

**AGENDA**  
**ENGINEERING and OPERATIONS COMMITTEE**  
**Thursday, July 7, 2022, at 9:00 a.m.**  
**UNITED WATER CONSERVATION DISTRICT**  
**Boardroom, 1701 N. Lombard Street, Oxnard, CA 93030**

**Call to Order – Open Session**  
**Committee Members roll call**

**1. Public Comment (Proposed Time: 5 minutes)**

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

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

**Motion**

The Committee will review and consider approving the Minutes from the June 2, 2022 Engineering and Operations Committee meeting.

**3. July 13, 2022 Board Meeting Motion Agenda Items**

The Committee will review and discuss the following agenda items to be considered for approval at the July 13, 2022 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 Resolution 2022-34 Adopting Volume 1 and United Water Conservation District's Annex included in Volume 2 of the 2022 Ventura County Multi-Jurisdictional Hazard Mitigation Plan (Engineering Department, Michel Kadah) (Proposed Time: 10 minutes)**

The committee will review and consider recommending approval of Resolution 2022-34, accepting all of Volume 1 and the United Water Conservation District (UWCD) annex included in Volume 2 of the 2022 Ventura County Multi-Jurisdictional Hazard Mitigation Plan, to the full Board.

**3.2 Resolution 2022-35 Adopting the Revised Owner Dam Safety Program dated July 2022**

(Engineering Department, Adrian Quiroz) (Proposed Time: 10 minutes)

The committee will review and consider recommending approval of Resolution 2022-35, approving the revised Santa Felicia Dam Owner Dam Program, dated July 2022, to the full Board.

**Project Highlights**

**4.1 Engineering Department Monthly Update (Engineering Department, Maryam Bral) (Proposed Time: 10 minutes)**

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



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

**FUTURE AGENDA ITEMS**

**ADJOURNMENT**

**Directors:**

Lynn E. Maulhardt  
Daniel C. Naumann

**Staff:**

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

*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) July 1, 2022

(time) 4:45 p.m.

(attest) *Destiny Rubio*

At: UWCD Headquarters, 1701 N. Lombard Street, Oxnard CA 93030

Posted: (date) July 1, 2022

(time) 5:00 p.m.

(attest) *Destiny Rubio*

At: [www.unitedwater.org](http://www.unitedwater.org)



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

General Manager  
Mauricio E. Guardado, Jr.

Legal Counsel  
David D. Boyer

**MINUTES**  
**ENGINEERING AND OPERATIONS**  
**COMMITTEE MEETING**  
**Thursday, June 2, 2022, 9:00 A.M.**  
**Board Room, UWCD Headquarters**  
**1701 N. Lombard Street, Oxnard CA 93030**

**COMMITTEE MEMBERS IN ATTENDANCE**

Edwin T. McFadden III, chair  
Daniel C. Naumann, director

**COMMITTEE MEMBERS ABSENT**

Lynn E. Maulhardt, director

**STAFF IN ATTENDANCE**

Dr. Maryam Bral, chief engineer  
Brian Collins, chief operations officer  
John Carman, operations and maintenance program supervisor  
Anthony Emmert, assistant general manager  
Michel Kadah, engineer  
Randall McInvale, environmental scientist regulatory affairs  
Craig Morgan, engineering manager  
Josh Perez, chief human resources officer  
Zachary Plummer, technology systems manager  
Edward Reese, technology systems specialist  
Ambry Tibay, senior accountant  
Brian Zahn, chief financial officer

**PUBLIC IN ATTENDANCE (see attached)**

Matt Maechlar, VCPWA  
Omar Castro, City of Oxnard

**Call to Order – Open Session**

Chair McFadden called the Committee to order at 9:00a.m. Chair McFadden and Director Naumann were present, Director Maulhardt was absent.

**1. Public Comments**

**Information Item**

Chair McFadden asked if there were any comments or questions from the public for the Committee. None were offered.

**2. Approval of Minutes**

**Motion**

Motion to approve the Minutes from the April 7, 2022, Engineering and Operations Committee meeting, Director Naumann; Second, Chair McFadden. Voice vote: two ayes (McFadden, Naumann). Motion carries unanimously 2/0/1.

### **3. June 8, 2022 Board Meeting Agenda Motion Items**

#### **3.1 Resolution 2022-28 A Resolution of the United Water Conservation District Board of Directors supporting the submission of the 2022 Groundwater Grant Program Implementation Round 3 application to the State Water Resources Control Board**

Senior Engineer Robert Richardson addressed the Committee and shared a slide regarding this motion item (see attached). He asked the Committee to recommend approval of the Resolution 2022-26, supporting the submission of a 2022 Groundwater Grant Program (GWGP) Implementation Round 3 grant application to the State Water Resources Control Board, to the full Board.

Director Naumann asked if the Navy base is up to date with this application. Mr. Richardson stated that the District received a letter of support from them and will be receiving another one for the full application. Director Naumann then asked if staff has reached out to other agencies. Mr. Richardson stated that the District also received a letter of support from the Fox Canyon Groundwater Management Agency (FCGMA) and staff is planning to ask for letters from the Farm Bureau and the Division of Drinking Water (DDW). Chair McFadden recommended that staff reach out to CoLAB for a letter of support as well. The committee members agreed to recommend approval of the Resolution to the full Board.

#### **3.2 Resolution 2022-27 Approving Adoption of the California Environmental Quality Act Notice of Exemption and the Approval of the Information Collection for the Proposed Extraction Barrier Brackish Water Project**

Environmental Scientist Regulatory Affairs Randall McInvale addressed the Committee and shared a slide regarding this motion item (see attached). He asked the Committee to recommend approval of Resolution 2022-27, adopting the California Environmental Quality Act (CEQA) Notice of Exemption (NOE) for the Information Collection for the Proposed Extraction Barrier and Brackish Water Project, approving the project, and directing staff to file the NOE in accordance with CEQA, to the full Board.

He stated that the NOE is for data collection and is intended to inform the design scope of the proposed project. The committee members agreed to recommend approval of the Resolution to the full Board.

#### **3.3 Authorize the Supplemental Appropriation of Funds to Purchase a Replacement Pump for the Pumping Trough Pipeline Reservoir**

Chief Operations Officer Brian Collins addressed the Committee and shared a slide regarding this motion item (see attached). He asked the Committee to recommend approval of the motion item, authorizing a supplemental appropriation in the amount of \$189,000 to support the unbudgeted purchase of a replacement pump and electrical motor for the Pumping Trough Pipeline Reservoir (PTP), to the full Board.



Mr. Collins stated the District performed efficiency testing on the booster pump for the PTP reservoir and there were concerns about vibrations noted. To minimize repair related downtime impacts to customers, staff recommends a swap and installation, rather than a remove and repair approach which would likely lead to 2-3 weeks for analysis and repair and increased downtime customer impacts.

Chair McFadden inquired about pump availability. Mr. Collins stated that he does not know with certainty, but he was provided an estimate of 4-6 weeks. He added, staff is doing everything to expedite the order and to minimize the impacts. Chair McFadden then asked when the vibration was noticed. Mr. Collins stated that it was initially a small band. He then asked how big the pump is to which Mr. Collins responded it was 9000 gpm and has a 250-horsepower motor.

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

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

##### **4.1 Engineering Department Update (see attached slides)**

Chief Engineer Dr. Maryam Bral made a presentation on the Engineering department activities, including updates on recent grant funding activities. She stated that staff is awaiting results from FEMA for the Hazard Mitigation Grant Program (HMGP). Staff also submitted a loan application for the Water Infrastructure Finance and Innovation Act (WIFIA).

She then provided an update on the El Rio Iron and Manganese Treatment Plant and the PTP Recycled Water Connection Projects. Director Naumann asked if staff is working with Pleasant Valley. Dr. Bral stated that staff has a coordination meeting on June 7 to discuss the hydraulic modeling. Dr. Bral then provided updates on latest outreach efforts including presentation to the Ventura County Board of Supervisors (BOS) and the Channel Islands Beach Community Services District.

She stated a day before the BOS meeting, staff was requested by the County to submit a new presentation discussing the current drought conditions instead of water supply projects. Staff followed through and provided the requested presentation to the County within a limited time available. At the BOS meeting, staff's presentation was interrupted by FCGMA staff. Mr. Guardado, Jr. stated that this is a recurring theme, despite that staff did a great job in adapting. He added, it is good for people to know what the District proposes as short-term solutions. Calleguas and Casitas are still in the evaluation phase, even those projects in design would take several years. Dr. Bral stated that the District has a few projects that could be implemented in the next three years such as the PTP Recycled water project. Mr. Guardado stated that having the ability to purchase and import SWP when available is another short-term solution. Director Naumann asked that staff keep the committee apprised of anything the committee members can do to assist.

**4.2 Environmental Services Department Update** (see attached slides)

Mr. McInvale made a presentation on the Environmental Services department activities, including updates on the recent fish capture and relocation. He stated that the National Marine Fisheries Service (NMFS) came out to the Freeman Diversion on May 19 to conduct capture and relocation efforts. He stated that Operations and Maintenance provided key assistance for water levels and that it was a very collaborative effort. He also provided updates on efforts for State Water Project deliveries, an extension to the Freeman Sediment Management Lake and Streambed Alteration Agreement, and recent staff training opportunities.

**4.3 Operations and Maintenance Department Update** (see attached slides)

Mr. Collins provided updates on the Operations and Maintenance department activities, including weed abatement, cleaning of microscreens, and an annual maintenance burn. He also provided updates on the El Rio facility nitrate levels and the PTP Metering Improvement Project.

Director Naumann asked about the status of the PTP Metering Improvement Project. Mr. Richardson stated that 35 of 61 turnouts have been installed and staff submitted a request for a two-year extension.

Director Naumann then asked about the timing for the recent grant funding applications. Dr. Bral stated that staff does not have a great understanding of the HMGP program, but the Prop 1 GWGP may be awarded in the Fall. Mr. Guardado stated that staff will demonstrate what has been procured and what is pending.

Dr. Bral then thanked Chair McFadden for his participation in the Engineering and Operations committee.

**5. Future Agenda Topics**

None were offered

**ADJOURNMENT 10:04a.m.**

Chair McFadden adjourned the meeting at 10:04a.m.

I certify that the above is a true and correct copy of the minutes of the Engineering and Operations Committee Meeting of June 2, 2022.

**ATTEST:** \_\_\_\_\_

Daniel C. Naumann, committee member



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

General Manager  
Mauricio E. Guardado, Jr.

Legal Counsel  
David D. Boyer

## ATTENDANCE LIST

**MEETING DATE: Thursday, June 2, 2022**

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**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

Matt MEEHRE  
Omar OASTIN

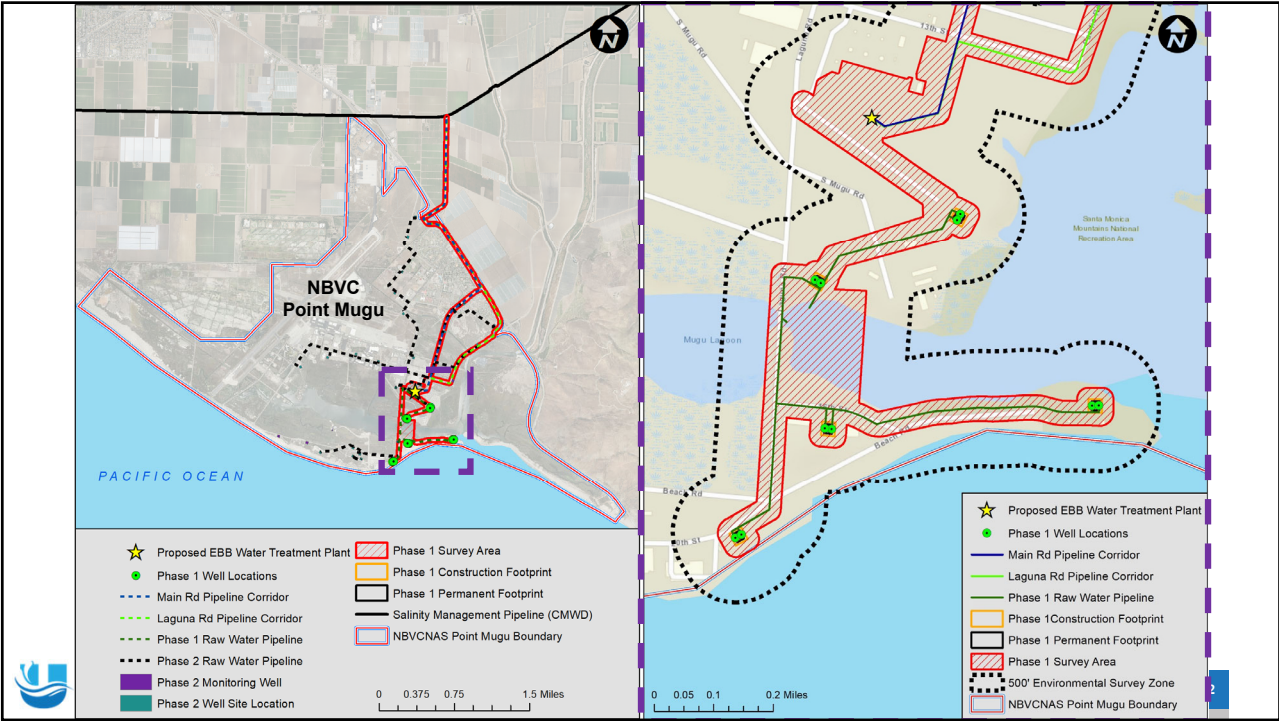
VCPWA  
Oxnard

Resolution 2022-28

3.1 A Resolution of the United Water Conservation District Board of Directors supporting the submission of the 2022 Groundwater Grant Program Implementation Round 3 application to the State Water Resources Control Board




1



# Resolution 2022-27

## 3.2 Recommendation for Board consideration in adopting the California Environmental Quality Act (CEQA) Notice of Exemption (NOE) for the Extraction Barrier and Brackish Water Project Phase 1A



1


# Project Overview


### Objective

- Obtain information and collect data to inform the design and scope of future project phases
- Land surveying, geotechnical, environmental, engineering, and hydrogeology surveys
- Installation of up to six monitoring wells

### CEQA Findings

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





2



Request to Committee:

Consider recommending that the Board adopt a Resolution to approve the CEQA Findings (NOE) for the Extraction Barrier and Brackish Water Project Phase 1A

Questions



## Motion Item 3.3

**The committee will review and consider recommending approval of the motion item, authorizing a supplemental appropriation in the amount of \$189,000 to support the unbudgeted purchase of a replacement pump and electrical motor for the Pumping Trough Pipeline Reservoir, to the full Board.**






# ENGINEERING DEPARTMENT UPDATE


June 2, 2022




## Santa Felicia Dam Safety Improvement Project Grant Application Activities




FEMA



Cal OES  
GOVERNOR'S OFFICE  
OF EMERGENCY SERVICES



WIFIA  
PROGRAM




EPA

### Hazard Mitigation Grant Program (\$51M) and Prepare CA Match Grant Program (\$17M)

- Sub-applications were submitted on April 7
- Revised sub-applications were submitted on May 6
- Additional information was submitted on May 18

### WIFIA Loan Application (\$64M)

- Revised application including the release channel component was submitted to EPA on May 2
- Application fee of \$100,000 was paid along the application.
- Staff provided a letter to EPA in favor of WIFIA Program Waiver for Build America Buy America Act (BABAA) on May 18



2




# 2022 Potential Failure Mode Analysis Study for Santa Felicia Dam

**Part 12D Independent Consultant Coordination**

- Agreement executed with Gannett Fleming on April 15
- 90-day pre-PFMA review meeting held on May 12
- Annual FERC Inspection and PFMA Review Session scheduled for August 23-24

Twelfth Part 12D Independent Consultant's Safety Inspection Report for Santa Felicia Dam  
United Water Conservation District



Free Proposal | March 2022

 GANNETT FLEMING



3

# Iron and Manganese Treatment Plant Project



May 4



May 10



4

# Iron and Manganese Treatment Plant Project



May 4

5

5



# Iron and Manganese Treatment Plant Project



May 10

6

6





# Iron and Manganese Treatment Plant Project



7

7

# Iron and Manganese Treatment Plant Project



8

8

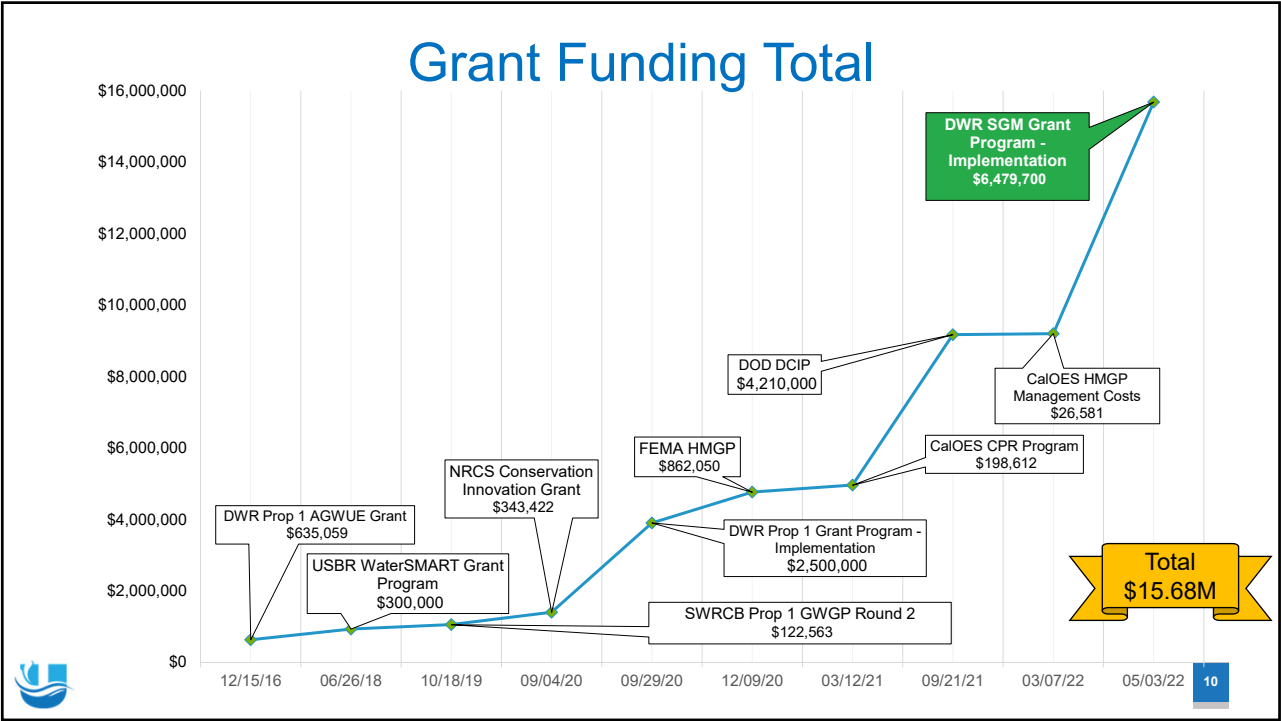
## PTP Recycled Water Connection – Laguna Road





9

9



10

# Outreach Efforts

❑ Presentation to the Ventura County Board of Supervisors on May 10



❑ Presentation to the Channel Islands Beach Community Services District on May 10



# QUESTIONS







# ENVIRONMENTAL SERVICES UPDATE


June 2, 2022



1

## Department Summary Updates

- Freeman Diversion – Fish Capture and Rescue Effort
- Coordination to Increase Importation of SWP Deliveries
- Freeman Sediment Mgmt LSAA Extension
- Staff Training Opportunities



2





# OPERATIONS AND MAINTENANCE DEPARTMENT UPDATE

June 2, 2022



## Santa Felicia Dam

Aspen Weed Abatement – East Road





2

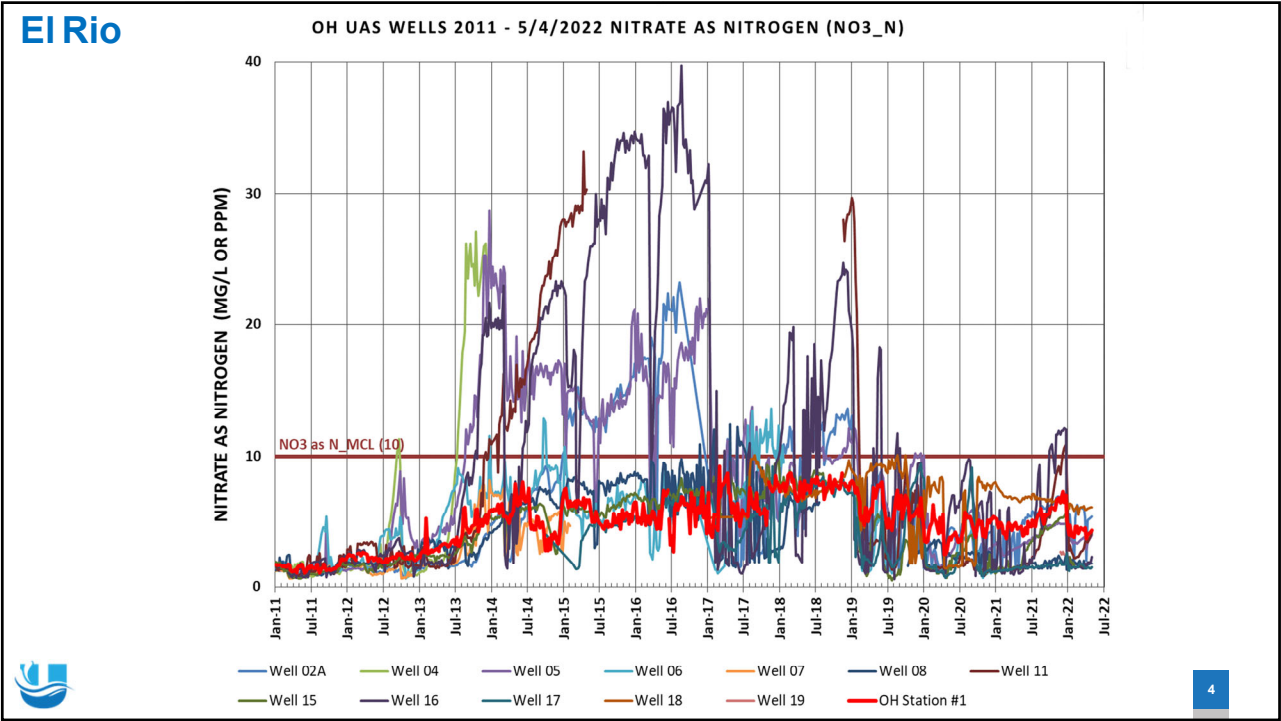
Freeman Diversion





3

3



4



## El Rio

### VFD Check Valves - Chlorine Building







5

5

## Electrical & Instrumentation

### PLC UPGRADES - KIOSK - PTP METER





6

6

# Questions?





### **Staff Report**

**To:** Engineering and Operations Committee

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

**From:** Maryam Bral, Chief Engineer

**Date:** June 29, 2022 (July 7, 2022, Committee Meeting)

**Agenda Item:** 3.1 **Resolution 2022-34** Adopting Volume 1 and United Water Conservation District's Annex included in Volume 2 of the 2022 Ventura County Multi-Jurisdictional Hazard Mitigation Plan **Motion**

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#### **Staff Recommendation:**

The Engineering and Operations Committee will consider recommending approval of Resolution 2022-34, accepting all of Volume 1 and the United Water Conservation District (UWCD) annex included in Volume 2 of the 2022 Ventura County Multi-Jurisdictional Hazard Mitigation Plan, to the full Board.

#### **Background:**

In May 2021, a coalition of Ventura County planning partners (Coalition) embarked on a planning process to prepare for and lessen the impacts of specified natural hazards in the Ventura County in response to mandates included in the Federal Disaster Mitigation Act of 2000 (Public Law 106-390). The Coalition consisting of 25 partners listed below was formed to pool resources and create a uniform hazard mitigation strategy and prepare a multi-agency multi-hazard mitigation plan (HMP) for the Federal Emergency Management Agency (FEMA) and the California Governor's Office of Emergency Services (CalOES) review and approval.

- Ventura County (Unincorporated Areas)
  - City of Camarillo
  - City of Fillmore
  - City of Moorpark
  - City of Ojai
  - City of Oxnard
  - City of Port Hueneme
  - City of Santa Paula
  - City of Simi Valley
  - City of Thousand Oaks
  - City of Ventura
  - California State University, Channel Islands
  - Calleguas Municipal Water District
  - Casitas Municipal Water District
  - Conejo Recreation and Park District
  - Ojai Valley Sanitary District
  - Pleasant Valley Recreation and Park District
  - Saticoy Sanitary District
  - Triunfo Water and Sanitation District
  - United Water Conservation District
  - Ventura County Fire Protection District
  - Ventura County Office of Education
  - Ventura County Public Works Agency-Watershed Protection
  - Ventura Regional Sanitation District
  - Channel Islands Beach Community Services District
-

**Agenda Item 3.1      Resolution 2022-34 Adopting Volume 1 and United Water Conservation District's Annex included in Volume 2 of the 2022 Ventura County Multi-Jurisdictional Hazard Mitigation Plan Motion**

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**Discussion:**

The County of Ventura, in partnership with 25 member agencies has jointly developed a 5-year update to the 2015 Ventura County Multi-Hazard Mitigation Plan. The updated plan (HMP) is required under the Federal Disaster Mitigation Act of 2000 to ensure continued eligibility for future grant funding opportunities.

Ventura County Office of Emergency Services secured funding for developing the HMP and was the lead coordinating agency for this multi-jurisdictional effort. The HMP presents a unified framework to ensure a comprehensive and coordinated plan covering all participating partners within the Ventura County Planning Area. UWCD, as a Planning Partner, has been involved with the planning and the preparation process of the HMP and actively working on the preparation of the District annex included in the Volume 2 of the Plan Since June 2021.

The plan update process was overseen by a 17-member, stakeholder Steering Committee composed of representative stakeholders from within the planning area, established to leverage the planning process. In addition, the public was asked to contribute by sharing local knowledge of their individual area's vulnerability to natural hazards based on past occurrences. Public involvement was solicited via a multi-media campaign that included public meetings, web-based information, questionnaires, and progress updates via the news media. The HMP is considered a living document, such that as awareness of additional hazards is developed and new strategies and projects are conceived to offset or prevent loss due to natural hazards, the HMP will be evaluated and revised on an annual basis during the 5-year plan timeframe. The HMP addresses the following natural hazards of significant importance within the Ventura County.

- Dam Failure Inundation
- Drought
- Earthquake
- Flooding (includes Levee Failures)
- Landslide and Mass Movements
- Sea Level Rise/Coastal Erosion (SLR)
- Severe Storms
- Severe Weather Events (Heat/Freeze Events)
- Tsunami, and
- Wildfire

Currently, FEMA is in the process of issuing Approval Pending Adoption for the HMP. In the meantime, the HMP must be adopted by all of the jurisdictional partners of the Coalition in order to collectively and individually become eligible to apply for a suite of grant programs under FEMA's Hazard Mitigation Assistance (HMA) program.

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**Agenda Item 3.1      Resolution 2022-34 Adopting Volume 1 and United Water Conservation District's Annex included in Volume 2 of the 2022 Ventura County Multi-Jurisdictional Hazard Mitigation Plan Motion**

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Staff recommends the Board consider adopting the Resolution 2022-34, accepting all of Volume 1 and the United Water Conservation District annex included in Volume 2 of the 2022 Ventura County Multi-Jurisdictional Hazard Mitigation Plan and supporting continued participation of UWCD in this multi-jurisdictional effort that provides eligibility for HMA programs.

**Fiscal Impact:**

There is no fiscal impact associated with this effort.

**Attachments:**

Attachment A – Resolution 2022-34

Attachment B – 2022 Ventura County Multi-Jurisdictional Hazard Mitigation Plan, [Volume 1](#) and [Volume 2](#) including United Water Conservation District Annex (Section 21)

## **RESOLUTION 2022-34**

### **A RESOLUTION OF THE UNITED WATER CONSERVATION DISTRICT AUTHORIZING THE ADOPTION OF THE 2022 VENTURA COUNTY MULTI- JURISDICTIONAL HAZARD MITIGATION PLAN**

**WHEREAS**, all of Ventura County has exposure to natural hazards that increase the risk to life, property, environment, and the County's economy; and

**WHEREAS**, pro-active mitigation of known hazards before a disaster event can reduce or eliminate long-term risk to life and property; and

**WHEREAS**, The Disaster Mitigation Act of 2000 (Public Law 106-390) established new requirements for pre- and post-disaster hazard mitigation programs; and

**WHEREAS**, a coalition of Ventura County stakeholders with like planning objectives has been formed to pool resources and create consistent mitigation strategies to be implemented within each partners identified capabilities, within the Ventura County Planning Area. United Water Conservation District prepared and submitted an annex and participated in this coalition; and

**WHEREAS**, the coalition has completed a planning process that engages the public, assesses the risk and vulnerability to the impacts of natural hazards, develops a mitigation strategy consistent with a set of uniform goals and objectives, and creates a plan for implementing, evaluating, and revising this strategy.

**NOW, THEREFORE, BE IT RESOLVED AND ORDERED**, that United Water Conservation District is hereby authorized to:

- 1) Adopts in its entirety, Volume I, the United Water Conservation District annex, and appendices of Volume II of the Ventura County Local Multi-Jurisdictional Hazard Mitigation Plan.
- 2) Will use the adopted and approved portions of the Hazard Mitigation Plan to guide pre- and post- disaster mitigation of the hazards identified.
- 3) Will coordinate the strategies identified in the Hazard Mitigation Plan with other planning programs and mechanisms under its jurisdictional authority.
- 4) Will continue its support of the on-going countywide mitigation efforts and continue to participate in the Planning Partnership as described by the Hazard Mitigation Plan.
- 5) Will help to promote and support the mitigation successes of all Planning Partners.

**BE IT FURTHER RESOLVED AND ORDERED**, that any and all actions, whether previously or subsequently taken by United Water Conservation District, which are consistent with

the intent and purposes of the foregoing resolution, shall be, and hereby are, in all respects, ratified, approved and confirmed.

**ADOPTED AND PASSED** this 13<sup>th</sup> day of JULY 2022.

ATTEST: \_\_\_\_\_  
Bruce E. Dandy, Board President

ATTEST: \_\_\_\_\_  
Lynn E. Maulhardt, Board Secretary/Treasurer

#### **CERTIFICATION**

**I HEREBY CERTIFY THAT THE FOREGOING IS A FULL, TRUE, AND CORRECT COPY OF A RESOLUTION DULY AND REGULARLY ADOPTED BY THE UNITED WATER CONSERVATION DISTRICT'S GOVERNING BOARD AT THE MEETING THEREOF HELD ON JULY 13<sup>TH</sup>, 2022.**

AYES: \_\_\_\_\_

NOES: \_\_\_\_\_

ABSTAINED: \_\_\_\_\_

ABSENT: \_\_\_\_\_

ATTEST: \_\_\_\_\_  
Bruce E. Dandy, Board President

ATTEST: \_\_\_\_\_  
Lynn E. Maulhardt, Board Secretary/Treasurer



### **Staff Report**

**To:** Engineering and Operations Committee Meeting

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

**From:** Maryam Bral, Chief Engineer

**Date:** June 29, 2022 (July 7, 2022, Committee Meeting)

**Agenda Item:** 3.2 **Resolution 2022-35** Adopting the Revised Owner Dam Safety Program dated July 2022  
**Motion**

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#### **Staff Recommendation:**

The Engineering and Operations Committee will consider recommending approval of Resolution 2022-35, approving the revised Santa Felicia Dam Owner Dam Program, dated July 2022, to the full Board.

#### **Discussion:**

The Board of Directors adopted Resolution 2012-15 on October 10, 2012 adopting the Santa Felicia Owner Dam Safety Program (ODSP) as a policy of the District to demonstrate its continued commitment to dam safety. The ODSP was prepared in accordance with the Federal Energy Regulatory Commission (FERC) Engineering Guidelines and formalized existing practices into a District policy. The FERC considers the ODSP a “living document” that must be continuously updated.

Training, succession planning, program assessments, corporate accountability, and staffing are some of the key elements of the ODSP. The ODSP has been modified to reflect the recent organizational changes in personnel. A strikeout version of the revised ODSP has been provided as Attachment B.

#### **Fiscal Impact:**

No additional fiscal impacts at this time. The ODSP is integral part of the District’s overall dam safety program.

#### **Attachments:**

Attachment A – Resolution 2022-35 - A resolution of the Board of Directors of the United Water Conservation District adopting the revised Owner’s Dam Safety Program  
Attachment B – Santa Felicia Dam, Owner Dam Safety Program (July 2022) Rev. 8.0 (*Critical/Confidential document, committee members will be provided hard copies*)

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**RESOLUTION 2022-35**

**A RESOLUTION OF THE BOARD OF DIRECTORS  
OF THE UNITED WATER CONSERVATION DISTRICT  
ADOPTING THE REVISED OWNER’S DAM SAFETY PROGRAM**

**WHEREAS**, the United Water Conservation District (“District”) owns and operates Santa Felicia Dam; and

**WHEREAS**, on October 10, 2012, the Board of Directors of United Water Conservation District adopted Resolution 2012-15, a formal declaration of the District’s commitment to Dam Safety as policy; and

**WHEREAS**, the above mentioned Resolution 2012-15 included the adoption of the Santa Felicia Dam Owner Dam Safety Program, a living document that must be continuously updated; and

**WHEREAS**, training, succession planning, program assessments, corporate accountability, and staff are some of the key elements of the Santa Felicia Owner Dam Safety Program; and

**WHEREAS**, recent organizational changes in District personnel warrant modification to the Santa Felicia Owner Dam Safety Program.

**NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF THE UNITED WATER CONSERVATION DISTRICT AS FOLLOWS:**

1. The District Board of Directors hereby adopts the revised Santa Felicia Dam Owner Dam Safety Program, dated July 13, 2022, as a policy of the District.
2. The foregoing recitals are true and correct and incorporated herein as if fully set forth.

**PASSED AND ADOPTED THIS 13th DAY OF JULY , 2022**

ATTEST: \_\_\_\_\_  
Board President Bruce E. Dandy

ATTEST: \_\_\_\_\_  
Board Secretary Lynn E. Maulhardt



### **Staff Report**

**To:** Engineering and Operations Committee Members

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

**From:** Maryam A. Bral, Chief Engineer  
Craig A. Morgan, Engineering Manager  
Robert J. Richardson, Senior Engineer  
Michel Kadah, Engineer  
Adrian Quiroz, Associate Engineer  
Erik Zvirbulis, GIS Analyst

**Date:** July 6, 2022 (July 7, 2022, meeting)

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

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#### **Staff Recommendation:**

The Engineering and Operations Committee members will receive this summary report from the Engineering Department regarding its activities for the month of June 2022.

#### **Discussion:**

##### 1. Santa Felicia Dam Safety Improvement Projects

- Spillway Improvement Project
    - The 30% design analyses continued during the month of June. Staff received two draft Technical Memorandums (TM) from GEI Consultants (GEI). Staff completed their review of the draft Hydraulic Analysis TM and provided comments to GEI. Staff is currently in the process of reviewing the second TM, the Dam Crest Raise Analysis.
    - Staff attended bi-weekly progress meetings and discussed the design progress with GEI Consultants (GEI).
    - On June 7, Staff prepared and submitted the Board of Consultants (BOC) meeting No. 6 invitations to FERC, DSOD, BOC, and GEI.
    - On June 22, Staff prepared and submitted hard copies of the Geotechnical Data Report (GDR) and the Geotechnical Investigation Report (GIR) to DSOD in order to close the 2020 drilling program application.
  - Outlet Works Improvement Project
    - The above updates reported for the Spillway Improvement Project are also applicable to the Outlet Works Improvement Project.
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#### 4.1 Monthly Engineering Department Report Information Item

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- Staff received two draft TMs, the Fish Screen Velocity TM and Transient Surge Analysis TM. Staff completed their review of the Fish Screen TM and are currently in the process of reviewing the Transient Surge Analysis.
- On June 6, minor comments were received from the California Water Resources Division of Safety of Dams (DSOD) on the 30% design of the Outlet Works Improvement Project. No modification is expected for the current outlet works design based on these comments.
- On June 10, Staff reviewed and discussed with Catalyst/Cardno and GEI the revised design of the new outlet channel to include a baffle piers system as an energy dissipation method to reduce the velocity during conservation releases. The design team determined that the modified design will not impact the design of the new natural release channel in design by Catalyst/Cardno. Staff requested that GEI proceed with the baffle piers design and prepare the associate TM.
- FERC License Amendment Application, NEPA Documentation and Section 7 Consultation
  - On June 14, Staff received draft Biological Assessment (BA) from Catalyst. Staff is planning to submit the draft Biological Assessment (BA) report to FERC by the end of July to minimize potential delays in completing the permitting process.
- Loan and Grant Applications
  - 2021 FEMA HMGP
    - No update to report. Waiting on CalOES to announce the selected sub-applications to be submitted to FEMA for review.

##### PrepareCA Match – FEMA HMGP

- The above updates are also applicable to the PrepareCA Match grant.

##### WIFIA Loan

- On June 22, Engineering and Finance staff met with the WIFIA program team. Chief Engineer and Chief Financial Officer presented the project purpose and benefits, project progress and timing, and District finance credits, respectively. Both presentations and a memo including the responses to questions and information requested by the WIFIA loan underwriter were transmitted to the team via email.

##### 2022 High Hazard Potential Dams (HHPD) Grant

- On June 14, Staff met with DSOD to discuss the 2020 HHPD grant requirements. Based on the limited available fund of \$11.6M for planning and design projects in California, the estimated grant award to each project would generally range between \$50,000 to \$200,000 and the grant Period of Performance (POP) may be from September 2022 to September 2025. Staff prepared and submitted an initial proposal, including two spillway design related tasks to be

#### 4.1 **Monthly Engineering Department Report** **Information Item**

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considered by DSOD for the 2022 HHPD grant application. DSOD will submit the grant application to FEMA by July 15, 2022.

- Santa Felicia Dam Safety
  - The annual DSOD inspection of the Santa Felicia Dam was conducted on June 23, 2022. In attendance were DSOD Inspector, Cameron Lancaster, as well as Engineering and O&M Staff. The group inspected the dam abutments, dam crest, spillway, spillway discharge channel and outlet works tunnel. The inspector said that the dam was in satisfactory condition and had no action items for the District.
  - The annual SFD EAP Call-Down Drill was conducted on June 28, 2022. The drill involved exercising the Imminent Failure Notification Chart to verify contact information for Emergency Management Agencies that would respond to a hypothetical dam emergency. An internal training session for staff was conducted on June 27, 2022.

#### 2. Santa Felicia Dam Sediment Management Project

- No update to report.

#### 3. Pothole Trailhead Parking Area

- No update to report.

#### 4. Condor Point Improvement Project

- A Conditional Use Permit Adjustment application was submitted to Ventura County Planning (Planning) on April 20, 2022. The permit adjustment is required to obtain a zoning clearance. Staff provided the County Staff a tour of the project site on June 03, 2022. The permit adjustment letter was received on June 20, 2022.
- Staff conducted a job walk with the Gordian Group on June 27, 2022, of the Condor Point and Juan Fernandez sites. Based on the job walk, as well as the plans and specifications, the Gordian Group is expected to provide a construction bid for the Condor Point Improvement Project and complete construction by August 6, 2022.

#### 5. Freeman Diversion Expansion

- Staff, USBR, University of Iowa, Stantec and NHC participate in rotating weekly calls with NMFS and CDFW to provide updates on physical modeling, CFD modeling and design alternations.
- July 11-13, staff along with representatives from Stantec and NMFS plan to visit the University of Iowa to witness the 1:12 and 1:24 scale physical models of the Vertical Slot.

#### 6. Iron and Manganese Treatment Facility

- Meetings:
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#### **4.1 Monthly Engineering Department Report Information Item**

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- 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 250 out of a total of 298 submittal packages anticipated for the project. HDR and design engineer (KJ) have provided responses on approximately 237 submittal packages including a requirement to comply with the Buy American Act.
- GSE Construction has submitted approximately 80 Requests for Information (RFI) to date. HDR, KJ and the District have been providing responses.
- District staff performed earthwork using spoils generated from various trench excavations and widened northwest corner of Pond 9.
- GSE Construction completed construction of the following:
  - Washwater Recovery Tank reinforced concrete foundation.
  - 20-inch Ductile Iron Overflow pipeline including the 20-inch Filter-to-Waste and Pond 8 surface water connections; and performed pressure testing for acceptance; and
  - Continued construction of the 4-inch HDPE solids pipeline.
- GSE Construction installed the following:
  - Raw Water Supply, Raw Water Bypass, and Waste Solids Pump Station vaults.
  - 20-inch overflow vault at the Washwater Recovery Tank.
- Taft Electric completed construction connecting the existing power-supply manhole to the new building containing the laboratory, electrical and air-scour equipment rooms.
- The tentative date for construction completion and implementation is January 3, 2023. A total of five (5) inclement weather days have been counted.

#### **7. OH System Backup Generator at the El Rio Booster Plant**

- On June 27, Staff prepared and submitted quarterly report No. 7 to CalOES. Since the project was completed and is currently in the closeout process, Cal OES requires the District to continue submitting quarterly reports until the project is officially closed by FEMA.

#### **8. PTP Metering Improvement Project**

- Total number of meters installed: 36 of 61 or 59.01% complete.
- An additional seven (7) meter installations are planned by end-2022.
- Easement acquisition completion: 22 of 42 obtained or 52.4% complete
- On June 7, Staff received signed easements deeds for PTP Turnout Nos. 135, 139 and 146.
- On June 15, Staff installed the first meter that is powered by battery at PTP Turnout No. 120 for testing and use on sites where power and solar are not a viable option.

#### **9. PTP Recycled Water Connection – Laguna Road Pipeline Project**

- The 30% design progress continued during the month of June. Staff attended the bi-weekly progress meetings and discussed the design progress with District's consultant, KJ.
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#### **4.1 Monthly Engineering Department Report Information Item**

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- Staff prepared and submitted the pump performance datasheet for the new PT reservoir pump to KJ to be incorporated in the hydraulic modeling.
- Staff reviewed and discussed the equipment preference list (valves, flow meters, fencing, etc.) proposed by KJ to be incorporated in the 30% design

#### **10. Rice Avenue Grade Separation Project and Impact on PTP**

- As previously reported, the State of California Department of Transportation (CalTrans) has requested acquisition of two easements at the PTP Well Site No. 4. During a follow up phone call with CalTrans in May, the offer made for the two easements was corrected to a total of \$6,300 for a 3,000 square foot of permanent easement and a 1,436 square foot of a temporary construction easement at the well site. Granting these easements might impact future well repairs and maintenance activities due to space constraints at the well site. This issue was communicated to CalTrans in a letter dated July 6, 2022.
- As reported previously, a segment of the District's 30-inch transmission pipeline north of the Fifth Street and Rice Avenue intersection will be buried under the new overpass and will therefore require relocation/ reinforcement. The City of Oxnard has developed the design for pipe reinforcement for this segment of the pipe but will not cover the costs associated with the pipe reinforcement. As several meetings and discussions did not resolve this issue, Staff requested to meet with CalTrans to discuss this issue. CalTrans informed Staff that CalTrans is not party to the Utility Agreement pertaining to the 30-in pipeline relocation/ reinforcement and advised Staff to discuss and resolve this issue with the City of Oxnard and the County of Ventura, who are the sole responsible parties for the pipeline relocation.

#### **11. State Water Project (SWP) Interconnection Pipeline Project**

- No update to report.

#### **12. Extraction Barrier and Brackish Water Treatment Project**

- Meetings:
  - June 21, 2022
    - Meeting between District staff and Division of Drinking Water to share information related to proposed Phase 1B "Demonstration Phase" Project (seven extraction wells, raw water pipeline and temporary discharge point).
    - Held monthly progress meeting with Navy and District staff. Some key discussion and action items are:
      - Navy's unconfined aquifer monitoring program and construction of new monitoring wells commencing in Fall 2022.
      - Timeline for implementation of grant funding projects (SGM Grant Program and pending Prop 1 Round 3 GWGP application).
      - Status of Phase 1A "Exploration Phase" Project license agreement. Naval Base Ventura County's (NBVC) Commanding Officer has signed off and issued a

#### 4.1 Monthly Engineering Department Report Information Item

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letter to the Regional Admiral to induct the license agreement as a requirement which will trigger the formal real estate processing. The regional real estate office is anticipated to provide comments by August 2022 with a plan to finalize it in September. Staff is planning to request the Board of Directors approval of the license agreement for Phase 1A by September 2022.

- June 30, 2022 – Held a meeting with Regional Water Quality Control Board staff to discuss Phase 1B Project.
- July 6, 2022 – Held a meeting with the Calleguas Municipal Water District (CMWD) to discuss a potential connection to the Salinity Management Pipeline (SMP) for pumped groundwater during the Phase 1B “Demonstration Phase” Project and brine discharge during the Phase 2 “Full Build-out” Project.
- July 12, 2022 – Held a meeting with the Navy’s California Coastal Commission experts to discuss potential permit requirements for the project.
- Grants:
  - Prop 1 Round 3 Ground Water Grant Program (GWGP) - *application*
    - June 8, 2022 – Board of Directors approved Resolution 2022-28 for authorizing and designating the District’s General Manager to enter into a grant funding agreement for the Phase 1B “Demonstration Phase” Project.
    - Additional letters of support have been requested from several agencies including:
      - Calleguas Municipal Water District (CMWD)
      - Farm Bureau of Ventura County
      - Port Hueneme Water Agency (PHWA)
      - Ventura County Coalition of Labor, Agriculture and Business (CoLAB)
    - A letter of acknowledgement was requested from the State Water resources Control Board Division of Drinking Water (DDW)
    - District staff continues to prepare full proposal application materials. Full proposals are due July 15, 2022.
  - Sustainable Groundwater Management (SGM) Grant Program
    - Final execution of grant agreements pending.
- CEQA/NEPA:
  - June 8, 2022 – Board of Directors approved Resolution 2022-27 for the adoption of the CEQA Notice of Exemption (NOE) prepared for the Information Collection for the Proposed Extraction Barrier and Brackish Water Project (Phase 1A exploration phase).
  - The CEQA NOE was filed with the County of Ventura on June 20, 2022 and Office of Planning and Research on June 21, 2022.
  - June – A draft Request for Qualifications/ Request for Proposal (RFQ/P) for CEQA and Regulatory Permitting consultant services for Phase 1B (demonstration phase) has been prepared and is in internal review.

#### 13. Asset Management/ CMMS System

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- Staff continues to work on tables and graphs for the end of year reporting from Santa Felicia Dam monthly reporting Survey123 app data exports.  
Staff is working to set up a demonstration of the Sedaru Asset Management Program that is in use by Channel Islands Beach Community Services District.

#### 14. Main Supply Line Sodium Hypochlorite Injection Facility

- Staff received and are currently reviewing a design proposal from Hazen and Sawyer.

#### Other Topics, Meetings and Training

- June 14 – Maryam Bral presented the status of the Santa Felicia Dam Safety Improvement Project to the Fillmore and Piru Basins Association Joint Annual Membership Meeting
- June 21 – Maryam Bral attended the AWA Water Issues meeting.
- June 21 - Staff received a notification from Tetra Tech that the Ventura County Multi-Jurisdictional Hazard Mitigation Plan (Plan) was approved by FEMA and CalOES. Following FEMA and Cal OES approval and adoption of the plan, Staff recommends the Board adopt the Plan (Volume 1 and the District's annex included in Volume 2). Staff prepared a resolution (Resolution 2022-34) to be considered by the Board at the July 13 Board meeting. Once the plan is adopted, the District can pursue grant funding opportunities made available by FEMA.



**Figure 1 – Drone Image of Iron and Manganese Treatment Plant  
Construction Progress taken June 21, 2022**





### **Staff Report**

**To:** Engineering and Operations Committee Members

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

**CC:** Maryam Bral, Chief Engineer

**From:** Linda Purpus, Environmental Services Manager

**Date:** July 1, 2022 (July 7, 2022, meeting)

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

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#### **Staff Recommendation:**

The Engineering and Operations Committee members will receive this staff report from the Environmental Services Department regarding its activities for the month of June 2022.

#### **Discussion:**

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

- Santa Felicia Fish Passage Pre-Implementation Studies

In preparation for removing fish trap equipment from middle Piru Creek, Environmental Services staff (staff) conducted surveys for arroyo toad and least Bell's vireo. During surveys, staff observed arroyo toad tadpoles which were at risk of stranding within a stream reach that was actively drying. Staff notified U.S. Fish and Wildlife (USFWS) of the observation and USFWS requested support from United Water Conservation District (United) in undertaking a rescue operation. On June 8, 2022, staff assisted USFWS with the capture and relocation of 17 arroyo toad tadpoles from an actively drying and recently isolated pool to nearby suitable habitat. United continues to support USFWS in this effort by periodically monitoring the relocation site to confirm that habitat conditions remain suitable. The trap equipment remains in place due to nesting bird activity and removal is currently planned for mid-July.

- 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 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.

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## 4.2 Monthly Environmental Services Department Report Information Item

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Each month that the trigger is not met, the minimum required habitat water release is 7 cubic feet per second (cfs). The trigger was not met on June 1, 2022. The minimum required habitat water release will remain at 7 cfs for the rest of the calendar year.

<b>2022 Habitat water release trigger date</b>	<b>Trigger criteria (total cumulative precipitation on trigger date)</b>	<b>Minimum required water release if trigger is met</b>	<b>2022 Measured cumulative precipitation</b>	<b>Actual minimum required habitat water release for mo.</b>
<b>January 1</b>	4.80 inches	15 cfs	12.48 inches	15 cfs
<b>February 1</b>	8.10 inches	20 cfs	12.88 inches	20 cfs
<b>March 1</b>	12.00 inches	20 cfs	12.98 inches	20 cfs
<b>April 1</b>	14.90 inches	20 cfs	14.45 inches	7 cfs
<b>May 1</b>	16.30 inches	10 cfs	14.69 inches	7 cfs
<b>June 1</b>	17.50 inches	9 cfs*	14.69 inches	7 cfs

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

### 2. Freeman Diversion Operations

On June 9, 2022, staff issued a request for onsite assistance to the National Marine Fisheries Service (NMFS), NMFS-Office of Law Enforcement, and California Department of Fish and Wildlife (CDFW) to support capture and relocation of *O. mykiss* from the fish screen bay at the Freeman Diversion. Additionally, United requested agency participation in developing a plan and protective measures that would prevent the need for future requests for assistance by ceasing diversions for the remainder of the season and dewatering the facility. On June 15, 2022, CDFW staff indicated they would assist with these operations and were available to be on-site June 21 and 22, 2022. Staff held coordination meetings and discussed proposed operations with NMFS and CDFW on June 15, 17, and 20, 2022, in advance of initiating operations on June 21, 2022. On June 21 and 22, 2022, CDFW staff was on-site and assisted United with conducting activities and operations in accordance with discussions held during earlier coordination meetings, which ultimately culminated with opening of the roller gate, draining the fish screen bay, canal bay, and forebay. During these activities, CDFW staff (with assistance from United staff) successfully captured and relocated six *O. mykiss* individuals. Unfortunately, three additional *O. mykiss* individuals perished, all of which were collected immediately downstream of the bypass channel.

### 3. California Endangered Species Act (CESA) Candidacy of Southern California Steelhead

Concurrent with the California Fish and Game Commission's (Commission) determination that listing of southern California steelhead under CESA "may be warranted," the Commission approved a Fish and Game Code (FGC) section 2084 regulation to authorize take during the species' candidacy period in accordance with specific terms and conditions. On June 27, 2022, staff submitted documentation to demonstrate the eligibility of the Santa Felicia Project to receive take authorization per the terms of the 2084 regulation. Pursuant to the statutory

## 4.2 Monthly Environmental Services Department Report

### Information Item

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timeline included in the 2084 regulation, CDFW must review and respond to the request submitted by United within 30 days.

#### 4. Quagga Mussel Management

- Monitoring

On June 13, 2022, the 2020 Supplemental Veliger Report was sent to CDFW staff as an informational item. Staff continues to conduct routine monitoring under the Quagga Mussel Monitoring and Control Plan (QMMCP) including monthly water quality sampling, monthly veliger (microscopic planktonic larvae) sampling, monthly artificial substrate sampling in Lake Piru (plate sampling), and natural substrate sampling in lower Piru Creek (surface surveys).

#### 5. Miscellaneous

- On June 6, 2022, Evan Lashly, Hannah Garcia-Wickstrum, and Hanna Reuter attended an arroyo toad tadpole identification training led by USGS Biologist Robert Fisher in the Angeles National Forest.
- On June 15, 2022, Environmental Services onboarded a new Field Technician Robbie Zambelli and a new part-time Field Assistant Amanda Bonavida.
- On June 22, 2022, Hannah Garcia-Wickstrum joined Clayton Strahan and Taylor Sabia in providing a tour of the Lake Piru Recreation Area to 25 to 30 Department of Water Resources (DWR) staff. Ms. Garcia-Wickstrom presented information on United's QMMCP and other relevant environmental questions.
- On June 23 and 28, 2022, staff interviewed six prospective candidates for the vacant Lead Field Technician position. A recommendation for candidate selection will be submitted in early July.

**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:** July 5, 2022 (July 7, 2022, Meeting)

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

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**Staff Recommendation:**

The Engineering and Operations Committee members will receive this staff report from the Operations and Maintenance department regarding its activities for the month of June.

1. Water Releases, Diversions: Please see Groundwater Basin Status Report

- Lake Piru dropped 1.3 feet in June to 16,840 acre-feet (AF) of storage.
- 209 AF of water was diverted by the Freeman Diversion facility in June.

2. Major Facilities Update

- **Santa Felicia Dam**
    - On July 1, 2022 the lake level was 73.5 feet below the spillway lip.
    - Habitat water releases from Santa Felicia Dam (SFD) were maintained at 7 cubic feet per second (cfs), for the month of June, as per the Water Release and Ramping Rate Implementation Plan for Lower Piru Creek.
    - On June 23, 2022 annual Santa Felicia Dam DSOD inspection performed.
  - **Freeman Diversion, Saticoy, and El Rio Recharge Facilities**
    - Flows at the Freeman Diversion averaged 4 cfs for the month of June, with 0 cfs of surface water being diverted on July 1, 2022.
    - Collaborating with agency regulators, staff dewatered Freeman Diversion in preparation of servicing all valves and actuators.
    - Staff changed the oil on all of the Micro Screen gearboxes.
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- Static water levels (distance of water from the well pad to the water table):

	<b>2022</b>	<b>2021</b>	<b>2020</b>
Saticoy	121'	127'	105'
El Rio	135.4'	128.3'	113.5'
PTP	117' - 156'	114' - 156'	102' - 152'

- **Noble/Rose/Ferro Basins**

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

- On June 21, 2022 staff coordinated with contractor McCalls for annual field calibration of Saviers Mutual, Vineyard Avenue Acres Mutual, Cypress Mutual, Rio Real School, and Del Valle school turnout meters.
- Staff replaced OH Well #16 manifold and flush line AUMA actuators and valves.
- Staff sampled and changed the oil on all of the OH Booster Plant VFD motors.
- OH distribution pipeline sinking manhole on Camino Del Sol and Rose Avenue was repaired by contractor Travis Agriculture.
- Staff replaced OH Booster Plant south manifold turbidimeter pump and motor.

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

- PVCWD received surface water from the Conejo Creek Project and also received some highly treated recycled water from the City of Oxnard's Advanced Water Purification Facility (AWPF).

- **Pumping Trough Pipeline (PTP)**

- During the month of June, the PTP system demand was met with a combination of surface water from the Freeman Diversion and PTP wells.
- Staff installed and calibrated the level transducer at the PTP Reservoir.
- Staff installed piping, valve, and electronic Endress Hauser meter assembly at Turnout #120.

- **Instrumentation**

- On June 27, 2022 staff coordinated emergency repairs with Dieners Electric due to a damaged OH Booster Plant electrical supply.
- Staff entered into an agreement with Voltus, for the OH and PTP delivery systems, providing financial incentives for short term reduction of demand on our local electrical grid.
- Staff configured and deployed a battery powered Endress Hauser flowmeter on a six month trial basis at Turnout #120, potentially eliminating the need for solar panel assemblies in certain installation locations.
- Staff installed new operator interface panel-view at OH Well #12.
- Staff installed 10gig fiber optic cabling in the headquarters boardroom for the sound system.

**Agenda Item: 4.3 Monthly Operations and Maintenance Department Report –  
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**Lake Piru Water System**

- All chlorine residuals and turbidity readings for the drinking water system were within proper ranges for the month of June.
- All chlorine residuals and turbidity readings for the drinking water system were within proper ranges for the month of June.
- Staff replaced 100ft section of Water Treatment Plant pump barge suction hose.
- District staff made repairs to leaking manifold to NaOCL chemical injection system.
- 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.

**4. Other Operations and Maintenance Activities**

- The Santa Felicia Dam Emergency Action Plan sirens located in Piru were exercised on June 3, 2022.
- Staff installed new signs at El Rio Booster Plant, OH deep aquifer wells, and Saticoy recharge basins.
- On June 15, 2022, staff attended the Santa Paula Chamber of Commerce board meeting remotely.
- On June 28, 2022 staff participated in SFD Emergency Action Plan Call-Down Drill.
- Staff widened the El Rio Settling Basin pond #9 roadway with Iron and Manganese project excess soil.
- Staff removed the old chemical injection room 1 ton overhead crane.
- 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.
- Action priority update biweekly meetings for operations staff were continued.

**5. Safety and Training**

- During the month of June, approximately 3100 hours of work, within the O & M department, were performed with no reportable accidents. The department's YTD safety record is 0 recordable injuries.
- One Safety Meeting was conducted on site at UWCD Headquarters, covering situational awareness on all hazards, ranging from construction job sites to imminent threat/workplace violence. The presentation was a joint effort by O&M Recharge Worker I and the Risk and Safety Manager, with the former volunteering for this opportunity to

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further develop his public speaking and presentation skills. Several mini safety videos were shown, followed by one video specifically covering imminent threat situations entitled *Run, Hide, Fight PSA* by Grand State University. The primary objective was to provide awareness and reminder on the actions to take in such a situation, in light of recent mass casualty incidents in 2022.

- 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. The online Target Safety assignments for May was “Water Industry Workplace Violence.”

Attachments: A - Operations Log for June