

1 Appendix 1.A, Species Lists—U.S. Fish and Wildlife Service



United States Department of the Interior



FISH AND WILDLIFE SERVICE

Sacramento Fish and Wildlife Office

FEDERAL BUILDING, 2800 COTTAGE WAY, ROOM W-2605

SACRAMENTO, CA 95825

PHONE: (916)414-6600 FAX: (916)414-6713

Consultation Code: 08ESMF00-2015-SLI-0583

May 22, 2015

Event Code: 08ESMF00-2015-E-02190

Project Name: California Water Fix

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, under the jurisdiction of the U.S. Fish and Wildlife Service (Service) that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the Service under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

Please follow the link below to see if your proposed project has the potential to affect other species or their habitats under the jurisdiction of the National Marine Fisheries Service:

http://www.nwr.noaa.gov/protected_species/species_list/species_lists.html

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2)

of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

The table below outlines lead FWS field offices by county and land ownership/project type. Please refer to this table when you are ready to coordinate (including requests for section 7 consultation) with the field office corresponding to your project, and send any documentation regarding your project to that corresponding office. Therefore, the lead FWS field office may not be the office listed above in the letterhead. Please visit our office's website (<http://www.fws.gov/sacramento>) to view a map of office jurisdictions.

Lead FWS offices by County and Ownership/Program

County	Ownership/Program	Species	Office Lead*
Alameda	Tidal wetlands/marsh adjacent to Bays	Salt marsh species, Delta Smelt	BDFWO
Alameda	All ownerships but tidal/estuarine	All	SFWO
Alpine	Humboldt Toiyabe National Forest	All	RFWO
Alpine	Lake Tahoe Basin Management Unit	All	RFWO
Alpine	Stanislaus National Forest	All	SFWO
Alpine	El Dorado National Forest	All	SFWO
Colusa	Mendocino National Forest	All	AFWO
Colusa	Other	All	By jurisdiction (see map)
Contra Costa	Legal Delta (Excluding ECCHCP)	All	BDFWO
Contra Costa	Antioch Dunes NWR	All	BDFWO
Contra Costa	Tidal wetlands/marsh adjacent to Bays	Salt marsh species, Delta Smelt	BDFWO
Contra Costa	All ownerships but tidal/estuarine	All	SFWO

El Dorado	El Dorado National Forest	All	SFWO
El Dorado	LakeTahoe Basin Management Unit		RFWO
Glenn	Mendocino National Forest	All	AFWO
Glenn	Other	All	By jurisdiction (see map)
Lake	Mendocino National Forest	All	AFWO
Lake	Other	All	By jurisdiction (see map)
Lassen	Modoc National Forest	All	KFWO
Lassen	Lassen National Forest	All	SFWO
Lassen	Toiyabe National Forest	All	RFWO
Lassen	BLM Surprise and Eagle Lake Resource Areas	All	RFWO
Lassen	BLM Alturas Resource Area	All	KFWO
Lassen	Lassen Volcanic National Park	All (includes Eagle Lake trout on all ownerships)	SFWO
Lassen	All other ownerships	All	By jurisdiction (see map)

Marin	Tidal wetlands/marsh adjacent to Bays	Salt marsh species, Delta Smelt	BDFWO
Marin	All ownerships but tidal/estuarine	All	SFWO
Mendocino	Russian River watershed	All	SFWO
Mendocino	All except Russian River watershed	All	AFWO
Napa	All ownerships but tidal/estuarine	All	SFWO
Napa	Tidal wetlands/marsh adjacent to San Pablo Bay	Salt marsh species, Delta Smelt	BDFWO
Nevada	Humboldt Toiyabe National Forest	All	RFWO
Nevada	All other ownerships	All	By jurisdiction (See map)
Placer	Lake Tahoe Basin Management Unit	All	RFWO
Placer	All other ownerships	All	SFWO
Sacramento	Legal Delta	Delta Smelt	BDFWO
Sacramento	Other	All	By jurisdiction (see map)
San Francisco	Tidal wetlands/marsh adjacent to San Francisco Bay	Salt marsh species, Delta Smelt	BDFWO

San Francisco	All ownerships but tidal/estuarine	All	SFWO
San Mateo	Tidal wetlands/marsh adjacent to San Francisco Bay	Salt marsh species, Delta Smelt	BDFWO
San Mateo	All ownerships but tidal/estuarine	All	SFWO
San Joaquin	Legal Delta excluding San Joaquin HCP	All	BDFWO
San Joaquin	Other	All	SFWO
Santa Clara	Tidal wetlands/marsh adjacent to San Francisco Bay	Salt marsh species, Delta Smelt	BDFWO
Santa Clara	All ownerships but tidal/estuarine	All	SFWO
Shasta	Shasta Trinity National Forest except Hat Creek Ranger District (administered by Lassen National Forest)	All	YFWO
Shasta	Hat Creek Ranger District	All	SFWO
Shasta	Bureau of Reclamation (Central Valley Project)	All	BDFWO
Shasta	Whiskeytown National Recreation Area	All	YFWO
Shasta	BLM Alturas Resource Area	All	KFWO

Shasta	Caltrans	By jurisdiction	SFWO/AFWO
Shasta	Ahjumawi Lava Springs State Park	Shasta crayfish	SFWO
Shasta	All other ownerships	All	By jurisdiction (see map)
Shasta	Natural Resource Damage Assessment, all lands	All	SFWO/BDFWO
Sierra	Humboldt Toiyabe National Forest	All	RFWO
Sierra	All other ownerships	All	SFWO
Solano	Suisun Marsh	All	BDFWO
Solano	Tidal wetlands/marsh adjacent to San Pablo Bay	Salt marsh species, Delta Smelt	BDFWO
Solano	All ownerships but tidal/estuarine	All	SFWO
Solano	Other	All	By jurisdiction (see map)
Sonoma	Tidal wetlands/marsh adjacent to San Pablo Bay	Salt marsh species, Delta Smelt	BDFWO
Sonoma	All ownerships but tidal/estuarine	All	SFWO
Tehama	Mendocino National Forest	All	AFWO
	Shasta Trinity National Forest		

Tehama	except Hat Creek Ranger District (administered by Lassen National Forest)	All	YFWO
Tehama	All other ownerships	All	By jurisdiction (see map)
Yolo	Yolo Bypass	All	BDFWO
Yolo	Other	All	By jurisdiction (see map)
All	FERC-ESA	All	By jurisdiction (see map)
All	FERC-ESA	Shasta crayfish	SFWO
All	FERC-Relicensing (non-ESA)	All	BDFWO
*Office Leads:			
AFWO=Arcata Fish and Wildlife Office			
BDFWO=Bay Delta Fish and Wildlife Office			
KFWO=Klamath Falls Fish and Wildlife Office			
RFWO=Reno Fish and Wildlife Office			
YFWO=Yreka Fish and Wildlife Office			

Attachment



United States Department of Interior
Fish and Wildlife Service

Project name: California Water Fix

Official Species List

Provided by:

Sacramento Fish and Wildlife Office
FEDERAL BUILDING
2800 COTTAGE WAY, ROOM W-2605
SACRAMENTO, CA 95825
(916) 414-6600

Non-participating U.S. Fish and Wildlife Service office(s):

The following office(s) have jurisdictions that overlap your project area, but do not provide automatically generated Species list documents. Please contact them directly to request a Species list document. Do this by visiting their website, if it is provided below. If a website is not provided, contact the office(s) by mail or phone.

San Francisco Bay-Delta Fish and Wildlife
650 CAPITOL MALL
SUITE 8-300
SACRAMENTO, CA 95814
(916) 930-5603

Consultation Code: 08ESMF00-2015-SLI-0583

Event Code: 08ESMF00-2015-E-02190

Project Type: WATER SUPPLY / DELIVERY

Project Name: California Water Fix

Project Description: Central Valley Project and State Water Project operations will be modified by California Department of Water Resources' construction and operation of three supplemental intakes and associated conveyance in the Delta.

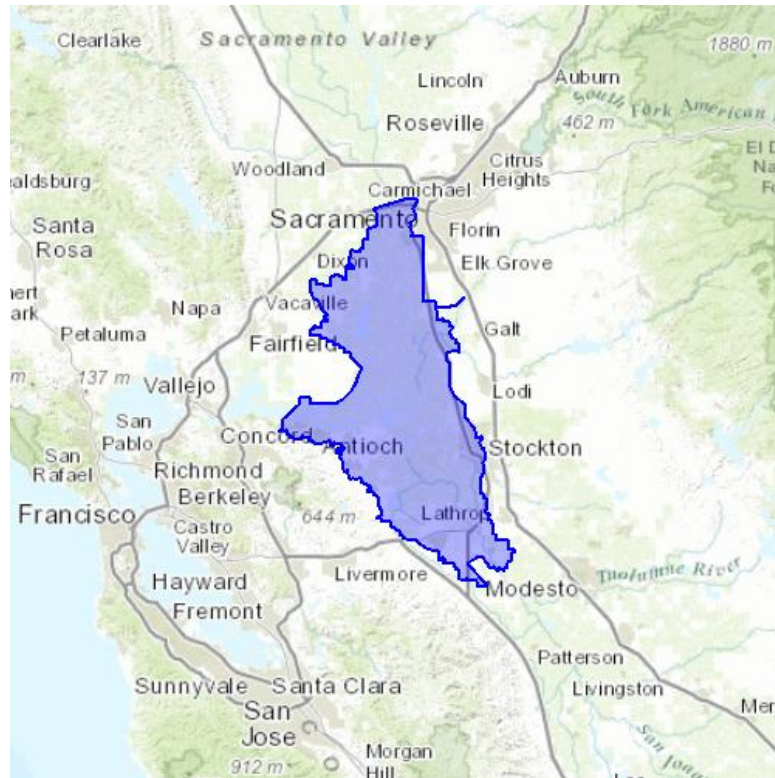
Please Note: The FWS office may have modified the Project Name and/or Project Description, so it may be different from what was submitted in your previous request. If the Consultation Code matches, the FWS considers this to be the same project. Contact the office in the 'Provided by' section of your previous Official Species list if you have any questions or concerns.



United States Department of Interior
Fish and Wildlife Service

Project name: California Water Fix

Project Location Map:



Project Coordinates: The coordinates are too numerous to display here.

Project Counties: Alameda, CA | Contra Costa, CA | Sacramento, CA | San Joaquin, CA | Solano, CA | Stanislaus, CA | Yolo, CA



United States Department of Interior
Fish and Wildlife Service

Project name: California Water Fix

Endangered Species Act Species List

There are a total of 32 threatened or endangered species on your species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Critical habitats listed under the **Has Critical Habitat** column may or may not lie within your project area. See the **Critical habitats within your project area** section further below for critical habitat that lies within your project. Please contact the designated FWS office if you have questions.

Amphibians	Status	Has Critical Habitat	Condition(s)
California red-legged frog (<i>Rana draytonii</i>) Population: Entire	Threatened	Final designated	
California tiger Salamander (<i>Ambystoma californiense</i>) Population: U.S.A. (CA - Sonoma County)	Endangered	Final designated	
Birds			
California Clapper rail (<i>Rallus longirostris obsoletus</i>) Population: Entire	Endangered		
California Least tern (<i>Sterna antillarum browni</i>)	Endangered		
Least Bell's vireo (<i>Vireo bellii pusillus</i>) Population: Entire	Endangered	Final designated	
western snowy plover (<i>Charadrius nivosus ssp. nivosus</i>) Population: Pacific coastal pop.	Threatened	Final designated	



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Yellow-Billed Cuckoo (<i>Coccyzus americanus</i>) Population: Western U.S. DPS	Threatened	Proposed	
Crustaceans			
Conservancy fairy shrimp (<i>Branchinecta conservatio</i>) Population: Entire	Endangered	Final designated	
Longhorn fairy shrimp (<i>Branchinecta longiantenna</i>) Population: Entire	Endangered	Final designated	
Vernal Pool fairy shrimp (<i>Branchinecta lynchi</i>) Population: Entire	Threatened	Final designated	
Vernal Pool tadpole shrimp (<i>Lepidurus packardi</i>) Population: Entire	Endangered	Final designated	
Fishes			
Delta Smelt (<i>Hypomesus transpacificus</i>) Population: Entire	Threatened	Final designated	
steelhead (<i>Oncorhynchus (=salmo) mykiss</i>) Population: Northern California DPS	Threatened	Final designated	
Flowering Plants			
Antioch Dunes evening-primrose (<i>Oenothera deltoides ssp. howellii</i>)	Endangered	Final designated	
Colusa grass (<i>Neostapfia colusana</i>)	Threatened	Final designated	
Contra Costa goldfields (<i>Lasthenia</i>)	Endangered	Final designated	



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<i>conjugens</i>)			
Contra Costa wallflower (<i>Erysimum capitatum</i> var. <i>angustatum</i>)	Endangered	Final designated	
Fleshy owl's-clover (<i>Castilleja campestris</i> ssp. <i>succulenta</i>)	Threatened	Final designated	
Keck's Checker-mallow (<i>Sidalcea keckii</i>)	Endangered	Final designated	
Large-Flowered fiddleneck (<i>Amsinckia grandiflora</i>)	Endangered	Final designated	
Palmate-Bracted bird's beak (<i>Cordylanthus palmatus</i>)	Endangered		
Soft bird's-beak (<i>Cordylanthus mollis</i> ssp. <i>mollis</i>)	Endangered	Final designated	
Solano grass (<i>Tuctoria mucronata</i>)	Endangered	Final designated	
Insects			
Delta Green Ground beetle (<i>Elaphrus viridis</i>) Population: Entire	Threatened	Final designated	
Lange's Metalmark butterfly (<i>Apodemia mormo langei</i>) Population: Entire	Endangered		
Valley Elderberry Longhorn beetle (<i>Desmocerus californicus dimorphus</i>) Population: Entire	Threatened	Final designated	
Mammals			
Riparian Brush rabbit (<i>Sylvilagus bachmani riparius</i>)	Endangered		



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Population: (CA)			
Riparian woodrat (<i>Neotoma fuscipes riparia</i>) Population: Entire	Endangered		
Salt Marsh Harvest mouse (<i>Reithrodontomys raviventris</i>) Population: U.S.A.(CA)	Endangered		
San Joaquin Kit fox (<i>Vulpes macrotis mutica</i>) Population: U.S.A(CA)	Endangered		
Reptiles			
Alameda whipsnake (<i>Masticophis lateralis euryxanthus</i>) Population: Entire	Threatened	Final designated	
Giant Garter snake (<i>Thamnophis gigas</i>) Population: Entire	Threatened		



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Fish and Wildlife Service

Project name: California Water Fix

Critical habitats that lie within your project area

The following critical habitats lie fully or partially within your project area.

Amphibians	Critical Habitat Type
California red-legged frog (<i>Rana draytonii</i>) Population: Entire	Final designated
Crustaceans	
Vernal Pool fairy shrimp (<i>Branchinecta lynchi</i>) Population: Entire	Final designated
Vernal Pool tadpole shrimp (<i>Lepidurus packardi</i>) Population: Entire	Final designated
Fishes	
Delta Smelt (<i>Hypomesus transpacificus</i>) Population: Entire	Final designated
Flowering Plants	
Antioch Dunes evening-primrose (<i>Oenothera deltoides ssp. howellii</i>)	Final designated
Colusa grass (<i>Neostapfia colusana</i>)	Final designated
Contra Costa goldfields (<i>Lasthenia conjugens</i>)	Final designated
Contra Costa wallflower (<i>Erysimum capitatum var. angustatum</i>)	Final designated
Solano grass (<i>Tuctoria mucronata</i>)	Final designated
Insects	



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Project name: California Water Fix

Delta Green Ground beetle (<i>Elaphrus viridis</i>) Population: Entire	Final designated
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**U.S. Fish & Wildlife Service
Sacramento Fish & Wildlife Office**

**Federal Endangered and Threatened Species that Occur in
or may be Affected by Projects in the
Sacramento/San Joaquin Delta**

Database last updated: May 20, 2015

Report Date: May 20, 2015

Listed Species

Invertebrates

Apodemia mormo langei – Lange’s metalmark butterfly (E)

Branchinecta conservatio - Conservancy fairy shrimp (E)

Branchinecta longiantenna - longhorn fairy shrimp (E)

Branchinecta lynchi - vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus - valley elderberry longhorn beetle (T)

Elaphrus viridis - delta green ground beetle (T)

Incisalia mossii bayensis - San Bruno elfin butterfly (E)

Lepidurus packardi - vernal pool tadpole shrimp (E)

Fish

Acipenser medirostris - green sturgeon (T)

Hypomesus transpacificus - Delta Smelt (T)

Oncorhynchus mykiss - Central Valley steelhead (T)

Oncorhynchus tshawytscha - Central Valley spring-run chinook salmon (T)

Oncorhynchus tshawytscha - winter-run chinook salmon, Sacramento River (E)

Amphibians

Ambystoma californiense - California tiger salamander, central population (T)

Rana draytonii - California red-legged frog (T)

Reptiles

Masticophis lateralis euryxanthus - Alameda whipsnake [=striped racer] (T)

Thamnophis gigas - giant garter snake (T)

Birds

Coccyzus americanus occidentalis - Western yellow-billed cuckoo (T)

Rallus longirostris obsoletus - California clapper rail (E)

Sternula antillarum (= *Sterna*, = *albifrons*) *browni* - California least tern (E)

Mammals

- Neotoma fuscipes riparia* - riparian (San Joaquin Valley) woodrat (E)
- Reithrodontomys raviventris* - salt marsh harvest mouse (E)
- Sylvilagus bachmani riparius* - riparian brush rabbit (E)
- Vulpes macrotis mutica* - San Joaquin kit fox (E)

Plants

- Amsinckia grandiflora* - large-flowered fiddleneck (E)
- Castilleja campestris* ssp. *succulenta* - succulent (=fleshy) owl's-clover (T)
- Cirsium hydrophilum* var. *hydrophilum* - Suisun thistle (E)
- Cordylanthus mollis* ssp. *mollis* - soft bird's-beak (E)
- Cordylanthus palmatus* - palmate-bracted bird's-beak (E)
- Erysimum capitatum* ssp. *angustatum* - Contra Costa wallflower (E)
- Lasthenia conjugens* - Contra Costa goldfields (E)
- Neostapfia colusana* - Colusa grass (T)
- Oenothera deltoides* ssp. *howellii* - Antioch Dunes evening-primrose (E)
- Orcuttia tenuis* - slender Orcutt grass (T)
- Orcuttia viscida* - Sacramento Orcutt grass (E)
- Sidalcea keckii* – Keck's checker-mallow (=checkerbloom) (E)
- Tuctoria mucronata* - Solano grass (=Crampton's tuctoria) (E)

Species with Critical Habitat Proposed or Designated in this region

- Alameda whipsnake (X)
- Antioch Dunes evening-primrose (X)
- CA tiger salamander, central population (X)
- California red-legged frog (X)
- Central Valley spring-run chinook (X)
- Central Valley steelhead (X)
- Colusa grass (X)
- Conservancy fairy shrimp (X)
- Contra Costa goldfields (X)
- Contra Costa wallflower (X)
- Delta Smelt (X)
- large-flowered fiddleneck (X)
- longhorn fairy shrimp (X)
- soft bird's-beak (PX)
- Solano grass (=Crampton's tuctoria) (X)

Suisun thistle (PX)
vernal pool fairy shrimp (X)
vernal pool tadpole shrimp (X)
winter-run chinook salmon (X)

Key:

- (E) *Endangered* - Listed as being in danger of extinction.
- (T) *Threatened* - Listed as likely to become endangered within the foreseeable future.
- (P) *Proposed* - Officially proposed in the Federal Register for listing as endangered or threatened.
- (NMFS) Species under the Jurisdiction of the [National Oceanic & Atmospheric Administration Fisheries Service](#). Consult with them directly about these species.
- *Critical Habitat* - Area essential to the conservation of a species.
- (PX) *Proposed Critical Habitat* - The species is already listed. Critical habitat is being proposed for it.
- (C) *Candidate* - Candidate to become a proposed species.
- (V) Vacated by a court order. Not currently in effect. Being reviewed by the Service.
- (X) *Critical Habitat* designated for this species

1 Appendix 1.B, Species Lists—National Marine Fisheries Service

Evoy-Mount, Matilda

From: Michael Tucker - NOAA Federal <michael.tucker@noaa.gov>
Sent: Friday, July 24, 2015 3:16 PM
To: Wilder, Rick
Cc: Pierre, Jennifer; Evoy-Mount, Matilda; Olson, Theresa
Subject: Re: NMFS species list confirmation

Follow Up Flag: Follow up
Flag Status: Flagged

Hi Rick,

Yes, this looks like an appropriate list of species to be included/considered in the section 7 consultation for the California Water Fix project

On Fri, Jul 17, 2015 at 4:14 PM, Wilder, Rick <Rick.Wilder@icfi.com> wrote:

Can you please respond to confirm that the following species are those that will be included for Section 7 consultation on the California Water Fix? Thank you.

Chinook salmon, Sacramento River winter-run ESU, *Oncorhynchus tshawytscha*

Chinook salmon, Central Valley spring-run ESU, *Oncorhynchus tshawytscha*

Steelhead, California Central Valley DPS, *Oncorhynchus mykiss*

Green sturgeon, southern DPS, *Acipenser medirostris*

Killer whale, Southern Resident DPS, *Orcinus orca*

List of species considered but not analyzed in the document:

Steelhead, California Central Coast DPS, *Oncorhynchus mykiss*

Coho salmon, Southern Oregon/ Northern California Coast, *Oncorhynchus kisutch*

For EFH:

Chinook salmon, Sacramento River winter-run ESU, *Oncorhynchus tshawytscha*

Chinook salmon, Central Valley spring-run ESU, *Oncorhynchus tshawytscha*

Chinook salmon, Central Valley fall-/late fall-run ESU, *Oncorhynchus tshawytscha*

Northern anchovy, *Engraulis mordax*

Starry flounder, *Platichthys stellatus*

English sole, *Pleuronectes vetulus*

Brown rockfish, *Sebastes auriculatus*

RICK WILDER | Project Manager, Senior Fisheries Biologist | [916.231.9612](tel:916.231.9612) (o) | [916.666.2784](tel:916.666.2784) (m) | rick.wilder@icfi.com

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Michael Tucker

BDCP Branch Supervisor

NOAA Fisheries West Coast Region

U.S. Department of Commerce

[916-930-3604](tel:916-930-3604)

www.westcoast.fisheries.noaa.gov

