



Technical Memorandum

UPDATE

Reference: 517027-Lake Shastina CSD Wastewater Project
Date: March 29, 2020
To: Bruce Grove, Senior Planner; Anders Rasmussen, Project Manager
From: Mark Chaney, Principal Scientist
Subject: Updated Biological Resources Technical Memo

Background

The Biological Resources Technical Memorandum for the Lake Shastina CSD Wastewater Project, originally prepared on April 13, 2018, has been updated (January 9, 2020) to include additional information regarding the development of the original biological resources investigations, to more clearly describe the potential impacts from proposed work activities at all of the project's existing wastewater pump stations (also commonly referred to as 'lift stations').

While the research and field investigations prepared in the original report evaluated potential impacts to all twenty (20) of the Lake Shastina Community Services District pump stations, the original report only displayed four (4) pump stations on the report mapping, giving the impression that studies only evaluated potential impacts to these four facilities (in addition to the wastewater treatment facility and new pipelines).

This updated biological resources technical memorandum includes the original biological resources evaluations (noted as "Original Project"), a section titled "Revised Project" that provides consistency with other updated project documents, and a "Revised Conclusions" section. This update also includes updated California Natural Diversity Data Base research, as well as current research for Federally protected species.

Original Project

Background

On October 15, 2017 and March 12, and April 5, 2018 SHN's principal scientist Mark Chaney and project botanist Kathy Tyler Moody (Resource Management) conducted independent biological site



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reconnaissance and surveys for special status botanical and wildlife species¹ within the area of potential effect for the Lake Shastina Wastewater Project. The project consists of reconfigurations of existing wastewater ponds, upgrades to wastewater equipment, upgrades to existing and addition of new sewer pipelines, and upgrades to the existing twenty (20) sewer pump stations by the Lake Shastina Community Services District (Lake Shastina CSD). Funding is being provided to the City by the State Water Resources Control Board (SWRCB) Proposition 1 Grant (Prop 1).

The proposed Project consists of wastewater facility improvements that generally upgrade the facility operations, replace aging equipment, and install new equipment and underground pipelines. The Project is located at Lake Shastina, California. The site is within the United States Geological Survey (USGS) 7.5-minute Juniper Flat topographic quadrangle located in Siskiyou County. Refer to **Figure 1** for the Project Location and **Figures 2 to 5** for the Project Site Maps. The Project generally consisted of the following:

1. Improvements to the existing wastewater treatment facility with an emphasis on optimal sludge drying beds, winter storage and evaporation pond configurations, and addition of enhanced aeration equipment;
2. Installation of a new solar array within the boundaries of the existing fenced wastewater treatment facility;
3. Future expansion of the eastern boundary of the existing wastewater treatment facility by approximately 4.5 acres for future operations and maintenance efficiencies;
4. Improvements and upgrades to extend the Tony Lema Drive sewer line to Lift Station B-120 to reduce the risk of Sanitary Sewer Overflows, provide for energy reduction costs for pumping and for use as a redundant line during emergencies;
5. Installation of a new sewer bypass pipeline between sewer lift stations B-109 and B-110 along Lake Shore Drive to reduce the risk of Sanitary Sewer Overflows and for use as a redundant line during emergencies.
6. Existing sewer pump station repair and maintenance activities to provide updated electrical and control components, repairs to sewer wet wells and piping configuration rehabilitation at 20 pump stations.

Methodology

The survey protocol for this effort consisted of database queries and a focused biological field survey to identify suitable and potentially suitable habitat at the Project sites that could be used by species of special concern. Prior to conducting fieldwork, the following references were reviewed:

¹ The Term "Special Status Species" is used collectively to refer to species that are state or federally listed, species that are state or federal candidates for listing, and all species listed by the California Natural Diversity Database. This term is consistent with the biological resources that need to be assessed pursuant to the California Environmental Quality Act and the National Environmental Policy Act.



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- CNDDDB query for the Juniper Flat and the surrounding USGS 7.5 minute topographic quadrangles² (CDFW, 2018a).
- Electronic Inventory of Rare and Endangered Vascular Plants of California (California Native Plant Society [CNPS], 2018a) query for a list of all plant species reported for the Juniper Flat and surrounding USGS 7.5 minute topographic quadrangles.
- United States Fish and Wildlife Service (USFWS) Information for Planning and Conservation (IPaC) was query for threatened, endangered, proposed, and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of the proposed Project and/or may be affected by the proposed Project (USFWS, 2017).
- Biogeographical Information and Observation System (BIOS; CDFW, 2018b).

From the database queries, a list of potential plant and animal target species for the study area was compiled and is presented as **Table A-1 and Table A-2** in **Appendix A**. These tables include all plant and animal species reported by the CNDDDB, CNPS, and USFWS that have the potential to be present in the region of the Project Sites. Database queries identified 47 botanical species of concern and 30 wildlife species of concern that might be encountered at or near the Project Site. Of the 47 potential plant species listed by the agency resources, only 15 species have a low potential to occur within the Project area. Of the 30 potential animal species listed by the resources agencies, five species have a low potential to occur within the Project area. The remaining plant and animal species occupy habitats that are not found at the Project Sites.

Using information about sensitive species potentially present in the Project area, SHN conducted focused field evaluations in an attempt to determine if any of Project sites had suitable habitat for these species. Due to winter evaluations and the need to complete the biological evaluations prior to the spring and summer blooming periods to meet grant funding requirements, no focused seasonal botanical surveys were possible. Evaluations of biological resources were undertaken in the field, but only the early nesting season was captured for avian species that have a late winter return and courtship period.

Biological Investigations

General Observations of the Area

The Project Site has been developed for the use as the Lake Shastina CSD wastewater treatment facility (WWTF), roadways that provide routes for underground sewer pipelines, developed residential areas, developed sewer pump stations, and a managed golf course. Vegetation in these areas is generally comprised of disturbed low-growing grasses/forbs, with minor components of trees and shrubs that have been left after the original developments. No vegetation exists within the roadways, and limited vegetation exists around sewer pump stations as vegetation is seasonal cleared/managed from the sites. The landscape surrounding the Project Sites is comprised of developed residential uses, and areas of agricultural development (crop and grazing lands) adjacent to the WWTF. In areas where residential development is approved, but has not yet been achieved, native stands of juniper (*Juniperus*

² Grass Lake, Hotlum, Lake Shastina, Little Shasta, Mount Shasta, Solomons Temple, The Whaleback, Weed



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occidentalis) and sage (*Artemisia tridentata*) dominate, with pockets of Ponderosa pine (*Pinus ponderosa*). Developed residential properties are composed primarily of non-native ornamental vegetation managed for residential purposes. Some properties have remnant juniper/sage vegetation remaining, though this is managed to reduce the threat of wildfire impacts to structures.

Botanical

Botanical investigations were conducted in general conformance with the *Protocols for Surveying and Evaluating Impacts to Special Status Native Plant Populations and Natural Communities* (CDFW, 2009). A variation to the protocol included seasonal timing, which required botanical surveys of potential habitat to be conducted before the typical seasonal blooming period, due to grant funding constraints of the Project. The lack of seasonal timing is not seen as a significant issue, since the proposed work at the WWTF is within the previously developed wastewater ponds, roads and other developed sites; the pipelines are being reconstructed within the existing roadways of the residential areas and within the golf course; and the pump stations are existing developments that have vegetation removed and managed for access and to reduce wildfire threats.

Field observations characterized the natural community type as the "*Southern Cascade Alliance*" (CNPS, 2018b). The tree canopy within the study area (when not completely altered by existing residential and public facility development) was dominated by 25 to 35-foot tall junipers, with a canopy cover ranging from 20 to 40 percent. The shrub and herb layers were generally open, with less than five percent cover. In some areas adjacent to the Project sites, brush was dominant in patches with 100 percent cover.

The US Fish and Wildlife Service (USFWS, 2018) "National Wetland Inventory" (NWI) has mapped the existing wastewater treatment ponds as "freshwater ponds"; no other wetlands are identified by the NWI mapping for the balance of the Project. Since these water bodies are active wastewater ponds, managed for treatment of sewage, they do not qualify for other waters of the US, and are excluded from further evaluation. The NWI mapping does not necessarily consist of jurisdictional wetlands under the Clean Water Act, and in some cases NWI wetlands are mapped based solely on aerial imagery or soil descriptions with little or no ground verification. Field review did not locate any other wetlands or water bodies within the Project that would require special protections or further evaluations as wetlands. As a result of these investigations, the Project does not contain wetlands or other waters of the US, therefore the proposed Project developments will not impact wetlands or other waters of the US.

No habitat was found that is suitable for any Threatened or Endangered (including Proposed and Candidate) plant species under state or federal endangered species acts. Of the 47 total special status plant species reported within the Project area, only 15 species were identified that would have a low potential to be present at the Project Sites. Evaluation determined that the Project was being developed in areas that had previously been disturbed and that the Project would not impact any sites that had suitable habitat for the species with low potential for occurrence.



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Wildlife

Very limited wildlife sightings were made during field investigations. Observations included black tailed deer (*Odocoileus hemionus columbianus*) pellets, turkey vulture (*Cathartes aura*), raven (*Corvus corax*), American robin (*Turdus migratorius*), Scrub Jay (*Aphelocoma californica*), and white-breasted nuthatch (*Sitta carolinensis*). The presence of rodents was confirmed from ground burrow debris and burrow openings for ground squirrels (*Ostomys leucogaster beecheyi*). Based on the habitat present, it is anticipated that the Project Site and immediate surrounding areas are primarily used by small mammals and birds that can find forage and develop nest sites within the native and non-native vegetation present in the area. The lack of downed logs, dense stands and multi-layered forest vegetation, as well as proximity to human activities (treatment plant, residential development, roadways, golf course), eliminate the use of this area by old-growth related species.

Larger mammals such as coyote (*Canis latrans*), gray fox (*Urocyon cinereoargenteus*), bobcat (*Lynx rufus*), and mountain lion (*Puma concolor*), have been seen in the vicinity (investigator's personal observations and previous studies in the Project area) and are known to frequent the area. They are likely present to hunt prey (both native and residential/agricultural) and find limited daytime refuge in the juniper stands and patches of brush near the Project Site. Denning opportunities are not found at the Project Site, or in the immediate surrounding areas, due to lack of habitat and human disturbances. Other nocturnal mammals such as the striped skunk (*Mephitis mephitis*), opossum (*Didelphis virginiana*), and raccoons (*Procyon lotor*) are frequent visitors to residences and associated structures, and while not observed during our review, are known to occur in the area. Habitat offsite of the Project Site (houses, out-buildings, vegetation) is suitable for several of these species to use for daytime refuges.

Large raptors, such as hawks, owls, vultures, eagles are common in the Lake Shastina area and there is significant local observations and knowledge about their presence in the area (National Audubon Society, 2018; investigator's personal observations from previous studies in the Project area). Prairie falcon (*Falco mexicanus*) is listed in the literature as being present in the surrounding area, but was not observed. Habitat for this species lies further to the east where agricultural operations provide open terrain for this bird to hunt and suitable nesting habitats can be found. While this species may fly over the various portions of the Project, its suitable nesting and foraging habitat is not present in the areas proposed for development by this Project. A pedestrian survey of the Project Site and surrounding areas, including observations of area trees failed to locate large nests/nesting platforms for raptors.

Habitat within the proposed Project Site has been heavily impacted by historical construction the wastewater treatment facility, paved and unpaved roads, residential home developments, golf course, overhead power lines, underground utilities and related infrastructure. The WWTF site has been particularly impacted with development activities that have removed vegetation and constructed wastewater ponds, roads and ancillary facilities for collection, treatment and disposal of wastewater.

Primary species that are anticipated to be temporarily impacted by this Project include small mammals (mice, voles, ground squirrels), birds (finches, sparrows, scrub jay, warblers, etc.) and mammals such as



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black-tailed deer. Impacts would be to the use of the area by these species during construction, but once construction terminated these species are likely to return to pre-construction levels.

No habitat was found that is suitable for any listed Threatened or Endangered (including Proposed and Candidate) special status species. Specifically, for the 30 special status species of concern for the Project Area, five (5) species had a Low potential to be present at the Project Site. Those species are shown in **Table A-2 of Appendix A**.

Revised Project Description

The project description has been revised to include a *listing* of all the LSCSD pump stations that could potentially be upgraded through project funding provided by the California State Water Resources Control Board through the Proposition 1 Small Community Wastewater program. There are twenty (20) existing pump stations located within the LSCSD that pump wastewater to the district's wastewater treatment facility. These existing pump stations (also called 'lift' stations) have been identified as needing to have a variety of upgrades such as electrical and control components, repairs to sewer wet wells, installation of concrete pads for location of temporary emergency generators, installation of concrete steps at pump station doorways, and rehabilitation to existing underground piping. Not all pump stations need the same repairs. **Appendix B, Table B-1** provides a listing of each component of the revised project, including the pump stations, locations, physical impacts to ground area and a general description of the proposed improvements. ***NOTE: There are no changes to the proposed work at these sites, only a more detailed description with a listing of specific impacts at each project component location.***

Improvements correspond to those recommended by the Preliminary Engineering Report (PER) for the Wastewater Improvement project. Many of these improvements were not called out in detail in the Final Mitigated Negative Declaration (FMND), as they would normally be considered routine maintenance/replacement projects that would be exempt from CEQA. However, the analysis provided in the Original Biological Resources Technical Memorandum (BRTM) did evaluate these potential impacts as though the actions at the pumps stations would be completed as a single project and appropriate analysis was completed to determine if there might be any significant impacts to biological resources. While the analysis found no significant impacts, it was determined that the FMND was not clear enough in specifying those results and more clarification to document those lack of impacts was required. Like the original approved project, the revised project would not expand existing wastewater operations but would improve the overall efficiency of the system through upgraded facilities and equipment, and no new areas of impact would occur.

Updated Biological Data Evaluation

Using the Revised Project description, a reevaluation of biological resources was undertaken to determine if the more detailed areas of impact for the pump stations would have an impact to special status species. Evaluations were conducted in November 2019 and both state and federal species lists



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were updated again in January 2020 to reflect potential new listings that could have occurred with the new year. SHN reviewed the current CNDDG and USFWS IPaC species lists and other relevant information to determine any changes to the previous lists, as noted below:

- CNDDDB query for the Juniper Flat and the surrounding USGS 7.5 minute topographic quadrangles³ (CDFW, 2020a).
- Electronic Inventory of Rare and Endangered Vascular Plants of California (California Native Plant Society [CNPS], 2020a) query for a list of all plant species reported for the Juniper Flat and surrounding USGS 7.5 minute topographic quadrangles.
- United States Fish and Wildlife Service (USFWS) Information for Planning and Conservation (IPaC) was query for threatened, endangered, proposed, and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of the proposed Project and/or may be affected by the proposed Project (USFWS, 2020).
- Biogeographical Information and Observation System (BIOS; CDFW, 2020b).

The combined species of special concern list is found in **Appendix A**, and copies of the USFWS IPaC updated species lists are found in **Appendix C**.

Updated Results

As a result of the updated review, it was determined that there were no new federal species added to the IPaC species lists, as previously evaluated in the Original Project. Based on the fact that there were no new species listed, the original biological investigations were confirmed, and reevaluation of the potential impacts to these listed species from the Revised Project determined that there would still be no impacts.

Reevaluation of the CNDDDB information determined that there were three (3) additional wildlife species that had the potential to be located within the region of the project, but that were not specifically located within the immediate vicinity of the proposed actions. Review of the CNDDDB and CNPS data showed that there were no new botanical species of special concern identified for the area. Additional evaluation determined that the three additional wildlife species had a low potential for occurrence at the project activity sites; these species have been added to the consolidated tables in **Appendix A**. Data show that the Bald Eagle, Swainson's Hawk, and the Western Pond Turtle have been mapped in the vicinity of the project. The potential impacts to these species are presented below.

Bald Eagle (*Haliaeetus leucocephalis*)

The bald eagle is a Federally Delisted species, but is protected by the Bald and Golden Eagle Protection Act. It is also a state listed Endangered species. This species has been mapped south of the project area, and utilizes Lake Shastina to forage. There is no suitable habitat at any of the Revised Project sites,

³ Grass Lake, Hotlum, Lake Shastina, Little Shasta, Mount Shasta, Solomons Temple, The Whaleback, Weed



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and project activities do not encroach on existing offsite nesting locations. While the bald eagle is likely to hunt and traverse through the project area (which has been developed for residential, recreational and public facility uses), there is no specific habitat for this species that would be impacted by the project. Since development of the Revised Project is within previously disturbed and other developed sites, there would be no impact to this species from the Revised Project.

Swainson's Hawk (*Buteo swainsoni*)

The Swainson's hawk is a state listed Threatened species. Habitat for this species consists of open fields and farmlands where the animal hunts, located to the east of the project site, though they may be found farther west along the open prairies along Interstate 5. Nesting is generally in isolated trees that have vistas of their hunting grounds. There is no suitable nesting or foraging habitat at the project site, which has been developed for residential and recreational purposes. While this species is likely to transit the project area, and may take the opportunity to hunt the golf course, this use is not considered significant as their primary habitats are elsewhere. Based on this species requirements, and the lack to any visible nesting sites, there will be no impact to this species from the Revised Project.

Western Pond Turtle (*Emys marmorata*)

The western pond turtle is known to occur outside of the project area to the south in an area of Lake Shastina. This is a state Species of Special Concern. It is likely that there are more western pond turtle sites along the shore of Lake Shastina, but they are not documented in the literature. The Revised Project does not propose any activities on the banks or shoreline of Lake Shastina, or in waterways; this project is an upland project in previously developed areas, well away from water sources. As such, the Revised Project will have no impact to western pond turtles.

Revised Conclusions

After review of the Revised Project, it was confirmed that there are 80 special status plant and animal species reported within the region consisting of the study area's quadrangle (Juniper Flat) and the surrounding topographic quadrangles (CDFW, 2018a; USFWS, 2017) that would have the potential for being impacted by the Revised Project. Of the 80 special status species, 23 species listed in **Tables A-1 and A-2 of Appendix A** are considered to have a Low potential to occur near the study area. The other species have no potential to occur based on habitat requirements. Survey of the Project Site and immediate surrounding habitat failed to locate special status species or specific habitat that might be impacted by this Project. Based on this investigation, there would be not effect to special status species.

Updated species lists from the CNDDDB and USFWS was secured for the project, and included all of the areas of the Revised Project. A copy of the compiled list is found in **Appendix A** and copies of the USFWS species lists are found in **Appendix C**. Review of that list confirmed that there are no new federally designated special status species, and that results of the original investigations are still valid. Additionally, review of the Revised Project confirms that there are no new impacts as a result of the Revised Project.



Avoidance and Minimization

No special status plant or animal species or their habitats were observed within or adjacent to the Project Site for the Revised Project; therefore, no avoidance or minimizations of impacts are recommended.

Mitigation Measures

Based on research and review of data collected for the Revised Project, and subsequent site specific evaluations, no biological mitigation measures are needed for the development of this Project.

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Potential Regionally
Occurring Sensitive
Species

A

Potential Regionally Occurring Sensitive Species
Lake Shastina CSD Wastewater Improvement Project
Lake Shastina, Siskiyou County, California

A California Natural Diversity Database (CNDDB; CDFW, 2018a) search was completed for the 7.5-minute U.S. Geological Survey (USGS) Juniper Flat quadrangle and the surrounding USGS 7.5 minute topographic quadrangles (**Tables A-1 and A-2**). Additionally, the US Fish and Wildlife Service (USFWS, 2017) species list was used to determine the potential presence of federally protected species (**Tables A-1 and A-2**).

Table A-1 presents the botanical species and **Table A-2** presents the animal species reported from the queries, their preferred habitat, and whether there is suitable habitat present within the study area for the species. Each species was evaluated for its potential to occur within the study area according to the following criteria:

- 1) **None.** Species listed as having “none” with regard to their potential to occur on the study area are those species for which:
 - There is no suitable habitat present in the study area. (Habitats in the study area are unsuitable for the species requirements [for example, elevation, hydrology, plant community, disturbance regime, and so on].)
- 2) **Low.** Species listed as having a “low” potential to occur in the study area are those species for which:
 - There is no known record of occurrence in the vicinity of the study area, and
 - There is marginal or very limited suitable habitat present in the study area.
- 3) **Moderate.** Species listed as having a “moderate” potential to occur on the study area are those species for which:
 - There is a known record of occurrence in the vicinity of the study area, and
 - There is suitable habitat present in the study area.
- 4) **High.** Species listed as having a “high” potential to occur in the study area are those species for which:
 - There is a known record of occurrence in the vicinity of the study area (there are many records and/or records in close proximity), and
 - There is highly suitable habitat present in the study area.
- 5) **Present.** Species listed as “present” in the study area are those species for which:
 - The species was observed in the study area during the investigations.

Table A-1
Updated Potential Regionally Occurring Sensitive Botanical Species
Lake Shastina Community Services District Wastewater Treatment Facility and Collections System Upgrades

Species Latin Name	Common Name	Status (Federal/ State/CNPS) ¹	Life Form/General Habitat Requirements ²	Blooming Period	Potential for Occurrence
<i>Allium siskiyouense</i>	Siskiyou onion	--/--/4.3	Perennial bulbiferous herb. Lower montane coniferous forest, Upper montane coniferous forest. Rocky, sometimes serpentinite. 855-2500 meters.	May-Jul	Low
<i>Balsamorhiza lanata</i>	woolly balsamroot	--/--/1B.2	Perennial herb. Cismontane woodland, open woodland, grassy slopes; Elevation: 800-1050 meters	Apr-Jun	Low
<i>Balsamorhiza sericea</i>	Silky balsamroot	--/--/1B.3	Perennial herb. Lower montane coniferous forest (serpentinite) 2785-6990 meters	Apr-May	Low
<i>Campanula scabrella</i>	Rough harebell	--/--/4.3	Perennial rhizomatous herb. Alpine bare talus slopes 7495-9185 meters	Aug-Sept	None
<i>Calochortus greenei</i>	Greene's mariposa-lily	--/--/1B.2	Perennial bulbiferous herb. Cismontane woodland, Meadows and seeps, Pinyon and juniper woodland, Upper montane coniferous forest 3395-6200 meters	Jun-Aug	Low
<i>Calochortus monanthus</i>	Single-flowered mariposa-lily	--/--/1A	Perennial bulbiferous herb. Presumed extinct; vernal meadow 2440-2625 meters	Jun	None
<i>Carex geyeri</i>	Geyer's sedge	--/--/4.2	Perennial rhizomatous herb. Open forest, slopes 3785-7200 meters	May-Aug	Low
<i>Carex viridula</i> ssp. <i>Viridula</i>	Green yellow sedge	--/--/2B.3	Perennial rhizomatous herb Sphagnum bogs, wet meadows, dune swales, lakeshores, serpentine fens 0-5250 meters	(Jun)Jul-Sep(Nov)	None
<i>Chaenactis suffrutescens</i>	Shasta chaenactis	--/--/1B.3	Perennial herb. Lower montane coniferous forest, Upper montane coniferous forest. Sandy or serpentine soils. 750-2800 meters.	May-Sep	None
<i>Chamaesyce hooveri</i>	Hoover's spurge	FT--/1B.2	An annual herb that is associated with vernal pools	Jul-Sep	None

Table A-1 (continued)
Updated Potential Regionally Occurring Sensitive Botanical Species
Lake Shastina Community Services District Wastewater Treatment Facility and Collections System Upgrades

Species Latin Name	Common Name	Status (Federal/ State/CNPS) ¹	Life Form/General Habitat Requirements ²	Blooming Period	Potential for Occurrence
<i>Collomia tracyi</i>	Tracy's collomia	--/--/4.3	Annual. Rocky, sometimes serpentinite. Broadleaved upland forest, or Lower montane coniferous forest 980-6890 meters	Jun-Jul	Low
<i>Cordylanthus tenuis ssp. Pallescens</i>	Pallid birds-beak	--/--/1B.2	Annual herb (hemiparasitic) Lower montane coniferous forest (gravelly, volcanic alluvium). 2280-5395 meters.	Jul-Sept	Low
<i>Cypripedium californicum</i>	California lady's-slipper	--/--/4.2	Perennial rhizomatous herb Stream banks, moist slopes, fens, partial shade to full sun, mixed-evergreen or conifer forest. 95-9020 meters	Apr-Aug	None
<i>Cypripedium fasciculatum</i>	clustered lady's-slipper	--/--/4.2	Perennial rhizomatous herb. Lower montane coniferous forest, North Coast coniferous forest. Usually serpentinite seeps and stream banks. In serpentine seeps and moist stream banks. 100-2435 meters.	Mar-Aug	None
<i>Darlingtonia californica</i>	California pitcher plant	--/--/4.2	Perennial rhizomatous herb (carnivorous). Bogs and fens, Meadows and seeps. Mesic, generally serpentinite seeps. On ultramafic soils. 0-8480 meters.	Apr-Aug	None
<i>Epilobium luteum</i>	Yellow willowherb	--/--/2B.3	Perennial stoloniferous herb. Lower montane coniferous forest , Moist streambanks, montane meadows 4920-7200 meters	Jul-Sep	None
<i>Erigeron bloomeri</i> var. <i>nudatus</i>	Waldo daisy	--/--/2B.3	Perennial herb. Lower montane coniferous forest, Upper montane coniferous forest. In open areas on dry rocky outcrops on serpentine. 730-1740 meters.	Jun-Jul	None
<i>Eriogonum nivalis</i>	Snow fleabane daisy	--/--/2B.3	Perennial herb. Upper montane coniferous forest (often serpentinite). Often on serpentine. 1735-2440 meters.	Jun-Sep	None

Table A-1 (continued)
Updated Potential Regionally Occurring Sensitive Botanical Species
Lake Shastina Community Services District Wastewater Treatment Facility and Collections System Upgrades

Species Latin Name	Common Name	Status (Federal/ State/CNPS) ¹	Life Form/General Habitat Requirements ²	Blooming Period	Potential for Occurrence
<i>Eriogonum siskiyouense</i>	Siskiyou buckwheat	--/--/4.3	Perennial herb. Lower montane coniferous forest. Rocky sites and serpentine outcrops. 970-2740 meters.	Jul-Sep	None
<i>Eriogonum strictum</i> var. <i>greenei</i>	Greene's buckwheat	--/--/4.3	Perennial herb. Lower montane coniferous forest. Rocky, serpentine sites. 800-2100 meters.	Jul-Sep	None
<i>Erythronium revolutum</i>	Coast fawn lily	--/--/2B.2	Perennial bulbiferous herb. Mesic, streambanks. Bogs and fens, Broadleafed upland forest, North Coast coniferous forest 0-5250 meters.	Mar-Jul	None
<i>Fritillaria gentneri</i>	Gentner's fritillary	FE/--/1B.1	Chaparral, cismontane woodlands and lower montane coniferous forests. Often associated with serpentine.	Apr-May	None
<i>Galium serpticum</i> ssp. <i>scotticum</i>	Scott Mountain bedstraw	--/--/1B.2	Perennial herb. Lower montane coniferous forest. Generally on North-facing slopes on serpentine in mixed conifer forest. 1000-2075 meters.	May-Aug	None
<i>Hesperocyparis bakeri</i>	Baker's cypress	--/--/4.2	Evergreen Tree. Chaparral, Lower montane coniferous forest, open slopes, flats, often on serpentine 2690-6545 meters	N/A	Low
<i>Hymenoxys lemmonii</i>	Alkali hymenoxys	--/--/2B.2	Perennial herb. Great Basin scrub. Lower montane coniferous forest. Meadows and seeps 785-11120 meters	Jun-Aug	Low
<i>Ilamna bakeri</i>	Baker's globe mallow	--/--/4.2	Perennial herb Mtn slopes, juniper woodland, lava beds 3280-8200 meters	Jun-Sept	Low
<i>Ivesia pickeringii</i>	Pickering's ivesia	--/--/1B.2	Perennial herb. Lower montane coniferous forest, Meadows and seeps. Mesic, clay, usually serpentinite seeps. 850-1525 meters.	Jun-Aug	None
<i>Lomatium engelmannii</i>	Engelmann's lomatium	--/--/4.3	Perennial herb. Chaparral, Lower montane coniferous forest, Upper montane coniferous forest. Gravelly serpentine slopes in yellow pine and red fir forests, serpentine ridges. 870-2740 meters.	May-Aug	None

Table A-1 (continued)
Updated Potential Regionally Occurring Sensitive Botanical Species
Lake Shastina Community Services District Wastewater Treatment Facility and Collections System Upgrades

Species Latin Name	Common Name	Status (Federal/ State/CNPS) ¹	Life Form/General Habitat Requirements ²	Blooming Period	Potential for Occurrence
<i>Lomatium peckianum</i>	Peck's lomatium	--/--/2B.2	Perennial herb. Chaparral, Lower montane coniferous forest, Upper montane coniferous forest. Gravelly serpentine slopes in yellow pine and red fir forests, serpentine ridges. 870-2740 meters.	May-Aug	None
<i>Opuntia fragilis</i>	Brittle prickly-pear	--/--/2B.1	Perennial stem succulent. Pinyon and juniper woodland (volcanic) 2690-2885 Meters	Apr-Jul	Low
<i>Orcuttia tenuis</i>	Slender Orcutt grass	FT/SE/1B.1	Grasslands, freshwater wetlands, and wetland-riparian habitats.	May-Sep.	None
<i>Orthocarpus pachystachyus</i>	Shasta orthocarpus	--/--/1B.2	Annual herb Great Basin scrub, Meadows and seeps, Valley and foothill grassland. 2755-2790	May	Low
<i>Phacelia cookei</i>	Cook's Phacelia	--/--/1B.1	Sandy, volcanic Great Basin scrub, lower montane coniferous forest open areas, volcanic, sandy soils, scrub 2620-8005 meters.	Jun-Jul	Low
<i>Phacelia greenei</i>	Scott Valley phacelia	--/--/1B.2	Annual herb. Closed-cone coniferous forest, Lower montane coniferous forest, Subalpine coniferous forest, Upper montane coniferous forest. Bare serpentine ridges and openings in yellow pine and red fir forest communities. 850-2380 meters.	Apr-Jun	None
<i>Phacelia sericea</i> var. <i>ciliosa</i>	Blue alpine Phacelia	--/--/2B.3	Perennial herb. Ridges, talus slopes, Great Basin scrub, Upper montane coniferous forest (rocky) 6885-8860 meters	Jun-Aug	None
<i>Phlox hirsuta</i>	Yreka phlox	FE/SE/1B.2	Perennial herb. Lower montane coniferous forest, Upper montane coniferous forest. Serpentinite talus/gravel. Open slopes and grasslands, on serpentine gravel. 830-1280 meters.	Apr-Jun	None
<i>Polemonium pulcherrimum</i> var. <i>shastense</i>	Mt. Shasta sky pilot	--/--/1B.2	Perennial herb. Alpine boulder and rock field, Subalpine coniferous forest, Upper montane coniferous forest. 2175-3900 meters.	Jun-Sep	None

Table A-1 (continued)
Updated Potential Regionally Occurring Sensitive Botanical Species
Lake Shastina Community Services District Wastewater Treatment Facility and Collections System Upgrades

Species Latin Name	Common Name	Status (Federal/ State/CNPS) ¹	Life Form/General Habitat Requirements ²	Blooming Period	Potential for Occurrence
<i>Sabulina stolonifera</i>	Scott Mountain sandwort	--/--/1B.3	Perennial stoloniferous herb. Lower montane coniferous forest. Serpentine soils, Jeffrey pine forest. 1125-2020 meters.	May-Aug	None
<i>Sedum divergens</i>	Cascade stonecrop	--/--/2B.3	Perennial herb. Alpine boulder and rock field. 5245-7645 meters	Jul-Sep	None
<i>Sedum laxum</i> ssp. <i>Flavidum</i>	Pale yellow stonecrop	--/--/4.3	Perennial herb. Serpentine or volcanic. Broadleaved upland forest, Chaparral, Cismontane woodland 1490-6560 meters	May-Jul	None
<i>Shepherdia canadensis</i>	Canadian buffalo-berry	--/--/2B.1	Perennial shrub. Streamside, serpentine, rocky. Upper montane coniferous forest. 5675-5680 meters	Apr-July	None
<i>Stachys pilosa</i>	Hairy marsh hedge-nettle	--/--/2B.3	Perennial herb. streamside, serpentine, rocky. Upper montane coniferous. 3935-5805 meters	Jun-Aug	None
<i>Thelypodium branchycarpum</i>	Short-podded thelypodium	--/--/4.2	Perennial herb. Serpentine, adobe, alkaline. Chaparral, Lower montane coniferous forest, Meadows and seeps. 2195-8400 meters	May-Aug	None
<i>Trifolium siskiyouense</i>	Siskiyou clover	--/--/1B.1	Perennial herb. Meadows and seeps (mesic). Sometimes stream banks. 880-1500 meters.	Jun-Jul	None
<i>Triteleia grandiflora</i>	Large-flowered triteleia	--/--/2B.1	Perennial bulbiferous herb. Great Basin scrub, Pinyon and juniper woodland. 2295-4920 meters.	Apr-Jun	Low
<i>Triteleia hendersonii</i>	Henderson's triteleia	--/--/2B.1	Perennial bulbiferous herb. Cismontane woodland, dry slopes. 2490-3935 meters.	May-Jul	Low
<i>Vaccinium scoparium</i>	little-leaved huckleberry	--/--/2B.2	Perennial deciduous shrub. Subalpine coniferous forest. Sometimes serpentine. 1035-2200 meters.	Jun-Aug	None

Table A-1 (continued)
Updated Potential Regionally Occurring Sensitive Botanical Species
Lake Shastina Community Services District Wastewater Treatment Facility and Collections System Upgrades

Species Latin Name	Common Name	Status (Federal/ State/CNPS) ¹	Life Form/General Habitat Requirements ²	Blooming Period	Potential for Occurrence
<p>1. FC: Federal Candidate species being proposed for listing under the Federal Endangered Species Act (FESA), as amended. FE: Federal Endangered species pursuant to the FESA, as amended. FT: Federal Threatened species, pursuant to the FESA, as amended. SE: State Endangered species, pursuant to California Endangered Species Act (CESA). ST: State Threatened species, pursuant to CESA. CNPS List 1B includes plants that are rare, threatened, or endangered in CA and elsewhere. CNPS List 2 includes plants that are rare, threatened, or endangered in California but more common elsewhere. CNPS List 3 includes plants for which more information is needed—a review list. CNPS List 4 includes plants of limited distribution and should be documented as they are watch list species</p> <p>2. Plant habitat descriptions are from CDFW (2017a), CDFW (2017b), CNPS (2017), and Baldwin et. al (2012).</p> <p>N/A: Not Applicable “-”: no status/listing.</p>					

Table A-2
Updated Potential Regionally Occurring Sensitive Wildlife Species
Lake Shastina Community Services District Wastewater Treatment Facility and Collections System Upgrades

Species Latin Name	Common Name	Status (Federal/State) ¹	General Habitat Requirements	Potential for Occurrence
Crustaceans/Mollusks				
<i>Branchinecta lynchi</i>	vernal pool fairy shrimp	FT/--	A freshwater fairy shrimp. Found in palustrine habitats of herbaceous wetland, scrub-shrub wetland and temporary pools. This species inhabits vernal pools or basalt flow depression pools in unplowed grasslands.	None
<i>Branchinecta conservation</i>	conservancy fairy shrimp	FE/--	A freshwater fairy shrimp. Found in palustrine habitats of herbaceous wetland, scrub-shrub wetland and temporary pools. This species inhabits vernal pools or basalt flow depression pools in unplowed grasslands.	None
<i>Lepidurus packardii</i>	vernal pool tadpole shrimp	FE/--	Lives in freshwater vernal pools associated with grasslands, primarily in the Central Coast, Sacramento and San Joaquin Valleys, and the southern Sierra Nevada foothills. Requires vernal pools and other seasonally temporary water bodies that are inundated for a portion of the year.	None
<i>Monadenia infumata ochromphalus</i>	yellow-based sideband	--/ST	A terrestrial snail. This sub-species is an old growth and riparian associate found on leaves, sticks, concrete walls of irrigation ditches and mossy boulders and stones. Species has not been found since 1960s and possibly extirpated from the region.	None
Fish				
<i>Chasmistes brevirostris</i>	shortnose sucker	FE/--	A sucker (fish) with a hump on the snout; up to 64 cm long. Adults and juveniles prefer shallow, turbid, and highly productive lakes that are cool, but not cold, in summer. Habitat for this species is found in the Upper Klamath Basin, with young utilizing the mouths of streams along the Klamath River during outmigration.	None
<i>Deltistes luxatus</i>	Lost River sucker	FE/--	A sucker (fish) with a distinct hump on the snout; to 86 cm long. Found in the upper Klamath River Basin. Habitat includes deep-water lakes and impoundments, and swift water and deep pools of small to medium rivers. Suckers can be found throughout the reservoirs they inhabit but they appear to prefer shorelines with emergent vegetation that can provide cover from predators and invertebrate food.	None

Table A-2
Updated Potential Regionally Occurring Sensitive Wildlife Species
Lake Shastina Community Services District Wastewater Treatment Facility and Collections System Upgrades

Species Latin Name	Common Name	Status (Federal/State) ¹	General Habitat Requirements	Potential for Occurrence
<i>Oncorhynchus kisutch</i>	Southern Oregon/northern California (SONCC) coho salmon (ESU)	FT/--	Freshwater, near shore and offshore environments throughout their lifecycles. Coho prefer low stream velocity, shallow water and small gravel. Spawning and rearing habitat mainly in low gradient tributaries and side channels of river systems. Require beds of loose, silt-free, coarse gravel for spawning. Also need cover, cool water, and sufficient dissolved oxygen.	None
<i>Oncorhynchus mykiss irideus</i>	Steelhead-Central California Cast (DPS)	--/SSC	A trout of variable appearance. In California, adult migrants of summer-run steelhead enter freshwater streams April-June (sometimes extending into July), during or shortly after final high spring flows. Spawns in gravelly substrate in cool, clear, well-oxygenated streams (natal stream), in water flowing 23-155 cm/sec and 10-150 cm deep, usually at the tail of a pool or at the riffle at the head of a pool; favors areas with well-vegetated banks and abundant in stream cover such as boulders, logs, and undercut banks	None
<i>Oncorhynchus tshawytscha</i>	Chinook Salmon-California Coast (ESU)	FC/--	Spawns tributaries of coastal California, including the Klamath River and Scott River.	None
Amphibians				
<i>Ambystoma macrodactylum sigillatum</i>	southern long-toed salamander	--/SSC	A large salamander associated with permanent water where it lays eggs and young live in water before transitioning to terrestrial life stage. Live under logs, and in other animals burrows, in cool and moist/wet sites.	None
<i>Ascaphus truei</i>	Pacific tailed frog	--/SC	A small frog with a tail-like appendage in males. Found in clear, cold swift-moving mountain streams with coarse substrates. Primarily in older forest sites. May be found on land during wet weather near water in humid forests or in more open habitat	None
<i>Emys marmorata</i>	Western pond turtle	--/SSC	Inhabits ponds, streams rivers and lakes where slow moving or backwaters allow for calm water. Utilizes submerged and exposed logs, rocks and other structures to access water and bask in sun. Will migrate between water bodies, and overwinters in some locations in moist uplands.	Low

Table A-2
Updated Potential Regionally Occurring Sensitive Wildlife Species
Lake Shastina Community Services District Wastewater Treatment Facility and Collections System Upgrades

Species Latin Name	Common Name	Status (Federal/State) ¹	General Habitat Requirements	Potential for Occurrence
<i>Plethodon elongates</i>	Del Norte salamander	--/SSC	A terrestrial species, this salamander prefers talus and rocky substrates, and downed logs with nearby rocky substrates of forests. Canopy cover is typically 60% or greater. This salamander uses the rocky substrate that is moist, but not wet, and does not require any standing water.	None
<i>Rana boylei</i>	foothill yellow-legged frog	--/SC	A frog with dorsolateral ridges. This species usually occurs in or near quiet permanent water of streams, marshes, ponds, lakes, and other quiet bodies of water. In summer, frogs estivate in small mammal burrows, leaf litter, or other moist sites in or near (within a few hundred feet of) riparian areas. Individuals may range far from water along riparian corridors and in damp thickets and forests.	None
<i>Rana cascadae</i>	Cascades frog	--/SC	A medium sized frog. Found in wet mountain meadows, sphagnum bogs, ponds, lakes, and streams, in open coniferous forest. Prefers quiet ponds with shallow open water for breeding and egg laying.	None
<i>Rana pretiosa</i>	Oregon spotted frog	FT/--	A medium sized frog. Highly aquatic, avoids dry uplands; rarely found far from permanent quiet water; usually occurs at the grassy margins of streams, lakes, ponds, springs, and marshes.	None
Birds				
<i>Accipiter gentilis</i>	Northern Goshawk	--/SSC	Forest habitats of medium to large conifers where it nests and hunts through the tree canopy. May be found near open fields to take prey of small mammals and birds that are feeding in these agricultural areas.	Low
<i>Accipiter striatus</i>	Sharp-shinned hawk	--/SSC	Forest habitat where it nests and hunts. May be found adjacent to open fields during migration periods.	Low
<i>Aquila chrysaetos</i>	Golden Eagle	--/SSC	Wide ranging bird that prefers to build nests in high locations such as cliffs. They hunt a variety of habitats such as forest openings and agricultural fields where they take small mammals.	None
<i>Ardea herodias</i>	great blue heron	--/SSC	Hérons live along freshwater habitats, including streams, rivers, lakes, ponds and residential fish/koi ponds where they feed on small fish, rodents, reptiles, insects and sometimes small birds. They use agricultural fields for hunting. Breeding colonies occur in isolated areas of swamps, bogs islands and other areas bordered by water.	Low

Table A-2
Updated Potential Regionally Occurring Sensitive Wildlife Species
Lake Shastina Community Services District Wastewater Treatment Facility and Collections System Upgrades

Species Latin Name	Common Name	Status (Federal/State) ¹	General Habitat Requirements	Potential for Occurrence
<i>Buteo swainsoni</i>	Swanson's Hawk	--/ST	A medium sized hawk that breeds in the western US and Canada and overwinters in South America. Hunts in open grasslands and agricultural fields where it takes rodents, small mammals and birds. Nests adjacent to riparian systems but is also known to utilize isolated trees adjacent to foraging habitat.	Low
<i>Coccyzus americanus</i>	Western yellow-billed cuckoo	FT/--	Nests in tall cottonwood and willow riparian woodland. Requires patches of at least 10 hectares (25 acres) of dense riparian forest with a canopy cover of at least 50 percent in both the understory and overstory; nests typically in mature willows.	None
<i>Falco mexicanus</i>	prairie falcon	--/SSC	A brown falcon. Primarily open situations, especially in mountainous areas, steppe, plains or prairies. Typically nests in pot hole or well-sheltered ledge on rocky cliff or steep earth embankment. Vertical cliffs with rock structure overhanging the site are preferred. May use old nest of raven, hawk, eagle, etc. Winter foraging habitat includes wheat and other irrigated croplands. In all cases, large patches with low vegetation stature characterize the habitats used.	Low
<i>Falco peregrines anatum</i>	American peregrine falcon	FD/SD	Found in forests, mountain ranges and river valleys. Is also becoming more common in cities with large buildings that can act as breeding locations. Nests are generally 'scraped' into the cliff ledge. Hunts primarily on other birds, but will take small mammals when available.	None
<i>Grus canadensis</i>	greater sandhill crane	--/ST	Habitat for foraging consists of prairies and grasslands and marshes where they hunt invertebrates and grain crops. Breeding areas can be in marshes and bogs or dry land, depending on available habitat and protection from predators.	None
<i>Haliaeetus leucocephalus</i>	Bald eagle	FD/SE	Inhabits a wide range of areas but prefers access to water bodies (lakes, rivers, ponds, ocean) where it can fish and forage for carcasses of animals. Nests in large platform nests in larger trees. Perches in trees, power poles and other tall structures to observe prey in fields and waterways.	Low

Table A-2
Updated Potential Regionally Occurring Sensitive Wildlife Species
Lake Shastina Community Services District Wastewater Treatment Facility and Collections System Upgrades

Species Latin Name	Common Name	Status (Federal/State) ¹	General Habitat Requirements	Potential for Occurrence
<i>Pandion haliaetus</i>	Osprey	--/SSC	Ospreys are found in a wide variety of habitats, but always associated with rivers, lakes and ocean inlets/bays/estuaries. They are an exclusive fish eater. Nests are at the top or very upper most parts of single trees, tops of telephone/power poles, and other manmade 'pole' structures that provide an adequate platform to build a stick nest and have views of water.	None
<i>Riparia riparia</i>	bank swallow	--/ST	Habitat includes open and partly open situations, frequently near flowing water. Nests are in steep sand, dirt, or gravel banks, in burrows dug near the tip of the bank. They can also be found along the edge of inland water, or along the coast. Occasionally they are seen in gravel pits or road embankments. Individuals tend to return to the same nesting area in successive years.	None
<i>Strix occidentalis caurina</i>	northern spotted owl	FT/--	Northern spotted owl is generally found in coastal to mountainous mature coniferous forests. This species nests in cavities or on natural platforms of dense mature forests.	None
Mammals				
<i>Canis lupus</i>	gray wolf	FE/SCE	Large tracts of land that include forest, range and agriculturally developed areas. Reported in northern Siskiyou County near Oregon.	Low
<i>Corynorhinus townsendii</i>	Townsend's Big-eared Bat	--/SSC	This bat is known to inhabit mines, caves and buildings where it establishes roosts and maternal colonies to raise young; brood colonies can number into the hundreds of individuals. They feed on a variety of insects.	None
<i>Gulo gulo</i>	California wolverine	FPT/ST	A large mustelid. Found in Alpine and arctic tundra, boreal and mountain forests (primarily coniferous). Usually found in areas with snow on the ground in winter. Riparian areas may be important winter habitat. May disperse through atypical habitat. When inactive, occupies den in cave, rock crevice, under fallen tree in thicket, or similar site. Terrestrial and may climb trees.	None

Table A-2
Updated Potential Regionally Occurring Sensitive Wildlife Species
Lake Shastina Community Services District Wastewater Treatment Facility and Collections System Upgrades

Species Latin Name	Common Name	Status (Federal/State) ¹	General Habitat Requirements	Potential for Occurrence
<i>Pekania pennanti</i>	fisher, West Coast DPS	FPT/SCT	Utilizes low- to mid-elevation coniferous, mixed conifer and hardwood forests that have an abundant variety of physical structures (downed logs, snags, dense ground vegetation, open patches, etc.). These habitats provide a wide variety of prey which are key for the fisher. Fishers also occupy and reproduce in some managed forest landscapes and forest stands not classified as late-successional that provide some of the habitat elements important to fisher, such as relatively large trees, high canopy closure, abundant snags, down logs and variety of vegetation types.	None

1. Abbreviation/Acronym:

-- “: No Status/Listing

DPS: Distinct Population Segment

ESU: Evolutionarily Significant Unit

FC: Federal Candidate. This designation includes taxa that require additional information to propose for listing pursuant to the Federal Endangered Species Act (FESA), as amended.

FD: Federally Delisted, but protected under other federal laws and management plans

FE: Federally-listed Endangered, pursuant to the FESA, as amended. This designation includes taxa that are in danger of extinction throughout all or a significant portion of their range.

FT: Federally-listed Threatened, pursuant to the FESA, as amended. This designation refers to species that are not presently threatened with extinction but are likely to become endangered throughout all or a significant portion of their range in the foreseeable future if special protection and management efforts are not undertaken.

FPT: Federally Proposed Threatened-while not fully “listed” the Proposed status requires protection as though the species was listed.

SCE: State Candidate Endangered-Species is a candidate for listing and is protected as such

SCT: State Candidate Threatened-Species is a candidate for listing and is protected as such.

SD: State Delisted, but protected under other state laws and regulations

SE: State-listed Endangered, pursuant to California Endangered Species Act (CESA). SE designation includes taxa that are in danger of extinction throughout all or a significant portion of their range.

SONCC: Southern Oregon Northern California Coast

SSC: Species of Special Concern are species that the CDFG consider of conservation concern. These species must be considered pursuant to CEQA.

ST: State-listed Threatened, pursuant to CESA. ST designation includes taxa that are likely to become endangered throughout a significant portion of their range.

Revised Project
Components

B

The following table (**Table B-1**) provides a summary of the Revised Project components, outlining the various project element components, location and areas of impacts.

Table B-1 Summary of Revised Project Components

Project Component/Activity	Location	Ground Disturbing Activity	Length (ft.)	Width (ft.)	Depth below ground surface (ft.)	Height above ground surface (ft.)	Notes
Pond 5 Liner	Wastewater Treatment Facility (Big Springs Road)	N/A	N/A	N/A	N/A	N/A	Liner applied to surface of existing Pond 5 that has been previously constructed. No new surface impacts.
Ton Lema Pipeline	From Tony Lema Drive at Rossburg Place to Pump/Lift Station B-120, crossing the 6 th Fairway of the Scottish Links Golf Course.	Trenching for electrical and piping	1,400	1.5	4	N/A	Approximately 800 feet of project within minimally developed land of the golf course and vacant residential lot. Remaining 600 feet within existing streets.
Lake Shore Pipeline	On Lake Shore Drive starting near the intersection of Cottonwood Drive at Pump/Lift Station B-111 and terminating just south of Palmer Drive near Pump/Lift Station B-109.	Trenching for electrical and piping	3,100	1.5	4	N/A	All pipeline work will be within existing Lake Shore Drive, a paved street. Electrical line upgrades will be through existing underground conduit. Pump/Lift stations B-109 and B-111 are within the pipelines APE. No work will occur at B-109 as this station is being bypassed by the work.

Table B-1 Summary of Revised Project Components

Project Component/Activity	Location	Ground Disturbing Activity	Length (ft.)	Width (ft.)	Depth below ground surface (ft.)	Height above ground surface (ft.)	Notes
Primary Tank	Wastewater Treatment Facility (Big Springs Road)	New tank construction in previously developed site	20	20	8	N/A	Install new tank in area of historic construction activity. Previous import of non-native fill at site for use in wastewater pond construction. Depth of construction may impact up to 2-feet of native soils below 8 feet.
Sludge Drying Bed	Wastewater Treatment Facility (Big Springs Road)	Concrete pad installation	100	45	2.5 feet of excavation	N/A	Drying bed located in previously excavated area adjacent to Ponds 1 and 2. Leachate pipeline connected to Ponds that are immediately adjacent.
Pond 1 Reconfiguration	Wastewater Treatment Facility (Big Springs Road)	N/A	N/A	N/a	N/A	N/A	Modify existing pond to accommodate headworks and wastewater flows. Work within existing Pond 1, no expansion of size
Pump/Lift Station B-100	Lake Shore Drive between intersections with Rainbow Drive and Indian Island.	Trenching for electrical and piping	75	1.5	1.5	N/A	Electrical upgrades within existing building. No work proposed for wet wells or pipelines. Construction of concrete pad for emergency generator.
		Concrete pad for emergency generator	10	6	1	N/A	
Pump/Lift Station B-101	East side of Spear Point Drive	Trenching for electrical and piping	75	1.5	1.5	N/A	Re-lining of existing wet wells. Upgrades to electrical inside existing building. Trenching for piping and electrical. Construction of concrete pad for emergency generator.
		Concrete pad for emergency generator	10	6	1	N/A	
Pump/Lift Station	West side of Spear	Trenching for electrical and	100	1.5	1.5	N/A	Shown as B-107 on District mapping. Re-lining of existing wet wells. Concrete pad and

Table B-1 Summary of Revised Project Components

Project Component/Activity	Location	Ground Disturbing Activity	Length (ft.)	Width (ft.)	Depth below ground surface (ft.)	Height above ground surface (ft.)	Notes
B-102	Point Drive	piping					retaining wall for emergency generator. Trenching for piping and electrical. Upgrades to electrical inside existing building.
		Concrete pad for emergency generator	10	6	1	N/A	
		Retaining wall	20	1.5	1.5	1	
Pump/Lift Station B-103	Lake Shastina Dr. North of Lakeview Dr.	Trenching for electrical and piping	100	1.5	1.5	N/A	Electrical system & control upgrades inside building. Trenching for piping and electrical. Construction of concrete pad for emergency generator.
		Concrete pad for emergency generator	10	6	1	N/A	
Pump/Lift Station B-104	Inside the triangle created by Indian Island Dr	Trenching for electrical and piping	50	1.5	1.5	N/A	New liner, new submersible pumps, new discharge piping. Electrical system & control upgrades inside building. Trenching for piping and electrical. Construction of concrete pad for emergency generator.
		Concrete pad for emergency generator	10	6	1	N/A	
Pump/Lift Station B-105	On Browndeer Rd between Rainbow Dr and Antler Way	Trenching for electrical and piping	50	1.5	1.5	N/A	Trenching for piping and electrical. Upgrades to electrical inside existing building. Concrete pad and retaining wall for emergency generator. New steps for existing building.
		Concrete pad for emergency generator	10	6	1	N/A	
		Retaining wall	20	1.5	1.5	1	

Table B-1 Summary of Revised Project Components

Project Component/Activity	Location	Ground Disturbing Activity	Length (ft.)	Width (ft.)	Depth below ground surface (ft.)	Height above ground surface (ft.)	Notes
		Building steps	3	3	1	0.5	
Pump/Lift Station B-106	Near 4632 Rainbow Dr.	Trenching for electrical and piping	50	1.5	1.5	N/A	Trenching for piping and electrical. Upgrades to electrical & controls inside existing building. Concrete pad for emergency generator.
		Concrete pad for emergency generator	10	6	1	N/A	
Pump/Lift Station B-107	Near 4204 Rainbow Dr.	Trenching for electrical and piping	50	1.5	1.5	N/A	New wet well liner, new submersible pumps, new discharge piping. Trenching for piping and electrical. Upgrades to electrical & controls inside existing building. Concrete pad for emergency generator.
		Concrete pad for emergency generator	10	6	1	N/A	
Pump/Lift Station B-108	At the end of Casper Rd.	Trenching for electrical and piping	50	1.5	1.5	N/A	New wet well liner, new submersible pumps, new discharge piping. Trenching for piping and electrical. Upgrades to electrical & controls inside existing building. Concrete pad for emergency generator.
		Concrete pad for emergency generator	10	6	1	N/A	
Pump/Lift Station B-109	Off of Lakeshore Dr between Palmer Dr and Tennis Ct	Trenching for electrical and piping	50	1.5	1.5	N/A	New wet well liner, new submersible pumps, new discharge piping. Trenching for piping and electrical. Upgrades to electrical & controls inside existing building. Concrete pad and retaining wall for emergency generator.
		Concrete pad for emergency generator	10	6	1	N/A	

Table B-1 Summary of Revised Project Components

Project Component/Activity	Location	Ground Disturbing Activity	Length (ft.)	Width (ft.)	Depth below ground surface (ft.)	Height above ground surface (ft.)	Notes
		Retaining wall	20	1.5	1.5	1	
Pump/Lift Station B-110	Off of Tennis Road on the Lake Shore Drive west area	Trenching for electrical and piping	50	1.5	1.5	N/A	New wet well liner, new submersible pumps, new discharge piping. Trenching for piping and electrical. Upgrades to electrical & controls inside existing building. Concrete pad and retaining wall for emergency generator. New steps for existing building.
		Concrete pad for emergency generator	10	6	1	N/A	
		Retaining wall	20	1.5	1.5	1	
		Building steps	3	3	1	0.5	
Pump/Lift Station B-111	Lake Shore Drive, just east of the Intersection with Cottonwood Drive	Trenching for electrical and piping	50	1.5	1.5	N/A	Station B-111 a part of the Lake Shore Drive pipeline work and impacts have been assessed as part of that APE. Trenching for piping and electrical. Concrete pad for emergency generator.
		Concrete pad for emergency generator	10	6	1	N/A	
Pump/Lift Station B-112	At the end of Valley View Dr.	Trenching for electrical and piping	50	1.5	1.5	N/A	New wet well liner, new submersible pumps, new discharge piping. Trenching for piping and electrical. Upgrades to electrical & controls inside existing building. Concrete pad for emergency generator.
		Concrete pad for emergency generator	10	6	1	N/A	
Pump/Lift Station B-113	At the end of Elk Ridge Rd.	Trenching for electrical and piping	50	1.5	1.5	N/A	Electrical system & control upgrades inside existing building. Trenching for piping and electrical. Concrete pad for emergency

Table B-1 Summary of Revised Project Components

Project Component/Activity	Location	Ground Disturbing Activity	Length (ft.)	Width (ft.)	Depth below ground surface (ft.)	Height above ground surface (ft.)	Notes
		Concrete pad for emergency generator	10	6	1	N/A	generator.
Pump/Lift Station B-114	Intersection of Valley View Dr. and Mountain Wood Dr.	Trenching for electrical and piping	50	1.5	1.5	N/A	Electrical system & control upgrades inside existing building. Trenching for piping and electrical. Concrete pad for emergency generator.
		Concrete pad for emergency generator	10	6	1	N/A	
Pump/Lift Station B-115	Intersection of Riverside Dr. and Hidden Valley Rd	Trenching for electrical and piping	50	1.5	1.5	N/A	New wet well liner, new submersible pumps, new discharge piping. Electrical system & control upgrades inside existing building. Trenching for piping and electrical. Concrete pad for emergency generator.
		Concrete pad for emergency generator	10	6	1	N/A	
Pump/Lift Station B-116	Riverside Dr. Between Seldom Seen Ranch Rd and Mountain Wood Dr.	Trenching for electrical and piping	50	1.5	1.5	N/A	Electrical system & control upgrades inside existing building. Trenching for piping and electrical. Concrete pad for emergency generator.
		Concrete pad for emergency generator	10	6	1	N/A	
Pump/Lift Station B-117	On Brookside Rd between Lamplighter Pl and	Trenching for electrical and piping	50	1.5	1.5	N/A	New wet well liner, new submersible pumps, new discharge piping. Electrical system & control upgrades inside existing building.

Table B-1 Summary of Revised Project Components

Project Component/Activity	Location	Ground Disturbing Activity	Length (ft.)	Width (ft.)	Depth below ground surface (ft.)	Height above ground surface (ft.)	Notes
	Sandy Ln	Concrete pad for emergency generator	10	6	1	N/A	Trenching for piping and electrical. Concrete pad for emergency generator.
Pump/Lift Station B-118	At the end of Wildhorse Pl.	Trenching for electrical and piping	50	1.5	1.5	N/A	New wet well liner, new submersible pumps, new discharge piping. Electrical system & control upgrades inside existing building. Trenching for piping and electrical. Concrete pad for emergency generator.
		Concrete pad for emergency generator	10	6	1	N/A	
Pump/Lift Station B-120	Adjacent to 6 th Fairway of the Scottish Links Golf Course, near Fairway Drive.	Trenching for electrical and piping	50	1.5	1.5	N/A	This facility is part of the Tony Lema pipeline work and impacts have been assessed as part of that APE. Trenching for piping and electrical. Concrete pad for emergency generator.
		Concrete pad for emergency generator	10	6	1	N/A	

USFWS
2020 Species Lists

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United States Department of the Interior

FISH AND WILDLIFE SERVICE

Yreka Fish And Wildlife Office

1829 South Oregon Street

Yreka, CA 96097-3446

Phone: (530) 842-5763 Fax: (530) 842-4517



In Reply Refer To:

January 03, 2020

Consultation Code: 08EYRE00-2018-SLI-0032

Event Code: 08EYRE00-2020-E-00125

Project Name: Lake Shastina WWTF

Subject: Updated 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 federally threatened, endangered, and proposed species, designated critical habitat, and candidate species 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 U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.). Please note that this list does not reflect State listed species or fulfill requirements related to any California Department of Fish and Wildlife consultation. Additionally, this list does not include species covered by the National Marine Fisheries Service (NMFS). For NMFS species please see the related website at the following link:

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

If your project does not involve Federal funding or permits and does not occur on Federal land, we recommend you review this list and determine if any of these species or critical habitat may be affected. If you determine that there will be no effects to federally listed or proposed species or critical habitat, there is no need to coordinate with the Service. If you think or know that there will be effects, please contact our office for further guidance. We can assist you in incorporating measures to avoid or minimize impacts, and discuss whether permits are needed.

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 effects 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>

If wetlands, springs, or streams are known to occur in the project area or are present in the vicinity of the project area, we ask that you be aware of potential impacts project activities may have on these habitats. Discharge of fill material into wetlands or waters of the United States is regulated by the U.S. Army Corps of Engineers (ACOE) pursuant to section 404 of the Clean Water Act of 1972, as amended. We recommend you contact the ACOE's Regulatory Section regarding the possible need for a permit.

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>.

The table below outlines lead Service 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. Please send any documentation regarding your project to that office. Please note that the lead Service field office for your consultation may not be the office listed above in the letterhead. Please visit the following link to view a map of Service field office jurisdictional boundaries:

http://www.fws.gov/yreka/specieslist/JurisdictionalBoundaryES_R8_20150313.pdf

We appreciate your concern for threatened and endangered species. Please include the Consultation Tracking Number in the header of the letter you submit to our office along with any request for consultation or correspondence about your project.

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
Del Norte	All	All	AFWO
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)
Humboldt	All except Shasta Trinity National Forest	All	AFWO
Humboldt	Shasta Trinity National Forest	All	YFWO
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
Modoc	Modoc National Forest	All	KFWO
Modoc	BLM Alturas Resource Area	All	KFWO
Modoc	Klamath Basin National Wildlife Refuge Complex	All	KFWO
Modoc	BLM Surprise and Eagle Lake Resource Areas	All	RFWO
Modoc	All other ownerships	All	By jurisdiction (See map)
Mono	Inyo National Forest	All	RFWO
Mono	Humboldt Toiyabe National Forest	All	RFWO
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
Siskiyou	Klamath National Forest (except Ukonom District)	All	YFWO
Siskiyou	Six Rivers National Forest and Ukonom District	All	AFWO
Siskiyou	Shasta Trinity National Forest	All	YFWO
Siskiyou	Lassen National Forest	All	SFWO
Siskiyou	Modoc National Forest	All	KFWO
Siskiyou	Lava Beds National Volcanic Monument	All	KFWO
Siskiyou	BLM Alturas Resource Area	All	KFWO
Siskiyou	Klamath Basin National Wildlife Refuge Complex	All	KFWO
Siskiyou	All other ownerships	All	By jurisdiction (see map)
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
Tehama	Shasta Trinity National Forest except Hat Creek Ranger District (administered by Lassen National Forest)	All	YFWO
Tehama	All other ownerships	All	By jurisdiction (see map)
Trinity	BLM	All	AFWO
Trinity	Six Rivers National Forest	All	AFWO
Trinity	Shasta Trinity National Forest	All	YFWO
Trinity	Mendocino National Forest	All	AFWO
Trinity	BIA (Tribal Trust Lands)	All	AFWO
Trinity	County Government	All	AFWO
Trinity	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(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Yreka Fish And Wildlife Office

1829 South Oregon Street

Yreka, CA 96097-3446

(530) 842-5763

Project Summary

Consultation Code: 08EYRE00-2018-SLI-0032

Event Code: 08EYRE00-2020-E-00125

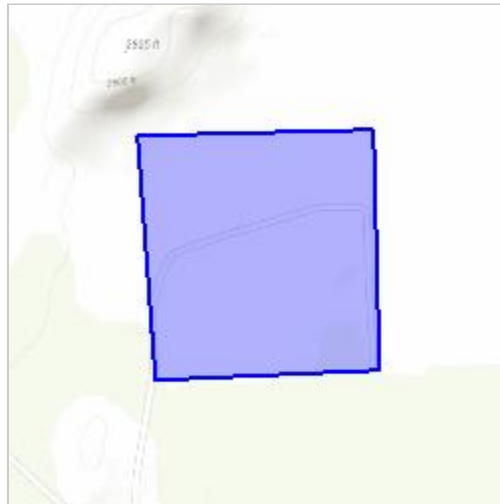
Project Name: Lake Shastina WWTF

Project Type: WASTEWATER FACILITY

Project Description: Upgrades to wastewater treatment facility

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/41.55752414903342N122.37816608883419W>



Counties: Siskiyou, CA

Endangered Species Act Species

There is a total of 12 threatened, endangered, or candidate species on this 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.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Fisher <i>Pekania pennanti</i> Population: West coast DPS No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/3651	Proposed Threatened
Gray Wolf <i>Canis lupus</i> Population: U.S.A.: All of AL, AR, CA, CO, CT, DE, FL, GA, IA, IN, IL, KS, KY, LA, MA, MD, ME, MI, MO, MS, NC, ND, NE, NH, NJ, NV, NY, OH, OK, PA, RI, SC, SD, TN, TX, VA, VT, WI, and WV; and portions of AZ, NM, OR, UT, and WA. Mexico. There is final critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/4488	Endangered
North American Wolverine <i>Gulo gulo luscus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/5123	Proposed Threatened

Birds

NAME	STATUS
Northern Spotted Owl <i>Strix occidentalis caurina</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/1123	Threatened
Yellow-billed Cuckoo <i>Coccyzus americanus</i> Population: Western U.S. DPS There is proposed critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/3911	Threatened

Amphibians

NAME	STATUS
Oregon Spotted Frog <i>Rana pretiosa</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/6633	Threatened

Fishes

NAME	STATUS
Lost River Sucker <i>Deltistes luxatus</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5604	Endangered
Shortnose Sucker <i>Chasmistes brevirostris</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/7160	Endangered

Crustaceans

NAME	STATUS
Conservancy Fairy Shrimp <i>Branchinecta conservatio</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/8246	Endangered
Vernal Pool Fairy Shrimp <i>Branchinecta lynchi</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/498	Threatened
Vernal Pool Tadpole Shrimp <i>Lepidurus packardii</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2246	Endangered

Flowering Plants

NAME	STATUS
Gentner's Fritillary <i>Fritillaria gentneri</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/8120	Endangered

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Yreka Fish And Wildlife Office

1829 South Oregon Street

Yreka, CA 96097-3446

Phone: (530) 842-5763 Fax: (530) 842-4517



In Reply Refer To:

January 03, 2020

Consultation Code: 08EYRE00-2018-SLI-0034

Event Code: 08EYRE00-2020-E-00119

Project Name: Lake Shore Sewer Extension

Subject: Updated 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 federally threatened, endangered, and proposed species, designated critical habitat, and candidate species 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 U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.). Please note that this list does not reflect State listed species or fulfill requirements related to any California Department of Fish and Wildlife consultation. Additionally, this list does not include species covered by the National Marine Fisheries Service (NMFS). For NMFS species please see the related website at the following link:

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

If your project does not involve Federal funding or permits and does not occur on Federal land, we recommend you review this list and determine if any of these species or critical habitat may be affected. If you determine that there will be no effects to federally listed or proposed species or critical habitat, there is no need to coordinate with the Service. If you think or know that there will be effects, please contact our office for further guidance. We can assist you in incorporating measures to avoid or minimize impacts, and discuss whether permits are needed.

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 effects 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>

If wetlands, springs, or streams are known to occur in the project area or are present in the vicinity of the project area, we ask that you be aware of potential impacts project activities may have on these habitats. Discharge of fill material into wetlands or waters of the United States is regulated by the U.S. Army Corps of Engineers (ACOE) pursuant to section 404 of the Clean Water Act of 1972, as amended. We recommend you contact the ACOE's Regulatory Section regarding the possible need for a permit.

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>.

The table below outlines lead Service 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. Please send any documentation regarding your project to that office. Please note that the lead Service field office for your consultation may not be the office listed above in the letterhead. Please visit the following link to view a map of Service field office jurisdictional boundaries:

http://www.fws.gov/yreka/specieslist/JurisdictionalBoundaryES_R8_20150313.pdf

We appreciate your concern for threatened and endangered species. Please include the Consultation Tracking Number in the header of the letter you submit to our office along with any request for consultation or correspondence about your project.

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
Del Norte	All	All	AFWO
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)
Humboldt	All except Shasta Trinity National Forest	All	AFWO
Humboldt	Shasta Trinity National Forest	All	YFWO
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
Modoc	Modoc National Forest	All	KFWO
Modoc	BLM Alturas Resource Area	All	KFWO
Modoc	Klamath Basin National Wildlife Refuge Complex	All	KFWO
Modoc	BLM Surprise and Eagle Lake Resource Areas	All	RFWO
Modoc	All other ownerships	All	By jurisdiction (See map)
Mono	Inyo National Forest	All	RFWO
Mono	Humboldt Toiyabe National Forest	All	RFWO
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
Siskiyou	Klamath National Forest (except Ukonom District)	All	YFWO
Siskiyou	Six Rivers National Forest and Ukonom District	All	AFWO
Siskiyou	Shasta Trinity National Forest	All	YFWO
Siskiyou	Lassen National Forest	All	SFWO
Siskiyou	Modoc National Forest	All	KFWO
Siskiyou	Lava Beds National Volcanic Monument	All	KFWO
Siskiyou	BLM Alturas Resource Area	All	KFWO
Siskiyou	Klamath Basin National Wildlife Refuge Complex	All	KFWO
Siskiyou	All other ownerships	All	By jurisdiction (see map)
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
Tehama	Shasta Trinity National Forest except Hat Creek Ranger District (administered by Lassen National Forest)	All	YFWO
Tehama	All other ownerships	All	By jurisdiction (see map)
Trinity	BLM	All	AFWO
Trinity	Six Rivers National Forest	All	AFWO
Trinity	Shasta Trinity National Forest	All	YFWO
Trinity	Mendocino National Forest	All	AFWO
Trinity	BIA (Tribal Trust Lands)	All	AFWO
Trinity	County Government	All	AFWO
Trinity	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(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Yreka Fish And Wildlife Office

1829 South Oregon Street

Yreka, CA 96097-3446

(530) 842-5763

Project Summary

Consultation Code: 08EYRE00-2018-SLI-0034

Event Code: 08EYRE00-2020-E-00119

Project Name: Lake Shore Sewer Extension

Project Type: WASTEWATER PIPELINE

Project Description: Extension of sewer along Lake Shore Drive to existing lift station

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/41.506600772499425N122.38037659536533W>



Counties: Siskiyou, CA

Endangered Species Act Species

There is a total of 12 threatened, endangered, or candidate species on this 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.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Fisher <i>Pekania pennanti</i> Population: West coast DPS No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/3651	Proposed Threatened
Gray Wolf <i>Canis lupus</i> Population: U.S.A.: All of AL, AR, CA, CO, CT, DE, FL, GA, IA, IN, IL, KS, KY, LA, MA, MD, ME, MI, MO, MS, NC, ND, NE, NH, NJ, NV, NY, OH, OK, PA, RI, SC, SD, TN, TX, VA, VT, WI, and WV; and portions of AZ, NM, OR, UT, and WA. Mexico. There is final critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/4488	Endangered
North American Wolverine <i>Gulo gulo luscus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/5123	Proposed Threatened

Birds

NAME	STATUS
Northern Spotted Owl <i>Strix occidentalis caurina</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/1123	Threatened
Yellow-billed Cuckoo <i>Coccyzus americanus</i> Population: Western U.S. DPS There is proposed critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/3911	Threatened

Amphibians

NAME	STATUS
Oregon Spotted Frog <i>Rana pretiosa</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/6633	Threatened

Fishes

NAME	STATUS
Lost River Sucker <i>Deltistes luxatus</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5604	Endangered
Shortnose Sucker <i>Chasmistes brevirostris</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/7160	Endangered

Crustaceans

NAME	STATUS
Conservancy Fairy Shrimp <i>Branchinecta conservatio</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/8246	Endangered
Vernal Pool Fairy Shrimp <i>Branchinecta lynchi</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/498	Threatened
Vernal Pool Tadpole Shrimp <i>Lepidurus packardii</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2246	Endangered

Flowering Plants

NAME	STATUS
Gentner's Fritillary <i>Fritillaria gentneri</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/8120	Endangered

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Yreka Fish And Wildlife Office

1829 South Oregon Street

Yreka, CA 96097-3446

Phone: (530) 842-5763 Fax: (530) 842-4517



In Reply Refer To:

January 03, 2020

Consultation Code: 08EYRE00-2018-SLI-0033

Event Code: 08EYRE00-2020-E-00122

Project Name: Tony Lema Sewer Extension

Subject: Updated 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 federally threatened, endangered, and proposed species, designated critical habitat, and candidate species 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 U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.). Please note that this list does not reflect State listed species or fulfill requirements related to any California Department of Fish and Wildlife consultation. Additionally, this list does not include species covered by the National Marine Fisheries Service (NMFS). For NMFS species please see the related website at the following link:

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

If your project does not involve Federal funding or permits and does not occur on Federal land, we recommend you review this list and determine if any of these species or critical habitat may be affected. If you determine that there will be no effects to federally listed or proposed species or critical habitat, there is no need to coordinate with the Service. If you think or know that there will be effects, please contact our office for further guidance. We can assist you in incorporating measures to avoid or minimize impacts, and discuss whether permits are needed.

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 effects 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>

If wetlands, springs, or streams are known to occur in the project area or are present in the vicinity of the project area, we ask that you be aware of potential impacts project activities may have on these habitats. Discharge of fill material into wetlands or waters of the United States is regulated by the U.S. Army Corps of Engineers (ACOE) pursuant to section 404 of the Clean Water Act of 1972, as amended. We recommend you contact the ACOE's Regulatory Section regarding the possible need for a permit.

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.

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The table below outlines lead Service 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. Please send any documentation regarding your project to that office. Please note that the lead Service field office for your consultation may not be the office listed above in the letterhead. Please visit the following link to view a map of Service field office jurisdictional boundaries:

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We appreciate your concern for threatened and endangered species. Please include the Consultation Tracking Number in the header of the letter you submit to our office along with any request for consultation or correspondence about your project.

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
Del Norte	All	All	AFWO
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)
Humboldt	All except Shasta Trinity National Forest	All	AFWO
Humboldt	Shasta Trinity National Forest	All	YFWO
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
Modoc	Modoc National Forest	All	KFWO
Modoc	BLM Alturas Resource Area	All	KFWO
Modoc	Klamath Basin National Wildlife Refuge Complex	All	KFWO
Modoc	BLM Surprise and Eagle Lake Resource Areas	All	RFWO
Modoc	All other ownerships	All	By jurisdiction (See map)
Mono	Inyo National Forest	All	RFWO
Mono	Humboldt Toiyabe National Forest	All	RFWO
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
Siskiyou	Klamath National Forest (except Ukonom District)	All	YFWO
Siskiyou	Six Rivers National Forest and Ukonom District	All	AFWO
Siskiyou	Shasta Trinity National Forest	All	YFWO
Siskiyou	Lassen National Forest	All	SFWO
Siskiyou	Modoc National Forest	All	KFWO
Siskiyou	Lava Beds National Volcanic Monument	All	KFWO
Siskiyou	BLM Alturas Resource Area	All	KFWO
Siskiyou	Klamath Basin National Wildlife Refuge Complex	All	KFWO
Siskiyou	All other ownerships	All	By jurisdiction (see map)
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
Tehama	Shasta Trinity National Forest except Hat Creek Ranger District (administered by Lassen National Forest)	All	YFWO
Tehama	All other ownerships	All	By jurisdiction (see map)
Trinity	BLM	All	AFWO
Trinity	Six Rivers National Forest	All	AFWO
Trinity	Shasta Trinity National Forest	All	YFWO
Trinity	Mendocino National Forest	All	AFWO
Trinity	BIA (Tribal Trust Lands)	All	AFWO
Trinity	County Government	All	AFWO
Trinity	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(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Yreka Fish And Wildlife Office

1829 South Oregon Street

Yreka, CA 96097-3446

(530) 842-5763

Project Summary

Consultation Code: 08EYRE00-2018-SLI-0033

Event Code: 08EYRE00-2020-E-00122

Project Name: Tony Lema Sewer Extension

Project Type: WASTEWATER PIPELINE

Project Description: Extension of the Tony Lema sewer line across golf course to lift station

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/41.51706503027996N122.37035980408601W>



Counties: Siskiyou, CA

Endangered Species Act Species

There is a total of 12 threatened, endangered, or candidate species on this 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.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Fisher <i>Pekania pennanti</i> Population: West coast DPS No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/3651	Proposed Threatened
Gray Wolf <i>Canis lupus</i> Population: U.S.A.: All of AL, AR, CA, CO, CT, DE, FL, GA, IA, IN, IL, KS, KY, LA, MA, MD, ME, MI, MO, MS, NC, ND, NE, NH, NJ, NV, NY, OH, OK, PA, RI, SC, SD, TN, TX, VA, VT, WI, and WV; and portions of AZ, NM, OR, UT, and WA. Mexico. There is final critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/4488	Endangered
North American Wolverine <i>Gulo gulo luscus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/5123	Proposed Threatened

Birds

NAME	STATUS
Northern Spotted Owl <i>Strix occidentalis caurina</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/1123	Threatened
Yellow-billed Cuckoo <i>Coccyzus americanus</i> Population: Western U.S. DPS There is proposed critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/3911	Threatened

Amphibians

NAME	STATUS
Oregon Spotted Frog <i>Rana pretiosa</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/6633	Threatened

Fishes

NAME	STATUS
Lost River Sucker <i>Deltistes luxatus</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5604	Endangered
Shortnose Sucker <i>Chasmistes brevirostris</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/7160	Endangered

Crustaceans

NAME	STATUS
Conservancy Fairy Shrimp <i>Branchinecta conservatio</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/8246	Endangered
Vernal Pool Fairy Shrimp <i>Branchinecta lynchi</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/498	Threatened
Vernal Pool Tadpole Shrimp <i>Lepidurus packardii</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2246	Endangered

Flowering Plants

NAME	STATUS
Gentner's Fritillary <i>Fritillaria gentneri</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/8120	Endangered

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Yreka Fish And Wildlife Office

1829 South Oregon Street

Yreka, CA 96097-3446

Phone: (530) 842-5763 Fax: (530) 842-4517



In Reply Refer To:

January 03, 2020

Consultation Code: 08EYRE00-2020-SLI-0035

Event Code: 08EYRE00-2020-E-00128

Project Name: Lake Shastina Pump Stations North

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 federally threatened, endangered, and proposed species, designated critical habitat, and candidate species 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 U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.). Please note that this list does not reflect State listed species or fulfill requirements related to any California Department of Fish and Wildlife consultation. Additionally, this list does not include species covered by the National Marine Fisheries Service (NMFS). For NMFS species please see the related website at the following link:

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

If your project does not involve Federal funding or permits and does not occur on Federal land, we recommend you review this list and determine if any of these species or critical habitat may be affected. If you determine that there will be no effects to federally listed or proposed species or critical habitat, there is no need to coordinate with the Service. If you think or know that there will be effects, please contact our office for further guidance. We can assist you in incorporating measures to avoid or minimize impacts, and discuss whether permits are needed.

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 effects 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>

If wetlands, springs, or streams are known to occur in the project area or are present in the vicinity of the project area, we ask that you be aware of potential impacts project activities may have on these habitats. Discharge of fill material into wetlands or waters of the United States is regulated by the U.S. Army Corps of Engineers (ACOE) pursuant to section 404 of the Clean Water Act of 1972, as amended. We recommend you contact the ACOE's Regulatory Section regarding the possible need for a permit.

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>.

The table below outlines lead Service 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. Please send any documentation regarding your project to that office. Please note that the lead Service field office for your consultation may not be the office listed above in the letterhead. Please visit the following link to view a map of Service field office jurisdictional boundaries:

http://www.fws.gov/yreka/specieslist/JurisdictionalBoundaryES_R8_20150313.pdf

We appreciate your concern for threatened and endangered species. Please include the Consultation Tracking Number in the header of the letter you submit to our office along with any request for consultation or correspondence about your project.

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
Del Norte	All	All	AFWO
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)
Humboldt	All except Shasta Trinity National Forest	All	AFWO
Humboldt	Shasta Trinity National Forest	All	YFWO
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
Modoc	Modoc National Forest	All	KFWO
Modoc	BLM Alturas Resource Area	All	KFWO
Modoc	Klamath Basin National Wildlife Refuge Complex	All	KFWO
Modoc	BLM Surprise and Eagle Lake Resource Areas	All	RFWO
Modoc	All other ownerships	All	By jurisdiction (See map)
Mono	Inyo National Forest	All	RFWO
Mono	Humboldt Toiyabe National Forest	All	RFWO
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
Siskiyou	Klamath National Forest (except Ukonom District)	All	YFWO
Siskiyou	Six Rivers National Forest and Ukonom District	All	AFWO
Siskiyou	Shasta Trinity National Forest	All	YFWO
Siskiyou	Lassen National Forest	All	SFWO
Siskiyou	Modoc National Forest	All	KFWO
Siskiyou	Lava Beds National Volcanic Monument	All	KFWO
Siskiyou	BLM Alturas Resource Area	All	KFWO
Siskiyou	Klamath Basin National Wildlife Refuge Complex	All	KFWO
Siskiyou	All other ownerships	All	By jurisdiction (see map)
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
Tehama	Shasta Trinity National Forest except Hat Creek Ranger District (administered by Lassen National Forest)	All	YFWO
Tehama	All other ownerships	All	By jurisdiction (see map)
Trinity	BLM	All	AFWO
Trinity	Six Rivers National Forest	All	AFWO
Trinity	Shasta Trinity National Forest	All	YFWO
Trinity	Mendocino National Forest	All	AFWO
Trinity	BIA (Tribal Trust Lands)	All	AFWO
Trinity	County Government	All	AFWO
Trinity	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(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Yreka Fish And Wildlife Office

1829 South Oregon Street

Yreka, CA 96097-3446

(530) 842-5763

Project Summary

Consultation Code: 08EYRE00-2020-SLI-0035

Event Code: 08EYRE00-2020-E-00128

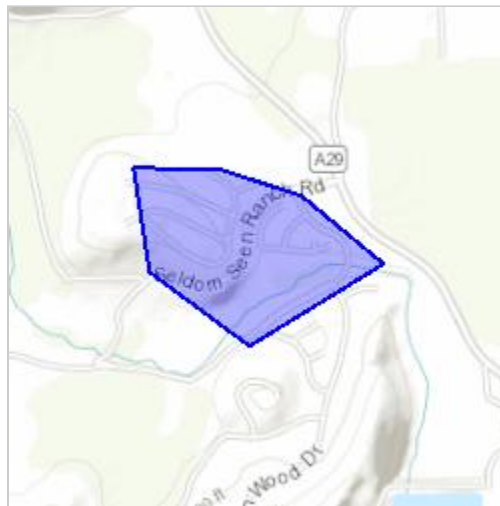
Project Name: Lake Shastina Pump Stations North

Project Type: WASTEWATER FACILITY

Project Description: Existing wastewater pump station improvements

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/41.548942107646425N122.38406339516884W>



Counties: Siskiyou, CA

Endangered Species Act Species

There is a total of 12 threatened, endangered, or candidate species on this 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.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Fisher <i>Pekania pennanti</i> Population: West coast DPS No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/3651	Proposed Threatened
Gray Wolf <i>Canis lupus</i> Population: U.S.A.: All of AL, AR, CA, CO, CT, DE, FL, GA, IA, IN, IL, KS, KY, LA, MA, MD, ME, MI, MO, MS, NC, ND, NE, NH, NJ, NV, NY, OH, OK, PA, RI, SC, SD, TN, TX, VA, VT, WI, and WV; and portions of AZ, NM, OR, UT, and WA. Mexico. There is final critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/4488	Endangered
North American Wolverine <i>Gulo gulo luscus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/5123	Proposed Threatened

Birds

NAME	STATUS
Northern Spotted Owl <i>Strix occidentalis caurina</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/1123	Threatened
Yellow-billed Cuckoo <i>Coccyzus americanus</i> Population: Western U.S. DPS There is proposed critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/3911	Threatened

Amphibians

NAME	STATUS
Oregon Spotted Frog <i>Rana pretiosa</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/6633	Threatened

Fishes

NAME	STATUS
Lost River Sucker <i>Deltistes luxatus</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5604	Endangered
Shortnose Sucker <i>Chasmistes brevirostris</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/7160	Endangered

Crustaceans

NAME	STATUS
Conservancy Fairy Shrimp <i>Branchinecta conservatio</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/8246	Endangered
Vernal Pool Fairy Shrimp <i>Branchinecta lynchi</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/498	Threatened
Vernal Pool Tadpole Shrimp <i>Lepidurus packardii</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2246	Endangered

Flowering Plants

NAME	STATUS
Gentner's Fritillary <i>Fritillaria gentneri</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/8120	Endangered

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Yreka Fish And Wildlife Office

1829 South Oregon Street

Yreka, CA 96097-3446

Phone: (530) 842-5763 Fax: (530) 842-4517



In Reply Refer To:

January 03, 2020

Consultation Code: 08EYRE00-2020-SLI-0036

Event Code: 08EYRE00-2020-E-00130

Project Name: Lake Shastina Pump Stations South

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 federally threatened, endangered, and proposed species, designated critical habitat, and candidate species 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 U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.). Please note that this list does not reflect State listed species or fulfill requirements related to any California Department of Fish and Wildlife consultation. Additionally, this list does not include species covered by the National Marine Fisheries Service (NMFS). For NMFS species please see the related website at the following link:

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

If your project does not involve Federal funding or permits and does not occur on Federal land, we recommend you review this list and determine if any of these species or critical habitat may be affected. If you determine that there will be no effects to federally listed or proposed species or critical habitat, there is no need to coordinate with the Service. If you think or know that there will be effects, please contact our office for further guidance. We can assist you in incorporating measures to avoid or minimize impacts, and discuss whether permits are needed.

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 effects 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>

If wetlands, springs, or streams are known to occur in the project area or are present in the vicinity of the project area, we ask that you be aware of potential impacts project activities may have on these habitats. Discharge of fill material into wetlands or waters of the United States is regulated by the U.S. Army Corps of Engineers (ACOE) pursuant to section 404 of the Clean Water Act of 1972, as amended. We recommend you contact the ACOE's Regulatory Section regarding the possible need for a permit.

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>.

The table below outlines lead Service 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. Please send any documentation regarding your project to that office. Please note that the lead Service field office for your consultation may not be the office listed above in the letterhead. Please visit the following link to view a map of Service field office jurisdictional boundaries:

http://www.fws.gov/yreka/specieslist/JurisdictionalBoundaryES_R8_20150313.pdf

We appreciate your concern for threatened and endangered species. Please include the Consultation Tracking Number in the header of the letter you submit to our office along with any request for consultation or correspondence about your project.

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
Del Norte	All	All	AFWO
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)
Humboldt	All except Shasta Trinity National Forest	All	AFWO
Humboldt	Shasta Trinity National Forest	All	YFWO
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
Modoc	Modoc National Forest	All	KFWO
Modoc	BLM Alturas Resource Area	All	KFWO
Modoc	Klamath Basin National Wildlife Refuge Complex	All	KFWO
Modoc	BLM Surprise and Eagle Lake Resource Areas	All	RFWO
Modoc	All other ownerships	All	By jurisdiction (See map)
Mono	Inyo National Forest	All	RFWO
Mono	Humboldt Toiyabe National Forest	All	RFWO
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
Siskiyou	Klamath National Forest (except Ukonom District)	All	YFWO
Siskiyou	Six Rivers National Forest and Ukonom District	All	AFWO
Siskiyou	Shasta Trinity National Forest	All	YFWO
Siskiyou	Lassen National Forest	All	SFWO
Siskiyou	Modoc National Forest	All	KFWO
Siskiyou	Lava Beds National Volcanic Monument	All	KFWO
Siskiyou	BLM Alturas Resource Area	All	KFWO
Siskiyou	Klamath Basin National Wildlife Refuge Complex	All	KFWO
Siskiyou	All other ownerships	All	By jurisdiction (see map)
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
Tehama	Shasta Trinity National Forest except Hat Creek Ranger District (administered by Lassen National Forest)	All	YFWO
Tehama	All other ownerships	All	By jurisdiction (see map)
Trinity	BLM	All	AFWO
Trinity	Six Rivers National Forest	All	AFWO
Trinity	Shasta Trinity National Forest	All	YFWO
Trinity	Mendocino National Forest	All	AFWO
Trinity	BIA (Tribal Trust Lands)	All	AFWO
Trinity	County Government	All	AFWO
Trinity	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(s):

- Official Species List

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Yreka Fish And Wildlife Office

1829 South Oregon Street

Yreka, CA 96097-3446

(530) 842-5763

Project Summary

Consultation Code: 08EYRE00-2020-SLI-0036

Event Code: 08EYRE00-2020-E-00130

Project Name: Lake Shastina Pump Stations South

Project Type: WASTEWATER FACILITY

Project Description: Improvements to existing wastewater pump stations

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/41.51911586329433N122.37404523215622W>



Counties: Siskiyou, CA

Endangered Species Act Species

There is a total of 12 threatened, endangered, or candidate species on this 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.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Fisher <i>Pekania pennanti</i> Population: West coast DPS No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/3651	Proposed Threatened
Gray Wolf <i>Canis lupus</i> Population: U.S.A.: All of AL, AR, CA, CO, CT, DE, FL, GA, IA, IN, IL, KS, KY, LA, MA, MD, ME, MI, MO, MS, NC, ND, NE, NH, NJ, NV, NY, OH, OK, PA, RI, SC, SD, TN, TX, VA, VT, WI, and WV; and portions of AZ, NM, OR, UT, and WA. Mexico. There is final critical habitat for this species. The location of the critical habitat is not available. Species profile: https://ecos.fws.gov/ecp/species/4488	Endangered
North American Wolverine <i>Gulo gulo luscus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/5123	Proposed Threatened

Birds

NAME	STATUS
Northern Spotted Owl <i>Strix occidentalis caurina</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/1123	Threatened
Yellow-billed Cuckoo <i>Coccyzus americanus</i> Population: Western U.S. DPS There is proposed critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/3911	Threatened

Amphibians

NAME	STATUS
Oregon Spotted Frog <i>Rana pretiosa</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/6633	Threatened

Fishes

NAME	STATUS
Lost River Sucker <i>Deltistes luxatus</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5604	Endangered
Shortnose Sucker <i>Chasmistes brevirostris</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/7160	Endangered

Crustaceans

NAME	STATUS
Conservancy Fairy Shrimp <i>Branchinecta conservatio</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/8246	Endangered
Vernal Pool Fairy Shrimp <i>Branchinecta lynchi</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/498	Threatened
Vernal Pool Tadpole Shrimp <i>Lepidurus packardii</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2246	Endangered

Flowering Plants

NAME	STATUS
Gentner's Fritillary <i>Fritillaria gentneri</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/8120	Endangered

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.