

AGENDA
ENGINEERING and OPERATIONS COMMITTEE MEETING
Thursday, April 6, 2023, at 9:00 a.m.
UWCD Headquarters, First Floor, Board Room
1701 N. Lombard Street, Oxnard, CA 93030

CALL TO ORDER – OPEN SESSION 9:00 a.m.

Committee Members Roll Call

1. Public Comment

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 March 2, 2023, Engineering and Operations Committee meeting.

3. April 12, 2023, Board Meeting Motion Agenda Items

The Committee will review and discuss the following agenda items to be considered for approval at the April 12, 2023, 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 OH Well Replacement Program – El Rio Water Well No. 20 Construction Contract in the Amount of \$849,283.00

(Engineering Department, Craig Morgan) (Proposed Time: 10 minutes)

The Committee will consider recommending approval of the motion item to the full Board that considers authorizing the General Manager to award a construction contract to the lowest responsible bidder, Bakersfield Well & Pump Company, in the amount of \$849,283 for the construction of the Oxnard Hueneme (OH) Well Replacement Program – El Rio Water Well No. 20 Construction project.

4. Monthly Department Updates (Proposed Time: 15 minutes per update)

Information Item

The Committee will receive and review the monthly reports from the Engineering, Environmental Services, and Operations and Maintenance Departments as well as receive a verbal presentation of its highlights.

4.1 Engineering Department Update (Dr. Maryam Bral)

4.2 Environmental Services Department Update (Marissa Caringella)

4.3 Operations and Maintenance Department Update (Brian Collins)



5. Future Agenda Items

The Committee will suggest topics or issues for discussion on future agendas.

ADJOURNMENT

Directors:

Chair Lynn E. Maulhardt
Catherine P. Keeling
Daniel C. Naumann

Staff:

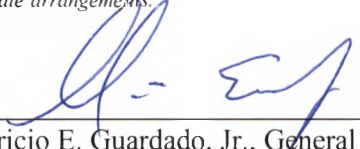
Mauricio E. Guardado, Jr.
Anthony Emmert
Linda Purpus
Marissa Caringella
Hannah Garcia-Wickstrum
Evan Lashly
Tessa Lenz
Randall McInvale

Dr. Maryam Bral
Brian Collins
John Carman
Jackie Lozano
Vanessa Vasquez

Craig Morgan
Michel Kadah
Adrian Quiroz
Robert Richardson

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, or if you require agenda material in an alternative format, please contact the District's offices 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) March 31, 2023

(time) 3:30 p.m.

(attest) Jackie Lozano

At: www.unitedwater.org

Posted: (date) March 31, 2023

(time) 3:40 p.m.

(attest) Jackie Lozano

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



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



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

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

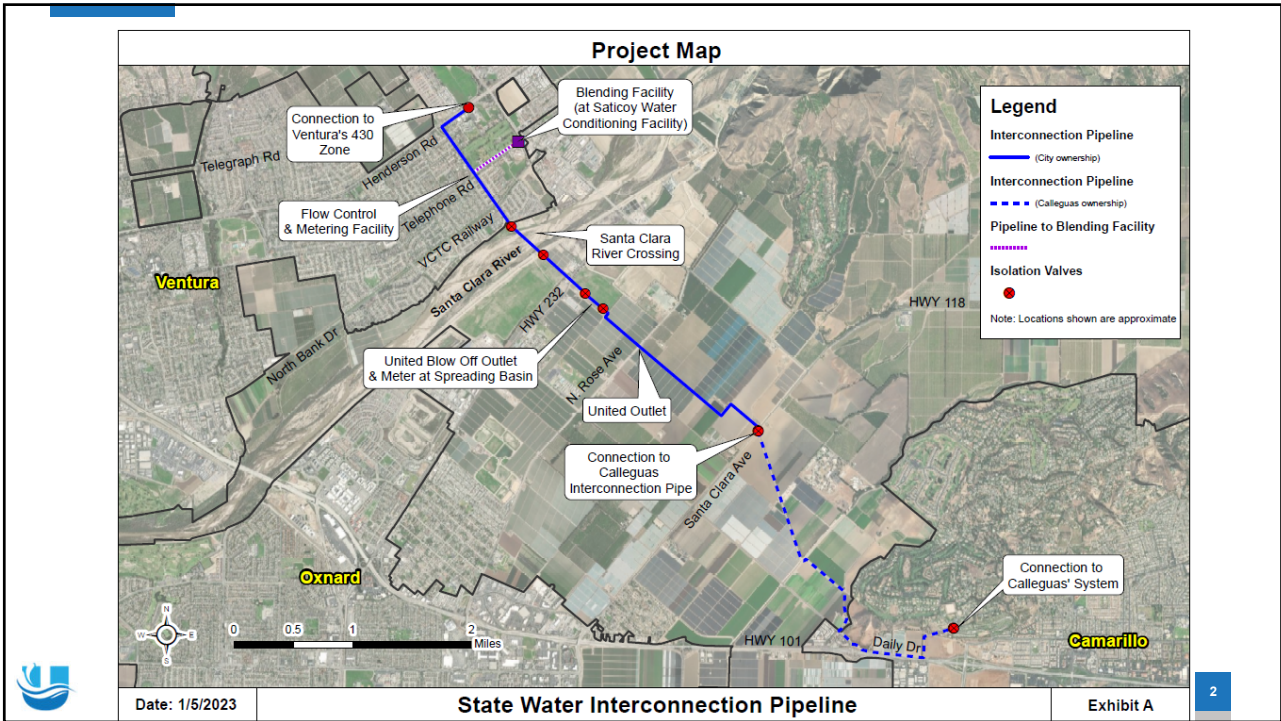
Betsy Cooper

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



3

3

Questions?



4

4

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



7



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

8



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

10

5

Iron and Manganese Treatment Facility



2/15/2023
United States

Filter Drain Pump Station Installation



2/15/2023
United States

Water Service Installation for Fire Suppression and Utility Water



5

11

Iron and Manganese Treatment Facility



2/15/2023
United States

Cleaning Inside Filter Vessel in Preparation of a Soak Test



2/15/2023
United States

Filter Vessel Face Piping Slab Complete



6

12

Iron and Manganese Treatment Facility



20" OF Rip-Rap Apron

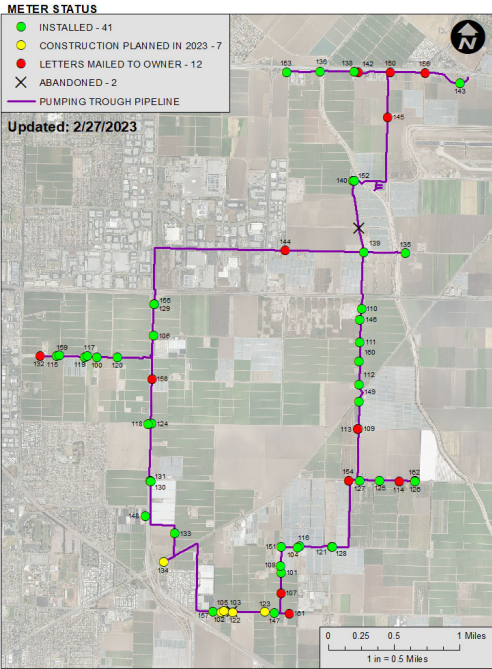


Backfill of Piping near Tank




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



11



Middle Piru Creek – February 7, 2023

ENVIRONMENTAL SERVICES DEPARTMENT
MONTHLY UPDATE

March 2, 2023



 **United Water**
CONSERVATION DISTRICT

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



21

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

22

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



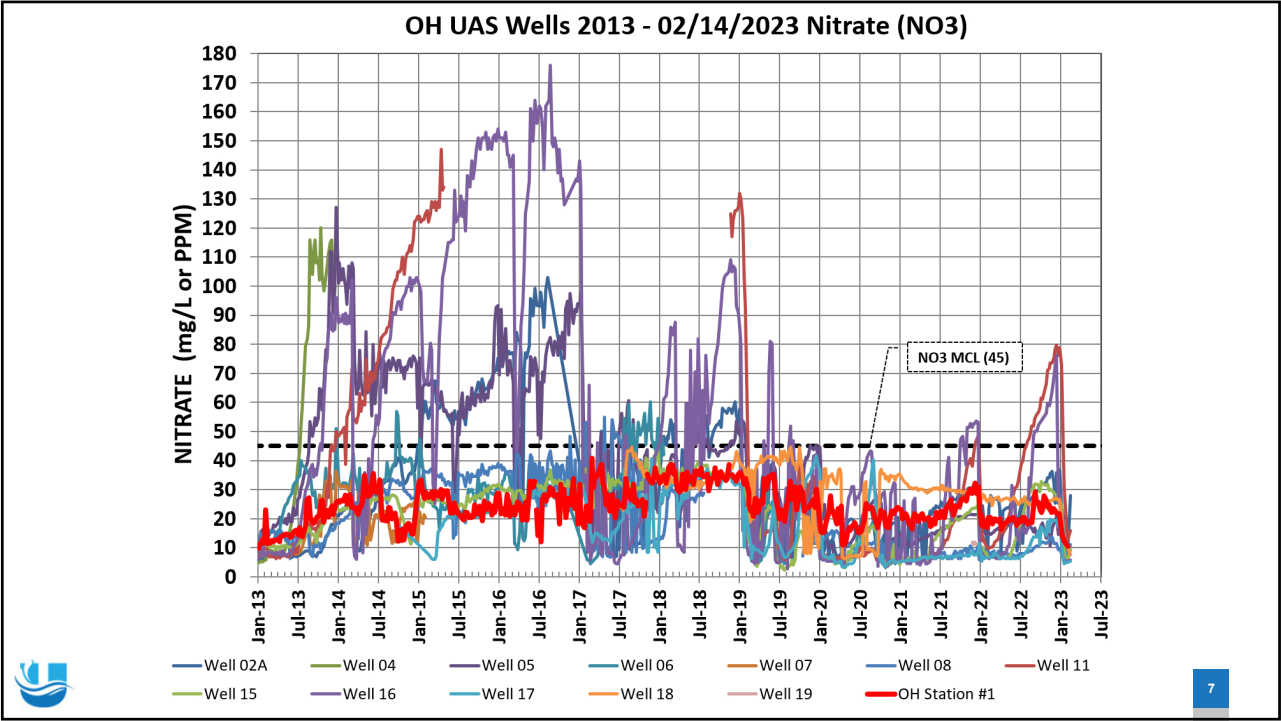
2-21-23 OH Wellfield



2-27-23 PTP Reservoir VFD



6



27

Questions?

8

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Staff Report

To: Engineering and Operations Committee Members

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

From: Dr. Maryam Bral, Chief Engineer
Craig Morgan, Engineering Manager
Adrian Quiroz, Associate Engineer

Date: March 27, 2023 (April 6, 2023, Committee Meeting)

Agenda Item: **3.1 OH Well Replacement Program – El Rio Water Well No. 20
Construction Contract in the Amount of \$849,283.00
Board Motion**

Staff Recommendation:

The Committee will consider recommending approval of the motion item to the full Board that considers authorizing the General Manager to award a construction contract to the lowest responsible bidder, Bakersfield Well & Pump Company, in the amount of \$849,283 for the construction of the Oxnard Hueneme (OH) Well Replacement Program – El Rio Water Well No. 20 Construction project.

Discussion:

The purpose of this project is to replace El Rio Water Well No. 5 with the new El Rio Water Well No. 20 as part of a multi-year effort to replace the original El Rio Wells, constructed in the mid-1950s. This project would complete the seventh and final well replacement under the program. Three bids were received on March 16, 2023. The lowest responsible bid was provided by Bakersfield Well & Pump Company. A summary of the bid results is listed below:

Bakersfield Well & Pump Company	\$849,283.00
Best Drilling and Pump, Inc.	\$953,000.00
Layne Christensen Company	\$1,144,670.08

Based on the information and references provided, staff have verified that Bakersfield Well & Pump Company has satisfactory experience to perform the work and has successfully completed other well drilling projects for the District in the past.

Staff recommends that the Committee recommends to the full Board to authorize the General Manager to award the construction contract to Bakersfield Well & Pump Company for the construction of El Rio Water Well No. 20.

Fiscal Impact:

The Well Replacement Program is included in the FY 2022-23 Budget (CIP Project Account 452-400-81060-8000) and has \$1,107,271.14 available. No additional funding is requested.



Staff Report

To: Engineering and Operations Committee Members

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

From: Dr. Maryam A. Bral, Chief Engineer
Craig A. Morgan, Engineering Manager
Robert J. Richardson, Senior Engineer
Michel Kadah, Engineer
Adrian Quiroz, Associate Engineer

Date: March 29, 2023 (April 6, 2023, meeting)

Agenda Item: **4.1 Monthly Engineering Department Report**
Information item

Staff Recommendation:

The Committee will receive this staff report and presentation from the Engineering Department regarding its activities for the month of March 2023.

Discussion:

1. Santa Felicia Dam Safety Improvement Projects

- **Spillway Improvement Project**
 - Staff conducted bi-weekly progress meetings with GEI Consultants (GEI) to review and discuss the current design status.
 - Staff coordinated monitoring of the current spill with Park Rangers and OPS staff. Staff prepared a spillway spill monitoring matrix and documented the recordings and observations of the spill that include drone video and photos, piezometer readings, and inflows and outflows. Santa Felicia Dam has been spilling since March 16 to date.
 - Staff coordinated the dates of two Board of Consultants (BOC) meetings, No. 7, and No. 8. At the BOC meeting No. 8, tentatively scheduled for November 15-16, 2023, the BOC, FERC, DSOD, GEI and District will meet to review the 60% design documents for the spillway improvement project.
- **Outlet Works Improvement Project**
 - The BOC meeting No. 7 scheduled for June 21-22, 2023, will be held to review the 90% design documents for the outlet works improvement project. The final (100%) design of the outlet works improvement project will be reviewed at the BOC meeting No. 8. Both BOC meetings will be held at the District's Headquarters.

4.1 Monthly Engineering Department Report Information Item

- Staff are planning and preparing for the construction phase of the outlet works improvement project that is planned to start in July 2024.
 - On March 13, Staff released a Request for Proposals/Qualifications (RFP/Q) for construction management and inspection services during construction of the new outlet works. On March 23, Staff conducted a site visit at Santa Felicia Dam for the prospective proposers. Representatives from nine (9) companies attended the site visit (see **Figure 1**). The proposals are due on April 17, 2023.
 - On March 17, Staff conducted an internal meeting in preparation of the third interagency coordination workshop meeting with the California Department of Water Resources (DWR) and the Los Angeles Department of Water and Power (LADWP). The purpose of the workshops is to coordinate our efforts with the two agencies during the construction of the new outlet works. Staff have been discussing Pyramid's capabilities for diverting and storing outflows to Santa Felicia Dam to reduce risk prior to and during the construction. The workshops allow the agencies to discuss constraints related to diversion, storage, and releases of outflows to Santa Felicia Dam. The next workshop will be held on May 4, 2023, at the District's Headquarters.
 - On March 20, Staff completed their review of the draft Reservoir Operation Plan (ROP) during construction and the draft Fish Screen Baffle Analysis TM and provided comments to GEI.
 - FERC License Amendment Application, NEPA Documentation and Section 7 Consultation
 - Engineering and Environmental Services Staff attended the bi-weekly permitting progress meetings with Catalyst Environmental Solutions (Catalyst) on March 3, 17, and 31.
 - Staff reviewed NMFS comments on the draft Biological Assessment (BA) and began preparation of draft responses in coordination with Environmental Services Staff, GEI, and Catalyst.
 - As requested by FERC, Staff, FERC and NMFS will be meeting on April 5 to discuss NMFS comments of the draft BA that were provided to the District on February 21.
 - Loan and Grant Applications
 - 2021 FEMA Hazard Mitigation Grant Program (HMGP)
No updates for this reporting period.
 - High Hazard Potential Dams (HHPD)
No updates for this reporting period.
 - Water Infrastructure Finance Innovation and Act (WIFIA) Loan
Staff and the Finance Department meet with the EPA WIFIA Loan Administrative Staff on a biweekly basis. the EPA WIFIA Loan Administrative Staff is currently developing a master agreement and a WIFIA loan agreement. The documents are expected to be ready for the District's review in April.
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4.1 **Monthly Engineering Department Report** **Information Item**

- Santa Felicia Dam Safety
 - On January 30, 2023, Staff e-filed the 2022 Santa Felicia Dam Part 12D Inspection – Consultant’s Safety Inspection Report with FERC which includes sixteen recommendations for improving the SFD Supporting Technical Information Document (STID). Staff will e-file a plan and schedule to satisfy these recommendations by March 31, 2023.
 - On March 22, 2023, Engineering and Water Resources Staff met with FERC to discuss their January 20, 2023, comments on the District’s October 28, 2022, submittal of the Lake Piru Reservoir Drawdown Contingency Plan (Contingency Plan) and Interim Risk Reduction Measure for Santa Felicia Dam. The Contingency Plan will be resubmitted to FERC by October 2023 and will address the January 20 FERC comments.

2. Condor Point Improvement Project

- The interpretive signage panels for the Condor Point Improvement Project were delivered on March 3, 2023. Recreation Staff installed the signs on March 26, 2023. See **Figure 2** for final installation.

3. Freeman Diversion Expansion

- Staff, USBR, the University of Iowa, Stantec and NHC participate in rotating weekly calls with NMFS and CDFW to provide updates on operational and stress testing of the physical model.

4. Iron and Manganese Treatment Facility

- Meetings:
 - Weekly coordination meetings between staff and the District’s construction manager (HDR, Inc.)
 - Weekly construction progress meetings hosted by HDR and attended by GSE Construction, Taft Electric, Kennedy Jenks Consultants (KJ) and staff.
 - GSE Construction has submitted approximately 363 out of a total of 395 submittal packages anticipated for the project. HDR and design engineer (KJ) have provided responses on approximately 358 submittal packages including a requirement to comply with the Buy American Act (BAA).
 - GSE Construction has submitted approximately 127 Requests for Information (RFIs) to date. HDR, KJ and the District have been providing responses.
 - Thirty-one (31) Change Orders (COs) have been partially or fully executed to date amounting to a net total of \$1,155,205.72. This represents approximately 12.4% of the original contract amount (\$9,342,900.00). Four (4) of these COs amounting to \$662,910.19 or 7.1% of the original contract amount are directly related to compliance with the BAA which is a federal grant requirement (the project was not originally bid with this requirement in place) and \$492,295.50 or 5.3% of the original contract amount is related to all other COs that have resulted in additions or modifications to the original scope of work.
-

4.1 Monthly Engineering Department Report Information Item

- District O&M Staff completed the construction of the 20" OF and 8" OF rip-rap aprons on February 22, 2023.
- Final Draft Operations, Maintenance and Monitoring Plan (OMMP): document is under review by Staff and will be finalized and submitted to the State Water Resources Control Board (SWRCB) Division of Drinking Water (DDW) by March 2023 before commencement of start-up and testing operations.
- GSE Construction continued construction of the following (See Figures 3 and 4)
 - 20" Spent Wash Water (SWW)
 - 24" Raw Water Pipeline (RAW)
 - 24" Raw Water (RAW) – flushing and disinfection
 - 24" Filtered Water (FW) Connection – pressure testing and corrections
 - Various underground sample lines
 - Various underground electrical conduits
 - Various work around Filter Drain Pump Station
 - Filter face piping encasement and concrete slab construction
 - Filter vessel platform handrails
 - Filter vessel cleaning and internals
 - Laboratory/Electrical/Blower Building
 - i. Exterior grouting and weather sealing
 - ii. Drywall
 - iii. Interior electrical
 - iv. Fire line risers and backwash service
- The tentative date for construction completion and implementation is June 21, 2023, (per CO No. 31 which was fully executed on March 21, 2023). A total of thirteen (13) inclement weather days have been counted. GSE's latest monthly schedule update on March 14, 2023, indicated that construction will be completed by July 18, 2023.

5. PTP Metering Improvement Project

- Total number of meters installed: 41 of 60 or 68.3% complete.
 - An additional eight (8) meter installations are planned by mid-2023 (Turnout Nos. 102, 103, 105, 109, 123, 134, 158, 162).
 - Easement acquisition completion: 24 of 40 obtained or 60% complete.
 - An additional four (4) utility easement deeds have been signed by the property owner (Turnout Nos. 102, 103, 105, 123) pending execution by the General Manager and recording by the County of Ventura.
 - Battery and solar panel thefts are on the rise at some locations. Staff are taking measures to secure this equipment.
 - The owner of the property that is served by Turnout No. 154 previously declined in a letter to sign the easement deed, has agreed to an on-site meeting with the District and their tenant.
 - The owner of the properties served by Turnout Nos. 113 and 114 have agreed to sign the easement deeds.
-

4.1 Monthly Engineering Department Report Information Item

- The owner of the property served by Turnout 144 was contacted by District staff and has tentatively agreed to sign the easement deed following review by their legal counsel.
6. PTP Recycled Water Connection – Laguna Road Pipeline Project
- On March 7, Staff met with Rincon Consultants, Inc. and discussed the project scope and environmental permit requirements. Rincon prepared and submitted a proposal for environmental investigations and the Initial Study as part of the CEQA analysis.
 - On March 9, Staff met with Kennedy Jenks (KJ) to discuss the next design phase. KJ is in the process of preparing a proposal for the development of the 60% design documents.
 - PVCWD is currently reviewing the outlines of a draft Agreement that was prepared by Staff.
7. Rice Avenue Grade Separation Project and Impact on PTP
- CalTrans has filed an eminent domain action against the District.
8. State Water Project (SWP) Interconnection Pipeline Project
- The draft copy of the three-Party Interagency Agreement (Agreement) was presented as a motion item to the Engineering and Operations Committee Meeting on March 2 and the Board of Directors approving the Agreement and authorization of the General Manager to execute the final copy of the Agreement on March 8.
 - Ventura Water Commission Staff is planning to present the Agreement to their City Council on April 10 requesting the City Council adopt the Agreement.
9. Extraction Barrier and Brackish Water Treatment Project
- Meetings:
 - Held weekly internal meetings between Engineering, Environmental, and Water Resources staff to discuss progress on agreements with the Navy, grants, CEQA/NEPA/permitting documentation preparation, preliminary design report preparation, coastal water quality sampling and groundwater flow modeling.
 - March 13, First NEPA/CEQA “Drumbeat” Meeting with District, ESA Consultants and Navy NEPA staff and Subject Matter Experts (SMEs). The project schedule was discussed, and the Navy informed United, the information request developed at the permitting charrette meeting in February, will be formally responded to in written format.
 - March 15, The District’s General Manager provided a presentation of the project to the Local Agency Formation Committee (LAFCO) whose governing body authorized staff to prepare a letter of support for the project in concept.
 - March 15 and 22, The District and Navy staff held meetings to develop the draft Memorandum of Agreement to establish a UWCD-Navy partnership for the Phase 1B project.
 - March 16, Held progress meeting with the Phase 1B project design team, Kennedy/Jenks Consultants.
 - March 6 and 20, Held progress meetings with the Phase 1B project CEQA and permitting team, ESA Consultants.
-

4.1 Monthly Engineering Department Report Information Item

- March 23, Engineering, Environmental, Water Resources and Operations and Maintenance staff participated in a tour of the Charles E. Meyer Desalination Plant in Santa Barbara, CA (see **Figures 5 and 6**).
- Agreements/Grants:
 - Phase 1A License Agreement: This license agreement will enable ingress/egress at NBVC Point Mugu for the District's staff and consultants to conduct preliminary investigations related to design, CEQA and permitting documentation. The agreement was fully executed on February 21, 2023, and expires February 20, 2024.
 - New Monitoring Wells: An amendment is needed to an existing license agreement that covers access, maintenance, operation and data collection for existing monitoring wells (22, A1, A-2, CM-1, CM-2, CM-1A, CM-6 and Q2). This amendment is pending site approval by the Navy.
 - The draft Memorandum of Agreement (MOA) has been prepared between UWCD and the Navy to develop a partnership for the Phase 1B project.
 - The draft Letter of Request (LOR) initiating the Navy's real estate process for an outgrant easement has been prepared for the Phase 1B project.
 - On March 6, 2023, the District received written notice from the State Water Resources Control Board (SWRCB) Division of Financial Assistance (DFA) that a grant award of \$8,449,062 was approved for the Phase 1B project.
- Design:
 - On March 17, Kennedy/Jenks Consultants submitted the draft Technical Memorandum (TM) No. 1 entitled "Discharge Options Evaluation." This included input from ESA consultants on environmental and regulatory considerations. The TM is currently under review by District and Navy staff.
 - Kennedy/Jenks Consultants has provided a draft scope of work for surveying and geotechnical needs to be performed by one of the District's on-call consultants.
- CEQA/NEPA/Permits:
 - ESA Consultants reviewed water quality data related to the Mugu Lagoon and reviewed general NPDES permit requirements. ESA Consultants is currently determining the appropriate permitting path for the proposed discharge options and developing a scope of work for data collection as required.
- Geotech/Hydrogeology:
 - Proposals will be received by April 24 in response to the RFQ/P for "Planning, Design, Construction Oversight, and Related Support Services for up to Twenty (20) Phase 1 Groundwater Monitoring Wells as Part of Extraction Barrier and Brackish Water Treatment Project at Naval Base Ventura County-Point Mugu."

10. Asset Management/ CMMS System

- No updates to report.

4.1 Monthly Engineering Department Report Information Item

11. Lake Piru Recreation Area – 2022 Pavement Maintenance Program

- On March 9, Staff notified the asphalt contractor (Horizon) that a new asphalt depression area was developed within Phase 3 area of the project. Horizon complied with the request and agreed to repair this area once the rain subsides.
- The Notice of Completion for this project will be executed after the repairs are complete.

12. Other Topics, Meetings and Training

- On March 15, Maryam Bral and Clayton Strahan met with the Piru Neighborhood Council to discuss the spill from Santa Felicia Dam and what it means for the Town of Piru.
- On March 23, Maryam Bral, Dan Detmer, Robert Richardson, Randy Castaneda, Adrian Quiroz and Tessa Lenz participated in a tour of the Charles E Meyer Desalination Plant in Santa Barbara, CA.
- On March 29, Maryam Bral attended and presented on SFD SIP for the Open House and Facilities Tour held at district headquarters. Maryam Bral joined the group on a tour of SFD and Lake Piru Recreation Area.



Figure 1 – SFDSIP Construction Management Services Pre-Bid Site Visit (March 23)

4.1 Monthly Engineering Department Report Information Item



Figure 2 – Completed Interpretive Signage at Condor Point



Figure 3 – Iron and Manganese Treatment Project Construction – March 21, 2023

4.1 Monthly Engineering Department Report Information Item



Figure 4 – Iron and Manganese Treatment Project Construction on March 21, 2023



Figure 5 – Tessa Lenz, Dan Detmer and Adrian Quiroz Observing Standby Seawater Intake Pump at the Charles E Meyer Desalination Plant in Santa Barbara (23-Mar-2023)

4.1 Monthly Engineering Department Report Information Item



Figure 6 – Maryam Bral and Robert Richardson Observing Reverse Osmosis Trains at the Charles E Meyer Desalination Plant in Santa Barbara (23-Mar-2023)



Figure 7 – District Open House and Facilities Tour guests at Lake Piru Recreation Area (29-Mar-2023)



Staff Report

To: Engineering and Operations Committee Members

Through: Mauricio E. Guardado, Jr., General Manager
Anthony A. Emmert, Assistant General Manager

cc: Dr. Maryam Bral, Chief Engineer

From: Marissa Caringella, Environmental Services Manager
Linda Purpus, Environmental Services Manager

Date: March 29, 2023 (April 6, 2023, Committee Meeting)

Agenda Item: **4.2 Monthly Environmental Services Department Report**
Information Item

Staff Recommendation:

The Committee will receive this staff report and presentation from the Environmental Services Department regarding its activities for the month of March 2023.

Discussion:

1. Santa Felicia Project Operations and Federal Energy Regulatory Commission (FERC) License Support

- Water Release Plan and Water Release and Ramping Rate Implementation Plan

Under the Water Release Plan and FERC license for the Santa Felicia Project, United Water Conservation District (United) is required to make certain water releases from the Santa Felicia Dam for steelhead habitat and migration, when specific triggers are met. Triggers for habitat water releases are based on cumulative rainfall within the water year. United evaluates whether the trigger is met on the first day of each month, between January and June. The table below presents trigger criteria for each month and minimum required releases if those triggers are met. Each month that the trigger is not met, the minimum required habitat water release is seven cubic feet per second (cfs). The measured cumulative rainfall (to date) for the current water year has exceeded all triggers for enhanced habitat water releases through October 1, 2023. The minimum required habitat water release for the month of April is 20 cfs.

4.6 Monthly Environmental Services Department Report Information Item

Habitat water release trigger date	Trigger criteria (total cumulative precipitation on trigger date)	Minimum required water release if trigger is met	2023 Measured cumulative precipitation	Actual minimum required habitat water release for month
January 1	4.80 inches	15 cfs	7.03 inches	15 cfs
February 1	8.10 inches	20 cfs	28.18 inches	20 cfs
March 1	12.00 inches	20 cfs	35.07 inches	20 cfs
April 1	14.90 inches	20 cfs	45.21 inches**	20 cfs
May 1	16.30 inches	10 cfs	TBD	10 cfs
June 1	17.50 inches	9 cfs*	TBD	9 cfs

*If triggered, the minimum required water release will remain at nine (9) cfs through October 1, at which time, minimum required water release will be seven (7) cfs through January 1 of next calendar year.

**Provisional data as of March 28, 2023.

- Dissolved Oxygen Monitoring Plan

On March 31, 2023, Environmental Services staff filed an annual report with the State Water Resources Control Board (State Water Board) in accordance with the Santa Felicia Dissolved Oxygen Monitoring Plan (DOMP). The DOMP was prepared in compliance with Condition 2 of the Water Quality Certification issued to United by the State Water Board on March 4, 2014, for operational changes at the Santa Felicia Project. The annual report details the results of monitoring activities conducted during the 2022 calendar year. United is required to file the annual report with FERC within 30 days of receipt of comments from SWRCB. The submittal to FERC will include a record of consultation associated with the annual report and will include any comments received from the State Water Board as well as United's responses to such comments.

- Vegetation and Noxious Weed Management Plan

On March 31, 2023, Environmental Services staff filed the 2022 Annual Vegetation and Noxious Weed Management Plan Report with FERC. The annual report outlines activities conducted between January 1 and December 31, 2022, in accordance with the Vegetation and Noxious Weed Management Plan. Activities included tamarisk treatment, monitoring to evaluate the success of prior tamarisk treatments, and consultation with regulatory agencies to review activities and strategize on future vegetation management strategies.

- Herpetological Monitoring Plan and Arroyo Toad Protection Plan

On March 29, 2023, Environmental Services staff held a consultation meeting with agency staff to discuss findings presented in the 2022 annual report. In accordance with United's Revised Lower Piru Creek Herpetological Monitoring Plan and Arroyo Toad Protection Plan for the Santa Felicia Project (P-2153), United submitted the combined annual report to participating agencies and FERC on December 20, 2022.

4.6 Monthly Environmental Services Department Report Information Item

- Annual U.S. Forest Service (Forest Service) Consultation

On March 7, 2023, Environmental Services, Recreation, and Engineering staff met with the Los Padres National Forest Service District Ranger, Biologist, and Botanist for the annual consultation in accordance with the FERC license 4(e) terms and conditions. Staff provided updates on activities conducted during 2022 and discussed United's upcoming projects that have the potential to affect Forest Service lands or have special interest for the Forest Service. On March 31, 2023, United filed a record of consultation with FERC detailing the meeting.

- Santa Felicia Fish Passage Pre-Implementation Studies

As previously reported, Environmental Services staff conducted a reconnaissance of conditions on Piru Canyon Road and middle Piru Creek on February 7, 2023, that resulted in the identification of over 40 full road blockages due to debris slides on Piru Canyon Road between the Juan Fernandez launch ramp and the decommissioned Blue Point Campground. In March 2023, Cramer Fish Sciences technicians conducted additional reconnaissance of Piru Canyon Road. The technicians reported that road conditions have deteriorated since the prior reconnaissance (as a result of additional storm events).

- United Water Conservation District v. FERC, Court Case in Abeyance

On September 29, 2010, the U.S. Court of Appeals granted United a motion to hold the court case "United Water Conservation District v. FERC" in abeyance and directed United to file status reports every 60-days. United filed the court case to challenge the biological opinion issued by National Marine Fisheries Service (NMFS) on FERC's issuance of a license for the Santa Felicia Project. On March 23, 2023, the seventy-fifth status update was filed with the U.S. Court of Appeals for District of Columbia Circuit.

2. Clean Water Act (CWA) Permits for General Maintenance Activities at the Lake Piru Recreation Area and Santa Felicia Project

On March 28, 2023, the U.S. Army Corps of Engineers (USACE) issued a Regional General Permit under Article 404 of the CWA authorizing general maintenance activities at Lake Piru Recreation Area and Santa Felicia Project. As is standard, the USACE established an original reasonable period of time (RPOT) for the Los Angeles Regional Water Quality Control Board (RWQCB) to issue the companion Water Quality Certification (WQ Certification) under Article 401 of the CWA for the project on December 18, 2022. The RWQCB requested two separate 30-day extensions, postponing the RPOT to February 18, 2023. On March 20, 2023, Environmental Services staff requested that the USACE waive the requirement for the WQ Certification due to the extended delay of permit issuance. In response, the USACE notified RWQCB that the requirement for a WQ Certification would be waived if the certification was not issued by close of business on March 23, 2023. The RWQCB did not meet that timeline and the USACE waived the requirement. As a result, the District is not obligated to pay fees associated with issuance of the WQ Certification.

4.6 Monthly Environmental Services Department Report

Information Item

3. CWA Permits for Emergency Activities at Lake Piru

On March 7, 2023, Environmental Services staff submitted notifications to USACE and RWQCB requesting authorization to conduct emergency work in Reasoner Creek adjacent to the Lake Piru Recreation Area Day-Use Area. The emergency work is in response to storm damage that created hazardous conditions that pose a threat to public safety and District facilities. The work is intended to restore the creek to prior conditions. United was authorized to initiate emergency work 48 hours after notifying the SWRCB and RWQCB. In support of this effort, on March 27, 2023, Environmental Services staff conducted a training with construction crews to review the environmental compliance measures and agency authorizations to conduct the emergency work in Reasoner Creek. Work was initiated on March 28, 2023.

4. Freeman Diversion Operations

- Freeman Diversion Sediment Management

On February 28, 2023, the District received approval from California Department of Fish and Wildlife (CDFW) for the placement of a cowbird trap to satisfy mitigation requirements associated with the Lake and Streambed Alteration Agreement (LSAA) for the Freeman Diversion, Phase 1 Sediment Management Project. The cowbird trap, located on District property approximately 0.7 miles downstream of the Freeman Diversion on the south bank of the Santa Clara River, is planned to be operated seasonally between April 1 – June 30 for a period of three years. The specific trap location may change based on trapping results, subject to approval from CDFW. Griffith Wildlife Biology will construct and operate the trap on behalf of the District.

- Freeman Diversion Fish Passage Facility

The Freeman Diversion fish ladder and associated surveillance system have remained in operation since January 1, 2023. No fish have been detected traversing the fish ladder during this period. During the month of March, two notifications were issued to NMFS, NMFS-Office of Law Enforcement (OLE), and CDFW staff regarding Freeman Diversion operations. On March 14, 2023, a notification was issued regarding the planned cessation of fish ladder and water diversion operations to prevent debris and sediment resulting from a powerful atmospheric river storm system from entering the facility. On March 17, 2023, a notification was issued regarding necessary maintenance to remove accumulated gravels from below the fish screens. In these instances, Environmental Services staff provided field support in conducting surveys of dewatered areas, and on-site biological monitoring. No fish were observed during either activity.

On March 16, 2023, Environmental Services and Water Resources staff provided a tour of the Freeman Diversion and Santa Felica Dam to NMFS and NMFS-OLE staff.

5. Increased Importation of State Water Project (SWP) Water from Pyramid Lake to Lake Piru

On February 15, 2023, the Department of Water Resources (DWR), on behalf of United, submitted a request to FERC for a temporary variance to Article 52 of the South State Water Project FERC license (P-2426) to allow for an increase in State Water Project (SWP) water imports from a

4.6 Monthly Environmental Services Department Report Information Item

maximum of 3,150 acre-feet (AF) per year to 25,000 AF via Pyramid Dam to Lake Piru during the 2023-2024 water year. On March 13, 2023, FERC posted a public notice of the application for a variance to the license, opening a 30-day comment period. The deadline for comments is April 12, 2023. Pending receipt of comments, the FERC license variance is anticipated to be issued ahead of the SWP water delivery window of November 2023 – February 2024.

6. Quagga Mussel Management

On March 31, 2023, Environmental Services staff submitted the Quagga Mussel Monitoring and Control Plan 2022 Annual Report to CDFW. Staff requested an annual consultation meeting with CDFW, which will be scheduled in April 2023.

During the month of March, Environmental Services staff were able to successfully conduct quagga monitoring activities on Lake Piru and lower Piru Creek. All quagga monitoring activities were completed with the exception of artificial substrate sampling on Lake Piru. Artificial substrate sampling plates on Lake Piru were lost during the January storms. On March 1, 2023, sampling plates were redeployed in Lake Piru. Staff reviewed lower system quagga mussel veliger monitoring protocols to plan for implementation following the spill at Santa Felicia Dam.

7. Miscellaneous

- On March 6, 2023, Marissa Caringella joined the District in the role of Environmental Services Manager.
- During the week of March 6, 2023, interviews were conducted for the full-time Field Technician position. A follow-up round of interviews is being conducted with top-ranked candidates.
- Throughout the month of March, staff participated with Water Resources staff in performing discharge monitoring measurements throughout the mainstem of the Santa Clara River for the Castaic flood flow releases.
- On March 23, 2023, staff attended a National Park Service & Partners Stream Team meeting. The meeting included participants from; National Park Service, United States Geological Survey, US Fish and Wildlife Service (USFWS), California State Parks, UC Los Angeles, Pepperdine University, Santa Barbara Zoo, and Santa Monica Mountains Resource Conservation District. The meeting focused on monitoring methods and results for non-fish species and exotic species removal in the Santa Monica Mountains.
- On March 27, 2023, staff attended an orientation and training session hosted by the USFWS regarding the 2023 least Bell's vireo watershed wide point count survey protocol. During the 2023 bird nesting season, field staff will participate in the USFWS led multi-year effort to evaluate least Bell's vireo occupancy across the Santa Clara River watershed by conducting point-count surveys in multiple locations on the Santa Clara River near the Freeman Diversion and downstream.

4.6 **Monthly Environmental Services Department Report** **Information Item**

- On March 16, 2023, staff attended the FEMA Exploratory Call, and on March 30, 2023, Environmental Services staff attended the FEMA Recovery Scoping Meeting.
- On March 31, 2023, United submitted an Interim Programmatic Report for the National Fish and Wildlife Foundation (NFWF) grant. United partnered with Griffith Wildlife Biology on the Bird Surveys, Habitat Mapping, and Non-native Cowbird Removal in Los Padres National Forest Project, funded by NFWF grant fund. The report detailed field activities from the 2022 field season. This year, 2023, will be the third and final year of data collection and grant reporting.



Staff Report

To: Engineering and Operations Committee Members

Through: Mauricio E. Guardado, Jr., General Manager
Brian Collins, Chief Operations Officer

From: John Carman, Programs Supervisor

Date: March 30, 2023 (April 6, 2023, meeting)

Agenda Item: **4.3 Monthly Operations and Maintenance Department Report**
Information Item

Staff Recommendation:

The Committee will receive this staff report and presentation from the Operations and Maintenance department regarding its activities for the month of March. Items in red are pending update and will be current and available in the April 12, 2023, Board of Directors agenda packet.

1. Water Releases, Diversions

- Lake Piru rose 10.7 feet in March to 64,163 acre-feet (AF) of storage.
- 5268 AF of water was diverted by the Freeman Diversion facility in March.
- 3924 AF of water was diverted to the Saticoy recharge basins in March (metered plus unmetered).
- 2127 AF of surface water was delivered to the El Rio recharge basins in March.
- 207.7 AF of surface water was delivered to the PTP system in March.
- 0 AF of surface water was delivered C customers in March.
- 312 AF of surface water was delivered to Pleasant Valley County Water District in March.

2. Major Facilities Update

- **Santa Felicia Dam**
 - On April 1, 2023, the lake level was 1055 and spilling via the spillway.
 - Habitat and migration water releases from Santa Felicia Dam (SFD) were maintained between 20-200 cubic feet per second (cfs), for the month of March, as per the Water Release and Ramping Rate Implementation Plan for Lower Piru Creek.
 - District staff continues cleanup efforts associated with January 9, 2023, storm activities.
 - Lake Piru reached 100% capacity and began spilling on March 16, 2023, staff are continually monitoring flows and potential safety concerns.
-

Agenda Item: 4.3 Monthly Operations and Maintenance Department Report
Information Item

- **Freeman Diversion, Saticoy, and El Rio Recharge Facilities**

- Flows at the Freeman Diversion averaged 95 cfs for the month of March, with 373 cfs of surface water being diverted on April 1, 2023.
- Local storm activities produced 8.1 inches of rain (El Rio rain gauge) in March. District staff operated the Freeman Diversion throughout the month including many nights of labor intensive operations, harvesting runoff, recharging basins, and delivering surface water to PTP and PV pipelines.
- Tom's Mobile Welding repaired and replaced Freeman fish wiper gearboxes.
- March 29-31, 2023, staff mobilized a crane, skid-steer, and vacuum truck removing excessive sediment within Freeman facilities.
- Static water levels (distance of water from the well pad to the water table):

	2023	2022	2021
Saticoy	23'	101'	119'
El Rio	99.5'	132.2'	117.7'
PTP	82'-105'	113'- 152'	100'-132'

- **Oxnard-Hueneme (OH) Delivery System**

- March 24, 2023, staff removed and installed a new exhaust fan for the OH Booster Plant Disinfection facility.
- March 30, 2023, Contractor Bloise Construction removed cement lining and installed replacement coating for OH Booster Plant Gas Engine #4 leaking manifold.
- The State Water Resource Control Board Annual Consumer Confidence report was completed.

- **Pleasant Valley County Water District (PVCWD)**

- PVCWD received United's surface water supply, surface supply from Conejo Creek Project and received some highly treated recycled water from the City of Oxnard's Advanced Water Purification Facility (AWPF).
- Staff delivered the Randall spray rig to PV Reservoir and applied herbicide.

- **Pumping Trough Pipeline (PTP)**

- During the month of March, the PTP system demand was met with both PTP wells and surface water.

- **Instrumentation**

- Staff upgraded the Dos Diego well programable logic controller, radio/antenna, and manifold flush valve.
- Staff programmed and configured the Freeman Diversion upgraded Panel View.
- Instrumentation staff replaced two recessed lighting fixtures at Lombard headquarters.

Agenda Item: 4.3 Monthly Operations and Maintenance Department Report
Information Item

- **Lake Piru Water System**
 - All chlorine residuals and turbidity readings for the drinking water system were within proper ranges for the month of March.
 - The Piru Water Treatment Filtration plant is in service, lake turbidity levels remain at acceptable range for potable water production despite substantial rainfall runoff, and lake debris removal efforts.
 - Monthly pH, turbidity and coliform samples were obtained for Lake Piru, as part of the Long Term 2 Enhanced Surface Water Treatment Rule compliance monitoring.
- 3. Operations and Maintenance Projects Update
 - The Iron and Manganese grant funded project is progressing well at El Rio Booster Plant, projected completion date June 30, 2023.
- 4. Other Operations and Maintenance Activities
 - The Santa Felicia Dam Emergency Action Plan sirens located in Piru were exercised on March 3, 2023.
 - Facilitated tours at Santa Felicia Dam, Freeman Diversion, and Iron and Manganese facilities.
 - OH Well #2 and Saticoy Well #2 removed and delivered to Demaria Electric for motor reconditioning.
 - The monthly inspection of Santa Felicia Dam was performed.
 - Monthly bacteria samples were obtained for the PTP system.
 - Monthly meter readings were obtained for the OH, PTP, and PV Pipelines.
 - Completed and electronically transmitted the monthly OH Pipeline report to the State Water Resources Control Board Division of Drinking Water.
 - Static water levels were obtained for all El Rio, Saticoy, and PTP wells.
 - Weed abatement continued throughout the District.
- 5. Safety and Training
 - During the month of March, approximately 3100 hours of O & M department work were performed with no reportable accidents.
 - The online Target Safety assignment for March was “Water Industry Back Injury Prevention.” One Safety Meeting was conducted at the District’s Headquarters, covering Valley Fever. Three Safety Videos were shown, entitled *Study shows Valley Fever could spike in California* by ABC 30 Action News, *What is Valley Fever? Cases Increase on the Central Coast* by KSBW Action News 8, and *‘The Last of Us’ Deadly Fungal Infection ‘Valley Fever’ Kills 1 in 100* by The Daily Mail. The training provided a refresher on the potential exposure to Valley Fever along with preventative and mitigation measures as the County of Ventura was identified as an endemic region by the State of California.
 - *Back Injury Prevention* was also briefed to staff at the safety meeting. Tailgate safety meetings were conducted at all individual O&M field locations and the topics included refresher training on equipment used at the various O&M locations.

Attachment: Operations Log for March
