

# **Appendix B**

## **U.S. Fish and Wildlife Service Species List**



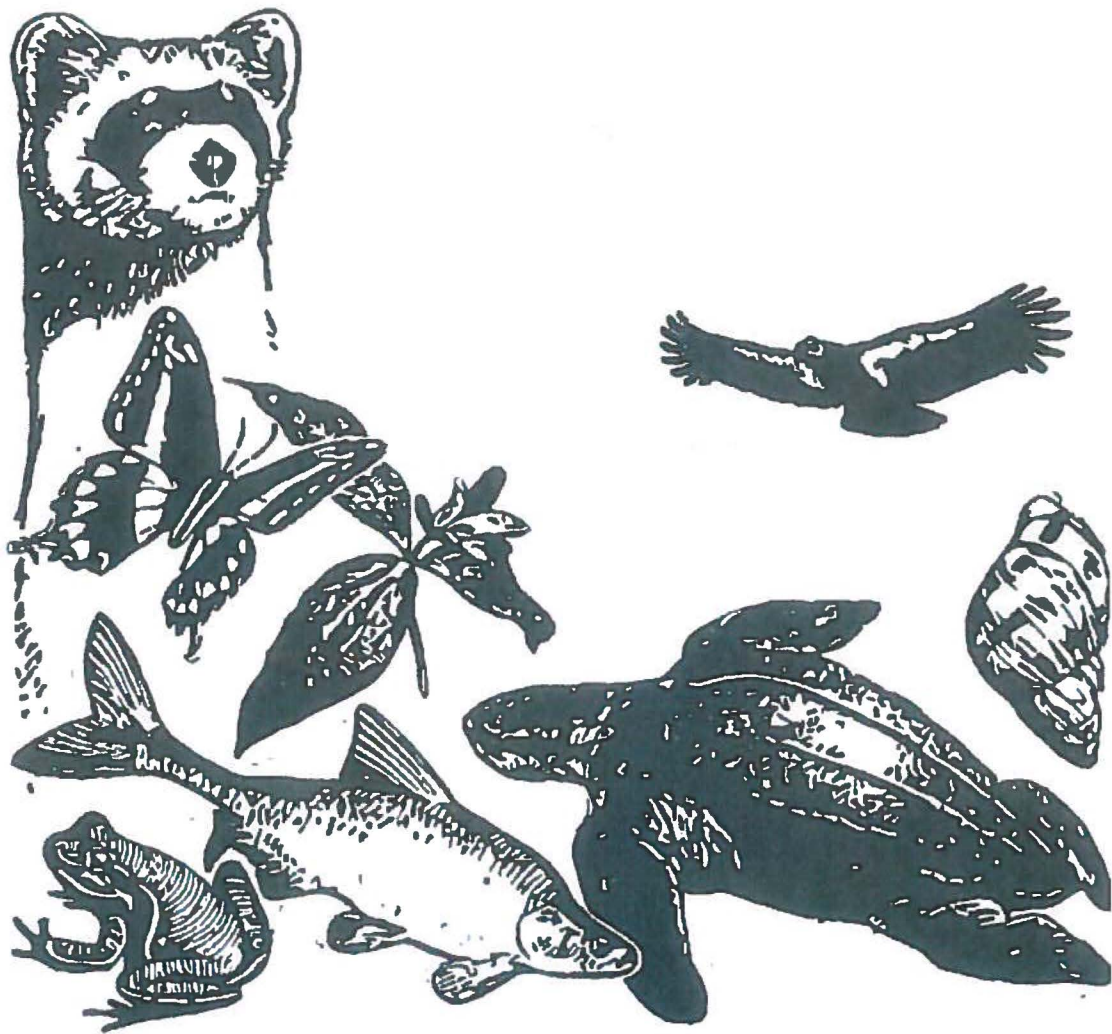
# Sycamore Island Pond Isolation Project

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## *IPaC Trust Resource Report*

Generated September 30, 2015 02:52 PM MDT

This report is for informational purposes only and should not be used for planning or analyzing project-level impacts. For projects that require FWS review, please return to this project on the IPaC website and request an official species list from the Regulatory Documents page.





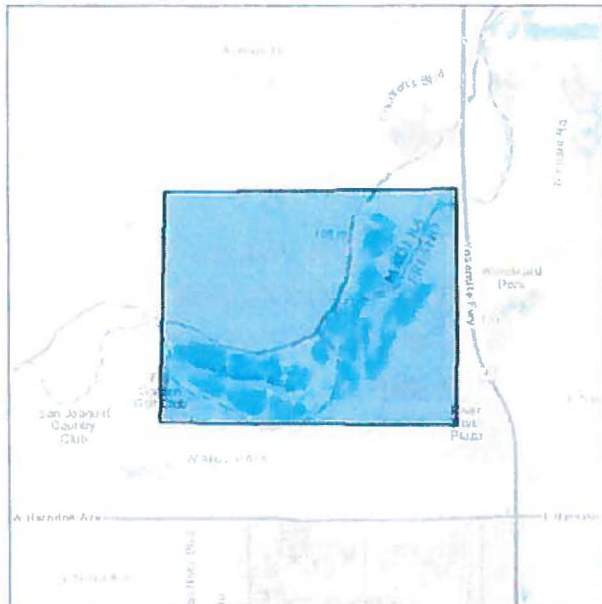
## Project Description

## Sycamore Island Pond Isolation Project

## FGTZQ-QHB3F-HBPBX-BYMMG-IY2Q2Q

Fresno and Madera counties,  
California

The San Joaquin River Conservancy and Reclamation proposed to repair a breached earthen berm separating an abandoned gravel pit (Pit 46E) from the San Joaquin River channel. The Project would also construct an equalization saddle, strengthen the existing berm, create a gravel road on top of the saddle and berm and create floodplain habitat.



## U.S. Fish & Wildlife Contact Information

Species in this report are managed by:

**Sacramento Fish And Wildlife Office**  
Federal Building  
2800 COTTAGE WAY, ROOM W-2605  
Sacramento, CA 95825-1846  
(916) 414-6600

# Endangered Species

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

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

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

## Amphibians

### California Red-legged Frog *Rana draytonii*

Threatened

#### CRITICAL HABITAT

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

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

### California Tiger Salamander *Ambystoma californiense*

Threatened

#### CRITICAL HABITAT

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

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

## Crustaceans

### Conservancy Fairy Shrimp *Branchinecta conservatio*

Endangered

#### CRITICAL HABITAT

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

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

### Vernal Pool Fairy Shrimp *Branchinecta lynchi*

Threatened

#### CRITICAL HABITAT

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

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

## Fishes

### **Delta Smelt** *Hypomesus transpacificus*

Threatened

#### CRITICAL HABITAT

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

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

### **Steelhead** *Oncorhynchus* (=Salmo) *mykiss*

Threatened

#### CRITICAL HABITAT

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

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

## Flowering Plants

### **Fleshy Owl's-clover** *Castilleja campestris* ssp. *succulenta*

Threatened

#### CRITICAL HABITAT

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

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=Q0CG>

### **Hairy Orcutt Grass** *Orcuttia pilosa*

Endangered

#### CRITICAL HABITAT

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

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=Q1AY>

### **San Joaquin Orcutt Grass** *Orcuttia inaequalis*

Threatened

#### CRITICAL HABITAT

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

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=Q1ZP>

## Mammals

### **Fresno Kangaroo Rat** *Dipodomys nitratoides exilis*

Endangered

#### CRITICAL HABITAT

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

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=A08O>

### **San Joaquin Kit Fox** *Vulpes macrotis mutica*

Endangered

#### CRITICAL HABITAT

**No critical habitat** has been designated for this species.

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=A006>

## Reptiles

### **Blunt-nosed Leopard Lizard** *Gambelia silus*

Endangered

#### CRITICAL HABITAT

No critical habitat has been designated for this species.

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=C001>

### **Giant Garter Snake** *Thamnophis gigas*

Threatened

#### CRITICAL HABITAT

No critical habitat has been designated for this species.

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

## Critical Habitats

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

There is no critical habitat within this project area

# Migratory Birds

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

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

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

## **Bald Eagle** *Haliaeetus leucocephalus*

Season: Wintering

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B008>

Bird of conservation concern

## **Burrowing Owl** *Athene cunicularia*

Year-round

Bird of conservation concern

## **Costa's Hummingbird** *Calypte costae*

Season: Breeding

Bird of conservation concern

## **Flammulated Owl** *Otus flammeolus*

Season: Breeding

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0DK>

Bird of conservation concern

## **Fox Sparrow** *Passerella iliaca*

Season: Wintering

Bird of conservation concern

## **Lewis's Woodpecker** *Melanerpes lewis*

Season: Wintering

Bird of conservation concern

## **Loggerhead Shrike** *Lanius ludovicianus*

Year-round

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0FY>

Bird of conservation concern

## **Marbled Godwit** *Limosa fedoa*

Season: Wintering

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0JL>

Bird of conservation concern

## **Nuttall's Woodpecker** *Picoides nuttalli*

Year-round

Bird of conservation concern

## **Peregrine Falcon** *Falco peregrinus*

Season: Wintering

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0FU>

Bird of conservation concern

## **Short-eared Owl** *Asio flammeus*

Season: Wintering

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0HD>

Bird of conservation concern

## **Snowy Plover** *Charadrius alexandrinus*

Season: Breeding

Bird of conservation concern

## **Swainson's Hawk** *Buteo swainsoni*

Season: Breeding

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B070>

Bird of conservation concern

**Tricolored Blackbird** *Agelaius tricolor*

Year-round

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B06P>

Bird of conservation concern

**White Headed Woodpecker** *Picoides albolarvatus*

Year-round

Bird of conservation concern

**Williamson's Sapsucker** *Sphyrapicus thyroideus*

Year-round

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0FX>

Bird of conservation concern

**Yellow-billed Magpie** *Pica nuttalli*

Year-round

<https://ecos.fws.gov/speciesProfile/profile/speciesProfile.action?spcode=B0N8>

Bird of conservation concern

## Refuges

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

There are no refuges within this project area

# **Appendix C**

## **Inventory and Calculation of Greenhouse Gas Emissions**

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**Table A-1. Emissions from Construction Equipment**

Type of Equipment	Maximum Number per Day	Total Operation Days	Total Operation Hours <sup>1</sup>	Fuel Consumption (gal/hr) <sup>2</sup>	Total Fuel Consumption (gal. diesel)	CO <sub>2</sub> e/gal diesel <sup>3</sup>	Total CO <sub>2</sub> Equivalent Emissions (metric tons)
Generators	5	80	3200	9.94	31,808	0.010	331
Water Trucks 3600 Gal	2	120	1920	6	11,520	0.010	120
Backhoes	3	45	1080	2.7	2,916	0.010	30
Loaders	3	45	1080	2.7	2,916	0.010	30
Bobcats	2	20	320	1.41	451	0.010	5
Excavator (325L)	3	80	1920	5.12	9,830	0.010	102
Compactor (815F Sheepfoot)	2	20	320	6.95	2,224	0.010	23
12H Motor Grader	2	20	320	3.44	1,101	0.010	11
140H Motor Grader	2	20	320	5.66	1,811	0.010	19
D-8N Dozer	3	60	1440	7	10,080	0.010	105
623 F Self Load Scrapers	2	30	480	9.52	4,570	0.010	47
Compressor 750 cfm	2	5	80	5.6	448	0.010	5
4x2 Pick up	2	20	320	4	1,280	0.010	13
4x4 Pick up	2	120	1920	4	7,680	0.010	80
Foreman Operator 4x2	2	120	1920	4	7,680	0.010	80
<b>TOTAL</b>							<b>1,001</b>

<sup>1</sup> An 8-hour work day is assumed.

<sup>2</sup> California Air Resource Board Off-road 2007 Emissions Inventory fuel consumption factors.

<sup>3</sup> World Resources Institute-Mobile combustion CO<sub>2</sub> emissions tool, June 2003 Version 1.2.

**Table A-2. Emissions from Transportation of Construction Workforce**

Avg. Number of Workers per Day	Total Number of Workdays	Avg. Round Trip Distance (miles)	Total Miles Traveled	Avg. Passenger Vehicle Fuel Efficiency <sup>1</sup> (mi/gal)	Total Fuel Consumed (gasoline gallons)	CO <sub>2</sub> e/gal Gasoline <sup>2</sup>	Total CO <sub>2</sub> Equivalent Emissions (metric tons)
15	120	32	57,600	20.8	2769.2	0.009	<b>25</b>

<sup>1</sup> United States Environmental Protection Agency. 2008. Light-Duty Automotive Technology and Fuel Economy Trends: 1975 through 2008. [EPA420-R-08-015].

<sup>2</sup> World Resources Institute-Mobile combustion CO<sub>2</sub> emissions tool, June 2003 Version 1.2.

**Table A-3. Emissions from Transportation of Construction Materials**

Trip Type	Total Number of Trips	Avg. Round Trip Distance (miles)	Total Miles Traveled	Avg. Semi-truck Fuel Efficiency (mi/gal) <sup>1</sup>	Total Fuel Consumed (diesel gallons)	CO <sub>2</sub> e/gal Diesel <sup>2</sup>	Total CO <sub>2</sub> Equivalent Emissions (metric tons)
Delivery	870	72	62,640	6.2	10,103.2	0.010	101
Spoils	1,556	9	14,004	6	2,334	0.010	23.3
<b>TOTAL</b>							<b>124.3</b>

<sup>1</sup> United States Environmental Protection Agency. 2008. Light-Duty Automotive Technology and Fuel Economy Trends: 1975 through 2008. [EPA420-R-08-015].

<sup>2</sup> World Resources Institute-Mobile combustion CO<sub>2</sub> emissions tool, June 2003 Version 1.2.

**Table A-4. Construction Electricity Emissions**

	MWh of electricity	mtCO <sub>2</sub> e / MWh <sup>1</sup>	CO <sub>2</sub> e emissions
Electricity Needed	0	0.310	<b>0</b>

<sup>1</sup> eGRID2010 Version 1.0, February 2011 (Year 2007 data) CAMX-WECC sub-region.

**Table A-5. Construction Emissions Summary**

<b>Annual Total Construction Activity Emissions</b>	23.0
<b>Total Years of Construction</b>	0.5
<b>Expected Start Date of Construction</b>	
<b>Estimated Project Useful life</b>	50 Years
<b>Total GHG Emissions<sup>1</sup></b>	<b>1,150.2 metric ton CO<sub>2</sub> equivalents</b>

<sup>1</sup>short-term construction emissions amortized over life of project



# **Appendix D**

## **National Historic Preservation Act Section 106 Consultation**

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**OFFICE OF HISTORIC PRESERVATION  
DEPARTMENT OF PARKS AND RECREATION**

1725 23<sup>rd</sup> Street, Suite 100  
SACRAMENTO, CA 95816-7100  
(916) 445-7000 Fax: (916) 445-7053  
calshpo@parks.ca.gov  
www.ohp.parks.ca.gov



August 26, 2015

In reply refer to: BUR\_2015\_0727\_001

Ms. Anastasia T. Leigh  
Regional Environmental Officer  
Bureau of Reclamation  
Mid-Pacific Regional Office  
2800 Cottage Way  
Sacramento, CA 95825-1898

Re: National Historic Preservation Act (NHPA) Section 106 Consultation for the Sycamore Island Project, Madera and Fresno Counties, California (Project # 15-SCAO-108)

Dear Ms. Leigh:

Thank you for your letter dated July 21, 2015, requesting my review and comment with regard to the above-referenced project. The Bureau of Reclamation (Reclamation) is consulting with me pursuant to Section 106 of the National Historic Preservation Act and its implementing regulations found at 36 CFR Part 800 (as amended 8-05-04). Reclamation proposes to partially fund work on the San Joaquin River Restoration Program that has been proposed by the California Department of Water Resources (DW) and the San Joaquin River Conservancy. Along with your consultation letter, you also provided the following document:

- *Archaeological Survey Report San Joaquin River Parkway, Sycamore Island Pond Isolation (Pit 46E) Project. Madera and Fresno Counties, California* (Kress, March 2014).

Reclamation has determined that the area of potential effects (APE) for this undertaking is approximately 51 acres and includes all project-related components, including the existing berm, borrow areas, temporary crossings, staging, and haul roads. Your letter explains the work is to restore vehicle access to a portion of the recreation area while restoring and improving borrow areas and floodplain habitat. The area previously served as a gravel processing operation from the early 1960s through the early 2000s, with plant operations removed in 2005. Because of the past gravel operations, you state the APE has a very disturbed context with little to no natural topography remaining.

Reclamation and DWR have collaborated in efforts to identify historic properties which are documented in the archaeological survey report. Reclamation initiated consultation with federally and non-federally recognized Indian tribes to request their assistance in the identification of sites of religious or cultural significance or historic properties that may be affected by the proposed undertaking. I appreciate that DWR facilitated a site visit for representatives from the Santa Rosa Rancheria Tachi Yokut Tribe and the Picayune Rancheria of the Chukchansi Indians. Native American consultation efforts have not resulted in the identification of potential historic properties within the APE. A records search in July 16, 2013

indicated that no previously recorded historic properties were identified within the APE. A cultural resource pedestrian survey conducted on July 16, 2013 identified no cultural resources, which was expected due to the disturbance by modern gravel mining operations.

As a result of the identification efforts, no historic properties were identified in the APE and, pursuant to 36 CFR 800.4(d)(1), Reclamation is seeking my concurrence with their finding that the proposed undertaking will result in no historic properties affected. After reviewing your submission I have the following comments:

- Pursuant to 36 CFR 800.4(a)(1), I have no objections to the APE as defined.
- Pursuant to 36 CFR 800.4(b), I find that Reclamation has made a reasonable and good faith effort to identify historic properties within the area of potential effects.
- Pursuant to 36 CFR 800.4(d)(1)(i), **I do not object with your finding of no historic properties affected for this undertaking.**

Thank you for seeking my comments and considering historic properties as part of your project planning. Be advised that under certain circumstances, such as unanticipated discovery or a change in project description, Reclamation may have additional future responsibilities for this undertaking under 36 CFR Part 800. If you have any questions, please contact Anmarie Medin of my staff at (916) 445-7023 or [Anmarie.Medin@parks.ca.gov](mailto:Anmarie.Medin@parks.ca.gov).

Sincerely,



Julianne Polanco  
State Historic Preservation Officer