



Board of Directors  
Bruce E. Dandy, President  
Sheldon G. Berger, Vice President  
Lynn E. Maulhardt, Secretary/Treasurer  
Mohammed A. Hasan  
Catherine P. Keeling  
Gordon Kimball  
Daniel C. Naumann

General Manager  
Mauricio E. Guardado, Jr.

Legal Counsel  
David D. Boyer

**MINUTES**  
**ENGINEERING AND OPERATIONS**  
**COMMITTEE MEETING**  
**Thursday, March 2, 2023, at 9:00 a.m.**  
**Board Room, UWCD Headquarters**  
**1701 N. Lombard Street, Oxnard, CA 93030**

**COMMITTEE MEMBERS IN ATTENDANCE**

Lynn E. Maulhardt, chair  
Catherine P. Keeling, director  
Daniel C. Naumann, director

**STAFF IN ATTENDANCE**

Anthony Emmert, assistant general manager  
Brian Collins, chief operations officer  
Dan Detmer, water resources manager  
Hannah Garcia-Wickstrum, associate environmental scientist  
Michel Kadah, engineer  
Jackie Lozano, administrative assistant  
Craig Morgan, engineering manager  
Josh Perez, chief human resources officer  
Zachary Plummer, technology systems manager  
Linda Purpus, environmental services manager  
Ed Reese, technology systems specialist  
Brian Zahn, chief financial officer

**PUBLIC IN ATTENDANCE**

Betsy Cooper (City of Ventura)  
One additional member of the public was in attendance.

**Call to Order- Open Session**

Chair Lynn Maulhardt called the committee meeting to order at 9:00 a.m. The clerk of the Committee called roll. All Committee members were present (Keeling, Maulhardt, Naumann).

**1. Public Comments**

**Information Item**

Chair Maulhardt asked for public comment. There were none offered.

**2. Approval of Minutes**

**Motion**

Motion to approve the minutes of February 2, 2023, Engineering and Operations Committee meeting, Director Naumann; Second, Director Maulhardt. Roll call vote: two ayes (Maulhardt, Naumann); none opposed; one abstained (Keeling) as she was not present at the time. Motion carries 2/0/1.

**3. March 8, 2023, Board Meeting Agenda Motion Items**

The Committee reviewed and discussed the following motion items for the March 8, 2023, UWCD Board of Directors meeting to formulate Committee recommendations:

**3.1 Authorize Approval of the Draft Agreement between the City of San Buenaventura, United Water Conservation District, and Calleguas Municipal Water District for Construction and Operation of an Interconnection to Convey Water Between Their Water Systems; and Authorize the General Manager to Execute the Final Agreement**

Engineering Manager Craig Morgan presented this motion to the Committee (presentation attached). Director Naumann requested Mr. Morgan, when bringing this motion to the Board, to provide the background on how this agreement came to be and how it was many years in the making. He continued by saying, there were multiple meetings held with the City of Ventura and Calleguas Municipal Water District to discuss the usage of this water. Chair Maulhardt added, the original intent was to give the cities of Ojai and Ventura a reliable water source and access to state water. Director Naumann felt it was worth mentioning that the water going through state water was untreated.

No further comments or questions were offered by the Directors. No public comments or questions were offered. The Committee members were all in favor of recommending approval of this item to the full Board.

**3.2 Contract Amendment to the Engineering Design Support Contract with Stantec Consulting Services, Inc. for the Vertical Slot Fish Passage Alternative**

Mr. Morgan continued with summarizing this motion to the Committee (presentation attached). After a brief discussion, the Committee members were all in favor of recommending approval of this item to the full Board.

No questions were offered by the Directors. No public comments or questions were offered.

**3.3 Resolution 2023-(pending no.) Determining that Emergency Work at Reasoner Creek is Exempt from the Provisions of the California Environmental Quality and Approving Emergency Work at Reasoner Creek**

Environmental Services Manager Linda Purpus introduced Associate Environmental Scientist Hannah Garcia-Wickstrum to the Committee and welcomed her up to the podium to present. She summarized this motion for the Committee (presentation attached). After a brief discussion between the Committee members and staff regarding potential future efforts on creek bank restoration, Chair Maulhardt and the other Committee members were in favor of recommending approval of this item to the full Board.

No further comments or questions were offered by the directors. No public comments or questions were offered.

**4. Project Highlights** (see attached slides)

**4.1 Engineering Department Update**

Mr. Morgan presented staff's activities covering the Santa Felicia Dam (SFD), Lake Piru Recreation Area, the Iron and Manganese Treatment Facility, PTP metering, the Extraction Barrier and Brackish Water Treatment Project, and public outreach (presentation attached).

Upon conclusion of the presentation, Chair Maulhardt requested staff should present to the Board their entire presentation but shorten it up to only mention the activities the department has been working on. Also, staff should talk about the SFD functional exercise and mention it was a tabletop exercise. Regarding the functional exercise slides, save the slides but cut down the description because the details are in the staff report and there is no need to go through that for the Board.

No further questions or comments were offered from the Committee. No comments or questions were offered from the public.

**4.2 Environmental Services Department Update**

Ms. Purpus presented highlights of the Environmental Services Department activities which included storm damage assessment in middle Piru Creek upstream of Lake Piru, Castaic flood flow measurements, SFD migration release, and the mention of the California Natural Resource Agency's approval of CEQA suspension for requesting a variance from the 3,150 acre foot release limitation of the FERC license for the SSWP (Pyramid Lake).

There was a question from Director Naumann regarding variance of the release related to CEQA. Ms. Purpus added additional context and background information for the Committee. There was further discussion amongst the Committee and staff on how to leverage water flow through Castaic. Assistant General Manager Tony Emmert agreed with the Committee that this would be a good project to explore. Chair Maulhardt expressed his concern that the government made the mistake of publicizing that the drought may be over and to tie any decision-making ruling that the drought is over is misleading or wrong. He also mentioned that the District should evaluate how to respond to this. It was his observation that there are two forms of water storage affected, groundwater storage and surface water storage and that groundwater storage remains in crisis. He suggested staff give thought to making a case to official electives that the government needs to be mindful – there is surface storage but there are issues for those receiving groundwater. Mr. Emmert expressed that official electives were hearing what the water users are saying. After much discussion and in conclusion, the Committee asked staff to collectively think about the issue and how the District should respond, such as a letter of support.

Regarding feedback from the Committee on what to bring to the Board, it was recommended to discuss middle Piru Creek for the public to be informed, and to include a map for reference showing location of storm damage upstream Lake Piru and another map of Lake Pyramid showing water inflows and outflows.

#### **4.3 Operations and Maintenance Department Update**

Chief Operations Officer Brian Collins presented an overview of the Operations and Maintenance Department activities which included the SFD storm cleanup and a brief summary of the EAP functional exercise, the Freeman Diversion Castaic release water harvesting, OH system delivery, PTP meter project, instrumentation preventative maintenance repairs, and OH wellfield nitrate levels.

There was a focused discussion with the Committee and staff on the SFD EAP functional exercise. Chair Maulhardt inquired on how this tabletop exercise raises the temperature and becomes a real impact scenario. He'd like staff to mention to the Board that the exercise exerted sufficient stress, tried to operate in real time and real events. He'd like staff to also highlight a brief list of the scenarios that were directed at the participants, and it was requested by Director Naumann to list on a slide who was involved in the exercise. Director Keeling commented, it was good to know that the District is well trained and well prepared.

Also, for the Board, add the impact of rain and show a chart of lake levels last year compared to this year. Mention District tracking expenditures for reimbursement from storm cleanup. Also discuss Freeman Diversion water volume going into the ground and surface water recharge. For future consideration, Chair Maulhardt would like staff to figure out a way to divert Article 21 water when forced to take water into Lake Piru. The Committee expressed the District needs to have a plan of how to manage the process of receiving water and showing the difference scenarios to determine a base plan. Director Naumann requested this be a future agenda item.

No further questions or comments were offered by the Committee. No further public comments or questions were offered.

#### **5. Future Agenda Items**

Chair Maulhardt polled the Committee members of any agenda items they would like to see at a future Committee meeting.

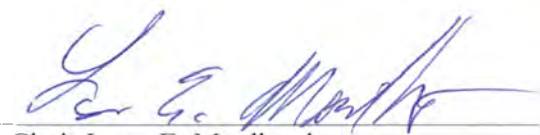
- Director Naumann, discussion on how to channel all the water to obtain maximize water storage. Possibly bringing this to Water Resources for further discussion.

#### **ADJOURNMENT 10:41 a.m.**

Chair Maulhardt adjourned the meeting at 10:41 a.m.

I certify that the above is a true and correct copy of the minutes of the Engineering and Operations Committee Meeting held on March 2, 2023.

ATTEST:

  
Chair Lynn E. Maulhardt

4/6/23



Board of Directors  
Bruce E. Dandy, President  
Sheldon G. Berger, Vice President  
Lynn E. Maulhardt, Secretary/Treasurer  
Mohammed A. Hasan  
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## ATTENDANCE LIST

**MEETING DATE:** Thursday, March 2, 2023

**MEETING:** UWCD Engineering and Operations Committee Meeting

The signing or registering of your name on this sign-up form is not required but is voluntary. All persons may attend the meetings of the Board of Directors of United Water Conservation District without signing or registering their names on this form.

Name (Please Print)

Representing

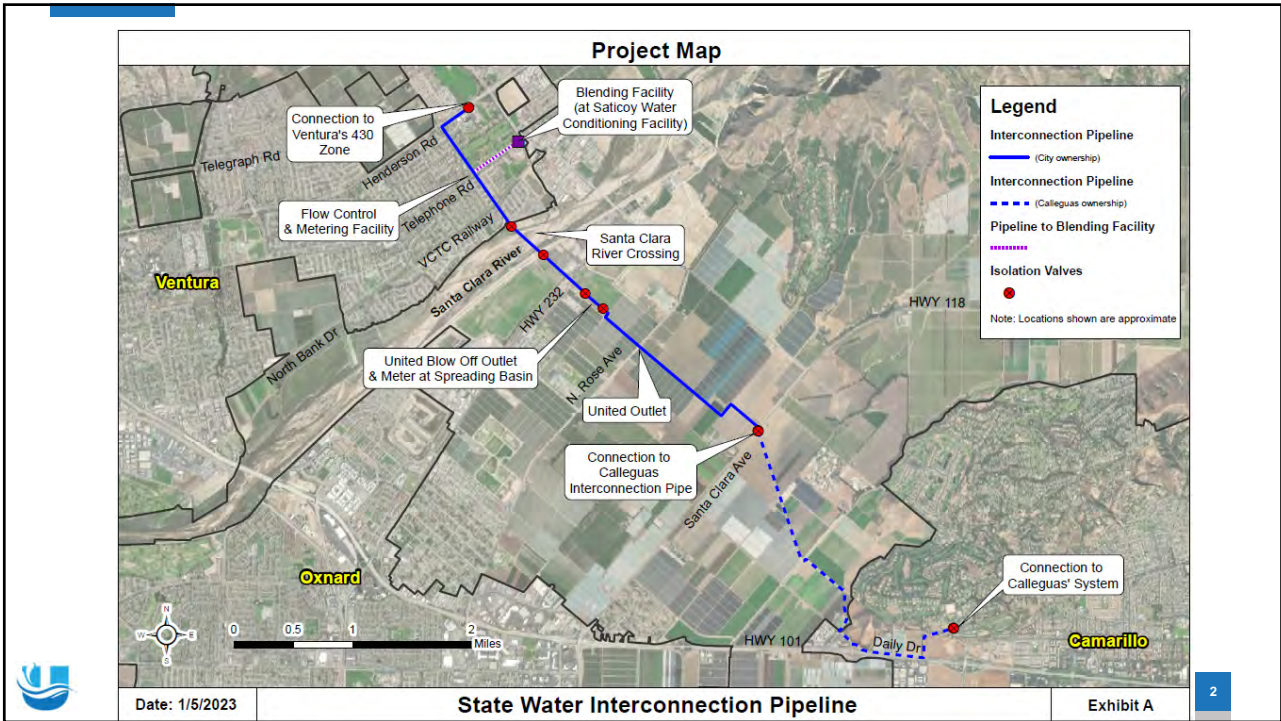
Betsy Cooper

Ventura Water

Motion 3.1




Authorize Approval of the Draft Agreement between the *City of San Buenaventura, United Water Conservation District, and Calleguas Municipal Water District* for Construction and Operation of an Interconnection to Convey Water between the Water Systems; and Authorize the General Manager to Execute the Final Agreement



### Three-Party Joint Agency Agreement

- Pipeline Capacity
- Water Delivery
- Pipeline Design and Construction (approx. seven (7) miles)
- Pipeline Size and Materials
- Water Delivery Priorities
- Easements
- Turnout Installations
- Treatment Approval
- Interconnection Use Charges
- Wheeling Agreements



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### Questions?



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## Motion 3.2

### **Contract Amendment to the Engineering Design Support Contract with Stantec Consulting Services, Inc. for the Vertical Slot Fish Passage Alternative**

- Request Committee recommendation to the Board authorizing the General Manager to execute an amendment in the amount of \$91,756
- Amendment to provide continued engineering design support of the Vertical Slot as a Freeman Diversion Fish Passage Facility alternative



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## Motion 3.3

### **Resolution 2023-## Determining that Emergency Work at Reasoner Creek is Exempt from the Provisions of the California Environmental Quality Act and Approving Emergency Work at Reasoner Creek**

- CEQA Guideline Section 15269(a) – *Emergency Project*
- Storm damage from 2023 storms at Reasoner Creek



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# ENGINEERING DEPARTMENT MONTHLY UPDATE

March 2, 2023



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## Santa Felicia Dam Safety Improvement Project

- Jan 27 - Meeting with FERC to discuss IDF and L2RA for the Project
- Feb 9 - Second coordination workshop with DWR and LADWP
  - Next meeting on May 4
- Feb 21 - NMFS review comments on draft BA
  - UWCD response due in April
- HMGP sub-application in support of SFD Outlet Works Improvement Project is on FEMA's waiting list

2

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SFD Functional Exercise

A two-day event held at UWCD District headquarters related to the SFD EAP Functional Exercise

Feb 22, Day One – SFD EAP review and tour of SFD

Feb 23, Day Two – Functional Exercise,

At least forty stakeholders and community representatives in participation



2023 SFD Functional Exercise - Day One on Feb 22

3

Lake Piru Recreation Area  
2022 Pavement Maintenance Program



2/18/2023

Asphalt and Shoulder Backing Repair



2/22/2023

Sealcoating Repair Area



4

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## Iron and Manganese Treatment Facility

2/15/2023

United States

A photograph showing the installation of a filter drain pump station. Large red pipes are being laid out on a dirt field. A white truck is parked nearby. The date 2/15/2023 and United States are visible in the top right corner of the image.

*Filter Drain Pump Station Installation*

2/15/2023

United States

A photograph showing the installation of water service for fire suppression and utility water. A large concrete structure is being worked on, with workers and equipment visible. The date 2/15/2023 and United States are visible in the top right corner of the image.

*Water Service Installation for Fire Suppression and Utility Water*



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## Iron and Manganese Treatment Facility

2/15/2023

United States

A photograph showing the interior of a filter vessel being cleaned. A large white pipe is visible, and debris is being removed. The date 2/15/2023 and United States are visible in the top right corner of the image.

*Cleaning Inside Filter Vessel in Preparation of a Soak Test*

2/15/2023

United States

A photograph showing the completion of the filter vessel face piping slab. Large red pipes are visible, and workers are present. The date 2/15/2023 and United States are visible in the top right corner of the image.

*Filter Vessel Face Piping Slab Complete*



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# Iron and Manganese Treatment Facility



20" OF Rip-Rap Apron

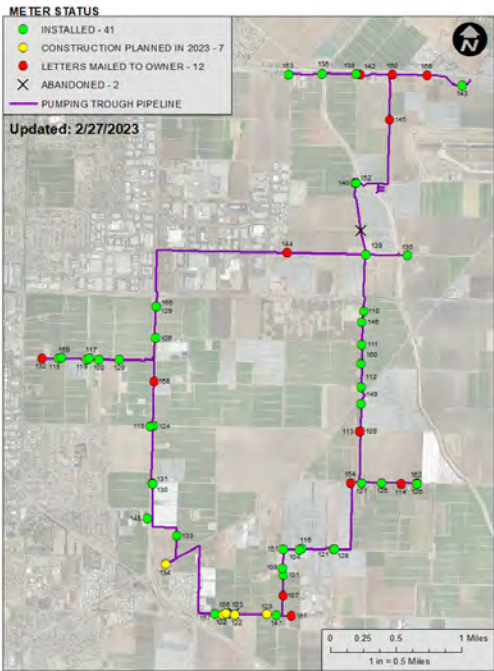


Backfill of Piping near Tank




# PTP Metering System Improvement


- 41 out of 60 meters installed (68.3%)
  - Four (4) more meter installations by Summer 2023
- 24 of 40 easements acquisitions (60%)
  - Four (4) more easement deeds pending execution and recording
- TO #122 was removed and abandoned in place per owner's request



## Extraction Barrier and Brackish Water Treatment Project

- ✓ Phase 1 A License Agreement (Feb 21, 2023 – Feb 20, 2024) allows for:
  - Ingress/Egress
  - Land Surveying
  - Geotechnical Exploration
  - Environmental Surveying
- ✓ Two-Day Permitting Charrette with the US Navy Staff and Counsel
- ✓ First Draft of Discharge Alternatives Evaluation Matrix
- ✓ Additional groundwater sampling data scheduled for Mar 2023





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## Public Outreach

Feb 16 and 17 – Dr. Maryam Bral and Robert Richardson attended the 2023 CalDesal Annual Conference in Sacramento





QUESTIONS



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Middle Piru Creek – February 7, 2023

ENVIRONMENTAL SERVICES DEPARTMENT  
MONTHLY UPDATE

March 2, 2023



18



Department  
Summary Updates

- Storm Damage Assessment Upstream of Lake Piru
  - > 40 full debris blockages
  - >\$100K loss of equipment middle Piru Creek
- Castaic Flood Flows
  - Discharge measurements
- Santa Felicia Dam Migration Release
- CEQA Suspension SSWP (Pyramid) - Approved



Solar panels for upper PIT antenna array – Feb 2023



Fyke trap louvre panels found ~1 mile downstream of trap site – Feb 2023

QUESTIONS



North end of Lake Piru – February 14, 2023





2-28-23

# OPERATIONS AND MAINTENANCE DEPARTMENT MONTHLY UPDATE

March 2, 2023



## Santa Felicia Dam

Storm Cleanup / SFD 5-Year EAP Functional Exercise



2-7-23 SFD Treatment Plant



2-13-23 Penstock cleanup



1-12-23 Tunnel access



2-22-23 EAP exercise



2

## Freeman Diversion

### Castaic Release and Water Harvesting





3

## OH Delivery

### Oceanview Meter Upgrade – Iron and Manganese Basin Drains






4




# PTP

## PTP Meter Project




2-2-23

Turnout 106 Rice Road



2-2-23

Turnout 159 Wooley Road



5

# Instrumentation

## High Voltage Preventive Maintenance – VFD Repairs




2-14-23 OH Wellfield



2-14-23 OH Wellfield



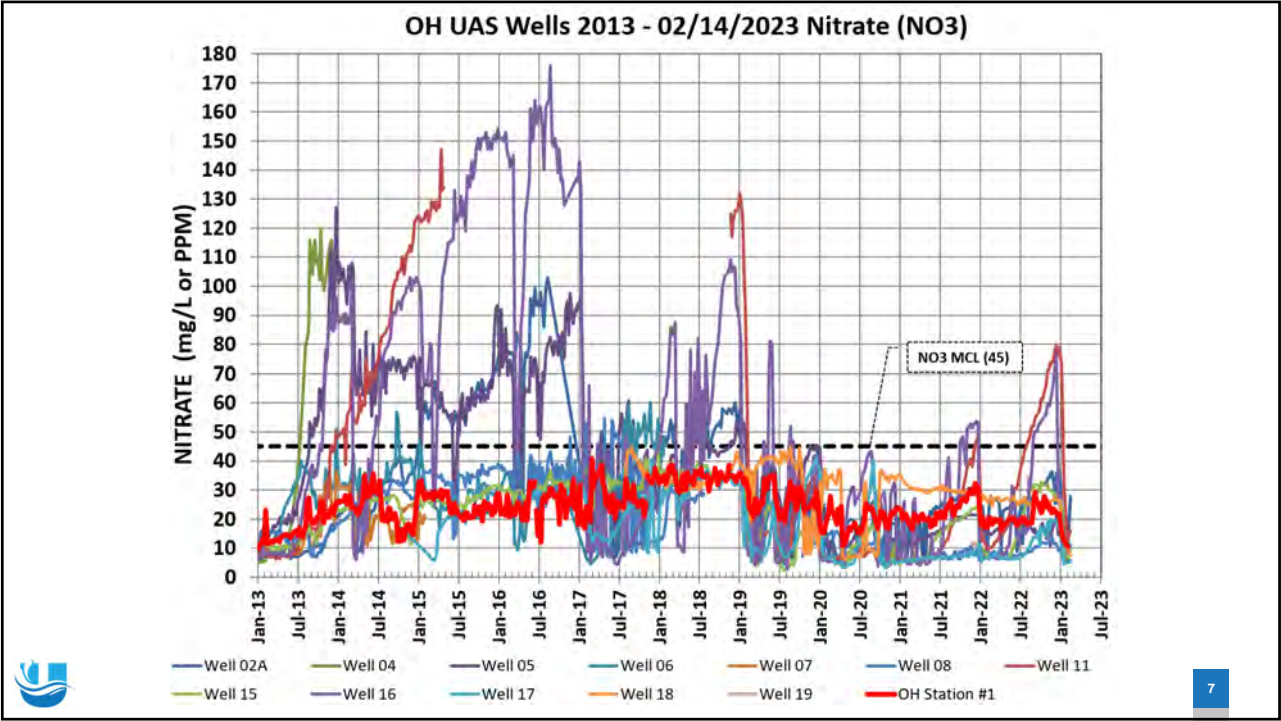
2-21-23 OH Wellfield



2-27-23 PTP Reservoir VFD



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Questions?

8

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