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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, September 2, 2021, 9:00 A.M.**

**Board Room**  
**UWCD, 1701 North Lombard Street, Oxnard CA 93030**

**COMMITTEE MEMBERS PRESENT:**

Director Edwin T. McFadden III  
Director Daniel C. Naumann  
Chair Lynn E. Maulhardt, chair (participated via Webex)

**STAFF ATTENDING**

Mauricio E. Guardado, Jr., general manager  
Dr. Maryam Bral, chief engineer  
Anthony Emmert, assistant general manager  
Brian Collins, chief operations officer (participated via Webex)  
Craig Morgan, senior engineer  
Robert Richardson, senior engineer  
Adrian Quiroz, associate engineer  
Zachary Plummer, IT administrator  
Linda Purpus, environmental services manager  
Randall McInvale, associate environmental scientist  
Tessa Lenz, associate environmental scientist  
John Carman, Operations and Maintenance program supervisor  
Erik Zvirbulis, GIS analyst  
Daryl Smith, controller  
Cherie Windsor, environmental services field technician

**PUBLIC PRESENT**

Burt Handy (participated via Webex)

**OPEN SESSION: 9:05 a.m.**

Chair Maulhardt called the Engineering and Operations Committee Meeting to order at 9:05 a.m.

**Committee Members Roll Call**

Administrative Assistant Destiny Rubio commenced Roll Call.

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 July 1, 2021 Engineering and Operations Committee meeting, Director McFadden; Second, Director Naumann. Roll call vote: three ayes (Naumann, Maulhardt, McFadden); none opposed; Motion carried, 3/0.

Chief Engineer Dr. Maryam Bral provided a verbal update on the Department of Water Resources Proposition 1 grant. The item was not listed on the agenda but per the committee members request, she informed the Committee of letters of support were requested and received from the Fox Canyon Groundwater Management Agency (FCGMA) and the US Navy Base Ventura County (UCNBVC) related to the Coastal Brackish Groundwater Extraction and Treatment Plant Project and would be submitted with the grant application, which is due on September 7. Director Naumann inquired if staff asked other agencies for letters of support. Dr. Bral stated that United only reached out to FCGMA and the USNBVC.

## **2. September 8, 2021 Board Meeting Motion Agenda Items**

### **3.1 Resolution 2021-17 Approving the CEQA Initial Study-Mitigated Negative Declaration and issuance of the Notice of Determination for the Freeman Diversion Fish Passage Facility Geotechnical Exploration Project**

Associate Environmental Scientist Randall McInvale addressed the committee and provided slides (see attached) regarding the request to recommend approval of the CEQA Initial Study-Mitigated Negative Declaration and issuance of the Notice of Determination for the Freeman Diversion Fish Passage Facility Geotechnical Exploration Project.

Director Naumann inquired if this project is related to the area of growth near the Freeman Diversion. Dr. Bral stated that this project is specifically related to the advancement of the design of the Freeman Fish Passage Diversion alternative. The goal of the borings is to gain information about the geology and the location of the bedrock that will support the future structure

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

### **3.2 Geotechnical Investigation at the Freeman Diversion**

Senior Engineer Craig Morgan addressed the committee and provided a slide presentation (see attached) regarding the request to recommend approval of awarding a consulting engineering contract to GEI Consultants, Inc. in the amount of \$499,724 (includes 9% contingency or \$41,403 to be used upon the District's written authorization only) and authorize the General Manager to execute the contract with GEI Consultants, Inc. for the Geotechnical Investigation at the Freeman Diversion.

Mr. Morgan stated this was related to the motion item that was just presented by Mr. McInvale (Item 3.1). He added the geotechnical subsurface investigation will be performed to gain more information on the subsurface elements. GEI's proposed schedule to perform the work is five months, which will include the field investigation, drilling and reporting. The slide presentation shows that 13 boreholes will be drilled using a track driven drill rig. The plan is to drill down to the bedrock, which is expected

to be 25-35 feet below surface, and to identify the siltstone. Staff will then use bore holes and test pits to correlate the geology with previous data and obtain additional data required to build the foundation. One other item that will be installed is an inclinometer, which will be used to analyze movements associated with the potential for landslides.

Chair Maulhardt inquired about the yellow boundary line shown on the slide and the property owner. Mr. Morgan stated that that property is owned by the James Lloyd Butler Trust (JLBT). Chair Maulhardt asked if we have an easement with JLBT. Mr. Morgan stated that there is a verbal agreement in place to access the property. Chief Operations Officer Brian Collins added that staff has initiated discussions with Thomas (with JLBT) and the discussions were then moved to Peter, Maryann and Mike Sullivan. Mr. Morgan clarified that the pits are on United's property. Chair Maulhardt and Director Naumann stated that for administrative purposes, it would be good to have something in writing that allows United to do this work on JLBT's property. They directed staff to obtain either a letter or a Memorandum of Understanding. General Manager Mauricio E. Guardado, Jr. stated that staff will double check and circle back regarding this task.

Director Naumann asked about the length of time the inclinometer will be in place. Mr. Morgan stated that it will in place in perpetuity.

Director Naumann asked if this is connected to the court order. Mr. Morgan stated yes, it is related to the Court's order and is used to inform the design.

Chair Maulhardt then inquired if staff should have a line of clinometers along the toe of the hill. Dr. Bral stated that staff will think about this, but the inclinometer is sufficient for the information the District needs. The inclinometer not only records the immediate area next to it, but the data can also be extrapolated to other areas. Director Naumann asked about the timing. Mr. Morgan stated that staff has a tight deadline and would like to start after the nesting season ends on September 16.

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

### **3.3 Authorize an Emergency Use Interconnection with California American Water for the El Rio Service Area**

Dr. Bral addressed the committee and provided a slide presentation (see attached) regarding the request to recommend approval of authorizing the General Manager to execute an agreement with California American Water to establish an emergency resiliency use interconnection to the Oxnard Hueneme Pipeline for providing additional system reliability to the El Rio service area.

Director McFadden asked how the current turnouts are used. Dr. Bral stated that they are not used for anything at this time. Chair Maulhardt stated that he assumes all items will be a part of the construction process. Dr. Bral stated that United has isolation valves as well. He also stated that the detailed design prepared by CalAm will be reviewed and approved by United, and that all permitting, design and planning costs will be a part of CalAm's tasks. She added that CalAm's use will be limited to emergency events and will follow the OH Users Agreement that is currently in place for these events.

Director McFadden stated that he agrees with the concept and in the event of an emergency, the District would likely have to provide water anyway, so it is better to have everything in place. Director Naumann stated that he also agrees but there are some aspects, including issues with the OH and GMA allocations, that need to be addressed.

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

#### **4. Project Highlights**

##### **4.1 Operations and Maintenance Department Monthly Update**

Mr. Collins provided updates and slides (see attached) on the Operations and Maintenance department's activities for the month. Director Naumann inquired about the well that was put into place. Mr. Collins stated that Well No. 19 has been drilled and the pump and piping installation is pending.

Director Naumann asked if there is a time lapse camera to capture the progress of the physical modeling. Mr. Collins stated that there is no timelapse camera, but staff does receive weekly photos, which are included in the progress report. Director Naumann encouraged staff to keep an album of those to share with the pumpers. Mr. Collins stated that staff is in the first phase of the shakedown, and will be traveling to Denver the third week of September.

##### **4.2 Freeman Diversion Sediment Management Project – Update**

Evan Lashly provided updates and slides (see attached) on the project progress. Mr. Lashly stated that it is feasible to get the work done in Fall 2021, but further delays at this point diminish the chance for meeting that deadline. He added work can only be done in a dry riverbed, and the District runs the risk of getting early season storms. United has a hard stop of January 1, 2021 but the CEQA reports include both a Phase 1 and Phase 2 of this project, and even if the District is unable to complete the project this year, the CEQA component will still be complete.

#### **5. Future Agenda Topics**

No future agenda topics were offered.

#### **ADJOURNMENT 10:18 a.m.**

Chair Maulhardt adjourned the Engineering and Operations Committee meeting at 10:18 am.

I certify that the above is a true and correct copy of the minutes of the Engineering and Operations Committee Meeting of September 2, 2021.

ATTEST:



Lynn Maulhardt, Chair





## Engineering and Operations Committee Meeting

### Agenda Item 3.1 RESOLUTION 2021-17

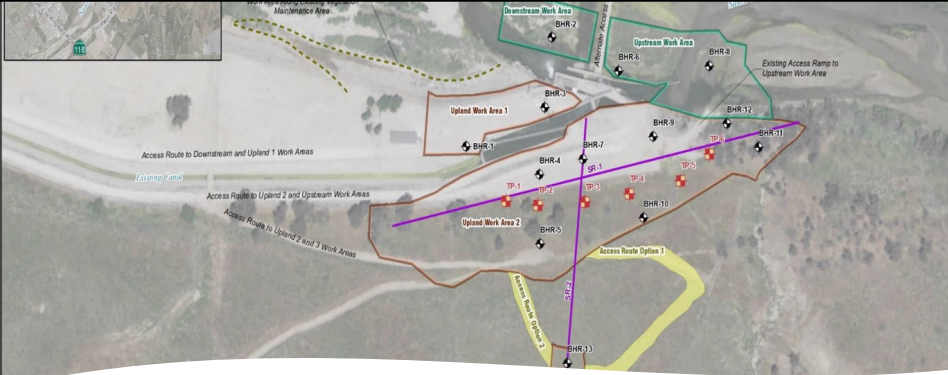
Approving the CEQA Initial Study-Mitigated Negative Declaration and Issuance of the Notice of Determination for the Freeman Diversion Fish Passage Facility Geotechnical Exploration Project



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CONSERVATION DISTRICT


02 Sep 2021

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## Project Planning and Review

- Both in-river and upland exploration locations
- Utilizing existing access routes to the extent feasible
- Scheduling work to minimize resource interactions



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## CEQA Findings

### Potentially significant impacts identified in the CEQA analysis:

- Air Quality
- Biological Resources
- Cultural Resources
- Geology/ Soils
- Hazards and Hazardous Materials
- Hydrology/ Water Quality

All mitigated to less than significant impact

### Significance findings:

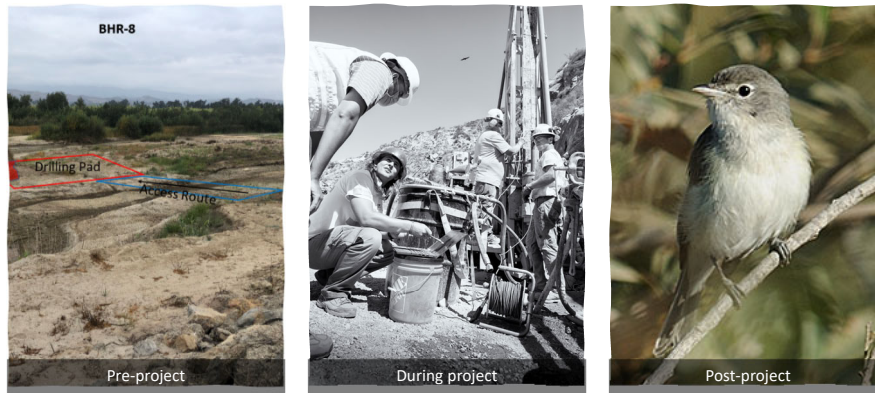
- The project will not have a significant impact on the environment
- The project will not make or contribute to significant cumulative impacts
- The project would not have a significant impact on humans



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## Mitigation Measures




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Request to  
the  
Engineering  
and  
Operations  
Committee

Consider recommending that  
the Board adopt a Resolution  
to approve the CEQA findings  
and issue a Notice of  
Determination

 *Questions*

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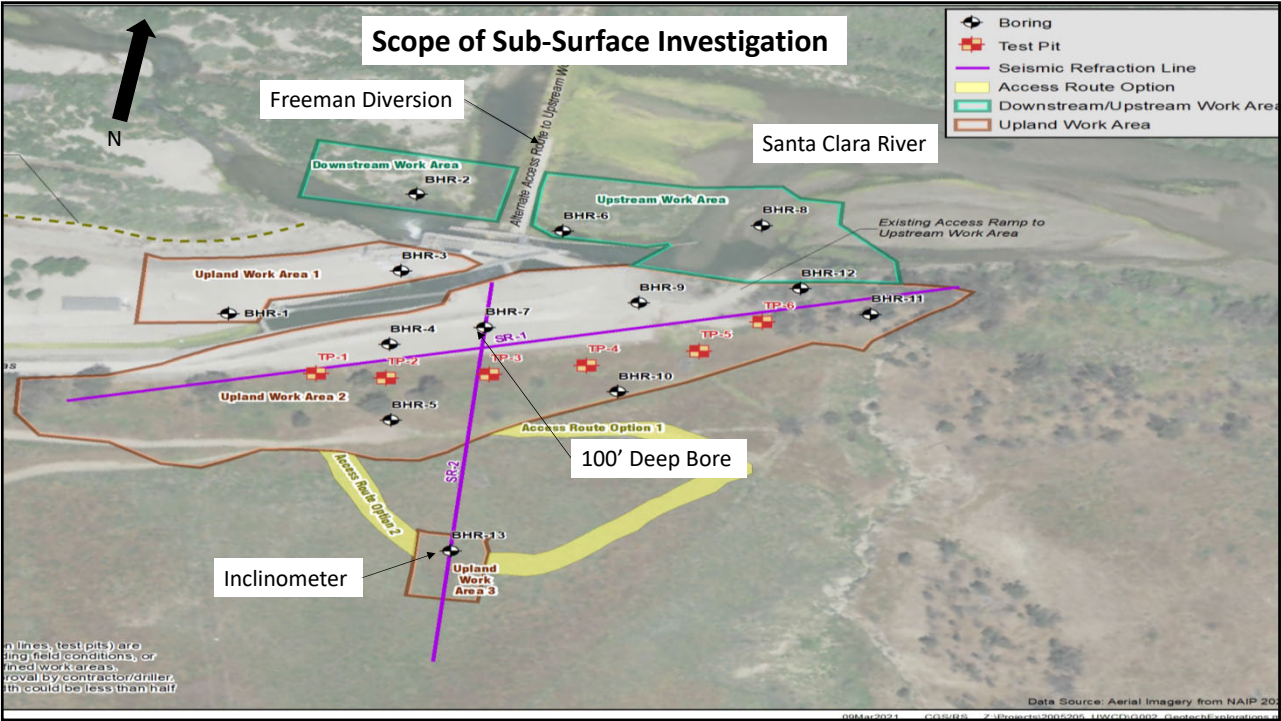
Motion Item  
3.2  
Geotechnical Investigation for the Hardened  
Ramp Design at the Freeman Diversion

GEI will perform a sub-surface investigation of the area in and around the Freeman Diversion

Duration of the Geotechnical Investigation will be 5 months

Geotechnical Investigation will inform the placement of the Hardened Ramp features on the bedrock/siltstone.





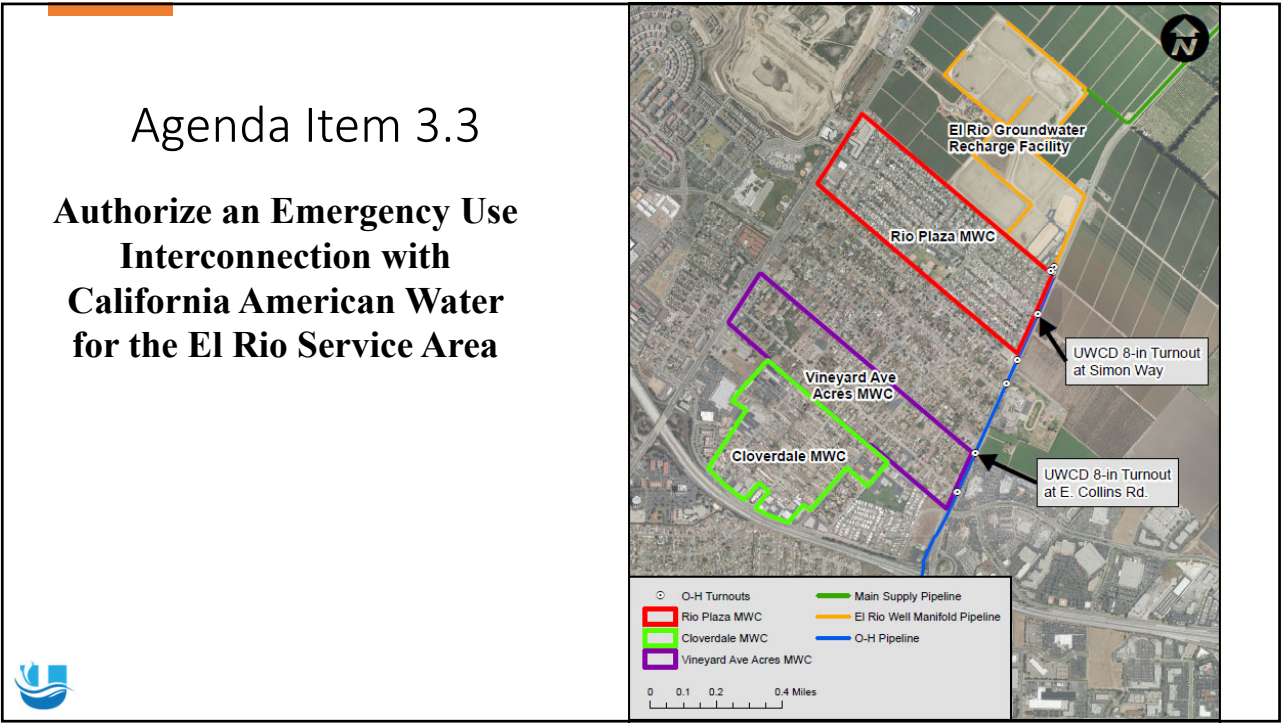
## Motion Item

### 3.2

#### **Geotechnical Investigation for the Hardened Ramp Design at the Freeman Diversion**

- ☐ Laboratory testing
- ☐ Geotechnical Data Report
- ☐ Geotechnical Evaluation Report
- ☐ Contract Amount: \$499,724 + \$41,403 (9% contingency) = \$499,724









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FREEMAN BORING



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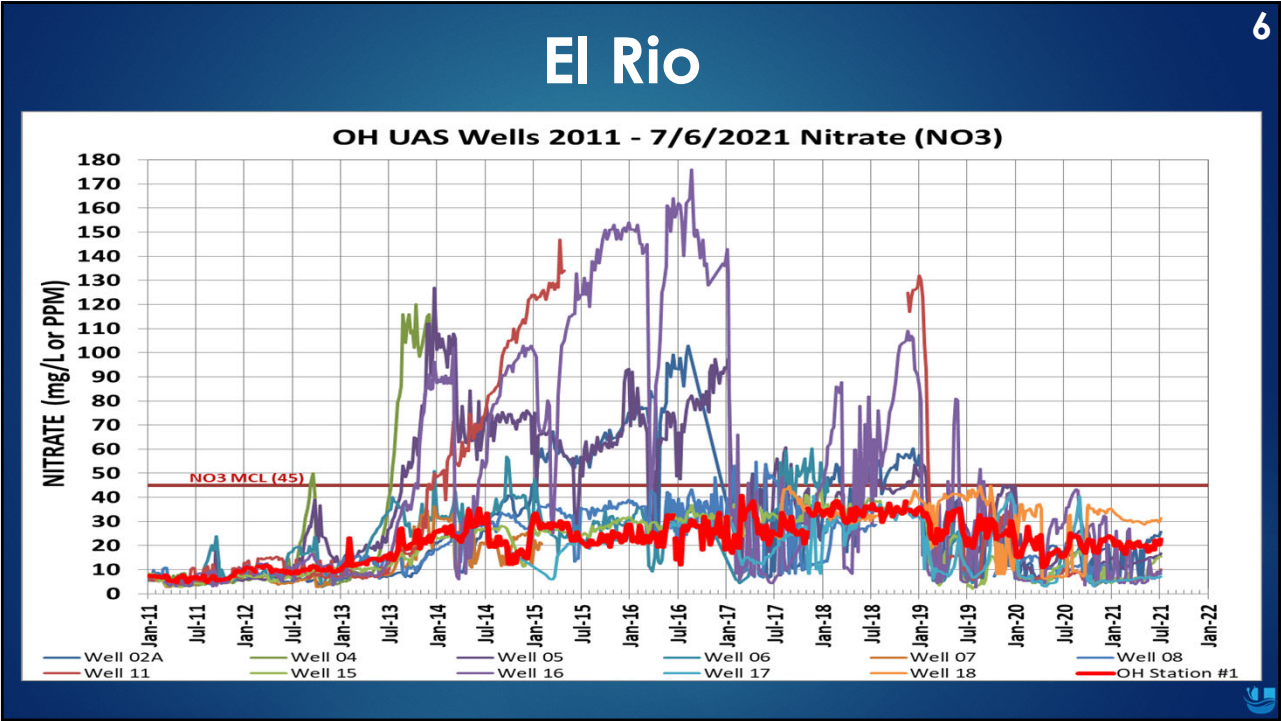
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Instrumentation Highlights



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EL RIO BOOSTER PLANT-VCEH



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AR Switch Replacement



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Pressure Relief Valve Replacements



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PTP Reservoir Fill Valve



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

















### PV Reservoir 42-inch Valve Replacement



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### Water/Wastewater Agency Leaderboard

Agency	% of Annual Energy Savings Since Enrollment	Total Annual Cost Savings	Incentives Reserved	Projects
1  United Water Conservation District	28.2%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ \$ \$ \$ \$ \$	 x1  x5
2  Carpinteria Sanitary District	20.2%	\$	\$	 x1
3  Goleta Sanitary District	19.9%	\$ \$	\$	 x1  x1
4  Pleasant Valley County Water District	18.5%	\$ \$	\$	 x1
5  Running Springs Water District	16.8%	\$		 x1
6  Cucamonga Valley Water District	12.5%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	 x14
7  Inland Empire Utilities Agency	10.7%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$	 x2  x5
8  Las Virgenes Municipal Water District	8.3%	\$ \$ \$ \$ \$ \$ \$ \$	\$ \$ \$ \$ \$ \$	 x2  x3

Additional SoCalREN member agencies: Channel Islands Beach Community Services District, Coachella Valley Water District, East Orange County Water District, Eastern Municipal Water District, Eastern Sierra Community Services District, Foothill Municipal Water District, Hilton Creek Community Service District, Idyllwild Water District, June Lake Public Utilities District, Junipero Community Service District, Lake Arrowhead Community Services District, Ojai Valley Sanitary District, Orange County Sanitation District, South Orange County Wastewater Authority, Tulare Irrigation District, Upper San Gabriel Valley Municipal Water District, and Western Riverside County Regional Wastewater Authority.

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# Physical Model Update



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# Questions?



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ENGINEERING AND OPERATIONS COMMITTEE SEPTEMBER 2, 2021  
AGENDA ITEM 4.2: PROJECT HIGHLIGHT



# Freeman Diversion Sediment Management Update

PRESENTED BY:  
ENVIRONMENTAL SERVICES DEPARTMENT

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# Streamlined Approach


**Project Strategy Shift – 2 Phases**

Phase 1

*Take advantage of current dry condition:*

- Avoid water completely
- Reduce complexity of analysis
  - Single event





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# “Waters” Permitting

- **Fish and Game Code Section 1602, Lake and Streambed Alteration**
  - July 13, 2021 – Notification filed
  - August 11, 2021 – Notice of “Incomplete Notification”
  - August 19, 2021 – Supplemental information submitted
- **Clean Water Act – Sections 404 and 401**
  - August 11, 2021 – US Army Corps of Engineers, permit modification request
  - August 11, 2021 – LA Regional Water Quality Control Board, application filed
  - “Reasonable period of time” established to end 10, 2021


*These applications supported by a Biological Resources Assessment and Jurisdictional Delineation*

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# California Environmental Quality Act

- **August 27, 2021 – Draft IS-MND submitted for public review**
  - September 26, 2021 – Public comment period ends
- **October 13, 2021 – Anticipate adoption of Final IS-MND by Board of Directors**

United Water Conservation District

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