

AGENDA
ENGINEERING and OPERATIONS COMMITTEE
Thursday, December 2, 2021, at 9:00 am
Boardroom, 1701 North Lombard Street, Oxnard CA 93030

Call to Order – Open Session
Committee Members roll call

1. Public Comment (Proposed Time: 5 minutes)

The public may comment on any matter not on the agenda within the jurisdiction of the Committee. All comments are subject to a five-minute time limit.

2. Approval of Minutes (Proposed Time: 5 minutes)

Motion

The Committee will review and consider approving the Minutes from the November 4, 2021 Engineering and Operations Committee meeting.

3. December 8, 2021 Board Meeting Motion Agenda Items

The Committee will review and discuss the following agenda items to be considered for approval at the December 8, 2021 Board meeting. The Committee will formulate a recommendation to the entire Board based on its discussions with staff. The Committee will discuss the following items:

3.1 Supplemental Appropriation for Freeman Diversion Rehabilitation (Engineering Department, Craig Morgan/Brian Collins) (Proposed Time: 10 minutes)

The committee will review and consider recommending approval of the motion item to the full Board authorizing the General Manager to initiate a supplemental appropriation for CIP 8001 to allow for the continued advancement of the Freeman Diversion Rehabilitation project as new federal court mandated deadlines have led to the depletion of the project budget for fiscal year 2021-2022.

4. Project Highlights

4.1 Engineering Department Monthly Update (Engineering Department, Maryam Bral)
(Proposed Time: 15 minutes)

4.2 Environmental Services Department Update (Environmental Services, Linda Purpus)
(Proposed Time: 10 minutes)

4.3 Operations and Maintenance Department Monthly Update (Operations and Maintenance Department, Brian Collins) (Proposed Time: 10 minutes)

5. Future Agenda Topics

ADJOURNMENT



Engineering and Operations Committee Meeting Agenda

Thursday, December 2, 2021

Page 2

Directors:

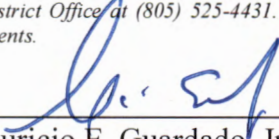
Lynn Maulhardt, Chair
Edwin T. McFadden III
Daniel C. Naumann

Staff:


Mauricio E. Guardado Jr.	Dr. Maryam Bral
Anthony Emmert	Brian Collins
John Carman	Craig Morgan
Michel Kadah	Robert Richardson
Adrian Quiroz	Linda Purpus
Randall McInvale	Evan Lashly
Hannah Garcia-Wickstrum	Tessa Lenz

The Americans with Disabilities Act provides that no qualified individual with a disability shall be excluded from participation in, or denied the benefits of, the District's services, programs or activities because of any disability. If you need special assistance to participate in this meeting, please contact the District Office at (805) 525-4431. Notification of at least 48 hours prior to the meeting will enable the District to make appropriate arrangements.

Approved:


Mauricio E. Guardado, Jr., General Manager


Dr. Maryam Bral, Chief Engineer


Brian Collins, Chief Operations Officer

Posted: (date) November 24, 2021

(time) 4:45 p.m.

(attest) *Destiny Rubio*

At: United Water Conservation District Headquarters, 1701 Lombard Street, Oxnard CA 93030

Posted: (date) November 24, 2021

(time) 5:00 p.m.

(attest) *Destiny Rubio*

At: www.unitedwater.org



Board of Directors
Michael W. Mobley, President
Bruce E. Dandy, Vice President
Sheldon G. Berger, Secretary/Treasurer
Mohammed A. Hasan
Lynn E. Maulhardt
Edwin T. McFadden III
Daniel C. Naumann

General Manager
Mauricio E. Guardado, Jr.

Legal Counsel
David D. Boyer

MINUTES
ENGINEERING AND OPERATIONS
COMMITTEE MEETING
Thursday, November 4, 2021, 9:00 A.M.

COMMITTEE MEMBERS PRESENT:

Chair Lynn E. Maulhardt
Director Edwin T. McFadden III
Director Daniel C. Naumann

STAFF ATTENDING

Mauricio Guardado, Jr., general manager
Dr. Maryam Bral, chief engineer
Anthony Emmert, assistant general manager
Brian Collins, chief operations officer
John Carman, operations and maintenance program supervisor
Hannah Garcia-Wickstrum, associate environmental scientist
Michel Kadah, engineer
Evan Lashly, environmental scientist
Tessa Lenz, associate environmental scientist
Craig Morgan, engineering manager
Josh Perez, chief human resources officer
Zachary Plummer, senior technology systems specialist
Linda Purpus, environmental services manager
Adrian Quiroz, associate engineer
Robert Richardson, senior engineer

PUBLIC PRESENT

No members of the public were present at the meeting

OPEN SESSION: 9:00 a.m.

Chair Maulhardt called the Engineering and Operations Committee Meeting to order at 9:00 a.m.

Committee Members Roll Call

Clerk called the roll. Committee members: Chair Maulhardt, Director Naumann and Director McFadden were present.

1. Public Comment

Chair Maulhardt asked if there were any public comments for the Committee. None were offered.

2. Approval of Minutes

Motion to approve the Minutes from the October 7, 2021 Engineering and Operations Committee meeting, Director Naumann; Second, Director McFadden. Voice vote: three ayes (Naumann, Maulhardt, McFadden); none opposed; Motion carried, 3/0.

General Manager Mauricio Guardado stated that item 3.2 will be removed from this agenda.

3. November 10, 2021 Board Meeting Motion Agenda Items

3.1 Resolution 2021-22 Approving the California Environmental Quality Act Notice of Exemption Determination for the Lake Piru Sediment Sampling Project

Associate Environmental Scientist Tessa Lenz addressed the committee and provided a slide presentation (see attached) regarding staff's request to recommend approval of Resolution 2021-22, adopting the California Environmental Quality Act (CEQA) Notice of Exemption (NOE) determination for the Lake Piru Sediment Sampling Project (Project) and authorizing staff to file a NOE for the Project with the Ventura County Clerk and Recorder's Office, to the full Board.

Director Naumann asked about the project details. Chief Engineer Maryam Bral stated the purpose of the Project is to evaluate sediment removal. As part of this effort, sampling will be conducted to characterize the soil and determine if the Project is economically feasible. Director McFadden asked if there is any concern regarding impacts to cultural resources within the project location. Ms. Lenz stated that no impacts to cultural resources are expected to result from the project.

The committee members agreed to recommend approval of the motion item to the full Board.

3.2 Resolution 2021-23 Approving the California Environmental Quality Act Notice of Exemption Determination for the El Rio Water Well No. 19 Project

This motion item was removed from the agenda.

3.3 Execution of a Contract Amendment with Cramer Fish Sciences for the Fish Passage Pre-Implementation Studies under FERC Project

Environmental Scientist Evan Lashly addressed the committee and provided a slide presentation (see attached) regarding staff's request to recommend authorizing the General Manager to execute a contract amendment with Cramer Fish Sciences to provide fish passage pre-implementation studies in accordance with the FERC license for the Santa Felicia Project, to the full Board.

Director Naumann asked about the project time frame. Mr. Lashly stated that staff initially completed the first year of the project and embarked on the second year, but were interrupted by the COVID-19 pandemic. Mr. Lashly stated that the fieldwork has been on hold since March 2020, but the PIT antennas have been monitoring activity since then. The purpose of this proposal is to resume the project activities.

Director McFadden asked about the size range of the tagged fish. Mr. Lashly stated that the minimum size for tagging fish is 60 millimeters. Director McFadden then asked if

there is anything that keeps the fish from swimming under or around the rotary screw trap. Mr. Lashly stated that this is a shortcoming of the screw trap, it only samples a small portion of the channel.

Director Naumann asked about the current creek flows. Mr. Lashly stated that it is currently dry. Mr. Guardado asked where the fish are currently pooling. Mr. Lashly stated it is reasonable to assume the habitat located in the upper sections have now become very small. He added, Middle Piru Creek and Agua Blanca have remained wet therefore this is where the fish may have been able to weather the drought.

The committee members agreed to recommend approval of the motion item to the full Board.

4. Project Highlights

4.1 Environmental Services Department Update

Environmental Services Manager Linda Purpus provided updates and slides (see attached) on the Environmental Services department's activities. Ms. Purpus stated that all work related to the Freeman Geotechnical Project is complete. Staff continues to collaborate with agencies and are making efforts to resolve challenges related to the Freeman Sediment Management Project. In addition, Ms. Purpus reported that staff supported Engineering in reviewing and submitting application packages for permits and authorizations for the Lake Piru sediment sampling project.

4.2 Operations and Maintenance Department Monthly Update

Chief Operations Officer Brian Collins provided updates and slides (see attached) on the operations and maintenance department's activities for the month. Mr. Collins stated that staff identified a preliminary failure on a bearing and were able to send it out for repairs. Shortly afterwards, PTP Well No. 4 went out of service which caused a 40% reduction in production capacity. Mr. Collins stated that this occurred during the peak season for the PTP system and that PTP Well No. 4 is a large producer for the system. As a result of this service interruption, staff leveraged Well No. 12 and were able to utilize the goose neck air gap and restore lost production. Since then, staff has repaired the problem on the PTP system and now need to work on administrative items related to the allocation that was drawn. Director Naumann asked how long it took to get the well back online. Mr. Collins stated that it took 8 days to get PTP Well No. 4 back online. Staff uses Demaria Electric for repairs and since working with them failures have dropped 80%. Director McFadden inquired if staff has spare motors. Mr. Collins stated that the wells have differing horse powers and there are redundancies for the wells and reservoirs.

Director Naumann asked if Well No. 19 is in the Upper Aquifer system. Mr. Collins stated that yes, it is, and from preliminary results the water from this well looks very good.

5. Future Agenda Topics

No future agenda topics were offered.

ADJOURNMENT 9:49 a.m.

Chair Maulhardt adjourned the Engineering and Operations Committee meeting at 9:49 am.

UWCD Engineering and Operations Committee Meeting MINUTES

November 4, 2021

Page 4

I certify that the above is a true and correct copy of the minutes of the Engineering and Operations Committee Meeting of November 4, 2021.

ATTEST: _____
Lynn Maulhardt, Chair

Resolution 2021-22

Lake Piru Sediment Sampling Project CEQA NOE

ENGINEERING AND OPERATIONS COMMITTEE | NOVEMBER 4, 2021

AGENDA ITEM 3.1

Recommendation for Board consideration in adopting
the California Environmental Quality Act (CEQA)
Notice of Exemption (NOE)
for the Lake Piru Sediment Sampling Project



2021-11-04 EngOps Committee Minutes - Agenda
Item 3.1

1

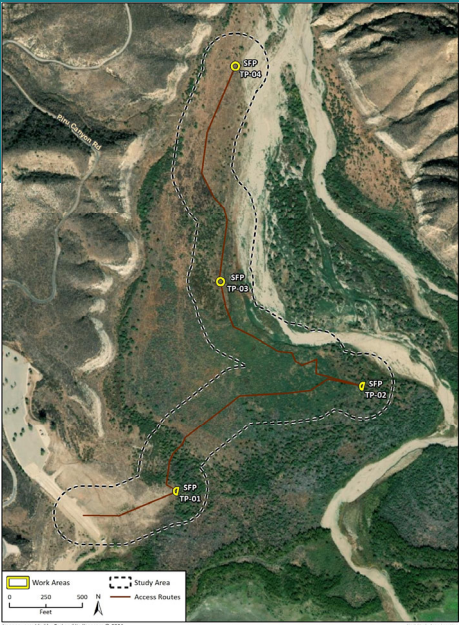
Project Overview


Objective

- Obtain information on the character of accumulated sediments in Lake Piru
- Four exploratory test pits (12 feet in depth)

CEQA Findings

- Categorical Exemption: Information Collection (Class 6, Section 15306)





2021-11-04 EngOps Committee Minutes - Agenda
Item 3.1

2

Request to Engineering and Ops. Committee:

Consider recommending that the Board adopt a Resolution to approve the CEQA Findings (NOE) for the Lake Piru Sediment Sampling Project

Questions





United Water Conservation District




Engineering and Operations Committee Meeting

November 4, 2021

Agenda Item 3.3

Request to consider recommending that the Board authorize the General Manager to execute a contract amendment with Cramer Fish Sciences to continue Santa Felicia fish passage pre-implementation studies (\$440,950)



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Project Background

2008 - NMFS Biological Opinion


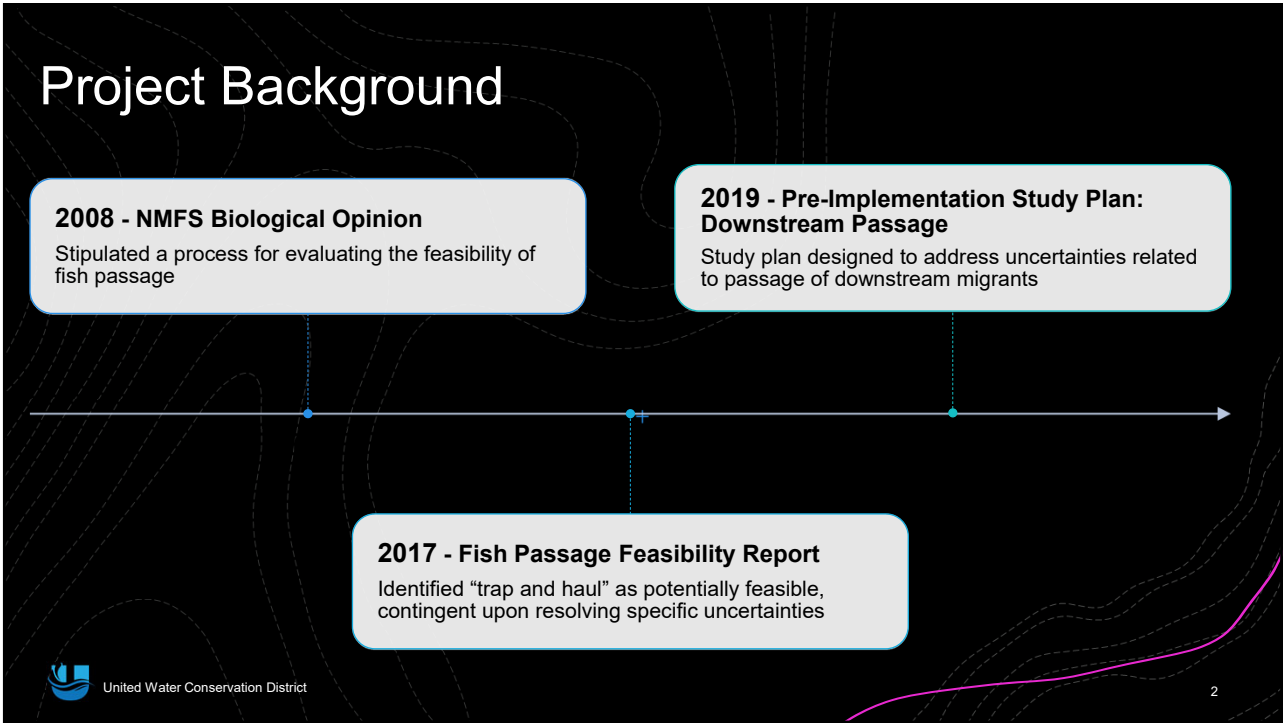
Stipulated a process for evaluating the feasibility of fish passage

2017 - Fish Passage Feasibility Report

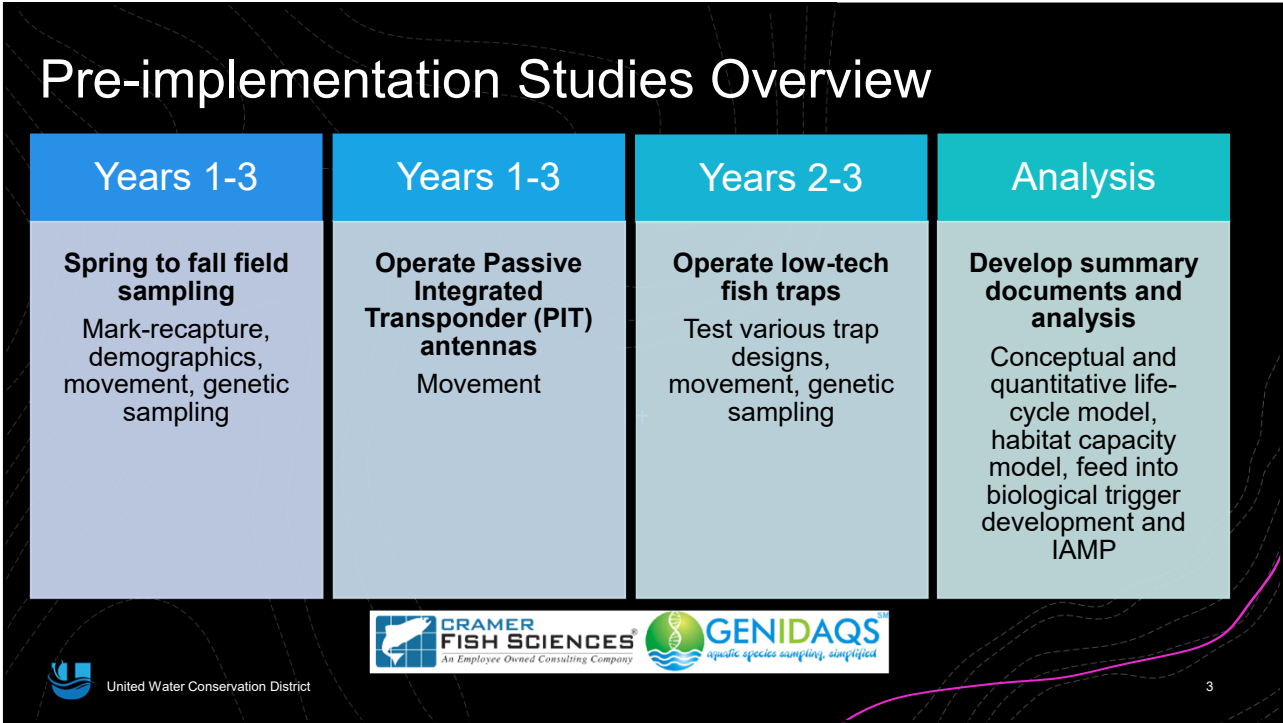
Identified “trap and haul” as potentially feasible, contingent upon resolving specific uncertainties

2019 - Pre-Implementation Study Plan: Downstream Passage

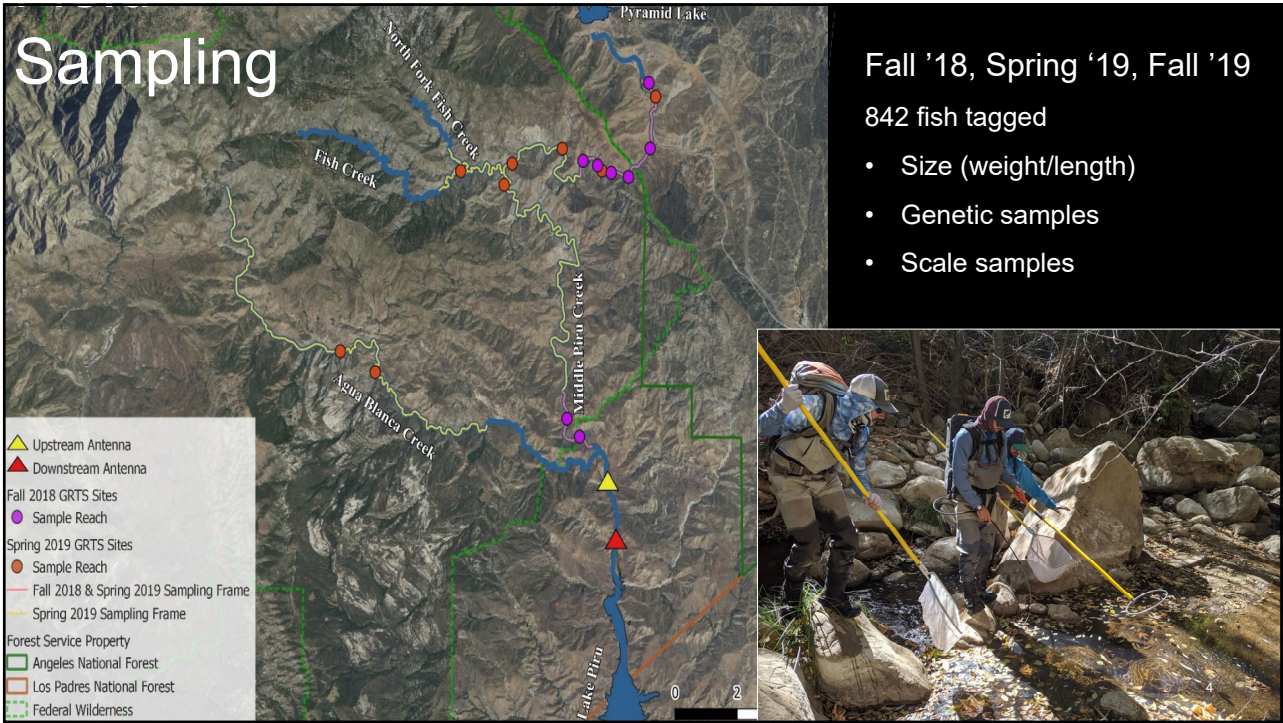
Study plan designed to address uncertainties related to passage of downstream migrants



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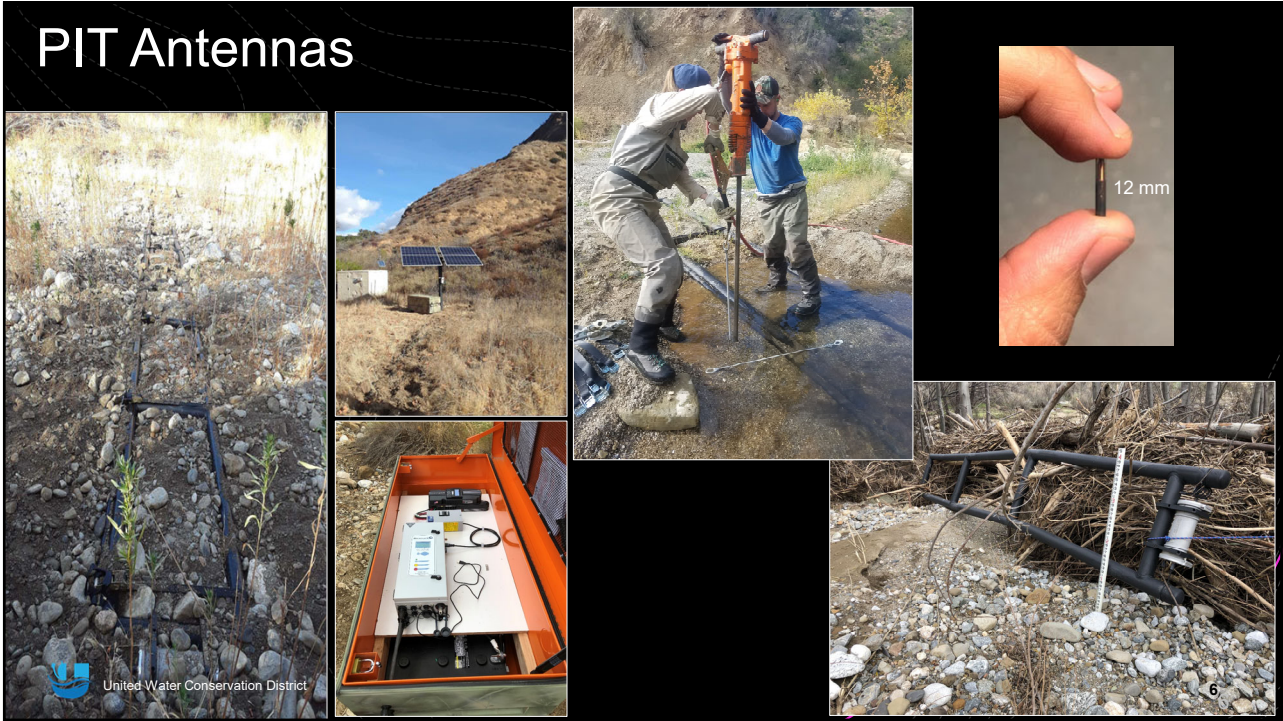
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Fish Traps

(operated Nov. 2019 – March 2020)

A



United Water Conservation District

B





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Staff Recommendation

The Committee recommend authorizing the General Manager to execute a contract amendment with Cramer Fish Sciences for \$440,950 (for a contract total NTE \$1,275,490) to the full Board

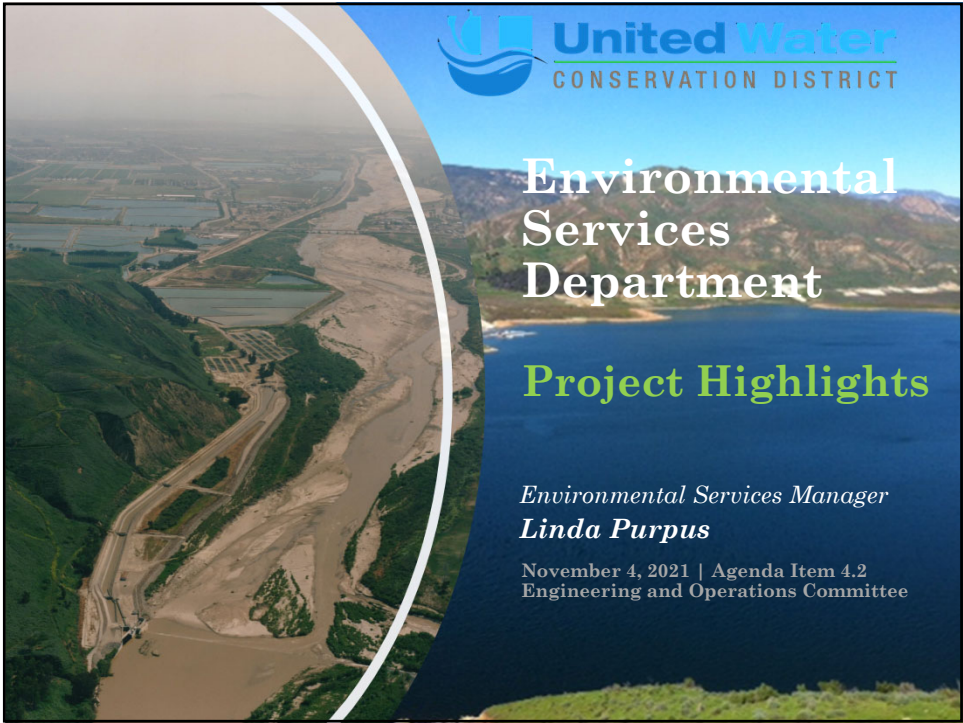
Next Steps

- Genetic analysis
- Pick up where year 2 left off



United Water Conservation District

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Summary Updates

- Freeman Geotechnical Exploration
- Freeman Sediment Management
- Lake Piru Sediment Sampling Project

United Water Conservation District

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ELECTRICAL STORM / FIVE TRANSFORMER BANKS REPLACED



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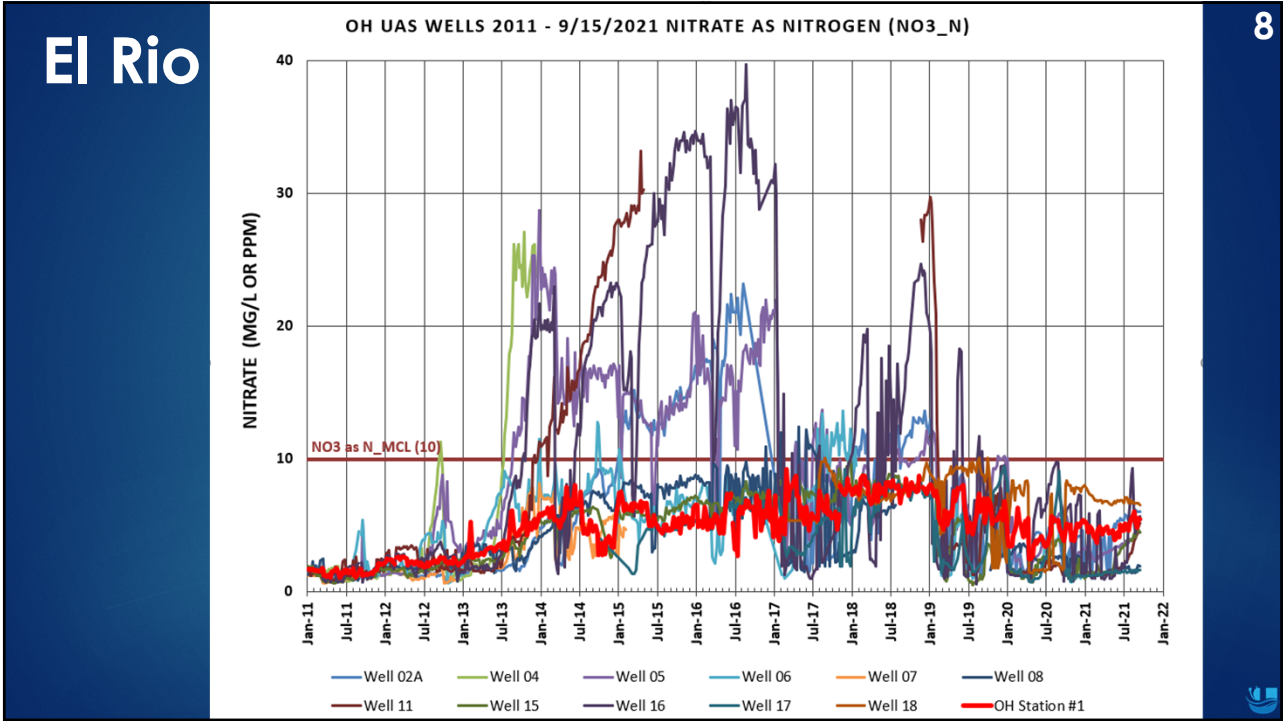
NEW OH WELL 19 AND MOTOR SERVICING



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Questions?





Staff Report

To: Engineering & Operations Committee

Through: Mauricio E. Guardado, Jr., General Manager

From: Maryam Bral, Chief Engineer
Craig Morgan, Engineering Manager

Date: November 23, 2021 (December 2, 2021 Committee Meeting)

Agenda Item: **3.1 Recommend the Authorization of a Supplemental Appropriation of Funds for the Freeman Rehabilitation Project, CIP 8001**
Motion

Staff Recommendation:

The Committee will consider recommending approval of the motion item, authorizing a supplemental appropriation for the Freeman Rehabilitation Project, CIP 8001, to the full Board.

Discussion:

On November 23, 2020, per a Federal Court order Staff delivered a physical model plan that contained a schedule to conduct physical modeling at one laboratory with a completion date of August 15, 2023. A Motion to Modify was filed to the Court to get relief on the November 1, 2021, physical model completion date listed in the Stipulation Order. A partial time extension was granted and the newly mandated completion date of October 31, 2022.

To complete the physical modeling, consisting of 1:12 and 1:24 model of the hardened ramp and a 1:8, 1:12 and 1:24 scale model of the vertical slot, within the mandated timeline two modeling labs are being used. The Bureau of Reclamation (BOR) is conducting the physical modeling for the hardened ramp and the University of Iowa (UI) is conducting the physical modeling for the vertical slot. Modeling is already underway at both facilities.

The physical modeling effort at BOR will require the additional funding of \$668,929 to accomplish the work by the court mandated deadline. As a condition of work performed by the BOR, in accordance with the contributed fund agreement terms, funding must be deposited in advance for the scope of work to be completed.

UI is currently under contract for the 1:12 and 1:24 scale models and to expedite their work to meet the mandated deadline they have requested \$336,721. Additionally, UI will also ensure the completion of a 1:8 scale model that will investigate the auxiliary water and fish screens. The cost for the third model is \$667,774 and the funds to construct the model will be necessary before the end of FY 2021-2022.

Agenda Item: 3.1 Approve a Supplemental Appropriation of Funds for the Freeman Rehabilitation Project, CIP 8001
Motion

Consulting engineering support will be required throughout the physical modeling effort. Northwest Hydraulic Engineers (NHC) will support the hardened ramp and Stantec will support the vertical slot. The support will include site visits to the modeling lab, computation fluid dynamic (CFD) computations, weekly meetings, report review and engineering design. Due to the complexities with the hardened ramp NHC has estimated that \$341,254 will be needed to support the expedited hardened ramp physical modeling effort. Stantec will need an additional \$155,300 to support the larger scale vertical slot physical model and expedited physical modeling schedule.

At the request of National Marine Fisheries (NOAA) and California Department of Fish and Wildlife Service (CDFW) additional engineering design has been solicited for the implementation of a debris boom for the hardened ramp. The estimated fee for this design is \$170,000.

The condensed modeling schedule will require more time of staff. Frequent trips will be made to the physical modeling facilities. There will be more meetings required to review the modeling results and subsequent design modifications. It is estimated that staff salaries through the end of the fiscal year will be near \$287,294.

As a result, borrowing from different account to fund the work that has been encumbered to date. A portion of the funds that were allocated for permitting have already been used. It is estimated that permit support will require \$100,000 through the end of the fiscal year.

Fiscal Impact:

Approval of this item would result in a supplemental appropriation of \$3,000,000 which includes a 10 percent contingency. This proposed appropriation was not budgeted for the Fiscal Year 2021-22. Budget and will require a supplemental appropriation from the recent Bond Refinance.