed work area, they will be avoided through the use of exclusion zones following the most</p> | X                                    |                  |                     |                      |                                   |                       | CDFW and/or Contractor | Before construction in locations with potential to affect San Joaquin Kit Fox |   |

| Mitigation Measure Title | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|                          |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
|                          | <p>current USFWS procedures (currently USFWS 1999, 2011). Furthermore, CDFW will notify USFWS immediately if a natal or pupping den is found in the survey area, and will present the results of pre-activity den searches within 5 days after these activities are completed and before the start of construction activities in the area. CDFW, in coordination with USFWS, will determine if SJKF den removal is appropriate. If unoccupied dens need to be removed, the USFWS-approved biologist will remove these dens by hand-excavating them in accordance with USFWS procedures (USFWS 1999, 2011).</p> <p>Additional conservation measures will be coordinated between USFWS and CDFW, and may include replacing dens, installing off-site artificial dens, acquiring compensatory habitat, or other conservation options. Compensation may include dedicating</p> | X                                    |                  |                     |                      |                                   |                       |                    |                       |   |

| Mitigation Measure Title            | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing          | Verification Sign-off (initials and date) |
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|                                     |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                                |   |
|                                     | conservation easements, purchasing mitigation credits, or other off-site conservation measures, and the details of these measures will be included in the mitigation plan and must occur with full endowments for management in perpetuity. The plan will include information on responsible parties for long-term management, holders of conservations easements, long-term management requirements, and other details, as appropriate, for the preservation of long-term viable SJKF populations. If conservation measures are implemented, CDFW will monitor their performance annually for 5 years to assess the mitigation’s effectiveness. The performance standard for the mitigation will be no net reduction in the size or viability of the local SJKF population. | X                                    |                  |                     |                      |                                   |                       |                    |                                |   |
| BIO-CONSTRUCT-11a: Minimize Area of | The disturbance or removal of vegetation will not exceed the   | X                                    |                  |                     |                      |                                   |                       | DGS and contractor | During design and construction |   |

| Mitigation Measure Title  | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party          | Implementation Timing          | Verification Sign-off (initials and date) |
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|   |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                             |                                |   |
| Disturbance of Riparian Habitat   | minimum necessary to complete construction and will only occur within the defined work area.   | X                                    |                  |                     |                      |                                   |                       |                             |                                |   |
| BIO-CONSTRUCT-11b: Develop and Implement Revegetation Plan for Riparian Habitat Disturbed by Construction | CDFW will develop a revegetation plan for riparian habitat and sensitive natural communities disturbed by construction. All disturbed soils and new fill in riparian habitat or sensitive natural communities will be revegetated with site-appropriate native species. Any native vegetation 4 inches or greater DBH damaged or removed as result of construction activity will be replaced at a 3:1 ratio; this ratio will increase to 10:1 for native trees of 24 inches DBH and greater. Revegetation areas will be maintained and monitored to ensure a minimum of 65% survival of the plantings after 5 years. | X                                    |                  |                     |                      |                                   |                       | CDFW, DGS and/or Contractor | During design and construction |   |
| BIO-CONSTRUCT-12a: Obtain Regulatory  | Work within areas defined as waters of the U.S. that includes  | X                                    |                  |                     |                      |                                   |                       | CDFW and/or Contractor      | Before construction            |   |

| Mitigation Measure Title   | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|  |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
| Permits for Work Activities Taking Place in Wetlands and Waters of the United States and the State | <p>placement of fill will require a CWA Section 404 permit from the USACE and Section 401 Water Quality Certification from the RWQCB. All work proposed in jurisdictional waters of the U.S. will be authorized by permits from the USACE and RWQCB.</p> <p>In areas where project activities are temporary in nature, jurisdictional wetland and other waters of the U.S. will be restored to their condition prior to disturbance. In areas where permanent disturbance to jurisdictional waters or wetlands will occur, CDFW will first identify if potential mitigation sites are present within close proximity to the area of disturbance, and will construct new or restore degraded wetlands. If waters or wetlands cannot be restored on-site or in the immediate vicinity of the disturbance location, replacement at a nearby off-site location will be provided. The replacement of</p> | X                                    |                  |                     |                      |                                   |                       |                    |                       |   |

| Mitigation Measure Title   | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party           | Implementation Timing          | Verification Sign-off (initials and date) |
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|  |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                              |                                |   |
|  | waters or wetlands will be equivalent to the nature of the habitat lost, and will be provided at a suitable ratio to ensure that, at a minimum, there is no net loss of habitat acreage or value. The replacement habitat will be set aside in perpetuity for habitat use. Mitigation ratios to achieve the “no net loss” standard will be determined in consultation with the USACE and RWQCB. | X                                    |                  |                     |                      |                                   |                       |                              |                                |   |
| BIO-CONSTRUCT-12b: Avoidance of and Mitigation for Incidental Fill | Incidental fill of wetland areas will be minimized wherever possible. Temporary construction fencing will be erected around wetlands areas to reduce the potential of incidental fill. Areas affected by construction will be restored to pre-construction contours and revegetated using a mix of native vegetation in accordance with <b>Mitigation Measure BIO-CONSTRUCT-11b.</b>            | X                                    |                  |                     |                      |                                   |                       | CDFW, DGS, and/or Contractor | During design and construction |   |

| Mitigation Measure Title   | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party     | Implementation Timing          | Verification Sign-off (initials and date) |
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|  |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                        |                                |   |
| BIO-REINTRO-3: Conduct Project-Level Assessment of Activity, and Implement Conservation Measures to Avoid, Minimize, or Mitigate Impacts | When project activities are defined to a level that impacts to biological resources can be evaluated, and prior to implementing that component or taking actions that commit CDFW to implementing that component, CDFW will assess the site to determine the potential for impacts to biological resources. At minimum, the assessment will include a CNDDDB search of the site vicinity (minimum 5-mile radius), and a site visit by a qualified botanist and wildlife biologist to evaluate the potential for special-status species and sensitive habitats to be impacted by the activity. If the biologists determine that special-status species or sensitive habitats may be affected by the activity, CDFW will implement the conservation measures listed in Appendix I, CDFW's Conservation Measures for Biological Resources that May Be Affected by Program-level Actions, for each species and |                                      |                  | X                   |                      |                                   |                       | CDFW and/or Contractor | Before and during construction |   |

| Mitigation Measure Title  | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party   | Implementation Timing                      | Verification Sign-off (initials and date) |
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|   |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |  |  |   |
|   | habitat type that may be affected.   |                                      |                  | X                   |                      |                                   |                       |  |  |   |
| BIO-RECREATION-2: Preserve and Protect Special-Status Plant Populations in the Vicinity of Recreational Enhancement Areas | Prior to developing recreational enhancements, CDFW will implement the <b>Mitigation Measure BIO-REINTRO-3</b> . If the qualified botanist identifies special-status plants species in the vicinity of the recreational enhancements, CDFW will implement measures to minimize potential impacts. Minimization measures may include constructing pathways, fencing, signage, and other strategies to reduce the potential for trampling or matting that will protect the viability of the local plant population and suitable habitat. If minimization measures are implemented, monitoring of plant populations will be conducted annually for 5 years to assess the mitigation's effectiveness. The performance standard for the mitigation will be no net |                                      |                  | X                   |                      |                                   | X                     | CDFW and/or Contractor (and DGS, depending on the selected measures) | During design, construction, and operation |   |

| Mitigation Measure Title   | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing  | Verification Sign-off (initials and date) |
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|  |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                        |   |
|  | reduction in the size or viability of the local population.  |                                      |                  | X                   |                      |                                   |                       | X                  |                        |   |
| CR-CONSTRUCT-1a: Evaluate Cultural Resources for Eligibility for Inclusion in the CRHR, and Implement Appropriate Mitigation Measures for Eligible Resources | CDFW shall ensure that all cultural resources identified prior to or during construction of the various Proposed Project components will be evaluated for eligibility for inclusion in the CRHR. Where implementation of the Proposed Project necessitates ground disturbance at sites besides the SCARF (e.g., sites for recreational enhancements), a records search and pedestrian survey shall be conducted prior to construction. Resource evaluations will be conducted by individuals who meet the U.S. Secretary of Interior’s professional standards in archaeology and architectural history. If any of the resources that are identified during this evaluation meet the eligibility criteria identified in PRC section 5024.1, or PRC section 21083.2(g), CDFW will develop and implement mitigation | X                                    |                  |                     |                      |                                   |                       |                    | CDFW and/or Contractor | During design and construction            |

| Mitigation Measure Title | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|                          |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
|                          | <p>measures according to CEQA Guidelines section 15126.4(b) before construction begins or resumes.</p> <p>For resources eligible for listing in the CRHR that would be rendered ineligible by the effects of project construction, CDFW shall implement mitigation measures. Mitigation measures for archaeological resources shall be selected from the following: avoidance; incorporation of sites within parks, greenspace, or other open space; capping the site; deeding the site into a permanent conservation easement; or data recovery excavation. Mitigation measures for archaeological resources shall be developed in consultation with responsible agencies, including but not limited to the State Office of Historic Preservation and, as appropriate, interested parties such as Native American tribes. Mitigation measures for historic architectural resources</p> | X                                    |                  |                     |                      |                                   |                       |                    |                       |   |

| Mitigation Measure Title  | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party     | Implementation Timing | Verification Sign-off (initials and date) |
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|   |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                        |                       |   |
|   | shall be consistent with the U.S. Secretary of the Interior's Standards for the Treatment of Historic Properties with Guidelines for Preserving, Rehabilitating, Restoring, and Reconstructing Historic Buildings. Implementation of the approved mitigation would be required before beginning/resuming any construction activities with potential to affect identified eligible resources at the site.  | X                                    |                  |                     |                      |                                   |                       |                        |                       |   |
| CR-CONSTRUCT-1b: Immediately Halt Construction if Cultural Resources are Discovered | Not all cultural resources are visible on the ground surface. If any cultural resources, such as structural features, unusual amounts of bone or shell, flaked or ground stone artifacts, historic-era artifacts, human remains, or architectural remains are encountered during any project construction activities, work shall be suspended immediately at the location of the find and within an appropriate radius of at least 50 feet. A qualified | X                                    |                  |                     |                      |                                   |                       | CDFW and/or Contractor | During construction   |   |

| Mitigation Measure Title  | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party     | Implementation Timing | Verification Sign-off (initials and date) |
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|   |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                        |                       |   |
|   | archaeologist shall conduct a field investigation of the specific site and recommend mitigation necessary for the protection or recovery of any cultural resource concluded by the archaeologist to represent a historical resource or unique archaeological resource.<br><b>Mitigation Measure CR-CONSTRUCT-1a</b> would then be implemented.   | X                                    |                  |                     |                      |                                   |                       |                        |                       |   |
| CR-CONSTRUCT-3: Immediately Halt Construction if Human Remains are Discovered and Implement California Health and Safety Code | If human remains are accidentally discovered during the Proposed Project's construction activities, the requirements of California Health and Human Safety Code section 7050.5 must be followed. Potentially damaging excavation must halt in the area of the remains, with a minimum radius of 50 feet, and the local County Coroner must be notified. The Coroner is required to examine all discoveries of human remains within 48 hours of receiving notice of a discovery on private or state lands (Health and | X                                    |                  |                     |                      |                                   |                       | CDFW and/or Contractor | During construction   |   |

| Mitigation Measure Title   | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|  |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
|  | Safety Code section 7050.5[b]). If the Coroner determines that the remains are those of a Native American, he or she must contact NAHC by phone within 24 hours of making that determination (Health and Safety Code section 7050[c]). Pursuant to the provisions of PRC section 5097.98, the NAHC shall identify a Most Likely Descendent (MLD). The MLD designated by the NAHC shall have at least 48 hours to inspect the site and propose treatment and disposition of the remains and any associated grave goods. | X                                    |                  |                     |                      |                                   |                       |                    |                       |   |
| GEO-CONSTRUCT-1a: Implement Construction Best Management Practices to Minimize Erosion and the Loss of Topsoil | CDFW, DGS, or their contractor(s) shall implement the following measures: <ul style="list-style-type: none"> <li>Implement practices to minimize the contact of construction materials, equipment, and maintenance supplies with storm water.</li> </ul>   | X                                    |                  |                     |                      |                                   |                       | Contractor         | During construction   |   |

| Mitigation Measure Title | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|                          |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
|                          | <ul style="list-style-type: none"> <li>• Limit fueling and other activities involving hazardous materials to use in designated areas only; provide drip pans under equipment and conduct daily checks of vehicle condition.</li> <li>• Implement wildlife-friendly practices to reduce erosion of exposed soil, including stabilization for soil stockpiles, watering for dust control, establishment of perimeter silt fences, and/or placement of fiber rolls.</li> <li>• Implement practices to maintain water quality, including silt fences, stabilized construction entrances, and storm-drain inlet protection.</li> <li>• Develop spill prevention and emergency response plans to handle potential fuel or other spills.</li> </ul> | X                                    |                  |                     |                      |                                   |                       |                    |                       |   |

| Mitigation Measure Title  | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party    | Implementation Timing             | Verification Sign-off (initials and date) |
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|   |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                       |                                   |   |
|   | <ul style="list-style-type: none"> <li>Where feasible, limit construction to dry periods.</li> <li>The performance standard for this mitigation measures is use of the best available technology that is economically achievable.</li> </ul>  | X                                    |                  |                     |                      |                                   |                       |                       |                                   |   |
| GEO-CONSTRUCT-1b: Comply with Cal/OSHA Requirements for Excavation Slopes | CDFW, DGS, or their contractor(s) shall ensure that temporary excavation slopes meet Cal/OSHA requirements, as appropriate. Excavation sloping, benching, the use of trench shields, and the placement of trench spoils should conform to the last applicable Cal/OSHA standards. Nearby utilities, structures, and other improvements shall be protected from potential damage by earth movements. | X                                    |                  |                     |                      |                                   |                       | DGS and/or Contractor | During design and/or construction |   |
| GEO-CONSTRUCT-1c: Design Cut-and-Fill Slopes to Minimize Erosion          | CDFW, DGS, or their contractor(s) shall implement the following measures:   | X                                    |                  |                     |                      |                                   |                       | DGS and/or Contractor | During design and/or construction |   |

| Mitigation Measure Title   | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party     | Implementation Timing | Verification Sign-off (initials and date) |
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|  |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                        |                       |   |
|  | <ul style="list-style-type: none"> <li>Construction methods will incorporate appropriate erosion-prevention actions. This may include, but will not be limited to, reducing slope steepness as much as possible, re-vegetating slopes as appropriate, and directing surface drainage away from the tops of slopes. Actions shall be taken to compact fill soils uniformly.</li> <li>The guidance from the Geocon 2012 Geotechnical Investigation Report (Geocon 2012) shall be used for erosion-prevention techniques, modified if necessary depending on actual field conditions.</li> </ul> | X                                    |                  |                     |                      |                                   |                       |                        |                       |   |
| GEO-CONSTRUCT-2a: Test Fill for Recommended Compaction and Moisture Content, and Apply Appropriate Measures to Reach | <p>CDFW, DGS, or their contractor(s) shall implement the following measures:</p> <ul style="list-style-type: none"> <li>All earthwork operations should be observed by a qualified inspector who is a</li> </ul>  | X                                    |                  |                     |                      |                                   |                       | CDFW and/or Contractor | During construction   |   |

| Mitigation Measure Title       | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|                                |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
| Desired Content When Necessary | <p>California licensed Professional Geologist and is also a California Certified Engineering Geologist. A test fill will be constructed to determine the suitability of fill material for use at the site. The results of the test fill will be used to determine the appropriate method for conditioning, placement and compaction of fill material necessary at the site to ensure stable foundation conditions are achieved. Within the existing effluent detention pond area, existing fill and loose alluvium should be removed down to competent granite bedrock. The removal should extend at least 5 feet laterally beyond the footprint of the proposed hatchery compound, including the parking area.</p> <ul style="list-style-type: none"> <li>Over-excavation bottoms, areas to receive fill or areas left at-grade should be thoroughly scarified to a</li> </ul> | X                                    |                  |                     |                      |                                   |                       |                    |                       |   |

| Mitigation Measure Title                                    | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                        | Implementing Party  | Implementation Timing | Verification Sign-off (initials and date) |
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|   |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management  |                     |                       |   |
|   | minimum depth of 8 inches, uniformly moisture-conditioned at or near optimum moisture content, and compacted to at least 90% relative compaction. Scarification in exposed, hard bedrock areas is not required.   | X                                    |                  |                     |                      |                                   |                        |                     |                       |   |
| GEO-CONSTRUCT-2b: Ensure Fill Soils Contain Adequate Binder | <p>CDFW, DGS, or their contractor(s) shall implement the following measures:</p> <ul style="list-style-type: none"> <li>• If fill soils consist of sand and gravel mixtures with silt or clay binder, these soils should be blended with other soils containing sufficient fines to provide adequate binder (usually 10–15% fines by dry weight).</li> <li>• If pond-bottom sediment is used, it should be dried and sufficiently blended with other soils such that the resulting fill does not</li> </ul> | X                                    |                  |                     |                      |                                   | CDFW and/or Contractor | During construction |                       |   |

| Mitigation Measure Title   | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party     | Implementation Timing | Verification Sign-off (initials and date) |
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|  |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                        |                       |   |
|  | <p>contain organics in excess of 3% by dry weight.</p> <ul style="list-style-type: none"> <li>Imported fill material should be primarily granular with a "very low" expansion potential (Expansion Index less than 20) and a Plasticity Index less than 15. Imported fill material should also contain sufficient binder and be free of organic material and construction debris; it should not contain rocks/cementations larger than 6 inches in their greatest dimension.</li> </ul> | X                                    |                  |                     |                      |                                   |                       |                        |                       |   |
| GEO-CONSTRUCT-3: Accommodate Shallow Groundwater and Potential Perched Groundwater and Seepage throughout the Project Excavation Sites | <p>CDFW, DGS, or their contractor(s) shall implement the following measures:</p> <ul style="list-style-type: none"> <li>Drain the settling ponds several weeks prior to grading, and perform earthwork and grading operations during the summer, if possible.</li> </ul>  | X                                    |                  |                     |                      |                                   |                       | CDFW and/or Contractor | During construction   |   |

| Mitigation Measure Title | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|                          |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
|                          | <ul style="list-style-type: none"> <li>• Be prepared to accommodate potential perched groundwater and seepage in deeper project excavations, such as the pond removal excavations. Depending on the extent of perched groundwater at the time of grading, temporary dewatering measures, such as wellpoints or trench drains, may be required. Some form of subgrade stabilization may be necessary where wet, unstable soils are exposed.</li> <li>• Depending on conditions found at the time of construction, mitigation alternatives, such as over-excavation and replacement with gravel wrapped in geosynthetic fabric, may be necessary to provide a stable bottom.</li> </ul> | X                                    |                  |                     |                      |                                   |                       |                    |                       |   |

| Mitigation Measure Title   | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party          | Implementation Timing          | Verification Sign-off (initials and date) |
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|  |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                             |                                |   |
| GEO-CONSTRUCT-4:<br>Take Recommended Grading and Fill Actions to Maximize Foundation Stability | <p>CDFW, DGS, or their contractor(s) shall implement the following measures:</p> <ul style="list-style-type: none"> <li>• Foundation design will incorporate appropriate measures to maximize long-term stability. This may address, but will not be limited to, footings and reinforcement specifications, the use of aggregate base and compacted fill or native soils, and methods to permit drainage for areas below the design flood elevation.</li> <li>• The Geocon 2012 Geotechnical Investigation Report (Geocon 2012) may be used as guidance, but final design and implementation will depend on actual field conditions, and modifications will be made as necessary.</li> <li>• A qualified geotechnical engineer will oversee onsite</li> </ul> | X                                    |                  |                     |                      |                                   |                       | DGS, CDFW and/or Contractor | During design and construction |   |

| Mitigation Measure Title   | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party          | Implementation Timing          | Verification Sign-off (initials and date) |
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|  |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                             |                                |   |
|  | field investigations and approved final design.   | X                                    |                  |                     |                      |                                   |                       |                             |                                |   |
| GEO-OP-1: Conduct and Additional Investigation into the Flow Capacity of Impacted Channels and Implement the Investigation's Recommendations | <p>Due to the increased flow through the return flow outfall channel, CDFW, DGS, or their contractor(s) shall conduct an investigation into the capacity of the channel and its connection to the San Joaquin River to verify that the channel and connection point have the capacity to support potential increased flows. Similarly, the volitional release channel would require the same investigation. The geotechnical investigation would be conducted by a qualified hydrologist(s) or hydraulic engineer(s) (or team of such experts) and detailed in a technical report.</p> <p>If the geotechnical investigation results indicate that the flow capacities of the affected channels would not be sufficient to accommodate the Proposed Project's flows,</p> |                                      | X                |                     |                      |                                   |                       | CDFW, DGS and/or Contractor | During design and construction |   |

| Mitigation Measure Title | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|                          |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
|                          | recommended actions will be included in the report. CDFW will implement the report's recommended actions. Potential recommendations may include but not be limited to: expansion and/or reinforcement of the existing outfall and volitional release channels, a reduction of flow rates to a level that can be supported by the existing channels, and/or an investigation into and development of alternative channels to support peak flows. As a performance standard, in no case shall the return flows from the outfall or the volitional release channel cause channel instability or erosion and sedimentation downstream. |                                      | X                |                     |                      |                                   |                       |                    |                       |   |

| Mitigation Measure Title  | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|   |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
| GEO-MANAGEMENT-1a: Stabilize Soils to Avoid Increasing Erosion on Streambanks             | Project activities will be done in such a manner as to not increase erosion within the banks of the river during or immediately following rainfall events. All disturbed soils at project activity sites will be stabilized to reduce erosion potential, both during and following installation of equipment (e.g., weirs, fyke nets, traps, etc.). After removal of such equipment, soils shall be stabilized and recontoured, as necessary. |                                      |                  |                     | X                    |                                   |                       | Contractor         | During construction   |   |
| GEO-MANAGEMENT-1b: Use Energy Dissipaters to Minimize Turbidity at the Point of Discharge | Water deposited back into the river following Chinook salmon transport shall be done at a rate to minimize water turbidity and erosion. As necessary at each site, temporary energy dissipaters such as rip rap shall be placed at the point of discharge to moderate the return of water to the channel.   |                                      |                  |                     | X                    |                                   |                       | CDFW               | During operation      |   |

| Mitigation Measure Title   | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing  | Verification Sign-off (initials and date) |  |
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|  |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                        |   |  |
| GEO-RECREATION-1: Conduct a Geotechnical Investigation and Incorporate Report Recommendations into the Design and Construction of any Future Recreation Management Roads or Facilities | A geotechnical investigation must be conducted by a qualified geotechnical engineer (or team of geotechnical engineers) to evaluate subsurface soil and geologic conditions at future sites of recreation management roads and facilities. The investigation report should provide conclusions and recommendations relative to the geotechnical aspects of designing and constructing the recreation management roads and facilities, which are yet to be determined. Recommendations should address site and geologic conditions, including soil, groundwater, and corrosion. They should also address geologic hazards, such as regional active faults, ground shaking, liquefaction, and flooding. The report should provide seismic design criteria; excavation and cut-and-fill characteristics; criteria for foundations, retaining walls, and pavement; and any other design criteria appropriate for |                                      |                  |                     |                      |                                   |                       | X                  | CDFW and/or Contractor | During design, before construction        |  |

| Mitigation Measure Title  | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party     | Implementation Timing   | Verification Sign-off (initials and date) |
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|   |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                        |   |   |
|   | <p>the Proposed Project such that the facilities remain stable.</p> <p>The proposed recreation management activities will incorporate all recommendations put forth by the Geotechnical Investigation Report into the design and construction of the Proposed Project.</p>   |                                      |                  |                     |                      |                                   |                       |                        |   |   |
| GHG-MANAGEMENT-1: Prepare Project-Level Quantitative Analysis of Construction-Related GHG Emissions, and Implement Measures to Reduce and/or Offset Emissions | <p>As future individual Proposed Project components are further defined to a level that construction emissions can be estimated, and prior to implementing that component or taking actions that commit CDFW to implementing that component, CDFW will prepare a complete, quantitative project-level GHG emissions analysis for that component.</p> <p>The GHG emissions analysis will be based on the types, locations, numbers, and operations of equipment to be used; the amount and distance</p> |                                      |                  |                     | X                    |                                   | X                     | CDFW and/or Contractor | Prior to implementing a project component or taking actions that commit CDFW to implementing that component |   |

| Mitigation Measure Title | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|                          |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
|                          | <p>of material to be transported; and worker trips required. The analysis will determine whether the combined emissions of the various quantified components' construction activities exceed the construction thresholds (230 metric tons CO<sub>2</sub>e/year amortized or district approved BPS).</p> <p>If the analysis determines that construction emissions will exceed the construction thresholds, CDFW will first implement all feasible, applicable GHG emission reduction measures and propose these as BPS for the project, up to a 29% reduction from a defined business-as-usual baseline or 1,100 metric tons CO<sub>2</sub>e per year. Potential GHG emission reduction measures to be considered include, but are not limited to the following:</p> <ul style="list-style-type: none"> <li>Utilize alternative fueled vehicles such as electric or</li> </ul> |                                      |                  |                     | X                    |                                   | X                     |                    |                       |   |

| Mitigation Measure Title | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|                          |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
|                          | <p>biodiesel for equipment and vehicles.</p> <ul style="list-style-type: none"> <li>Utilize newer, more fuel efficient equipment and vehicles for construction.</li> <li>Increase employee vanpool share (2% of vanpool mode share).</li> <li>Utilize locally sourced material.</li> </ul> <p>In the event that the mitigation measures are insufficient to reduce construction emissions to be equal to or less than the significance thresholds, then CDFW shall purchase sufficient GHG emission credits to offset the Proposed Project's construction net increase in emissions above the thresholds. These may include GHG credits that have been banked under SJVAPCD Rule 2301 or other GHG credits that</p> |                                      |                  |                     | X                    |                                   | X                     |                    |                       |   |

| Mitigation Measure Title   | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party       | Implementation Timing          | Verification Sign-off (initials and date) |
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|  |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                          |                                |   |
|  | are considered acceptable by SJVAPCD.  |                                      |                  |                     | X                    |                                   | X                     |                          |                                |   |
| HAZ-CONSTRUCT-3: Implement a Construction Management Plan to Minimize Interference with Emergency Response | CDFW, DGS, or the construction contractor, in consultation with the County, will prepare and implement a Traffic Management Plan (TMP). CDFW will be responsible for ensuring that the plan is adequately developed and implemented. CDFW will provide the TMP to the Fresno County Public Works and Planning Department and Caltrans. The TMP will include recommended traffic-control and traffic-reduction measures as identified in the Transportation Management Plan Guidelines issued by the Division of Traffic Operations Office of System Management Operations (Caltrans 2009). CDFW will implement all traffic-control or traffic-reduction measures described in the TMP. In addition, to the extent feasible, construction-related traffic and any | X                                    |                  |                     |                      |                                   |                       | CDFW, DGS, or Contractor | Before and during construction |   |

| Mitigation Measure Title | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|                          |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
|                          | <p>temporary road closures shall be scheduled during non-peak traffic periods.</p> <p>The measures included in the TMP shall be consistent with any applicable guidelines outlined in the Standard Specifications for Public Works Construction, the U.S. Department of Transportation’s Manual on Uniform Traffic Control Devices, and the Work Area Traffic Control Handbook. The plan will include the following items:</p> <ul style="list-style-type: none"> <li>• Defined location and timing of any temporary lane closures;</li> <li>• Identification and provision for circumstances requiring the use of temporary traffic control measures, flag persons, warning signs, lights, barricades, and cones, etc. to provide safe work areas in the vicinity of the project site or along the haul</li> </ul> | X                                    |                  |                     |                      |                                   |                       |                    |                       |   |

| Mitigation Measure Title | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|                          |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
|                          | <p>routes, including for those roadway segments that have substandard width (less than 18 feet), and to warn, control, protect, and expedite vehicular and pedestrian traffic and access by emergency responders;</p> <ul style="list-style-type: none"> <li>• Implementation of comprehensive traffic control measures, including scheduling of major truck trips and deliveries to avoid peak-hour traffic, placement of detour signs (if required), lane closure procedures (if required), flaggers (if required), placement of cones for drivers, and designated construction access routes and access points;</li> <li>• Notification to adjacent property owners and public safety personnel regarding when major deliveries, detours, and lane closures will occur;</li> </ul> | X                                    |                  |                     |                      |                                   |                       |                    |                       |   |

| Mitigation Measure Title | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|                          |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
|                          | <ul style="list-style-type: none"> <li>• Address the potential for construction-related traffic to impede emergency response vehicles and present a specific training and information program for construction workers to ensure awareness of emergency procedures from project-related accidents;</li> <li>• Identification of haul routes for movement of construction vehicles that will minimize impacts on vehicular and pedestrian traffic and circulation and safety, and provision for monitoring surface streets used for haul routes so that any damage and debris attributable to the haul trucks can be identified and corrected by CDFW and/or DGS in coordination with the construction contractor;</li> <li>• Development of a process for responding to and tracking complaints pertaining to construction</li> </ul> | X                                    |                  |                     |                      |                                   |                       |                    |                       |   |

| Mitigation Measure Title  | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party           | Implementation Timing | Verification Sign-off (initials and date) |
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|   |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                              |                       |   |
|   | activity, including identification of an onsite complaint manager; and <ul style="list-style-type: none"> <li>• Documentation of road pavement conditions for all routes that would be used by construction vehicles both before and after project construction. Roads damaged by construction vehicles will be repaired to the level at which they existed before project construction.</li> </ul> | X                                    |                  |                     |                      |                                   |                       |                              |                       |   |
| HAZ-MANAGEMENT-3: Prepare Project-Level Quantitative Analysis of Site-specific Current and Historical Hazardous Materials, Implement Recommendations in the Phase I Environmental Site Assessment, and Comply with all Applicable Regulations | CDFW will implement the following measures to assess and minimize potential hazards on sites selected for the construction or removal of fish segregation weirs. CDFW will have a qualified expert perform a Phase 1 Environmental Site Assessment and hazardous-site records search for the Proposed Project sites. This process will include the identification of potential                      |                                      |                  |                     | X                    |                                   |                       | CDFW, DGS, and/or Contractor | Before construction   |   |

| Mitigation Measure Title | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|                          |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
|                          | <p>hazards within the project sites and identification of nearby sensitive receptors. The assessment will determine whether hazards and hazardous materials are present and, if so, their potential impact on workers and nearby sensitive receptors. The analysis will also include recommendations to reduce potential risks from identified hazards and hazardous materials. CDFW will implement recommendations provided in the Phase 1 Environmental Site Assessment and comply with all applicable regulations. Compliance with these regulations will include preparation of a hazardous materials business plan, which would include a training program for employees and an emergency plan (Cal EMA 2012). CDFW will implement applicable provisions of the EPA, OSHA, Cal/OSHA, Cal/EPA, Cal EMA, and CUPA permitting processes, and any applicable county general plan</p> |                                      |                  |                     | X                    |                                   |                       |                    |                       |   |

| Mitigation Measure Title | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|                          |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
|                          | policies. Should the site have unmitigatable hazardous conditions, or mitigation is not feasible, CDFW shall choose an alternate site. |                                      |                  |                     | X                    |                                   |                       |                    |                       |   |

| Mitigation Measure Title   | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|  |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
| HAZ-RECREATION-3:<br>Research and Consult Applicable Comprehensive Airport Land Use Plans before Construction Activities | <p>As stated in the California Code of Regulations, Title 14, Division 6, Chapter 3, Section 15154, CDFW shall ensure that the design and construction will comply with all applicable comprehensive airport land use plans within which boundaries the Project falls.</p> <p>If a comprehensive airport land use plan has not been adopted for a project within 2 nautical miles of a public airport or public-use airport, the Airport Land Use Planning Handbook published by the California Department of Transportation's Division of Aeronautics (Caltrans 2011) will serve as the guide for the design and construction of the Proposed Project with regard to potential airport-related safety hazards and noise problems.</p> |                                      |                  |                     |                      |                                   | X                     | CDFW               | During design         |   |
| HYD-CONSTRUCT-6:<br>Perform Flood Analysis and Conform to  | Prior to finalizing the SCARF design, CDFW will conduct an analysis of pre- and post-  | X                                    |                  |                     |                      |                                   |                       | CDFW and DGS       | During design         |   |

| Mitigation Measure Title        | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|                                 |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
| Standards in Fresno County Code | project flood conditions in the SCARF area. The analysis will include an assessment of the potential change in velocity, floodplain storage and Base Flood Elevation (BFE) for the pre- and post-project conditions. If the analysis determines that the SCARF would significantly decrease floodplain storage or result in a significant increase in the BFE, velocity, or cause erosion, then measures will be designed and implemented to reduce these potential effects to an acceptable level. This could include bank stabilization measures at erosional locations, development of increased floodplain storage, redesign to avoid increases in the BFE, etc. As a performance standard, the design and construction shall conform to the standards contained in the most current version of Fresno County Code Chapter 15.48; such standards are considered | X                                    |                  |                     |                      |                                   |                       |                    |                       |   |

| Mitigation Measure Title                                 | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party     | Implementation Timing | Verification Sign-off (initials and date) |
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|  |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                        |                       |   |
|  | by CDFW to reduce this impact to a less-than-significant level.   | X                                    |                  |                     |                      |                                   |                       |                        |                       |   |
| LU-MANAGEMENT 1: Ensure Consistency of Land Use          | As part of the design for removal or relocation of the two fish weirs, DGS, CDFW or the contractor shall investigate land uses at and adjacent to potential sites, along with relevant plans, policies and regulations. The weirs, fish traps and other equipment shall not be sited in locations that create land use incompatibilities.           |                                      |                  |                     | X                    |                                   |                       | CDFW and/or Contractor | During design         |   |
| LU-RECREATION-2: Avoid Locations with Land Use Conflicts | As part of the selection of recreational enhancement sites, CDFW shall investigate land uses at and adjacent to potential sites, along with relevant plans, policies and regulations. CDFW will choose locations for enhancement of recreational fishing that would not conflict with existing or planned land uses and/or local land use policies. |                                      |                  |                     |                      |                                   | X                     | CDFW and/or Contractor | During design         |   |

| Mitigation Measure Title   | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party  | Implementation Timing          | Verification Sign-off (initials and date) |
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|  |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                     |                                |   |
| NOISE-OP-1: Implement Noise Control Measures to Reduce Noise Generated by Mechanical Equipment | To reduce potential noise impacts from mechanical equipment, CDFW shall locate mechanical rooftop equipment for HVAC and refrigeration units as far from residential homes as possible. If such functioning rooftop equipment were unavoidably as close as 150 feet to the nearest sensitive receptor, then equipment will be selected that features lower-speed rotating components (e.g., fans, pumps, compressors), factory-approved acoustically-insulated housings or enclosures, and other typical means of noise control or sound abatement so that its resulting sound pressure level at a distance of 150 feet does not exceed the Fresno County threshold of 45 dBA L50 as shown in Table 14-2 in the DEIR. |                                      | X                |                     |                      |                                   |                       | DGS                 | During design                  |   |
| NOISE-MANAGEMENT-1: Implement Noise Control Measures for Construction Activities               | Before engaging in noise-generating activity associated with the construction of weirs, structural modification of the  |                                      |                  |                     | X                    |                                   |                       | CDFW and Contractor | Before and during construction |   |

| Mitigation Measure Title | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|                          |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
|                          | <p>Hill's Ferry Barrier, or other construction activity, CDFW will evaluate how close sensitive receptors are located to the construction site, and whether the construction activity would exceed applicable noise thresholds. This evaluation will utilize the same FTA-based general assessment methodology that was used to predict the noise that would be generated during SCARF construction. Should the noise levels be anticipated to exceed the threshold for any sensitive receptors, CDFW will implement specific noise control measures to mitigate impacts associated with construction. These measures may include but are not limited to the following:</p> <ol style="list-style-type: none"> <li>a. Best available noise control techniques (including factory-approved mufflers, intake silencers, ducts, engine enclosures, and acoustically attenuating shields or shrouds) will be</li> </ol> |                                      |                  |                     | X                    |                                   |                       |                    |                       |   |

| Mitigation Measure Title | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|                          |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
|                          | <p>used for all equipment and trucks to minimize construction noise impacts.</p> <p>b. If impact equipment (e.g., concrete/rock breaker, rock drill) is used during project construction, hydraulic- or electric-powered equipment will be used to avoid the noise associated with compressed-air exhaust from pneumatically powered tools. However, where use of pneumatically powered tools is unavoidable, an exhaust muffler on the compressed-air exhaust will be used (a muffler can lower noise levels from the exhaust by up to 10 dBA). External jackets on the tools themselves will be used, which could achieve a reduction of 5 dBA. Where considered practical, quieter procedure alternatives, such as drilling or vibratory methods, will be used</p> |                                      |                  |                     | X                    |                                   |                       |                    |                       |   |

| Mitigation Measure Title | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|                          |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                       |   |
|                          | <p>instead of impact equipment.</p> <p>c. Stationary noise sources will be located away from sensitive receptors. If the sources must be located near sensitive receptors, adequate sound abatement (with enclosures and mufflers, where appropriate) will be used to ensure performance standards are met. Enclosure openings or vents will face away from sensitive receptors. If any stationary equipment (e.g., pumps, ventilation fans, generators) is operated beyond the ordinance time limits, this equipment will conform to the affected jurisdiction's noise limits.</p> <p>In addition, CDFW will designate a project liaison to be responsible for responding to noise complaints during construction. The name and phone number of the liaison will be conspicuously posted at</p> |                                      |                  |                     | X                    |                                   |                       |                    |                       |   |

| Mitigation Measure Title                                | Mitigation Measure Description  | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing          | Verification Sign-off (initials and date) |
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|   |   | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                                |   |
|   | construction areas and on all advanced notifications. The liaison will take steps to resolve complaints, including the arrangement of periodic noise monitoring, if necessary. Results of noise monitoring will be presented at regular project meetings with the project contractor, and the liaison will coordinate with the contractor to modify any construction activities that generate excessive noise levels. |                                      |                  |                     | X                    |                                   |                       |                    |                                |   |
| REC-CONSTRUCT-1a: Reroute the Trail during Construction | CDFW will coordinate construction activities with the San Joaquin River Conservancy to minimize to the extent and duration of rerouting of the newly built San Joaquin Hatchery Public Access and Trail during construction of the SCARF.   | X                                    |                  |                     |                      |                                   |                       | CDFW               | Before and during construction |   |

| Mitigation Measure Title  | Mitigation Measure Description   | Applicable Activity (X = applicable) |                  |                     |                      |                                   |                       | Implementing Party | Implementation Timing  | Verification Sign-off (initials and date) |
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|   |  | SCARF Construction                   | SCARF Operations | Fish Reintroduction | Fisheries Management | Fisheries Research and Monitoring | Recreation Management |                    |                        |   |
| REC-CONSTRUCT-1b:<br>Provide Signage during Construction              | CDFW or its contractor shall provide signage during construction of the SCARF to notify those using the San Joaquin Hatchery Public Access and Trail of trail and access disruptions.                                | X                                    |                  |                     |                      |                                   |                       | CDFW               | During construction    |   |
| REC-CONSTRUCT-1c:<br>Rebuild the Trail if Damaged during Construction | If the San Joaquin Hatchery Public Access and Trail becomes damaged during construction of the SCARF, CDFW or its contractor shall re-construct damaged trail and public access points within 2 years of the damage. | X                                    |                  |                     |                      |                                   |                       | CDFW or Contractor | Following construction |   |

## MITIGATION MEASURES, ARRANGED BY ACTIVITY

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| SCARF Construction Mitigation Measure Title   | Mitigation Measure Description   | Implementing Party   | Implementation Timing         | Verification Sign-off (initials and date) |
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| AES-CONSTRUCT-3a: Materials and Colors Used in Construction of SCARF Facilities Shall be Compatible with the Surrounding Built and Natural Environments | Department of General Services (DGS), CDFW or the construction contractor shall select materials and colors of the facilities to be compatible with the surrounding developed and natural environments.  | DGS (if during design); DGS, CDFW and/or Contractor (if during construction) | During design or construction |   |
| AES-CONSTRUCT-3b: Landscaping of SCARF Facilities Shall Consist of Native Vegetation  | CDFW or the construction contractor shall use native plants for landscaping in a manner consistent with Mitigation Measure BIO-CONSTRUCT-11a (Minimize Area of Disturbance of Riparian Habitat) and with Mitigation Measure BIO-CONSTRUCT-11b (Develop and Implement Revegetation Plan for Riparian Habitat Disturbed by Construction).  | DGS (if during design); DGS, CDFW and/or Contractor (if during construction) | During design or construction |   |
| AES-CONSTRUCT-3c: Pipelines and Utilities Serving SCARF Facilities Shall be Installed Underground   | DGS, CDFW or the construction contractor shall install pipelines and utilities underground, to the extent feasible.  | DGS  | During design                 |   |
| AES-CONSTRUCT-4: Exterior Construction Security Lighting Shall Be Hooded and Directed Downward  | CDFW shall ensure that exterior construction security lighting is hooded and directed downward toward the SCARF, and away from adjacent properties.  | DGS (if during design); DGS, CDFW and/or Contractor (if during construction) | During design or construction |   |
| FISH-CONSTRUCT-4a: Relocate Special-Status Fish Species Outside of the Work Area  | Prior to commencing instream construction, a barrier will be constructed around the affected area and qualified fisheries biologists shall survey the enclosure by making a minimum of three passes by electrofishing, using protocols developed by NMFS (2000). All fish captured, including special-status species, will be placed into a suitable holding container of cool, aerated stream water and then relocated to a suitable location near the construction area. Construction in the side channel will occur when it is dry or has low flow to the extent feasible; water in the work area will be diverted using coffer dams or similar structures. | CDFW and/or Contractor   | During construction           |   |

| SCARF Construction Mitigation Measure Title                                | Mitigation Measure Description  | Implementing Party     | Implementation Timing | Verification Sign-off (initials and date) |
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| FISH-CONSTRUCT-4b: Monitor and Maintain Fish Enclosure                     | The fish exclusion structure will remain in place during all instream construction activities and will be monitored daily during instream construction to ensure that it is effectively excluding fish. If the fisheries biologist determines that the enclosure has been compromised, instream construction will be stopped until the biologist has repeated <b>Mitigation Measure FISH-CONSTRUCT-4a</b> and the enclosure has been repaired and is deemed effective.  | CDFW and/or Contractor | During construction   |   |
| BIO-CONSTRUCT-1a: Perform Focused Surveys for Special-Status Plant Species | Within one year prior to commencement of ground disturbing activities, a qualified CDFW botanist will perform surveys for special-status plant species with the potential to occur at the SCARF site. Floristic surveys will be performed according to the Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities (CDFG 2009 or current version). Floristic surveys will include the use of a reference population to increase the likelihood of detection, and will be performed during the appropriate bloom period(s) for each species. If special-status plants are detected within the construction zone or within a 100-foot radius of the construction zone, CDFW will implement <b>Mitigation Measure BIO-CONSTRUCT-1b</b> . | CDFW                   | Before construction   |   |

| SCARF Construction Mitigation Measure Title   | Mitigation Measure Description  | Implementing Party            | Implementation Timing      | Verification Sign-off (initials and date) |
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| <p>BIO-CONSTRUCT-1b:<br/>Avoid or Minimize Impacts to Special-Status Plant Species</p>              | <p>If special-status plants are detected within the construction zone or within a 100-foot radius of the construction zone, CDFW will adjust the construction footprint or establish exclusion fencing to avoid impacts to the plants. Locations of special-status plant populations will be clearly identified in the field by staking, flagging, or fencing a minimum 100-foot wide buffer around them prior to the commencement of activities that may cause disturbance. No activity will occur within the buffer area.</p> <p>If avoidance is not feasible, then CDFW will implement measures to minimize the impact to the species. Minimization measures may include transplanting perennial species, seed collection and dispersal for annual species, and other conservation strategies that will protect the viability of the local population. If minimization measures are implemented, monitoring of plant populations will be conducted annually for 5 years to assess the mitigation’s effectiveness. The performance standard for the mitigation will be no net reduction in the size or viability of the local population.</p> | <p>CDFW and/or Contractor</p> | <p>During construction</p> |   |
| <p>BIO-CONSTRUCT-2a:<br/>Perform 2 Years of Surveys for Special Status Vernal Pool Branchiopods</p> | <p>Prior to implementation of construction activities, CDFW biologists will perform surveys for special-status vernal pool branchiopods species in seasonally ponded depression with the potential to be impacted by construction of the SCARF. Surveys will be performed according to the Interim Survey Guidelines to Permittees for Recovery Permits under Section 10(a)(1)(A) of the Endangered Species Act for the Listed Vernal Pool Branchiopods (USFWS 1996 or current version).</p>  | <p>CDFW</p>                   | <p>Before construction</p> |   |

| SCARF Construction Mitigation Measure Title   | Mitigation Measure Description  | Implementing Party        | Implementation Timing                 | Verification Sign-off (initials and date) |
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| <p>BIO-CONSTRUCT-2b:<br/>Avoid Impacts to Suitable Vernal Pool Branchiopods Habitat</p> | <p>The Proposed Project will be designed to avoid impacts to suitable vernal pool branchiopods' habitat. Such avoidance measures may include adjusting roadway and pipeline alignments, minimizing the footprint of borrow sites, and locating staging/stockpile areas outside of suitable habitat.</p> <p>If vernal pools are present, a 250-foot no disturbance buffer will be established from the high water mark of the vernal pools and seasonal wetlands that provide suitable habitat for vernal pool crustaceans. Wetland habitat will be delineated by staking, flagging or fencing. This buffer will be established prior to ground-disturbing activities, and it will remain until ground-disturbing activities in that area are completed.</p> | <p>DGS and Contractor</p> | <p>During design and construction</p> |   |

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| <p>BIO-CONSTRUCT-2c:<br/>Replace Vernal Pool Branchiopod Habitat</p> | <p>If occupied vernal pool branchiopods habitat cannot be avoided, CDFW will first identify if there are potential wetland mitigation opportunities on-site and will preferentially conserve, restore, or construct new wetland habitat at this location. If habitat cannot be restored on-site or in the immediate vicinity of the disturbance location, replacement at a nearby off-site location will be provided. The replacement of habitat will be equivalent to the nature of the habitat lost, and will be provided at a suitable ratio to ensure that, at a minimum, there is no net loss of habitat acreage or value. The replacement habitat will be set aside in perpetuity for habitat use. Mitigation ratios to achieve the “no net loss” standard will be determined in consultation with the USFWS.</p> <p>If off-site compensation includes dedication of conservation easements, purchase of mitigation credits or other off-site conservation measures, the details of these measures will be developed through consultation with USFWS. The plan will include information on responsible parties for long-term management, holders of conservation easements, long-term management requirements, and other details, as appropriate, for the preservation of long-term viable populations. Any impacts that result in a compensation purchase will be required to do so with an endowment for land management in perpetuity prior to any project groundbreaking activities.</p> | <p>CDFW</p>        | <p>Prior to any construction with potential to adversely affect vernal pool branchiopod habitat</p> |   |

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| <p>BIO-CONSTRUCT-3a:<br/>Conduct Protocol-Level Surveys for California Tiger Salamander</p>       | <p>CDFW will conduct a minimum of 2 years of surveys to determine the presence/absence of CTS at the SCARF site. Surveys will be conducted in accordance with the Interim Guidance on Site Assessment and Field Surveys for Determining Presence or a Negative Finding of the California Tiger Salamander (USFWS 2003). In consultation with the USFWS, CDFW may modify survey protocols to reflect site conditions and potential utilization of habitat by CTS. If protocol surveys result in negative findings of CTS for 2 consecutive years, then <b>Mitigation Measure BIO-CONSTRUCT-3c</b> would not be implemented.</p> | <p>CDFW</p>                   | <p>Before construction</p>            |   |
| <p>BIO-CONSTRUCT-3b:<br/>Avoid Impacts to Suitable Upland California Tiger Salamander.</p>        | <p>To the extent feasible, the Proposed Project will be designed to avoid impacts to suitable upland CTS habitat. Such avoidance measures may include adjusting roadway and pipeline alignments, minimizing the footprint of borrow sites, and locating staging/stockpile areas outside of suitable upland habitat.</p>  | <p>DGS</p>                    | <p>During design</p>                  |   |
| <p>BIO-CONSTRUCT-3c:<br/>Minimize Construction-related Impacts to California Tiger Salamander</p> | <p>If CTS are detected during protocol surveys conducted under <b>Mitigation Measure BIO-CONSTRUCT-3a</b>, or in the absence of conducting 2 years of protocol-level surveys, CDFW will implement the following actions during construction to minimize potential impacts to CTS.</p> <ul style="list-style-type: none"> <li>• Prior to commencing ground disturbing activities, construction workers will be educated regarding CTS and the measures intended to protect this species.</li> <li>• When feasible, there will be a 50-foot no-disturbance buffer</li> </ul>   | <p>CDFW and/or Contractor</p> | <p>Before and during construction</p> |   |

| SCARF Construction Mitigation Measure Title | Mitigation Measure Description   | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|   | <p>around burrows that provide suitable upland habitat for CTS. Burrows considered suitable for CTS will be identified by a qualified CDFW biologist. The biologist will delineate and mark the no-disturbance buffer.</p> <ul style="list-style-type: none"> <li>• All suitable burrows directly impacted by construction will be hand excavated under the supervision of a qualified wildlife biologist. If CTS are found, the biologist will relocate the organism to the nearest burrow that is outside of the construction impact area.</li> <li>• All ground-disturbing work will occur during daylight hours. In coordination with USFWS, and depending on the level of rainfall and site conditions. CDFW will monitor the National Weather Service 72-hour forecast for the work area. If a 70% or greater chance of rainfall is predicted within 72 hours of project activity, all activities in areas within 1.3 miles of potential or known CTS breeding sites will cease until no further rain is forecast. If work must continue when rain is forecast, a qualified biologist will survey the project site before construction begins each day rain is forecast. If rain exceeds 0.25 inch during a 24 hour period, work will cease until no further rain is forecast. This restriction is not applicable for areas located greater than 1.3 miles from potential or known CTS breeding sites once they have been encircled with CTS exclusion fencing. However, even after exclusion fencing is installed, this condition would still apply to construction related traffic moving through</li> </ul> |                    |                       |   |

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|   | <p>areas within 1.3 miles of potential or known CTS breeding sites but outside of the salamander exclusion fencing (e.g. on roads).</p> <ul style="list-style-type: none"> <li>• For work conducted during the CTS migration season (November 1 to May 31), exclusionary fencing will be erected around the construction site during ground disturbing activities after hand excavation of burrows has been completed. A biological monitor will visit the site weekly to ensure that the fencing is in good working condition. Fencing material and design will be subject to the approval of USFWS. If exclusionary fencing is not used, a qualified biological monitor will be on-site during all ground disturbance activities. Exclusion fencing will also be placed around all spoils and stockpiles.</li> <li>• For work conducted during the CTS migration season (November 1 to May 31), a qualified biologist will survey the active work areas (including access roads) in mornings following measurable precipitation events. Construction may commence once the biologist has confirmed that no CTS are in the work area.</li> <li>• Prior to beginning work each day, underneath equipment and stored pipes greater than 1.2 inches in diameter will be inspected for CTS. If any are found they will be allowed to move out of the construction area under their own accord.</li> </ul> |                    |                       |   |

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|   | <ul style="list-style-type: none"> <li>• Trenches and holes will be covered and inspected daily for stranded animals. Trenches and holes deeper than 1 foot will contain escape ramps (maximum slope of 2:1) to allow trapped animals to escape uncovered holes or trenches. Holes and trenches will be inspected prior to filling.</li> <li>• All food and food-related trash will be enclosed in sealed trash containers at the end of each workday and removed completely from the construction site once every three days to avoid attracting wildlife.</li> <li>• A speed limit of 15 mph will be maintained on dirt roads.</li> <li>• All equipment will be maintained such that there are no leaks of automotive fluids such as fuels, oils, and solvents. Any fuel or oil leaks will be cleaned up immediately and disposed of properly.</li> <li>• Plastic monofilament netting (erosion control matting) or similar material will not be used at the project site because CTS may become entangled or trapped. Acceptable substitutes include coconut coir matting or tackified hydroseeding compounds.</li> </ul> <p>Hazardous materials such as fuels, oils, solvents, etc. will be stored in sealable containers in a designated location that is at least 100 feet from wetlands and the San Joaquin River channel. If it is not feasible to store hazardous materials 100 feet from wetlands and the river channel, then spill containment measures will be</p> |                    |                       |   |

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|   | <p>implemented to prevent the possibility of accidental discharges to wetlands and waters.</p>  |                               |                                       |   |
| <p>BIO-CONSTRUCT-3d: Minimize Construction-related Impacts to Western Spadefoot</p> | <ul style="list-style-type: none"> <li>• Prior to commencing ground disturbing activities, construction workers will be educated regarding western spadefoot, and the measures intended to protect these species.</li> <li>• For work conducted during the western spadefoot toad migration and breeding season (November 1 to May 31), a qualified biologist will survey the active work areas (including access roads) in mornings following measurable precipitation events. Construction may commence once the biologist has confirmed that no spadefoot toads are in the work area.</li> <li>• When feasible, there will be a 50-foot no-disturbance buffer around burrows that provide suitable upland habitat for western spadefoot toad. Burrows considered suitable for spadefoot will be identified by a qualified CDFW biologist. The biologist will delineate and mark the no-disturbance buffer.</li> <li>• If western spadefoot is toad is found within the construction footprint, it will be allowed to move out of harm's way of its own volition or a qualified biologist will relocate the organism to the nearest burrow that is outside of the construction impact area.</li> <li>• Prior to beginning work each day, underneath equipment and stored pipes greater than 1.2 inches (3 cm) in diameter will</li> </ul> | <p>CDFW and/or Contractor</p> | <p>Before and during construction</p> |   |

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|   | <p>be inspected for western spadefoot toad. If any are found, they will be allowed to move out of the construction area under their own accord.</p> <p>Trenches and holes will be covered and inspected daily for stranded animals. Trenches and holes deeper than 1 foot will contain escape ramps (maximum slope of 2:1) to allow trapped animals to escape uncovered holes or trenches. Holes and trenches will be inspected prior to filling.</p> |                    |                       |   |

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| <p>BIO-CONSTRUCT-4: Implement Pre-construction Surveys and Minimization Measures for Western Pond Turtle</p> | <p>Pre-construction surveys for WPT will be conducted by a qualified biologist 14 days before and 24 hours before the start of construction activities where suitable habitat exists (i.e., along riparian areas, ponds and freshwater emergent wetlands). If WPT or their nests are observed during pre-construction surveys, the following measures will be implemented:</p> <ul style="list-style-type: none"> <li>• A qualified biologist will be on site to monitor construction in suitable WPT habitat. WPT found within the construction area will be allowed to leave on its own volition or it will be captured by the qualified biologist and relocated out of harm's way to the nearest suitable habitat immediately upstream or downstream from the project site.</li> </ul> <p>If WPT nests are identified in the work area during pre-construction surveys, a 300-foot no-disturbance buffer will be established between the nest and any areas of potential disturbance. Buffers will be clearly marked with temporary fencing. Construction will not be allowed to commence in the exclusion area until hatchlings have emerged from the nest, or the nest is deemed inactive by a qualified biologist.</p> | <p>CDFW and/or Contractor</p> | <p>Before and during construction</p> |   |
| <p>BIO-CONSTRUCT-5: Implement Pre-construction Surveys and Minimization Measures for Burrowing Owls</p>      | <p>Prior to initiating ground-disturbing activities, CDFW will conduct surveys for burrowing owls in accordance with protocols established in the Staff Report on Burrowing Owl Mitigation (CDFG 2012 or current version). If ground-disturbing activities are delayed or suspended for more than 30 days after the pre-construction survey, the site will be resurveyed. If</p>   | <p>CDFW and/or Contractor</p> | <p>Before and during construction</p> |   |

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|   | <p>burrowing owls are detected, disturbance to burrows will be avoided during the nesting season (February 1 through August 31). CDFW will establish buffers around occupied burrows in accordance with guidance provided in the Staff Report on Burrowing Owl Mitigation, and at the discretion of the qualified CDFW wildlife biologist. Buffers around occupied burrows will be a minimum of 656 feet during the breeding season, and 160 feet during the non-breeding season.</p> <p>Outside of the nesting season (February 1 through August 31), passive owl relocation techniques will be implemented. Owls would be excluded from burrows within 160 feet of construction by installing one-way doors in burrow entrances. The work area will be monitored daily for 1 week to confirm owl departure from burrows prior to any ground-disturbing activities. Where possible burrows will be excavated using hand tools and refilled to prevent reoccupation. Sections of flexible plastic pipe will be inserted into the tunnels during excavation to maintain an escape route for any animals inside the burrow.</p> <p>If occupied burrows cannot be avoided during the non-breeding season, CDFW will enhance or create burrows in adjacent habitat at a 1:1 ratio (burrows destroyed to burrows enhanced or created) one week prior to implementation of passive relocation techniques. If burrowing owl habitat enhancement or creation takes place, CDFW will develop and implement a monitoring and management plan to assess the effectiveness of the mitigation.</p> |                    |                       |   |

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| <p>BIO-CONSTRUCT-6a: Implement Pre-construction Surveys and Minimization Measures for Bald Eagle and Golden Eagle</p> | <p>Surveys for bald and golden eagle nests will be conducted within 2 miles of any construction area supporting suitable nesting habitat and important eagle roost sites and foraging areas. Surveys will be conducted in accordance with the USFWS Interim Golden Eagle Inventory and Monitoring Protocols (USFWS 2010), and CDFW's Bald Eagle Breeding Survey Instructions (CDFG 2010), or current guidance.</p> <p>If an active eagle's nest is found, project disturbance will not occur within 0.5 mile of the active nest site during the breeding season (December 30 through July 1), or in any area that may disturb the nesting birds. The 0.5 mile no-disturbance buffer will be maintained throughout the breeding season or until the young have fledged and are no longer dependent upon the nest or parental care for survival.</p> | <p>CDFW and/or Contractor</p> | <p>Before and during construction</p> |   |

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| <p>BIO-CONSTRUCT-6b: Implement Pre-construction Surveys and Minimization Measures for Swainson’s Hawk and White-tailed Kite</p> | <p>If construction occurs between February 1 and August 31, CDFW will conduct surveys for nesting raptors, with a focus on Swainson’s hawk and white-tailed kite, in accordance with established CDFW raptor survey protocols (e.g., CDFG 2000, or current guidance). Surveys will cover a minimum of a 0.5-mile radius around the construction area. If nesting raptors are detected, CDFW will establish buffers around nests that are sufficient to ensure that breeding is not likely to be disrupted or adversely impacted by construction. Buffers will be maintained until a qualified CDFW biologist has determined that young have fledged and are no longer reliant upon the nest or parental care for survival.</p> <p>If potential nesting trees are to be removed during construction activities, removal will take place outside of Swainson’s hawk nesting season and CDFW will develop a plan to replace known Swainson’s hawk nest trees at a ratio of 3:1. If replacement planting is implemented, monitoring will be conducted annually for 5 years to assess the mitigation’s effectiveness. The performance standard for the mitigation will be 65% survival of all replacement plantings.</p> | <p>CDFW and/or Contractor</p> | <p>Before and during construction</p> |   |

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| <p>BIO-CONSTRUCT-6c: Implement Pre-construction Surveys and Minimization Measures for Non-listed Raptors</p> | <p>If construction occurs between February 1 and August 31, CDFW will conduct surveys for nesting raptors in accordance with established CDFW raptor survey protocols. Surveys will cover a minimum of a 0.5-mile radius around the construction area. If nesting raptors are detected, CDFW will establish buffers around nests that are sufficient to ensure that breeding is not likely to be disrupted or adversely impacted by construction. Buffers around active raptor nests will be 500 feet for non-listed raptors, unless a qualified biologist determines that smaller buffers would be sufficient to avoid impacts to nesting raptors. Factors to be considered for determining buffer size will include: the presence of natural buffers provided by vegetation or topography; nest height; locations of foraging territory; and baseline levels of noise and human activity. Buffers will be maintained until a qualified CDFW biologist has determined that young have fledged and are no longer reliant upon the nest or parental care for survival. If potential nesting trees are to be removed during construction activities, removal will take place outside of the raptor nesting season and CDFW will develop a plan to replace known nest trees at a ratio of 3:1. If replacement planting is implemented, monitoring will be conducted annually for 5 years to assess the mitigation's effectiveness. The performance standard for the mitigation will be 65% survival of all replacement plantings.</p> | <p>CDFW and/or Contractor)</p> | <p>Before and during construction</p> |   |

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| <p>BIO-CONSTRUCT-7a: Implement Pre-construction Surveys and Minimization Measures for Special-Status Passerine Species</p> | <p>If construction begins between February 1 and August 31, CDFW will conduct surveys for special-status birds within a 1,000-ft radius of the construction area. Surveys will be conducted by biologists adhering to guidance offered in Western Yellow-billed Cuckoo Natural History Summary and Survey Methodology (Halterman et al. 2009); Least Bell’s Vireo Survey Guidelines (USFWS 2001); and/or A Survey Protocol for Willow Flycatcher in California (Bombay et al. 2003). If nests are detected, CDFW will establish buffers around nests that are sufficient to ensure that breeding is not likely to be disrupted or adversely impacted by construction. No-disturbance buffers around active nests will be a minimum of 500 feet, unless a qualified CDFW biologist determines that smaller buffers would be sufficient to avoid impacts to nesting birds. Factors to be considered for determining buffer size will include: the presence of natural buffers provided by vegetation or topography; nest height; locations of foraging territory; and baseline levels of noise and human activity. Buffers will be maintained until a qualified CDFW biologist has determined that young have fledged and are no longer reliant upon the nest or parental care for survival.</p> | <p>CDFW and/or Contractor</p> | <p>Before and during construction</p> |   |

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| <p>BIO-CONSTRUCT-7b:<br/>Implement Pre-construction Surveys for Birds Protected under the MBTA</p> | <p>Whenever possible, impacts to native nesting birds will be avoided by not conducting project activities that involve clearing of vegetation, generation of mechanical noise, or ground disturbance during the typical breeding season (February 1 to September 1), if species covered under the Migratory Bird Treaty Act and Fish and Game Code sections 3503, 3503.5, and/or 3513 are determined to be present.</p> <p>If construction begins between February 1 and August 31, CDFW will conduct surveys for nesting birds within a 1,000-ft radius of the construction area. If nests are detected, CDFW will establish buffers around nests that are sufficient to ensure that breeding is not likely to be disrupted or adversely impacted by construction. Buffers around active nests will be a minimum of 250 feet, unless a qualified CDFW biologist determines that smaller buffers would be sufficient to avoid impacts to nesting birds. Factors to be considered for determining buffer size will include: the presence of natural buffers provided by vegetation or topography; nest height; locations of foraging territory; and baseline levels of noise and human activity. Buffers will be maintained until young have fledged or the nests become inactive.</p> | <p>CDFW and/or Contractor</p> | <p>Before and during construction</p> |   |

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| <p>BIO-CONSTRUCT-8a:<br/>                     Conduct Pre-construction Surveys for Bat Species</p> | <p>No less than 7 days and no more than 14 days prior to the beginning of ground disturbance and/or construction activities, a qualified CDFW wildlife biologist, or wildlife biologist approved by CDFW, will conduct surveys for special-status bats during the appropriate time of day to maximize detectability to determine if bat species are roosting near the work area. Survey methodology may include visual surveys of bats (observation of presence of bats during foraging period), inspection for suitable habitat or bat sign (guano), or use of ultrasonic detectors (Anabat, etc.). Visual surveys may consist of a daytime pedestrian survey looking for evidence of bat use (e.g., guano) and/or an evening emergence survey to note the presence or absence of bats and will include trees within 0.25 mile of project construction activities. The type of survey will depend on the condition of the potential roosting habitat. If no bat roosts are found, then no further study is required. If evidence of bat use is observed, the number and species of bats using the roost will be determined.</p> | <p>CDFW and/or Contractor</p> | <p>Before and during construction</p> |   |

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| <p>BIO-CONSTRUCT-8b:<br/>Avoid and Minimize Impacts to Roosting/Breeding Sites</p> | <p>CDFW will avoid disturbance to roosts to the greatest extent feasible. If roosts must be removed, the bats will be excluded from the roosting site before it is removed. A mitigation program addressing compensation, exclusion methods, and roost removal procedures will be developed prior to implementation. Exclusion methods may include use of one-way doors at roost entrances (bats may leave, but not reenter), or sealing roost entrances when a site can be confirmed to contain no bats. Exclusion efforts may be restricted during periods of sensitive activity (e.g., during hibernation or while females in maternity colonies are nursing young).</p>  | <p>CDFW and/or Contractor</p> | <p>Before and during construction</p> |   |
| <p>BIO-CONSTRUCT-8c:<br/>Replace Bat Roosting/Breeding Sites</p>                   | <p>If roosts cannot be avoided or it is determined that construction activities may cause roost abandonment, such activities may not commence until permanent, elevated bat houses have been installed outside of, but near the construction area. Placement and height will be determined by a qualified CDFW wildlife biologist, but the height of bat house will be at least 15 feet. Bat houses will be multi-chambered and be purchased or constructed in accordance with CDFW standards. The number of bat houses required will be dependent upon the size and number of colonies found, but at least one bat house will be installed for each pair of bats (if occurring individually), or of sufficient number to accommodate each colony of bats to be relocated.</p> | <p>CDFW and/or Contractor</p> | <p>Before and during construction</p> |   |

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| <p>BIO-CONSTRUCT-9:<br/>Conduct Pre-construction Surveys and Minimization Measures for American Badger</p>      | <p>No less than 14 days and no more than 30 days prior to the beginning of ground disturbance and/or construction activities, CDFW will conduct a survey to determine if American badger den sites are present at the SCARF site. If dens are found, they will be monitored for badger activity. If CDFW determines that dens may be active, the entrances of the dens will be blocked with soil, sticks, and debris for three to five days to discourage the use of these dens prior to project disturbance activities. The den entrances will be blocked to an incrementally greater degree over the three to five-day period. After the qualified CDFW biologist determines that badgers have stopped using active dens, the dens will be hand-excavated with a shovel to prevent re-use during construction. No disturbance of active dens will take place when cubs may be present and dependent on parental care, as determined by a qualified CDFW biologist.</p> | <p>CDFW and/or Contractor</p> | <p>Before construction in locations with potential to affect badgers</p>             |   |
| <p>BIO-CONSTRUCT-10:<br/>Conduct Pre-construction Surveys and Minimization Measures for San Joaquin Kit Fox</p> | <p>A qualified biologist will conduct pre-construction surveys no less than 14 days and no more than 30 days before the commencement of construction activities to identify potential dens more than 5 inches in diameter. CDFW will implement USFWS Standardized Recommendations for Protection of San Joaquin Kit Fox Prior to or During Ground Disturbance (USFWS 1999, 2011). CDFW will notify USFWS in writing of the results of the pre-construction survey within 30 days after these activities are completed.</p> <p>If potential dens are located within the proposed work area and cannot be avoided during construction activities, a USFWS-</p>   | <p>CDFW and/or Contractor</p> | <p>Before construction in locations with potential to affect San Joaquin Kit Fox</p> |   |

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|   | <p>approved biologist will determine if the dens are occupied. If occupied dens are present within the proposed work area, they will be avoided through the use of exclusion zones following the most current USFWS procedures (currently USFWS 1999, 2011). Furthermore, CDFW will notify USFWS immediately if a natal or pupping den is found in the survey area, and will present the results of pre-activity den searches within 5 days after these activities are completed and before the start of construction activities in the area. CDFW, in coordination with USFWS, will determine if SJKF den removal is appropriate. If unoccupied dens need to be removed, the USFWS-approved biologist will remove these dens by hand-excavating them in accordance with USFWS procedures (USFWS 1999, 2011).</p> <p>Additional conservation measures will be coordinated between USFWS and CDFW, and may include replacing dens, installing off-site artificial dens, acquiring compensatory habitat, or other conservation options. Compensation may include dedicating conservation easements, purchasing mitigation credits, or other off-site conservation measures, and the details of these measures will be included in the mitigation plan and must occur with full endowments for management in perpetuity. The plan will include information on responsible parties for long-term management, holders of conservations easements, long-term management requirements, and other details, as appropriate, for the preservation of long-term viable SJKF populations. If conservation measures are</p> |                    |                       |   |

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|  | <p>implemented, CDFW will monitor their performance annually for 5 years to assess the mitigation’s effectiveness. The performance standard for the mitigation will be no net reduction in the size or viability of the local SJKF population.</p>  |                                    |                                       |   |
| <p>BIO-CONSTRUCT-11a: Minimize Area of Disturbance of Riparian Habitat</p>                                       | <p>The disturbance or removal of vegetation will not exceed the minimum necessary to complete construction and will only occur within the defined work area.</p>  | <p>DGS and contractor</p>          | <p>During design and construction</p> |   |
| <p>BIO-CONSTRUCT-11b: Develop and Implement Revegetation Plan for Riparian Habitat Disturbed by Construction</p> | <p>CDFW will develop a revegetation plan for riparian habitat and sensitive natural communities disturbed by construction. All disturbed soils and new fill in riparian habitat or sensitive natural communities will be revegetated with site-appropriate native species. Any native vegetation 4 inches or greater DBH damaged or removed as result of construction activity will be replaced at a 3:1 ratio; this ratio will increase to 10:1 for native trees of 24 inches DBH and greater. Revegetation areas will be maintained and monitored to ensure a minimum of 65% survival of the plantings after 5 years.</p> | <p>CDFW, DGS and/or Contractor</p> | <p>During design and construction</p> |   |

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| <p>BIO-CONSTRUCT-12a:<br/>Obtain Regulatory Permits for Work Activities Taking Place in Wetlands and Waters of the United States and the State</p> | <p>Work within areas defined as waters of the U.S. that includes placement of fill will require a CWA Section 404 permit from the USACE and Section 401 Water Quality Certification from the RWQCB. All work proposed in jurisdictional waters of the U.S. will be authorized by permits from the USACE and RWQCB.</p> <p>In areas where project activities are temporary in nature, jurisdictional wetland and other waters of the U.S. will be restored to their condition prior to disturbance. In areas where permanent disturbance to jurisdictional waters or wetlands will occur, CDFW will first identify if potential mitigation sites are present within close proximity to the area of disturbance, and will construct new or restore degraded wetlands. If waters or wetlands cannot be restored on-site or in the immediate vicinity of the disturbance location, replacement at a nearby off-site location will be provided. The replacement of waters or wetlands will be equivalent to the nature of the habitat lost, and will be provided at a suitable ratio to ensure that, at a minimum, there is no net loss of habitat acreage or value. The replacement habitat will be set aside in perpetuity for habitat use. Mitigation ratios to achieve the “no net loss” standard will be determined in consultation with the USACE and RWQCB.</p> | <p>CDFW and/or Contractor</p> | <p>Before construction</p> |   |

| SCARF Construction Mitigation Measure Title  | Mitigation Measure Description  | Implementing Party           | Implementation Timing          | Verification Sign-off (initials and date) |
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| BIO-CONSTRUCT-12b: Avoidance of and Mitigation for Incidental Fill   | Incidental fill of wetland areas will be minimized wherever possible. Temporary construction fencing will be erected around wetlands areas to reduce the potential of incidental fill. Areas affected by construction will be restored to pre-construction contours and revegetated using a mix of native vegetation in accordance with <b>Mitigation Measure BIO-CONSTRUCT-11b.</b>  | CDFW, DGS, and/or Contractor | During design and construction |   |
| CR-CONSTRUCT-1a: Evaluate Cultural Resources for Eligibility for Inclusion in the CRHR, and Implement Appropriate Mitigation Measures for Eligible Resources | CDFW shall ensure that all cultural resources identified prior to or during construction of the various Proposed Project components will be evaluated for eligibility for inclusion in the CRHR. Where implementation of the Proposed Project necessitates ground disturbance at sites besides the SCARF (e.g., sites for recreational enhancements), a records search and pedestrian survey shall be conducted prior to construction. Resource evaluations will be conducted by individuals who meet the U.S. Secretary of Interior’s professional standards in archaeology and architectural history. If any of the resources that are identified during this evaluation meet the eligibility criteria identified in PRC section 5024.1, or PRC section 21083.2(g), CDFW will develop and implement mitigation measures according to CEQA Guidelines section 15126.4(b) before construction begins or resumes. For resources eligible for listing in the CRHR that would be rendered ineligible by the effects of project construction, CDFW shall implement mitigation measures. Mitigation measures for archaeological resources shall be selected from the following: avoidance; incorporation of sites within parks, greenspace, or other open space; capping the | CDFW and/or Contractor       | During design and construction |   |

| SCARF Construction Mitigation Measure Title | Mitigation Measure Description   | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|   | <p>site; deeding the site into a permanent conservation easement; or data recovery excavation. Mitigation measures for archaeological resources shall be developed in consultation with responsible agencies, including but not limited to the State Office of Historic Preservation and, as appropriate, interested parties such as Native American tribes. Mitigation measures for historic architectural resources shall be consistent with the U.S. Secretary of the Interior’s Standards for the Treatment of Historic Properties with Guidelines for Preserving, Rehabilitating, Restoring, and Reconstructing Historic Buildings. Implementation of the approved mitigation would be required before beginning/resuming any construction activities with potential to affect identified eligible resources at the site.</p> |                    |                       |   |

| SCARF Construction Mitigation Measure Title  | Mitigation Measure Description   | Implementing Party            | Implementation Timing      | Verification Sign-off (initials and date) |
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| <p>CR-CONSTRUCT-1b:<br/>Immediately Halt Construction if Cultural Resources are Discovered</p> | <p>Not all cultural resources are visible on the ground surface. If any cultural resources, such as structural features, unusual amounts of bone or shell, flaked or ground stone artifacts, historic-era artifacts, human remains, or architectural remains are encountered during any project construction activities, work shall be suspended immediately at the location of the find and within an appropriate radius of at least 50 feet. A qualified archaeologist shall conduct a field investigation of the specific site and recommend mitigation necessary for the protection or recovery of any cultural resource concluded by the archaeologist to represent a historical resource or unique archaeological resource.<br/><b>Mitigation Measure CR-CONSTRUCT-1a</b> would then be implemented.</p> | <p>CDFW and/or Contractor</p> | <p>During construction</p> |   |

| SCARF Construction Mitigation Measure Title  | Mitigation Measure Description   | Implementing Party            | Implementation Timing      | Verification Sign-off (initials and date) |
|--|--|-------------------------------|----------------------------|---|
| <p>CR-CONSTRUCT-3: Immediately Halt Construction if Human Remains are Discovered and Implement California Health and Safety Code</p> | <p>If human remains are accidentally discovered during the Proposed Project’s construction activities, the requirements of California Health and Human Safety Code section 7050.5 must be followed. Potentially damaging excavation must halt in the area of the remains, with a minimum radius of 50 feet, and the local County Coroner must be notified. The Coroner is required to examine all discoveries of human remains within 48 hours of receiving notice of a discovery on private or state lands (Health and Safety Code section 7050.5[b]). If the Coroner determines that the remains are those of a Native American, he or she must contact NAHC by phone within 24 hours of making that determination (Health and Safety Code section 7050[c]). Pursuant to the provisions of PRC section 5097.98, the NAHC shall identify a Most Likely Descendent (MLD). The MLD designated by the NAHC shall have at least 48 hours to inspect the site and propose treatment and disposition of the remains and any associated grave goods.</p> | <p>CDFW and/or Contractor</p> | <p>During construction</p> |   |
| <p>GEO-CONSTRUCT-1a: Implement Construction Best Management Practices to Minimize Erosion and the Loss of Topsoil</p>                | <p>CDFW, DGS, or their contractor(s) shall implement the following measures:</p> <ul style="list-style-type: none"> <li>• Implement practices to minimize the contact of construction materials, equipment, and maintenance supplies with storm water.</li> <li>• Limit fueling and other activities involving hazardous materials to use in designated areas only; provide drip pans under equipment and conduct</li> </ul>   | <p>Contractor</p>             | <p>During construction</p> |   |

| SCARF Construction Mitigation Measure Title  | Mitigation Measure Description   | Implementing Party           | Implementation Timing                    | Verification Sign-off (initials and date) |
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|  | <p>daily checks of vehicle condition.</p> <ul style="list-style-type: none"> <li>• Implement wildlife-friendly practices to reduce erosion of exposed soil, including stabilization for soil stockpiles, watering for dust control, establishment of perimeter silt fences, and/or placement of fiber rolls.</li> <li>• Implement practices to maintain water quality, including silt fences, stabilized construction entrances, and storm-drain inlet protection.</li> <li>• Develop spill prevention and emergency response plans to handle potential fuel or other spills.</li> <li>• Where feasible, limit construction to dry periods.</li> </ul> <p>The performance standard for this mitigation measures is use of the best available technology that is economically achievable.</p> |                              |  |   |
| <p>GEO-CONSTRUCT-1b:<br/>Comply with Cal/OSHA Requirements for Excavation Slopes</p> | <p>CDFW, DGS, or their contractor(s) shall ensure that temporary excavation slopes meet Cal/OSHA requirements, as appropriate. Excavation sloping, benching, the use of trench shields, and the placement of trench spoils should conform to the last applicable Cal/OSHA standards. Nearby utilities, structures, and other improvements shall be protected from potential damage by earth movements.</p>   | <p>DGS and/or Contractor</p> | <p>During design and/or construction</p> |   |

| SCARF Construction Mitigation Measure Title                                 | Mitigation Measure Description   | Implementing Party           | Implementation Timing                    | Verification Sign-off (initials and date) |
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| <p>GEO-CONSTRUCT-1c:<br/>Design Cut-and-Fill Slopes to Minimize Erosion</p> | <p>CDFW, DGS, or their contractor(s) shall implement the following measures:</p> <ul style="list-style-type: none"> <li>• Construction methods will incorporate appropriate erosion-prevention actions. This may include, but will not be limited to, reducing slope steepness as much as possible, re-vegetating slopes as appropriate, and directing surface drainage away from the tops of slopes. Actions shall be taken to compact fill soils uniformly.</li> </ul> <p>The guidance from the Geocon 2012 Geotechnical Investigation Report (Geocon 2012) shall be used for erosion-prevention techniques, modified if necessary depending on actual field conditions.</p> | <p>DGS and/or Contractor</p> | <p>During design and/or construction</p> |   |

| SCARF Construction Mitigation Measure Title  | Mitigation Measure Description   | Implementing Party            | Implementation Timing      | Verification Sign-off (initials and date) |
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| <p>GEO-CONSTRUCT-2a: Test Fill for Recommended Compaction and Moisture Content, and Apply Appropriate Measures to Reach Desired Content When Necessary</p> | <p>CDFW, DGS, or their contractor(s) shall implement the following measures:</p> <ul style="list-style-type: none"> <li>All earthwork operations should be observed by a qualified inspector who is a California licensed Professional Geologist and is also a California Certified Engineering Geologist. A test fill will be constructed to determine the suitability of fill material for use at the site. The results of the test fill will be used to determine the appropriate method for conditioning, placement and compaction of fill material necessary at the site to ensure stable foundation conditions are achieved. Within the existing effluent detention pond area, existing fill and loose alluvium should be removed down to competent granite bedrock. The removal should extend at least 5 feet laterally beyond the footprint of the proposed hatchery compound, including the parking area.</li> </ul> <p>Over-excavation bottoms, areas to receive fill or areas left at-grade should be thoroughly scarified to a minimum depth of 8 inches, uniformly moisture-conditioned at or near optimum moisture content, and compacted to at least 90% relative compaction. Scarification in exposed, hard bedrock areas is not required.</p> | <p>CDFW and/or Contractor</p> | <p>During construction</p> |   |

| SCARF Construction Mitigation Measure Title                            | Mitigation Measure Description  | Implementing Party            | Implementation Timing      | Verification Sign-off (initials and date) |
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| <p>GEO-CONSTRUCT-2b:<br/>Ensure Fill Soils Contain Adequate Binder</p> | <p>CDFW, DGS, or their contractor(s) shall implement the following measures:</p> <ul style="list-style-type: none"> <li>• If fill soils consist of sand and gravel mixtures with silt or clay binder, these soils should be blended with other soils containing sufficient fines to provide adequate binder (usually 10–15% fines by dry weight).</li> <li>• If pond-bottom sediment is used, it should be dried and sufficiently blended with other soils such that the resulting fill does not contain organics in excess of 3% by dry weight.</li> </ul> <p>Imported fill material should be primarily granular with a “very low” expansion potential (Expansion Index less than 20) and a Plasticity Index less than 15. Imported fill material should also contain sufficient binder and be free of organic material and construction debris; it should not contain rocks/cementations larger than 6 inches in their greatest dimension.</p> | <p>CDFW and/or Contractor</p> | <p>During construction</p> |   |

| SCARF Construction Mitigation Measure Title   | Mitigation Measure Description  | Implementing Party            | Implementation Timing      | Verification Sign-off (initials and date) |
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| <p>GEO-CONSTRUCT-3: Accommodate Shallow Groundwater and Potential Perched Groundwater and Seepage throughout the Project Excavation Sites</p> | <p>CDFW, DGS, or their contractor(s) shall implement the following measures:</p> <ul style="list-style-type: none"> <li>• Drain the settling ponds several weeks prior to grading, and perform earthwork and grading operations during the summer, if possible.</li> <li>• Be prepared to accommodate potential perched groundwater and seepage in deeper project excavations, such as the pond removal excavations. Depending on the extent of perched groundwater at the time of grading, temporary dewatering measures, such as wellpoints or trench drains, may be required. Some form of subgrade stabilization may be necessary where wet, unstable soils are exposed.</li> </ul> <p>Depending on conditions found at the time of construction, mitigation alternatives, such as over-excavation and replacement with gravel wrapped in geosynthetic fabric, may be necessary to provide a stable bottom.</p> | <p>CDFW and/or Contractor</p> | <p>During construction</p> |   |

| SCARF Construction Mitigation Measure Title   | Mitigation Measure Description  | Implementing Party                 | Implementation Timing                 | Verification Sign-off (initials and date) |
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| <p>GEO-CONSTRUCT-4: Take Recommended Grading and Fill Actions to Maximize Foundation Stability</p>                | <p>CDFW, DGS, or their contractor(s) shall implement the following measures:</p> <ul style="list-style-type: none"> <li>• Foundation design will incorporate appropriate measures to maximize long-term stability. This may address, but will not be limited to, footings and reinforcement specifications, the use of aggregate base and compacted fill or native soils, and methods to permit drainage for areas below the design flood elevation.</li> <li>• The Geocon 2012 Geotechnical Investigation Report (Geocon 2012) may be used as guidance, but final design and implementation will depend on actual field conditions, and modifications will be made as necessary.</li> </ul> <p>A qualified geotechnical engineer will oversee onsite field investigations and approved final design.</p> | <p>DGS, CDFW and/or Contractor</p> | <p>During design and construction</p> |   |
| <p>HAZ-CONSTRUCT-3: Implement a Construction Management Plan to Minimize Interference with Emergency Response</p> | <p>CDFW, DGS, or the construction contractor, in consultation with the County, will prepare and implement a Traffic Management Plan (TMP). CDFW will be responsible for ensuring that the plan is adequately developed and implemented. CDFW will provide the TMP to the Fresno County Public Works and Planning Department and Caltrans. The TMP will include recommended traffic-control and traffic-reduction measures as identified in the Transportation Management Plan Guidelines issued by the Division of Traffic Operations Office of System Management Operations (Caltrans 2009). CDFW will implement all traffic-control or</p>  | <p>CDFW, DGS, or Contractor</p>    | <p>Before and during construction</p> |   |

| SCARF Construction Mitigation Measure Title | Mitigation Measure Description  | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|   | <p>traffic-reduction measures described in the TMP. In addition, to the extent feasible, construction-related traffic and any temporary road closures shall be scheduled during non-peak traffic periods.</p> <p>The measures included in the TMP shall be consistent with any applicable guidelines outlined in the Standard Specifications for Public Works Construction, the U.S. Department of Transportation’s Manual on Uniform Traffic Control Devices, and the Work Area Traffic Control Handbook. The plan will include the following items:</p> <ul style="list-style-type: none"> <li>• Defined location and timing of any temporary lane closures;</li> <li>• Identification and provision for circumstances requiring the use of temporary traffic control measures, flag persons, warning signs, lights, barricades, and cones, etc. to provide safe work areas in the vicinity of the project site or along the haul routes, including for those roadway segments that have substandard width (less than 18 feet), and to warn, control, protect, and expedite vehicular and pedestrian traffic and access by emergency responders;</li> <li>• Implementation of comprehensive traffic control measures, including scheduling of major truck trips and deliveries to avoid peak-hour traffic, placement of detour signs (if required), lane closure procedures (if required), flaggers (if required), placement of cones for drivers, and designated construction</li> </ul> |                    |                       |   |

| SCARF Construction Mitigation Measure Title | Mitigation Measure Description   | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|   | <p>access routes and access points;</p> <ul style="list-style-type: none"> <li>• Notification to adjacent property owners and public safety personnel regarding when major deliveries, detours, and lane closures will occur;</li> <li>• Address the potential for construction-related traffic to impede emergency response vehicles and present a specific training and information program for construction workers to ensure awareness of emergency procedures from project-related accidents;</li> <li>• Identification of haul routes for movement of construction vehicles that will minimize impacts on vehicular and pedestrian traffic and circulation and safety, and provision for monitoring surface streets used for haul routes so that any damage and debris attributable to the haul trucks can be identified and corrected by CDFW and/or DGS in coordination with the construction contractor;</li> <li>• Development of a process for responding to and tracking complaints pertaining to construction activity, including identification of an onsite complaint manager; and</li> </ul> <p>Documentation of road pavement conditions for all routes that would be used by construction vehicles both before and after project construction. Roads damaged by construction vehicles will be repaired to the level at which they existed before project construction.</p> |                    |                       |   |

| SCARF Construction Mitigation Measure Title   | Mitigation Measure Description  | Implementing Party  | Implementation Timing                 | Verification Sign-off (initials and date) |
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| <p>HYD-CONSTRUCT-6:<br/>Perform Flood Analysis and Conform to Standards in Fresno County Code</p> | <p>Prior to finalizing the SCARF design, CDFW will conduct an analysis of pre- and post-project flood conditions in the SCARF area. The analysis will include an assessment of the potential change in velocity, floodplain storage and Base Flood Elevation (BFE) for the pre- and post-project conditions. If the analysis determines that the SCARF would significantly decrease floodplain storage or result in a significant increase in the BFE, velocity, or cause erosion, then measures will be designed and implemented to reduce these potential effects to an acceptable level. This could include bank stabilization measures at erosional locations, development of increased floodplain storage, redesign to avoid increases in the BFE, etc. As a performance standard, the design and construction shall conform to the standards contained in the most current version of Fresno County Code Chapter 15.48; such standards are considered by CDFW to reduce this impact to a less-than-significant level.</p> | <p>CDFW and DGS</p> | <p>During design</p>                  |   |
| <p>REC-CONSTRUCT-1a:<br/>Reroute the Trail during Construction</p>                                | <p>CDFW will coordinate construction activities with the San Joaquin River Conservancy to minimize to the extent and duration of rerouting of the newly built San Joaquin Hatchery Public Access and Trail during construction of the SCARF.</p>  | <p>CDFW</p>         | <p>Before and during construction</p> |   |
| <p>REC-CONSTRUCT-1b:<br/>Provide Signage during Construction</p>                                  | <p>CDFW or its contractor shall provide signage during construction of the SCARF to notify those using the San Joaquin Hatchery Public Access and Trail of trail and access disruptions.</p>  | <p>CDFW</p>         | <p>During construction</p>            |   |

| <b>SCARF Construction Mitigation Measure Title</b>                    | <b>Mitigation Measure Description</b>  | <b>Implementing Party</b> | <b>Implementation Timing</b> | <b>Verification Sign-off (initials and date)</b> |
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| REC-CONSTRUCT-1c:<br>Rebuild the Trail if Damaged during Construction | If the San Joaquin Hatchery Public Access and Trail becomes damaged during construction of the SCARF, CDFW or its contractor shall re-construct damaged trail and public access points within 2 years of the damage. | CDFW or Contractor        | Following construction       |  |

| SCARF Operations<br>Mitigation Measure Title  | Mitigation Measure Description  | Implementing Party   | Implementation Timing         | Verification Sign-off (initials and date) |
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| AES-OP-2a: Permanent Exterior Lighting Shall Be Designed to Protect the Darkness of Nighttime Skies | CDFW shall ensure that permanent lighting utilizes lights that are low wattage, or incorporates appropriate shielding, and that lighting is directed away from sensitive uses and adjacent properties.  | DGS (if during design); DGS, CDFW and/or Contractor (if during construction) | During design or construction |   |
| AES-OP-2b: SCARF Structures Shall Be Constructed to Avoid Surface Glare                             | To reduce glare, CDFW shall ensure that all structures are painted with non-glare surfacing or constructed of materials that do not produce glare.  | DGS (if during design); DGS, CDFW and/or Contractor (if during construction) | During design or construction |   |
| AQ-OP-3: Fish Disposal Limitations  | <p>CDFW will implement at least one of the following measures to minimize the likelihood of potential odors from fish disposal activities affecting a substantial number of sensitive receptors:</p> <ul style="list-style-type: none"> <li>• Limit fish disposal locations to areas that are at least 1,000 feet from any potential sensitive receptors, including terrestrial recreationists such as hikers.</li> </ul> <p>Implement disposal methods that ensure that fish carcasses are weighed down and disposed of within a stream channel instead of on a stream bank.</p> | CDFW   | During operation              |   |

| SCARF Operations<br>Mitigation Measure Title  | Mitigation Measure Description   | Implementing Party                 | Implementation Timing                 | Verification Sign-off (initials and date) |
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| <p>GEO-OP-1: Conduct and Additional Investigation into the Flow Capacity of Impacted Channels and Implement the Investigation's Recommendations</p> | <p>Due to the increased flow through the return flow outfall channel, CDFW, DGS, or their contractor(s) shall conduct an investigation into the capacity of the channel and its connection to the San Joaquin River to verify that the channel and connection point have the capacity to support potential increased flows. Similarly, the volitional release channel would require the same investigation. The geotechnical investigation would be conducted by a qualified hydrologist(s) or hydraulic engineer(s) (or team of such experts) and detailed in a technical report.</p> <p>If the geotechnical investigation results indicate that the flow capacities of the affected channels would not be sufficient to accommodate the Proposed Project's flows, recommended actions will be included in the report. CDFW will implement the report's recommended actions. Potential recommendations may include but not be limited to: expansion and/or reinforcement of the existing outfall and volitional release channels, a reduction of flow rates to a level that can be supported by the existing channels, and/or an investigation into and development of alternative channels to support peak flows. As a performance standard, in no case shall the return flows from the outfall or the volitional release channel cause channel instability or erosion and sedimentation downstream.</p> | <p>CDFW, DGS and/or Contractor</p> | <p>During design and construction</p> |   |

| SCARF Operations<br>Mitigation<br>Measure Title   | Mitigation Measure<br>Description   | Implementing<br>Party | Implementation<br>Timing | Verification<br>Sign-off<br>(initials and<br>date) |
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| NOISE-OP-1:<br>Implement Noise<br>Control Measures to<br>Reduce Noise<br>Generated by<br>Mechanical Equipment | To reduce potential noise impacts from mechanical equipment, CDFW shall locate mechanical rooftop equipment for HVAC and refrigeration units as far from residential homes as possible. If such functioning rooftop equipment were unavoidably as close as 150 feet to the nearest sensitive receptor, then equipment will be selected that features lower-speed rotating components (e.g., fans, pumps, compressors), factory-approved acoustically-insulated housings or enclosures, and other typical means of noise control or sound abatement so that its resulting sound pressure level at a distance of 150 feet does not exceed the Fresno County threshold of 45 dBA L50 as shown in Table 14-2 in the DEIR. | DGS                   | During design            |  |

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| SCARF Fish Reintroduction Mitigation Measure Title   | Mitigation Measure Description   | Implementing Party     | Implementation Timing                                     | Verification Sign-off (initials and date) |
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| FISH-REINTRO-1: Determine Stream-specific Take Totals  | CDFW will confer with USFWS and NMFS to determine stream-specific take totals that incorporate estimates of viable population size, life stage-specific survival, and the maintenance of genetic diversity of the donor stock populations. These take totals will be incorporated as specific permit conditions in a ESA section 10(a)(1)(A) permit, which must be issued prior to broodstock collection. At a minimum, the selected threshold(s) shall ensure that the adverse effects of broodstock collection will not be substantial in the context of the overall population of each spring-run donor stock.  | CDFW                   | Prior to conducting wild spring-run broodstock collection |   |
| BIO-REINTRO-3: Conduct Project-Level Assessment of Activity, and Implement Conservation Measures to Avoid, Minimize, or Mitigate Impacts | When project activities are defined to a level that impacts to biological resources can be evaluated, and prior to implementing that component or taking actions that commit CDFW to implementing that component, CDFW will assess the site to determine the potential for impacts to biological resources. At minimum, the assessment will include a CNDDB search of the site vicinity (minimum 5-mile radius), and a site visit by a qualified botanist and wildlife biologist to evaluate the potential for special-status species and sensitive habitats to be impacted by the activity. If the biologists determine that special-status species or sensitive habitats may be affected by the activity, CDFW will implement the conservation measures listed in Appendix I, CDFW's Conservation Measures for Biological Resources that May Be Affected by Program-level Actions, for each species and habitat type that may be affected. | CDFW and/or Contractor | Before and during construction                            |   |

| SCARF Fish Reintroduction Mitigation Measure Title   | Mitigation Measure Description   | Implementing Party  | Implementation Timing                             | Verification Sign-off (initials and date) |
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| <p>BIO-RECREATION-2: Preserve and Protect Special-Status Plant Populations in the Vicinity of Recreational Enhancement Areas</p> | <p>Prior to developing recreational enhancements, CDFW will implement the <b>Mitigation Measure BIO-REINTRO-3</b>. If the qualified botanist identifies special-status plants species in the vicinity of the recreational enhancements, CDFW will implement measures to minimize potential impacts. Minimization measures may include constructing pathways, fencing, signage, and other strategies to reduce the potential for trampling or matting that will protect the viability of the local plant population and suitable habitat. If minimization measures are implemented, monitoring of plant populations will be conducted annually for 5 years to assess the mitigation’s effectiveness. The performance standard for the mitigation will be no net reduction in the size or viability of the local population.</p> | <p>CDFW and/or Contractor (and DGS, depending on the selected measures)</p> | <p>During design, construction, and operation</p> |   |

| SCARF Fisheries Management Mitigation Measure Title  | Mitigation Measure Description  | Implementing Party | Implementation Timing  | Verification Sign-off (initials and date) |
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| <p>AQ-MANAGEMENT-1:<br/>Prepare Project-Level Quantitative Analysis of Construction Related Air Quality Emissions, and Implement Measures to Cap Emissions</p> | <p>As future individual project components are further defined to a level that construction emissions can be estimated, and prior to implementing that component or taking actions that commit CDFW to implementing that component, CDFW will prepare a complete, quantitative project-level air quality analysis for that component.</p> <p>The quantitative construction air quality analyses will be based on the types, locations, numbers, and operations of equipment to be used; the amount and distance of material to be transported; and worker trips required. In addition, the analysis will be based on the projected quantity and frequency of vehicle and/or truck trips, and other activities that generate emissions. The analysis will determine whether the combined emissions of the quantified components' construction activities exceed the SJVAPCD's construction air quality thresholds (see the SJVAPCD thresholds presented in Table 5-5 of the DEIR). In addition, the analysis will evaluate whether the combined emissions from all project components constitute a significant health risk from diesel fueled equipment.</p> <p>If the analysis determines that construction emissions exceed the air quality significance thresholds, then CDFW will identify and implement appropriate mitigation. As a performance standard, the mitigation shall be sufficient to reduce construction emissions so that the Proposed Project's</p> | <p>CDFW</p>        | <p>Prior to implementing a project component or taking actions that commit CDFW to implementing that component</p> |   |

| SCARF Fisheries Management Mitigation Measure Title | Mitigation Measure Description   | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|   | <p>emissions are below the applicable significance thresholds. Examples of appropriate mitigation may include, but not be limited to, SJVAPCD Regulation VIII, alternative fueled equipment, phasing of material hauling trips, use of chemical additives or after-market devices to reduce emissions on existing equipment, use of electrically powered equipment, reduction in total equipment hours, use of newer equipment models, adopting a vehicle idling policy requiring all vehicles to adhere to a 5 minute idling policy, and sourcing of material from local sources. Actual emissions efficiency for off-road equipment and motor vehicles will be at least as efficient as the most recent CARB fleet average for off-road equipment and motor vehicles for the current calendar year.</p> <p>In the event that the mitigation strategies (either those listed above or others developed to achieve the performance standard) are calculated to be insufficient to reduce construction emissions levels below significance thresholds, then CDFW will enter into a Voluntary Emission Reduction Agreement (VERA) with SJVAPCD. A VERA is a contractual agreement in which the project proponent agrees to mitigate project specific emissions by providing funds for the SJVAPCD's Emission Reduction Incentive Program (ERIP). The funds are disbursed by ERIP in the form of grants for projects that achieve emission reductions. Types of emission reduction projects that have been funded in the past include</p> |                    |                       |   |

| SCARF Fisheries Management Mitigation Measure Title | Mitigation Measure Description   | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|   | <p>electrification of stationary internal combustion engines (e.g., agricultural irrigation pumps), replacing old heavy-duty trucks with new, cleaner, more efficient heavy-duty trucks, and replacement of old farm tractors. The VERA will be used to offset the project's increase in emissions so that the Proposed Project would have no increase in construction emissions above the significance threshold.</p> <p>Similarly, if the air quality analysis indicates that the activities pose a significant health risk, then CDFW will identify mitigation measures, which, as a performance standard, will ensure health risks are at a less-than-significant level. Examples of appropriate mitigation may include, but not be limited to, use of alternative fueled equipment, use of aftermarket control devices such as diesel particulate filters, use of electrical equipment where possible, or reduction in number of hours of equipment use with a minimum reduction in diesel particulate matter of 85% compared to a Tier 2 engine or equivalent to 100 trucks per day based on CARB's Air Quality and Land Use Handbook.</p> |                    |                       |   |

| SCARF Fisheries Management Mitigation Measure Title   | Mitigation Measure Description   | Implementing Party            | Implementation Timing                 | Verification Sign-off (initials and date) |
|---|--|-------------------------------|---------------------------------------|---|
| <p>FISH-MANAGEMENT-1: Implement Conservation Measures prior to and during Construction Activities</p> | <p>CDFW shall implement appropriate Conservation Measures from Appendix I, CDFW's Conservation Measures for Biological Resources that May Be Affected by Program-level Actions, prior to and during the construction of fish segregation weirs and barriers. Pre-construction planning shall include a site assessment by a qualified fisheries biologist to determine the potential for special-status species to occur in the vicinity. If the biologist determines that special-status aquatic species may be present, CDFW shall implement the applicable Appendix I avoidance and minimization measures for each species that may be present.</p> | <p>CDFW and/or Contractor</p> | <p>Before and during construction</p> |   |
| <p>FISH-MANAGEMENT-5a: Monitor Fish Communities in the Vicinity of Segregation Weirs and Traps</p>    | <p>If actions described in Impact FISH-MANAGEMENT-5 are used in the Restoration Area, CDFW shall assess the species composition of fish communities within the 500-foot reach both upstream and downstream of each segregation weir or trap, during the time of year that the weir(s) or trap is in place. The monitoring activities shall focus on large bodied special-status fish species such as green sturgeon and steelhead. Monitoring techniques may include the use of visual surveys, rod and reel angling, set lines, fyke nets, DIDSON™, or seines.</p>  | <p>CDFW</p>                   | <p>During operation</p>               |   |

| SCARF Fisheries Management Mitigation Measure Title   | Mitigation Measure Description   | Implementing Party            | Implementation Timing   | Verification Sign-off (initials and date) |
|---|--|-------------------------------|-------------------------|---|
| <p>FISH-MANAGEMENT-5b:<br/>Develop and Implement Measures that Allow Special-Status Large Bodied Fishes to Bypass Weirs and Traps</p> | <p>If as a result of <b>Mitigation Measure FISH-MANAGEMENT-5a</b> or through other means, CDFW identifies that, outside of the current seasonal operation of the HFB (September to mid-December), the migration of special-status large bodied fishes could be impeded by the operation of the weir(s) or trap and haul activities, then CDFW shall modify the operation of the weir or implement measures that allow fish to bypass the weir so that movement of large bodied special-status fish species such as green sturgeon and steelhead is not impeded. Such measures may include removal or relocation of the weir(s), or operating a trap(s) to allow for manual selection of fish passing across the barrier.</p> | <p>CDFW and/or Contractor</p> | <p>During operation</p> |   |

| SCARF Fisheries Management Mitigation Measure Title                 | Mitigation Measure Description   | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
|---|--|--------------------|-----------------------|---|
| FISH-MANAGEMENT-8a: Check Traps Daily and Minimize Handling of Fish | To reduce stress on captured fish, all trapping devices will be checked at least once per day. Untargeted wildlife (e.g., snakes, turtles) caught in traps will be released into suitable habitat for the species. Traps will be checked more frequently during times when conditions are stressful (e.g., high temperatures, large amounts of debris during high flow events) to reduce the time that fish are subject to trap-related stress. Fish will be carefully handled and given sufficient time to recover (at least 30 minutes) prior to being released back into the river. If rotary screw traps are used, they will be operated in accordance with the USFWS "Draft Rotary Screw Trap Protocol for Estimating Production of Juvenile Chinook Salmon" (USFWS 2008) and/or similar protocols which are at least as protective and developed after conferring with USFWS and, if required, NMFS. | CDFW               | During operation      |   |
| FISH-MANAGEMENT-8b: Adaptively Manage Trap Operations               | If mortalities greater than 2 fish or 2% of total catch are observed in a given day due to high debris loads, traps will be removed or raised out of the water until conditions are suitable for survival of fish (i.e., reduced winds or streamflow, improved weather conditions). For rotary screw traps, if predation causes such mortality, a structural refuge will be installed inside the trap to reduce predation. This will consist of a perforated plastic box or similar refuge for small fish within the rotary screw trap to prevent predation by larger fish captured in the trap.   | CDFW               | During operation      |   |

| SCARF Fisheries Management Mitigation Measure Title   | Mitigation Measure Description   | Implementing Party     | Implementation Timing   | Verification Sign-off (initials and date) |
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| GEO-MANAGEMENT-1a: Stabilize Soils to Avoid Increasing Erosion on Streambanks   | Project activities will be done in such a manner as to not increase erosion within the banks of the river during or immediately following rainfall events. All disturbed soils at project activity sites will be stabilized to reduce erosion potential, both during and following installation of equipment (e.g., weirs, fyke nets, traps, etc.). After removal of such equipment, soils shall be stabilized and recontoured, as necessary.  | Contractor             | During construction   |   |
| GEO-MANAGEMENT-1b: Use Energy Dissipaters to Minimize Turbidity at the Point of Discharge   | Water deposited back into the river following Chinook salmon transport shall be done at a rate to minimize water turbidity and erosion. As necessary at each site, temporary energy dissipaters such as rip rap shall be placed at the point of discharge to moderate the return of water to the channel.  | CDFW                   | During operation  |   |
| GHG-MANAGEMENT-1: Prepare Project-Level Quantitative Analysis of Construction-Related GHG Emissions, and Implement Measures to Reduce and/or Offset Emissions | <p>As future individual Proposed Project components are further defined to a level that construction emissions can be estimated, and prior to implementing that component or taking actions that commit CDFW to implementing that component, CDFW will prepare a complete, quantitative project-level GHG emissions analysis for that component.</p> <p>The GHG emissions analysis will be based on the types, locations, numbers, and operations of equipment to be used; the amount and distance of material to be transported; and worker trips required. The analysis will determine whether the combined emissions of the various</p> | CDFW and/or Contractor | Prior to implementing a project component or taking actions that commit CDFW to implementing that component |   |

| SCARF Fisheries Management Mitigation Measure Title | Mitigation Measure Description   | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
|---|--|--------------------|-----------------------|---|
|   | <p>quantified components' construction activities exceed the construction thresholds (230 metric tons CO<sub>2</sub>e/year amortized or district approved BPS).</p> <p>If the analysis determines that construction emissions will exceed the construction thresholds, CDFW will first implement all feasible, applicable GHG emission reduction measures and propose these as BPS for the project, up to a 29% reduction from a defined business-as-usual baseline or 1,100 metric tons CO<sub>2</sub>e per year. Potential GHG emission reduction measures to be considered include, but are not limited to the following:</p> <ul style="list-style-type: none"> <li>• Utilize alternative fueled vehicles such as electric or biodiesel for equipment and vehicles.</li> <li>• Utilize newer, more fuel efficient equipment and vehicles for construction.</li> <li>• Increase employee vanpool share (2% of vanpool mode share).</li> <li>• Utilize locally sourced material.</li> </ul> <p>In the event that the mitigation measures are insufficient to reduce construction emissions to be equal to or less than the significance thresholds, then CDFW shall purchase sufficient GHG emission credits to offset the Proposed Project's construction net increase in emissions above the thresholds. These may include</p> |                    |                       |   |

| SCARF Fisheries Management Mitigation Measure Title   | Mitigation Measure Description   | Implementing Party           | Implementation Timing | Verification Sign-off (initials and date) |
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|   | GHG credits that have been banked under SJVAPCD Rule 2301 or other GHG credits that are considered acceptable by SJVAPCD.  |                              |                       |   |
| HAZ-MANAGEMENT-3: Prepare Project-Level Quantitative Analysis of Site-specific Current and Historical Hazardous Materials, Implement Recommendations in the Phase I Environmental Site Assessment, and Comply with all Applicable Regulations | CDFW will implement the following measures to assess and minimize potential hazards on sites selected for the construction or removal of fish segregation weirs. CDFW will have a qualified expert perform a Phase 1 Environmental Site Assessment and hazardous-site records search for the Proposed Project sites. This process will include the identification of potential hazards within the project sites and identification of nearby sensitive receptors. The assessment will determine whether hazards and hazardous materials are present and, if so, their potential impact on workers and nearby sensitive receptors. The analysis will also include recommendations to reduce potential risks from identified hazards and hazardous materials. CDFW will implement recommendations provided in the Phase 1 Environmental Site Assessment and comply with all applicable regulations. Compliance with these regulations will include preparation of a hazardous materials business plan, which would include a training program for employees and an emergency plan (Cal EMA 2012). CDFW will implement applicable provisions of the EPA, OSHA, Cal/OSHA, Cal/EPA, Cal EMA, and CUPA permitting processes, and any applicable county general plan policies. Should the site have unmitigatable hazardous | CDFW, DGS, and/or Contractor | Before construction   |   |

| SCARF Fisheries Management Mitigation Measure Title                              | Mitigation Measure Description  | Implementing Party     | Implementation Timing          | Verification Sign-off (initials and date) |
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|  | conditions, or mitigation is not feasible, CDFW shall choose an alternate site.   |                        |                                |   |
| LU-MANAGEMENT 1: Ensure Consistency of Land Use                                  | As part of the design for removal or relocation of the two fish weirs, DGS, CDFW or the contractor shall investigate land uses at and adjacent to potential sites, along with relevant plans, policies and regulations. The weirs, fish traps and other equipment shall not be sited in locations that create land use incompatibilities.   | CDFW and/or Contractor | During design                  |   |
| NOISE-MANAGEMENT-1: Implement Noise Control Measures for Construction Activities | <p>Before engaging in noise-generating activity associated with the construction of weirs, structural modification of the Hill's Ferry Barrier, or other construction activity, CDFW will evaluate how close sensitive receptors are located to the construction site, and whether the construction activity would exceed applicable noise thresholds. This evaluation will utilize the same FTA-based general assessment methodology that was used to predict the noise that would be generated during SCARF construction. Should the noise levels be anticipated to exceed the threshold for any sensitive receptors, CDFW will implement specific noise control measures to mitigate impacts associated with construction. These measures may include but are not limited to the following:</p> <p>a. Best available noise control techniques (including factory-approved mufflers, intake silencers, ducts, engine enclosures, and acoustically attenuating</p> | CDFW and Contractor    | Before and during construction |   |

| SCARF Fisheries Management Mitigation Measure Title | Mitigation Measure Description   | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|   | <p>shields or shrouds) will be used for all equipment and trucks to minimize construction noise impacts.</p> <p>b. If impact equipment (e.g., concrete/rock breaker, rock drill) is used during project construction, hydraulic- or electric-powered equipment will be used to avoid the noise associated with compressed-air exhaust from pneumatically powered tools. However, where use of pneumatically powered tools is unavoidable, an exhaust muffler on the compressed-air exhaust will be used (a muffler can lower noise levels from the exhaust by up to 10 dBA). External jackets on the tools themselves will be used, which could achieve a reduction of 5 dBA. Where considered practical, quieter procedure alternatives, such as drilling or vibratory methods, will be used instead of impact equipment.</p> <p>c. Stationary noise sources will be located away from sensitive receptors. If the sources must be located near sensitive receptors, adequate sound abatement (with enclosures and mufflers, where appropriate) will be used to ensure performance standards are met. Enclosure openings or vents will face away from sensitive receptors. If any stationary equipment (e.g., pumps, ventilation fans, generators) is operated beyond the ordinance time limits, this equipment will conform to the affected jurisdiction’s noise limits.</p> |                    |                       |   |

| SCARF Fisheries Management Mitigation Measure Title | Mitigation Measure Description   | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
|---|--|--------------------|-----------------------|---|
|   | <p>In addition, CDFW will designate a project liaison to be responsible for responding to noise complaints during construction. The name and phone number of the liaison will be conspicuously posted at construction areas and on all advanced notifications. The liaison will take steps to resolve complaints, including the arrangement of periodic noise monitoring, if necessary. Results of noise monitoring will be presented at regular project meetings with the project contractor, and the liaison will coordinate with the contractor to modify any construction activities that generate excessive noise levels.</p> |                    |                       |   |

| SCARF Fisheries Research and Monitoring Mitigation Measure Title  | Mitigation Measure Description  | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
|---|---|--------------------|-----------------------|---|
| FISH-MONITORING-2a: Implement Standard Protocols for Active Sampling of Aquatic Species                       | When conducting active sampling, CDFW shall adhere to fish handling procedures prescribed in Guidelines for the Use of Fishes in Research (Nickum <i>et al.</i> 2004), or any more current protocols which are considered at least as protective.   | CDFW               | During operation      |   |
| FISH-MONITORING-2b: Use Passive Sampling Techniques in place of Active Sampling Techniques, When Appropriate  | To reduce impacts associated with active instream monitoring activity such as electrofishing, seining, and use of jet or propeller motor boats by investigators, the use of passive capture equipment will be used in place of active sampling whenever appropriate and feasible. Passive sampling equipment includes entanglement gear such as gill nets and trammel nets, and entrapment gear such as Fyke nets and rotary screw traps. | CDFW               | During operation      |   |
| FISH-MONITORING-2c: Use Observational Techniques in place of Traditional Capture Techniques, When Appropriate | Wherever possible and appropriate, observational techniques will be used in place of capture techniques to reduce the need to handle organisms.   | CDFW               | During operation      |   |

| SCARF Fisheries Research and Monitoring Mitigation Measure Title | Mitigation Measure Description  | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
|--|---|--------------------|-----------------------|---|
| FISH-MONITORING-2d: Check Rotary Screw Traps Daily               | Rotary screw traps will be operated in accordance with the USFWS "Draft Rotary Screw Trap Protocol for Estimating Production of Juvenile Chinook Salmon" (USFWS 2008) and/or similar protocols which are at least as protective and developed after conferring with USFWS and, if required, NMFS. USFWS (2008) includes several measures, as follows. To reduce stress on captured fish, all trapping devices will be checked at least once per day when in the fishing position. Untargeted wildlife (e.g., snakes, turtles) caught in traps will be released into suitable habitat for the species. Traps will be checked more frequently during times when conditions are stressful (e.g., high temperatures, large amounts of debris during high flow events) to reduce the time that fish are subject to trap-related stress. Fish may need to be anesthetized, which would be done using methods acceptable to USFWS and NMFS before they are handled and given sufficient time to recover (at least 30 minutes) prior to being released back into the river. | CDFW               | During operation      |   |
| FISH-MONITORING-2e: Adaptively Manage Trap Operations            | If mortalities greater than two fish or 2% of total catch are observed in a given day due to high debris loads, traps will be raised out of the water until conditions are suitable for survival of fish (i.e., reduced winds or streamflow, improved weather conditions). If predation causes such mortality, a structural refuge will be installed inside the trap to reduce predation. This will consist of a perforated plastic box or similar refuge for small fish within the rotary screw trap to prevent predation by larger fish captured in the trap.   | CDFW               | During operation      |   |

| SCARF Recreation Mitigation Measure Title  | Mitigation Measure Description  | Implementing Party | Implementation Timing  | Verification Sign-off (initials and date) |
|--|---|--------------------|--|---|
| <p>AQ-MANAGEMENT-1:<br/>Prepare Project-Level Quantitative Analysis of Construction Related Air Quality Emissions, and Implement Measures to Cap Emissions</p> | <p>As future individual project components are further defined to a level that construction emissions can be estimated, and prior to implementing that component or taking actions that commit CDFW to implementing that component, CDFW will prepare a complete, quantitative project-level air quality analysis for that component.</p> <p>The quantitative construction air quality analyses will be based on the types, locations, numbers, and operations of equipment to be used; the amount and distance of material to be transported; and worker trips required. In addition, the analysis will be based on the projected quantity and frequency of vehicle and/or truck trips, and other activities that generate emissions. The analysis will determine whether the combined emissions of the quantified components' construction activities exceed the SJVAPCD's construction air quality thresholds (see the SJVAPCD thresholds presented in Table 5-5 of the DEIR). In addition, the analysis will evaluate whether the combined emissions from all project components constitute a significant health risk from diesel fueled equipment.</p> <p>If the analysis determines that construction emissions exceed the air quality significance thresholds, then CDFW will identify and implement appropriate mitigation. As a performance standard, the mitigation shall be sufficient to reduce construction emissions so that the Proposed Project's emissions are below the</p> | <p>CDFW</p>        | <p>Prior to implementing a project component or taking actions that commit CDFW to implementing that component</p> |   |

| SCARF Recreation Mitigation Measure Title | Mitigation Measure Description   | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
|---|--|--------------------|-----------------------|---|
|   | <p>applicable significance thresholds. Examples of appropriate mitigation may include, but not be limited to, SJVAPCD Regulation VIII, alternative fueled equipment, phasing of material hauling trips, use of chemical additives or after-market devices to reduce emissions on existing equipment, use of electrically powered equipment, reduction in total equipment hours, use of newer equipment models, adopting a vehicle idling policy requiring all vehicles to adhere to a 5 minute idling policy, and sourcing of material from local sources. Actual emissions efficiency for off-road equipment and motor vehicles will be at least as efficient as the most recent CARB fleet average for off-road equipment and motor vehicles for the current calendar year.</p> <p>In the event that the mitigation strategies (either those listed above or others developed to achieve the performance standard) are calculated to be insufficient to reduce construction emissions levels below significance thresholds, then CDFW will enter into a Voluntary Emission Reduction Agreement (VERA) with SJVAPCD. A VERA is a contractual agreement in which the project proponent agrees to mitigate project specific emissions by providing funds for the SJVAPCD's Emission Reduction Incentive Program (ERIP). The funds are disbursed by ERIP in the form of grants for projects that achieve emission reductions. Types of emission reduction projects that have been funded in the past include electrification of stationary internal combustion engines</p> |                    |                       |   |

| SCARF Recreation Mitigation Measure Title | Mitigation Measure Description   | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
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|   | <p>(e.g., agricultural irrigation pumps), replacing old heavy-duty trucks with new, cleaner, more efficient heavy-duty trucks, and replacement of old farm tractors. The VERA will be used to offset the project's increase in emissions so that the Proposed Project would have no increase in construction emissions above the significance threshold.</p> <p>Similarly, if the air quality analysis indicates that the activities pose a significant health risk, then CDFW will identify mitigation measures, which, as a performance standard, will ensure health risks are at a less-than-significant level. Examples of appropriate mitigation may include, but not be limited to, use of alternative fueled equipment, use of aftermarket control devices such as diesel particulate filters, use of electrical equipment where possible, or reduction in number of hours of equipment use with a minimum reduction in diesel particulate matter of 85% compared to a Tier 2 engine or equivalent to 100 trucks per day based on CARB's Air Quality and Land Use Handbook.</p> |                    |                       |   |

| SCARF Recreation Mitigation Measure Title  | Mitigation Measure Description   | Implementing Party  | Implementation Timing                             | Verification Sign-off (initials and date) |
|--|--|---|---|---|
| <p>FISH-RECREATION-1: Implement Conservation Measures prior to and during Construction of Recreational Enhancements</p>          | <p>CDFW shall implement appropriate conservation measures from Appendix I, CDFW's Conservation Measures for Biological Resources that May Be Affected by Program-level Actions, prior to and during the construction of recreational fishing enhancements. Pre-construction planning shall include a site assessment by a qualified fisheries wildlife biologist to determine the potential for special-status species to occur in the vicinity. If the biologists determine that special-status species may be present, CDFW shall implement the applicable Appendix I avoidance and minimization measures for each species that may be present.</p>  | <p>CDFW and/or Contractor</p>   | <p>Before and during construction</p>             |   |
| <p>BIO-RECREATION-2: Preserve and Protect Special-Status Plant Populations in the Vicinity of Recreational Enhancement Areas</p> | <p>Prior to developing recreational enhancements, CDFW will implement the <b>Mitigation Measure BIO-REINTRO-3</b>. If the qualified botanist identifies special-status plants species in the vicinity of the recreational enhancements, CDFW will implement measures to minimize potential impacts. Minimization measures may include constructing pathways, fencing, signage, and other strategies to reduce the potential for trampling or matting that will protect the viability of the local plant population and suitable habitat. If minimization measures are implemented, monitoring of plant populations will be conducted annually for 5 years to assess the mitigation's effectiveness. The performance standard for the mitigation will be no net reduction in the size or viability of the local population.</p> | <p>CDFW and/or Contractor (and DGS, depending on the selected measures)</p> | <p>During design, construction, and operation</p> |   |

| SCARF Recreation Mitigation Measure Title   | Mitigation Measure Description  | Implementing Party            | Implementation Timing  | Verification Sign-off (initials and date) |
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| <p>GEO-RECREATION-1: Conduct a Geotechnical Investigation and Incorporate Report Recommendations into the Design and Construction of any Future Recreation Management Roads or Facilities</p> | <p>A geotechnical investigation must be conducted by a qualified geotechnical engineer (or team of geotechnical engineers) to evaluate subsurface soil and geologic conditions at future sites of recreation management roads and facilities. The investigation report should provide conclusions and recommendations relative to the geotechnical aspects of designing and constructing the recreation management roads and facilities, which are yet to be determined. Recommendations should address site and geologic conditions, including soil, groundwater, and corrosion. They should also address geologic hazards, such as regional active faults, ground shaking, liquefaction, and flooding. The report should provide seismic design criteria; excavation and cut-and-fill characteristics; criteria for foundations, retaining walls, and pavement; and any other design criteria appropriate for the Proposed Project such that the facilities remain stable.</p> <p>The proposed recreation management activities will incorporate all recommendations put forth by the Geotechnical Investigation Report into the design and construction of the Proposed Project.</p> | <p>CDFW and/or Contractor</p> | <p>During design, before construction</p>  |   |
| <p>GHG-MANAGEMENT-1: Prepare Project-Level Quantitative Analysis of Construction-Related GHG Emissions, and Implement Measures to Reduce and/or Offset Emissions</p>                          | <p>As future individual Proposed Project components are further defined to a level that construction emissions can be estimated, and prior to implementing that component or taking actions that commit CDFW to implementing that component, CDFW will prepare</p>  | <p>CDFW and/or Contractor</p> | <p>Prior to implementing a project component or taking actions that commit CDFW to implementing that component</p> |   |

| SCARF Recreation Mitigation Measure Title | Mitigation Measure Description   | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
|---|--|--------------------|-----------------------|---|
|   | <p>a complete, quantitative project-level GHG emissions analysis for that component.</p> <p>The GHG emissions analysis will be based on the types, locations, numbers, and operations of equipment to be used; the amount and distance of material to be transported; and worker trips required. The analysis will determine whether the combined emissions of the various quantified components' construction activities exceed the construction thresholds (230 metric tons CO<sub>2</sub>e/year amortized or district approved BPS).</p> <p>If the analysis determines that construction emissions will exceed the construction thresholds, CDFW will first implement all feasible, applicable GHG emission reduction measures and propose these as BPS for the project, up to a 29% reduction from a defined business-as-usual baseline or 1,100 metric tons CO<sub>2</sub>e per year. Potential GHG emission reduction measures to be considered include, but are not limited to the following:</p> <ul style="list-style-type: none"> <li>• Utilize alternative fueled vehicles such as electric or biodiesel for equipment and vehicles.</li> <li>• Utilize newer, more fuel efficient equipment and vehicles for construction.</li> <li>• Increase employee vanpool share (2% of vanpool mode share).</li> </ul> |                    |                       |   |

| SCARF Recreation Mitigation Measure Title  | Mitigation Measure Description   | Implementing Party | Implementation Timing | Verification Sign-off (initials and date) |
|--|--|--------------------|-----------------------|---|
|  | <ul style="list-style-type: none"> <li>Utilize locally sourced material.</li> </ul> <p>In the event that the mitigation measures are insufficient to reduce construction emissions to be equal to or less than the significance thresholds, then CDFW shall purchase sufficient GHG emission credits to offset the Proposed Project's construction net increase in emissions above the thresholds. These may include GHG credits that have been banked under SJVAPCD Rule 2301 or other GHG credits that are considered acceptable by SJVAPCD.</p>   |                    |                       |   |
| <p>HAZ-RECREATION-3: Research and Consult Applicable Comprehensive Airport Land Use Plans before Construction Activities</p> | <p>As stated in the California Code of Regulations, Title 14, Division 6, Chapter 3, Section 15154, CDFW shall ensure that the design and construction will comply with all applicable comprehensive airport land use plans within which boundaries the Project falls.</p> <p>If a comprehensive airport land use plan has not been adopted for a project within 2 nautical miles of a public airport or public-use airport, the Airport Land Use Planning Handbook published by the California Department of Transportation's Division of Aeronautics (Caltrans 2011) will serve as the guide for the design and construction of the Proposed Project with regard to potential airport-related safety hazards and noise problems.</p> | <p>CDFW</p>        | <p>During design</p>  |   |

| <b>SCARF Recreation Mitigation Measure Title</b>                    | <b>Mitigation Measure Description</b>  | <b>Implementing Party</b>     | <b>Implementation Timing</b> | <b>Verification Sign-off (initials and date)</b> |
|---|--|-------------------------------|------------------------------|--|
| <p>LU-RECREATION-2:<br/>Avoid Locations with Land Use Conflicts</p> | <p>As part of the selection of recreational enhancement sites, CDFW shall investigate land uses at and adjacent to potential sites, along with relevant plans, policies and regulations. CDFW will choose locations for enhancement of recreational fishing that would not conflict with existing or planned land uses and/or local land use policies.</p> | <p>CDFW and/or Contractor</p> | <p>During design</p>         |  |

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