

# Staff Report

for the Board of Directors Meeting of January 9, 2019

**TO:** Board of Directors  
**FROM:** Gary D. King, PE, PhD, Engineering Manager  
**DATE:** January 2, 2019  
**SUBJECT:** Orr Creek Reservoir Cleaning and Infrastructure Improvement Project - Initial Study/Mitigated Negative Declaration (FATR#6963)

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***ENGINEERING***

## **RECOMMENDATION:**

Conduct Public Hearing; after hearing testimony, adopt Resolution No. 2019-03 (adopting a mitigated negative declaration and approve the project and mitigation monitoring and reporting program for the project).

## **BACKGROUND:**

The Orr Creek Reservoir is a raw water diversion facility for the Gold Hill system. The Gold Hill system has been operating since 1852 and was purchased and resold by a myriad of companies in 1861, 1868, 1875, 1890, 1896, 1911, and was sold to the District by Pacific Gas and Electric in 1933. The facility is referenced as a reservoir in some as-builts and documents and a diversion facility in others. The function of this facility is solely a diversion facility, but due to the diversion structure size, it is referenced as a reservoir. The facility does not have a dead pool according to as-builts.

It is unknown when the current diversion facility was constructed, but it was rebuilt in 1936 due to a failure of the facility. The capacity of the facility according to the drawings in 1936 was roughly 27 AC-FT. A survey in 1980 indicated that the volume had reduced to 10.3 AC-FT presumably by siltation. According to 1936 as-builts, the facility has a rock fill foundation. Visual inspection indicates that the facility has had numerous modifications such as concrete additions and Guniting of the surface to protect the facility since 1936. There is little as-built information to support these modifications. It is estimated that the current volume is 3 to 4 AC-FT. The facility is of Non-Jurisdictional Size as defined by the State of California. The dam height is less than 25 feet and has a storage capacity of less than 50 AC-FT.

This maintenance project intends to remove 10,000 CY of sediment from the facility over multiple years and complete repairs to the diversion structure. After removal of the 10,000 CY of sediment, facility cleaning will be conducted as part of routine maintenance following receipt of appropriate permits from resource agencies. Permits will be required due to the facility location in the natural waterway of Orr Creek. We do not know when this facility was last cleaned.

Currently, the facility is leaking and has an aged pipeline that delivers water to the Gold Hill system. As indicated above as-built information is limited and of questionable

reliability. Once the facility is temporarily out of service, we will develop solutions to facilitate repairs using available information and technical inspection. These repairs are anticipated to include replacement of the current 30-inch pipe, realignment of the Gold Hill canal pipeline which is currently 24 inches, drain pipe, and repairing leaks.

Part of the project includes a by-pass of the facility to allow implementation of sediment removal and facility repairs. A previous by-pass was indicated on as-builts but no longer exists, and houses have been built on top of the historic by-pass location. The proposed by-pass will be used for multiple years for cleaning of the facility. No discharge into the Orr Creek will occur from the cleaning area. Installation of the by-pass will allow sediment removal and repair to occur in the dry, but the California Environmental Quality Act (CEQA) document includes wet dredging if necessary.

On December 12, 2018, a CEQA public meeting was held to discuss the project. Before the meeting, a notification was mailed to 44 property owners surrounding the site and posted on the District website with the CEQA document. The project was also noticed in The Union Newspaper on December 1, 2018, and in The Auburn Journal on December 9, 2018.

Final review of the document turned up two minor edits including:

1. Page 1- the facility is located west of Highway 49
2. Mitigation Measure HYD-6 should be “and” instead of “or.”

The mitigations and outline of the project are on the attached powerpoint presentation.

It is the recommendation of staff to approve this CEQA document with these minor edits and the resolution for this project.

The Initial Study and Mitigated Negative Declaration was previously provided to Board Members, is on the District website and available to the public at <https://nidwater.com/ocrcp/project-documents>.

#### **BUDGET IMPACTS:**

This Project is part of the Sediment Removal Program which has a budget in 2019 of \$650,000. This program has multiple projects, which share these funds throughout District facilities.

Attachment: Resolution #2019-03

Central Valley Regional Water Quality Control Board written comments



**RESOLUTION No.** 2019-03

OF THE BOARD OF DIRECTORS OF THE NEVADA IRRIGATION DISTRICT

**ADOPTING A MITIGATED NEGATIVE DECLARATION, AND APPROVING THE PROJECT AND MITIGATION MONITORING AND REPORTING PROGRAM – ORR CREEK RESERVOIR CLEANING AND INFRASTRUCTURE IMPROVEMENT PROJECT**

**WHEREAS**, Nevada Irrigation District (“District”) has undertaken the review of a project to clean and repair the Orr Creek Diversion Structure at the same site (the “Project”); and

**WHEREAS**, the California Environmental Quality Act of 1970 (“CEQA”) requires state, local, and other agencies to evaluate or reduce, when feasible, the significant environmental impacts of their respective projects; and

**WHEREAS**, the District’s engineering staff has prepared a Preliminary Review and Initial Study (“Initial Study”) for the proposed Project in accordance with the requirements of CEQA; and

**WHEREAS**, on December 1, 2018, a Notice of Intent to Adopt a Mitigated Negative Declaration for the Project was published in The Union newspaper and on December 9, 2018 in The Auburn Journal, advising of the time and place of a public hearing on the Project; and

**WHEREAS**, on January 9, 2019, following a public hearing on the Mitigated Negative Declaration for the Project, the Board of Directors of the Nevada Irrigation District approved the adoption of the proposed Mitigated Negative Declaration for the Project as presented; and

**NOW THEREFORE, BE IT RESOLVED** by the Board of Directors of the Nevada Irrigation District that it does find as follows:

1. The above recitals are true and correct.
2. Based on its review of the whole record before it, including the Initial Study, presentations of Staff and the public comments, both written and oral, received in response to its Notice of Intent, the Board finds that there is no substantial evidence of record that the Project will have a significant effect on the environment and that the Mitigated Negative Declaration represents the independent judgment and analysis of the District.

3. Mitigation measures are made a condition for approval of the Project and the Board hereby adopts the mitigation measures which it has either required in the Project or made a condition of approval to mitigate or avoid significant environmental impacts.
4. The documents which constitute the record of proceedings upon which the decision of the Board is based are located at the offices of Nevada Irrigation District, 1036 West Main Street, Grass Valley, California, and the Secretary to the Board is the custodian thereof.
5. The Board of Directors hereby approves the Project.
6. The Board Secretary is hereby authorized to file a Notice of Determination, a copy of which is attached as Exhibit 'A', with the Office of the County Clerk, Nevada County and State Clearinghouse.

**ADOPTED** by the Board of Directors of the Nevada Irrigation District at a regular meeting of said Board, held on the 9<sup>th</sup> day of January, 2019, by the following vote of said Board

AYES:	Directors:
NOES:	Directors:
ABSENT:	Directors:
ABSTAINING:	Directors:

\_\_\_\_\_  
President

\_\_\_\_\_  
Board Secretary



EDMUND G. BROWN JR.  
GOVERNOR

MATTHEW RODRIGUEZ  
SECRETARY FOR  
ENVIRONMENTAL PROTECTION

**Central Valley Regional Water Quality Control Board**

21 December 2018

**RECEIVED**

Gary King  
Nevada Irrigation District  
1036 West Main Street  
Grass Valley, CA 95945

**DEC 26 2018**  
ENGINEERING  
NEVADA IRRIGATION DISTRICT

**CERTIFIED MAIL**  
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**COMMENTS TO REQUEST FOR REVIEW FOR THE MITIGATED NEGATIVE DECLARATION, ORR CREEK RESERVOIR CLEANING AND INFRASTRUCTURE IMPROVEMENT PROJECT, SCH#2018112074, PLACER COUNTY**

Pursuant to the State Clearinghouse's 30 November 2018 request, the Central Valley Regional Water Quality Control Board (Central Valley Water Board) has reviewed the *Request for Review for the Mitigated Negative Declaration* for the Orr Creek Reservoir Cleaning and Infrastructure Improvement Project, located in Placer County.

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

**I. Regulatory Setting**

**Basin Plan**

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

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

KARL E. LONGLEY ScD, P.E., CHAIR | PATRICK PULUPA, ESQ., EXECUTIVE OFFICER

11020 Sun Center Drive #200, Rancho Cordova, CA 95670 | [www.waterboards.ca.gov/centralvalley](http://www.waterboards.ca.gov/centralvalley)

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

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

[http://www.waterboards.ca.gov/centralvalley/water\\_issues/basin\\_plans/](http://www.waterboards.ca.gov/centralvalley/water_issues/basin_plans/)

### **Antidegradation Considerations**

All wastewater discharges must comply with the Antidegradation Policy (State Water Board Resolution 68-16) and the Antidegradation Implementation Policy contained in the Basin Plan. The Antidegradation Implementation Policy is available on page 74 at:

[https://www.waterboards.ca.gov/centralvalley/water\\_issues/basin\\_plans/sacsjr\\_201805.pdf](https://www.waterboards.ca.gov/centralvalley/water_issues/basin_plans/sacsjr_201805.pdf)

In part it states:

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

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

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

## **II. Permitting Requirements**

### **Construction Storm Water General Permit**

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

(SWPPP).

For more information on the Construction General Permit, visit the State Water Resources Control Board website at:

[http://www.waterboards.ca.gov/water\\_issues/programs/stormwater/constpermits.shtml](http://www.waterboards.ca.gov/water_issues/programs/stormwater/constpermits.shtml)

#### **Phase I and II Municipal Separate Storm Sewer System (MS4) Permits<sup>1</sup>**

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

For more information on which Phase I MS4 Permit this project applies to, visit the Central Valley Water Board website at:

[http://www.waterboards.ca.gov/centralvalley/water\\_issues/storm\\_water/municipal\\_permits/](http://www.waterboards.ca.gov/centralvalley/water_issues/storm_water/municipal_permits/)

For more information on the Phase II MS4 permit and who it applies to, visit the State Water Resources Control Board at:

[http://www.waterboards.ca.gov/water\\_issues/programs/stormwater/phase\\_ii\\_municipal.shtml](http://www.waterboards.ca.gov/water_issues/programs/stormwater/phase_ii_municipal.shtml)

#### **Industrial Storm Water General Permit**

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

For more information on the Industrial Storm Water General Permit, visit the Central Valley Water Board website at:

[http://www.waterboards.ca.gov/centralvalley/water\\_issues/storm\\_water/industrial\\_general\\_permits/index.shtml](http://www.waterboards.ca.gov/centralvalley/water_issues/storm_water/industrial_general_permits/index.shtml)

#### **Clean Water Act Section 404 Permit**

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

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

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

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

**Clean Water Act Section 401 Permit – Water Quality Certification**

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

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

[https://www.waterboards.ca.gov/centralvalley/water\\_issues/water\\_quality\\_certification/](https://www.waterboards.ca.gov/centralvalley/water_issues/water_quality_certification/)

**Waste Discharge Requirements – Discharges to Waters of the State**

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

For more information on the Waste Discharges to Surface Water NPDES Program and WDR processes, visit the Central Valley Water Board website at:

[https://www.waterboards.ca.gov/centralvalley/water\\_issues/waste\\_to\\_surface\\_water/](https://www.waterboards.ca.gov/centralvalley/water_issues/waste_to_surface_water/)

**Dewatering Permit**

If the proposed project includes construction or groundwater dewatering to be discharged to land, the proponent may apply for coverage under State Water Board General Water Quality Order (Low Risk General Order) 2003-0003 or the Central Valley Water Board's Waiver of Report of Waste Discharge and Waste Discharge Requirements (Low Risk Waiver) R5-2013-0145. Small temporary construction dewatering projects are projects that discharge groundwater to land from excavation activities or dewatering of underground utility vaults. Dischargers seeking coverage under the General Order or Waiver must file a Notice of Intent with the Central Valley Water Board prior to beginning discharge.

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

[http://www.waterboards.ca.gov/board\\_decisions/adopted\\_orders/water\\_quality/2003/wqo/wqo2003-0003.pdf](http://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2003/wqo/wqo2003-0003.pdf)



For more information regarding the Low Risk Waiver and the application process, visit the Central Valley Water Board website at:  
[http://www.waterboards.ca.gov/centralvalley/board\\_decisions/adopted\\_orders/waivers/r5-2013-0145\\_res.pdf](http://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/waivers/r5-2013-0145_res.pdf)

### **Regulatory Compliance for Commercially Irrigated Agriculture**

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

1. **Obtain Coverage Under a Coalition Group.** Join the local Coalition Group that supports land owners with the implementation of the Irrigated Lands Regulatory Program. The Coalition Group conducts water quality monitoring and reporting to the Central Valley Water Board on behalf of its growers. The Coalition Groups charge an annual membership fee, which varies by Coalition Group. To find the Coalition Group in your area, visit the Central Valley Water Board's website at: [https://www.waterboards.ca.gov/centralvalley/water\\_issues/irrigated\\_lands/regulatory\\_information/for\\_growers/coalition\\_groups/](https://www.waterboards.ca.gov/centralvalley/water_issues/irrigated_lands/regulatory_information/for_growers/coalition_groups/) or contact water board staff at (916) 464-4611 or via email at [IrrLands@waterboards.ca.gov](mailto:IrrLands@waterboards.ca.gov).
2. **Obtain Coverage Under the General Waste Discharge Requirements for Individual Growers, General Order R5-2013-0100.** Dischargers not participating in a third-party group (Coalition) are regulated individually. Depending on the specific site conditions, growers may be required to monitor runoff from their property, install monitoring wells, and submit a notice of intent, farm plan, and other action plans regarding their actions to comply with their General Order. Yearly costs would include State administrative fees (for example, annual fees for farm sizes from 11-100 acres are currently \$1,277 + \$8.53/Acre); the cost to prepare annual monitoring reports; and water quality monitoring costs. To enroll as an Individual Discharger under the Irrigated Lands Regulatory Program, call the Central Valley Water Board phone line at (916) 464-4611 or e-mail board staff at [IrrLands@waterboards.ca.gov](mailto:IrrLands@waterboards.ca.gov).

### **Limited Threat General NPDES Permit**

If the proposed project includes construction dewatering and it is necessary to discharge the groundwater to waters of the United States, the proposed project will require coverage under a National Pollutant Discharge Elimination System (NPDES) permit. Dewatering discharges are typically considered a low or limited threat to water quality and may be covered under the General Order for *Limited Threat Discharges to Surface Water* (Limited Threat General Order). A complete Notice of Intent must be submitted to the Central Valley Water Board to obtain coverage under the Limited Threat General Order.

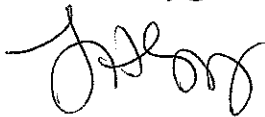
For more information regarding the Limited Threat General Order and the application process, visit the Central Valley Water Board website at:  
[https://www.waterboards.ca.gov/centralvalley/board\\_decisions/adopted\\_orders/general\\_orders/r5-2016-0076-01.pdf](https://www.waterboards.ca.gov/centralvalley/board_decisions/adopted_orders/general_orders/r5-2016-0076-01.pdf)

**NPDES Permit**

If the proposed project discharges waste that could affect the quality of surface waters of the State, other than into a community sewer system, the proposed project will require coverage under a National Pollutant Discharge Elimination System (NPDES) permit. A complete Report of Waste Discharge must be submitted with the Central Valley Water Board to obtain a NPDES Permit.

For more information regarding the NPDES Permit and the application process, visit the Central Valley Water Board website at:  
<https://www.waterboards.ca.gov/centralvalley/help/permit/>

If you have questions regarding these comments, please contact me at (916) 464-4812 or [Jordan.Hensley@waterboards.ca.gov](mailto:Jordan.Hensley@waterboards.ca.gov).



Jordan Hensley  
Environmental Scientist

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

# Orr Creek Reservoir

## Cleaning and Infrastructure Improvement Project

### Public Hearing



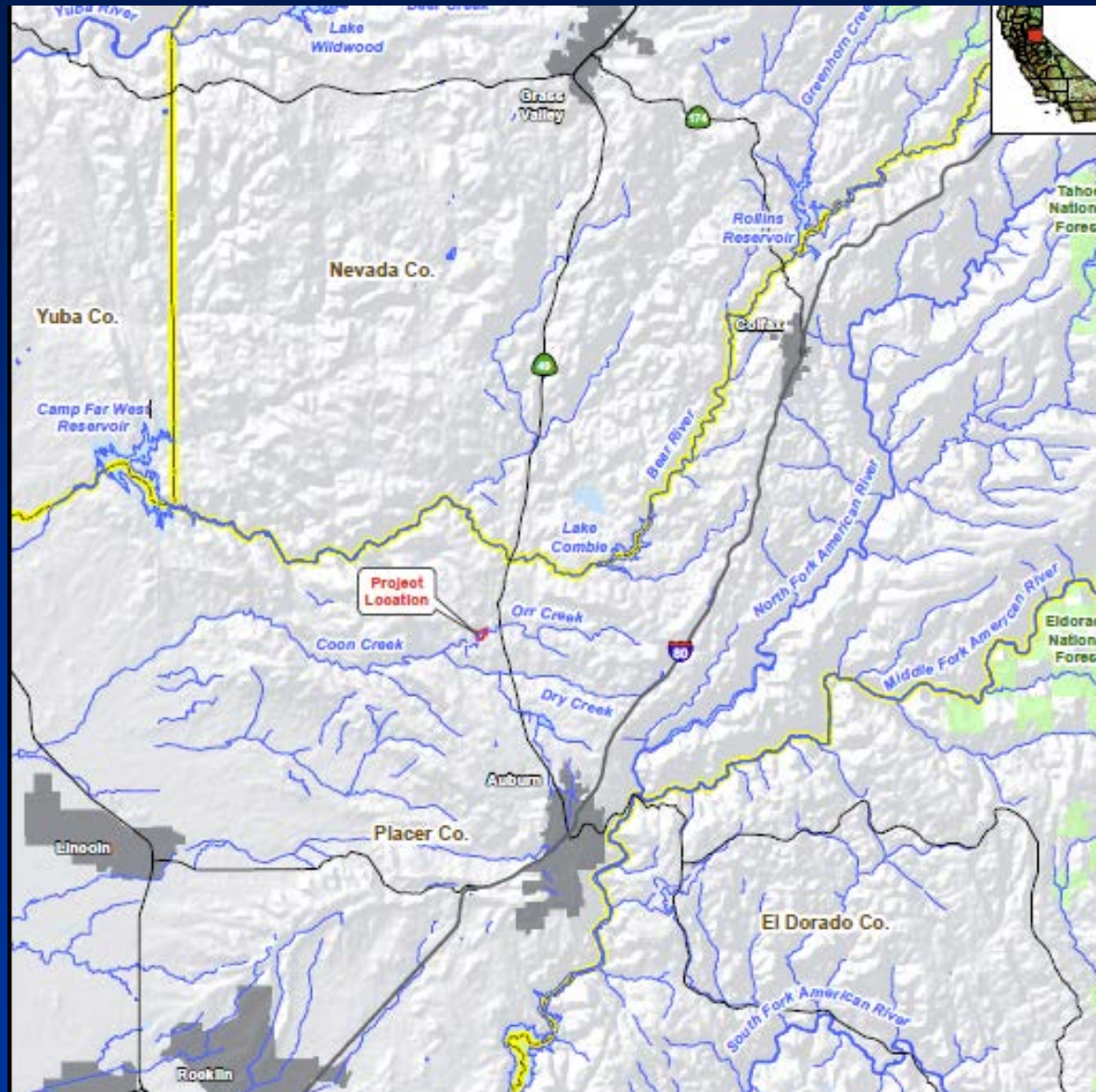
January 9, 2019

# Orr Creek Reservoir Cleaning and Infrastructure Project Agenda

- Project Overview
- CEQA Compliance
- Anticipated Permits and Approvals
- Project Schedule
- Next Steps

# Orr Creek Reservoir Cleaning and Infrastructure Project

## Project Overview



# Orr Creek Reservoir Cleaning and Infrastructure Project

## Project Overview

- Orr Creek Reservoir part of District's Bear River Water System
- Stores untreated, raw water from Orr Creek
- Designed capacity of 27 acre-feet
- Current estimated capacity is 3 to 4 acre-feet
- Sediment transported from Orr Creek accumulating in reservoir reducing available storage
- Repairs to facility to reduce leakages and repair piping
- New low level outlet

# Orr Creek Reservoir Cleaning and Infrastructure Project

## Project Overview

### ■ Project Objectives

- Improve the efficiency of the District's raw water delivery systems
- Restore the storage capacity of the reservoir
- Improves the reliability and safety of the associated dam and water delivery infrastructure

# Orr Creek Reservoir Cleaning and Infrastructure Project

## Project Overview

### ■ Proposed Project

- Remove an estimated 10,000 cubic yards of accumulated sediment
- Repair and improve dam infrastructure
- Replace and realign the Gold Hill I Canal diversion pipe to increase efficiency and improve access for District personnel
- Add a low-level outlet to maintain storage capacity of the dam and improve downstream aquatic habitats



# Orr Creek Reservoir Cleaning and Infrastructure Project

## Project Overview

### ■ Project Components

- Establish access, staging areas, and sediment laydown areas
- Dewater Orr Creek Reservoir
- Complete reservoir cleaning for that year – multiyear removal
- Complete dam repairs – final
- Realign and replace diversion pipe – final
- Install low-level outlet – final

# Orr Creek Reservoir Clean and Infrastructure Project

## Project Overview

### ■ Access

- Main access: Lorenson Road and Edward Road (private roads)
- Alternate access: Cramer Road (NID-owned road)

### ■ Staging areas

- Within the prism of the existing access roads or pre-disturbed areas adjacent to the dam
  - Within the dewatered reservoir bed
- ### ■ Sediment laydown areas (if needed, we hope to dry out the reservoir and haul directly from the reservoir)
- Established on District-owned land adjacent to reservoir

# Orr Creek Reservoir Cleaning and Infrastructure Project



# Orr Creek Reservoir Cleaning and Infrastructure Project

## Project Overview

- Dewater Orr Creek Reservoir
  - Gradually dewater by allowing water to flow through the existing outlet pipe
  - Install temporary coffer dams in Orr Creek upstream of the reservoir and at the spillway
  - Install diversion piping to divert flows from Orr Creek, through both coffer dams, and into the spillway

# Orr Creek Reservoir Cleaning and Infrastructure Project

## Project Overview

### ■ Reservoir Cleaning

- Remove approximately 10,000 cubic yards of sediment by:
  - Mechanical excavation, or
  - Hydraulic suction dredging
- Remove a maximum of 4,000 cubic yard in a year
- Removal would occur over three 120-day work seasons over three or more years
- Excavated sediment would be stockpiled and allowed to dry or inside of the Reservoir then hauled
- Dried sediment would be hauled off-site for disposal or use

# Orr Creek Reservoir Cleaning and Infrastructure Project

## Project Overview

### ■ Dam Repairs

- Following sediment removal, the District will inspect the dam and implement repairs, as appropriate
- Repair of cracks and other structural weaknesses will be completed with shotcrete, bentonite clay, or similar materials

# Orr Creek Reservoir Cleaning and Infrastructure Project

## Project Overview

- Diversion Pipe Replacement and Realignment
  - Remove and replace existing deteriorating diversion pipe and
  - Adjust pipe alignment to allow easier maintenance access

# Orr Creek Reservoir Cleaning and Infrastructure Project

## Project Overview

- Installation of Low-Level Outlet
  - Install new valve-controlled low-level outlet near base of the dam to allow water to be released directly into Orr Creek during the non-irrigation season
  - Install energy dissipation structure at the outfall to reduce water velocity and prevent erosion



# Orr Creek Reservoir Cleaning and Infrastructure Project

## CEQA Compliance

- The District is the Lead Agency for CEQA compliance
- The District has prepared an IS/MND including a comprehensive analysis that:
  - Demonstrates the need for removal of sediment from Orr Creek Reservoir
  - Discloses potential environmental effects of sediment removal
  - Proposes mitigation measures to reduce significant impacts, should any be identified, to a less-than-significant level

# Orr Creek Reservoir Cleaning and Infrastructure Project

## CEQA Compliance

- The Project may affect the following resources:

Agriculture and Forest Resources	Hydrology and Water Quality
Air Quality	Land Use and Planning
Biological Resources	Noise
Cultural Resources	Public Services
Geology, Soil, and Seismology	Transportation and Traffic
Hazardous and Hazardous Materials	Utilities and Service Systems

- Mitigation measures are incorporated to reduce potential effects to less than significant

# Orr Creek Reservoir Cleaning and Infrastructure Project

## CEQA Compliance – Mitigation Measures

### **Air Quality**

- Air Quality Best Management Practices.
- Stockpile Odor Reduction.

### **Biological Resources**

- General Construction Measures.
- Environmental Awareness Training.
- Fish/Aquatic Species Rescue.
- Clean Water Act Permitting and California Fish and Game Code Compliance.
- Frog and Turtle Monitoring.
- Monitoring Prior to Stockpiling of Excavated Sediments.
- Protection of Special-Status Raptors or Other Bird Nests.
- Protection of Riparian and Wetland Habitats.
- Protection of Oak Woodlands.

### **Cultural Resources**

- Accidental Discovery of Cultural Resources
- Tribal Consultation

# Orr Creek Reservoir Cleaning and Infrastructure Project

## CEQA Compliance – Mitigation Measures (continued)

### **Hazards and Hazardous Materials**

- Standard Fire Prevention Measures.

### **Hydrology and Water Quality**

- Water Quality Best Management Practices.
- Diversion and Dewatering Plan.
- Water Quality Monitoring Plan.
- Hydraulic Suction Dredging.
- Disposal of Sediments.
- Low-Level Outlet Design.

### **Noise**

- Noise Best Management Practices.

### **Transportation and Traffic**

- Construction Traffic, Access, and Transportation Controls.

# Orr Creek Reservoir Cleaning and Infrastructure Project

## Anticipated Permits and Approvals

- USACE – Clean Water Act Section 404 Permit
- USFWS – Endangered Species Act Consultation
- CDFW – Fish and Game Code Section 1600 Streambed Alteration Agreement
- RWQCB – Clean Water Act Section 401 Water Quality Certification and NPDES Permit
- PCAPCD – Authority to Construct Permit, Permit to Operate

# Orr Creek Reservoir Cleaning and Infrastructure Project

## Project Schedule



# Open Public Hearing

# Close Public Hearing



# Orr Creek Reservoir Cleaning and Infrastructure Project

## Questions/Comments

Request adoption of Resolution 2019-03