

AGENDA
ENGINEERING and OPERATIONS COMMITTEE MEETING

Thursday, May 2, 2024, at 9:30 a.m.
UWCD Headquarters, First Floor, Board Room
1701 N. Lombard Street, Oxnard, CA 93030

OPEN SESSION - ROLL CALL

1. Public Comment
Information Item

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
Motion

Approve the March 7, 2024, Engineering and Operations Committee meeting minutes.

3. May 15, 2024, Board Meeting Motion Agenda Items

Review, discuss, and make a recommendation on the following agenda items for approval at the May 15, 2024, Board meeting:

3.1 Adopt Resolution Determining that the Santa Felicia Dam 72-inch Butterfly Valve Redundancy and Seismic Resiliency Project (“Project”) is Exempt from the Provisions of the California Environmental Quality Act and Approving the Project

Review and consider recommending to the full Board to approve the adoption of a Resolution determining that the Santa Felicia Dam 72-inch Butterfly Valve Redundancy Project (Project) is exempt from the provisions of the California Environmental Quality Act (CEQA) and approving the Project and directing staff to file a Notice of Exemption in accordance with CEQA.

3.2 Amendment to Agreement with Northwest Hydraulic Consultants for Professional Consulting Services in Connection with the Freeman Conveyance System Upgrade - Freeman to Ferro Recharge Basin Project (CIP 8018)

Review and consider recommending approval of the motion item to the full Board that considers authorizing the General Manager to sign an Amendment to the current agreement with Northwest Hydraulic Consultants for consulting services in connection with the Freeman Conveyance System Upgrade - Freeman to Ferro Recharge Basin Project.

3.3 Authorize a Supplemental Appropriation of funds for the Iron and Manganese Treatment Project (CIP 8007)

Review and consider recommending to the full Board of Directors that it authorizes a supplemental appropriation of \$344,126 for the Iron and Manganese Treatment Project (C.I.P. 8007) at its regular May 15, 2024, meeting.

3.4 Authorize General Manager to Award a Construction Management and Inspection Services Contract for Phase 1 of the PTP Recycled Water Connection - Laguna Road Pipeline Project (CIP 8043)

Review and consider recommending approval of the motion item to the full Board that considers authorizing the General Manager to award a construction management and inspection services contract to the most qualified proposer, as recommended by staff, in support of Phase 1 of the PTP Recycled Water Connection - Laguna Road Pipeline Project (CIP 8043).

**4. Monthly Department Updates
Information Item**

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 (Craig Morgan)

5. Future Agenda Items

ADJOURNMENT

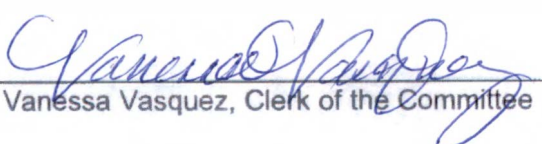
The Americans with Disabilities Act provides that no qualified individual with a disability shall be excluded from participation in, or denied the benefits of, the District's services, programs or activities because of any disability. If you need special assistance to participate in this meeting, or 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


Craig Morgan, Chief Operations Officer

This agenda was posted Friday, April, 26, 2024, at 10:40 a.m. at the United Water Conservation District Headquarters, Oxnard, CA and www.unitedwater.org.


Vanessa Vasquez, Clerk of the Committee

MINUTES
ENGINEERING AND OPERATIONS COMMITTEE MEETING
Thursday, March 7, 2024, at 9:30 a.m.
UWCD Headquarters, First Floor, Board Room
1701 N. Lombard Street, Oxnard, CA 93030

OPEN SESSION

The meeting was called to order at 9:30 a.m.

Committee Members Roll Call

Two Committee members were present (Keeling, Maulhardt). One seat is currently vacant.

1. Public Comment

No public speakers.

2. Approval of Minutes
Motion

Action: M/S/C (Keeling, Maulhardt) to approve the February 5, 2024, minutes.

Vote: Ayes: Keeling and Maulhardt; Noes: None; Absent: None

3. March 13, 2024, UWCD Board of Directors Meeting Agenda Items

3.1 Professional Consulting Services Agreement with Stantec Consulting Services, Inc. to Develop 30% Design of the Lake Piru Recreation Area Facility Improvement Plan (FIP) (CIP 8055)

(Dr. Maryam Bral)

Recommend approval of the motion to the Board authorizing the General Manager to execute a professional consulting services agreement with Stantec Consulting Services, Inc. in the amount of \$407,000 to develop the 30% design package of the Lake Piru Recreation Area Facility Improvement Plan (FIP) (CIP 8055).

Director Keeling inquired if there was a play area proposed in the new plan. She suggested to staff adding recreational equipment such as a swing set and tether ball or activities for kids and tweens and encouraged the team to think about adding play spaces central to the camping areas. She felt this would draw even more families to the lake and provide a means for kids to explore safely away from the water.

Chair Maulhardt suggested adding an open greenspace near the path that goes around the camping area where adults can sit with a clear view of their kids. He concurred with Director Keeling's recommendation to include activities for pre-teens/teenagers and to place an emphasis on planning according to family's needs.

General Manager Guardado asked staff to provide an overall map which shows all the existing amenities in order to consider what is available and what is still needed.



Before providing a motion for recommendation, Chair Maulhardt stated these are issues that would have gone to the Recreation Committee, but it was acceptable to handle them during the Engineering and Operations Committee meeting until such time that the Recreation Committee reconvenes (currently only one seat is filled, and the remaining two seats are vacant).

Action: M/S/C (Keeling, Maulhardt) to approve staff's recommendation.

Vote: Ayes: Keeling and Maulhardt; Noes: None; Absent: None

3.2 Construction Contract with ABC - Liovin Drilling, Inc. for EBB Phase 1 Monitoring Wells (CIP 8019)

(Dr. Maryam Bral)

Recommend approval of the motion to the Board authorizing the General Manager to award a construction contract to the lowest responsive bidder, ABC - Liovin Drilling, Inc. in the amount of \$2,746,539 [\$2,692,685 plus 2% contingency] for the construction of the Extraction Barrier Brackish Water Treatment (EBB) Phase 1 Monitoring Wells (CIP 8019).

Action: M/S/C (Keeling, Maulhardt) to approve staff's recommendation.

Vote: Ayes: Keeling and Maulhardt; Noes: None; Absent: None

4. Monthly Department Updates **Information Items**

4.1 Annual Investigation and Report of Groundwater Conditions within United Water Conservation District

Received a presentation (attached) on the annual report on groundwater conditions within the District for the past, current and ensuing water year, in conformance with Section 75560 of the California Water Code.

Regarding slide 6 "*Updated "Total of Annual Overdrafts" with Previous and Current Years Appended*", Chair Maulhardt asked if the District had decided on what number was an acceptable overdraft line for the long term. Mr. Guardado answered he would discuss this with staff as well as continue to try to find out from the state what the overdraft limit is and what the District can do to overcome overdraft status. The CA Department of Water Resources (DWR) is working with the District. Staff will bring the information back to the Directors for their understanding.

Chair Maulhardt added, we need to say to people the District's mission is to stop the movement of seawater intrusion and then be able to show where the front of sea water has been and how the District met its objectives. The studies also will show that the District is doing the work to keep seawater at bay.

4.2 Engineering Department Update **Information Item**

Received and reviewed the Engineering Department monthly update.



**4.3 Environmental Services Department Update
Information Item**

Received the Environmental Services Department monthly update and verbal highlights.

**4.4 Operations and Maintenance Department Update
Information Item**

Received the Operations and Maintenance Department monthly update well as a presentation of its highlights (presentation attached).

Regarding slide 4 "*Rose Basin*," Chair Maulhardt would like to see an aerial view of the storm water run-off and road of where the Rose Basin slide exists, if presenting to the Board. This would provide a better perspective of the area.

5. Future Agenda Items

None.

ADJOURNMENT

The meeting was adjourned at 10:31 a.m.

I certify that the above is a true and correct copy of the minutes of the UWCD Engineering and Operations Committee Meeting of March 7, 2024.

ATTEST: _____
Chair Lynn E. Maulhardt

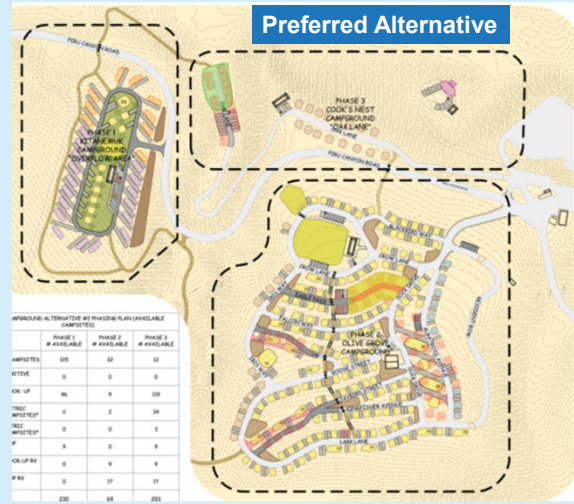
System Reliability and Fiscal Responsibility

Motion Item 3.1

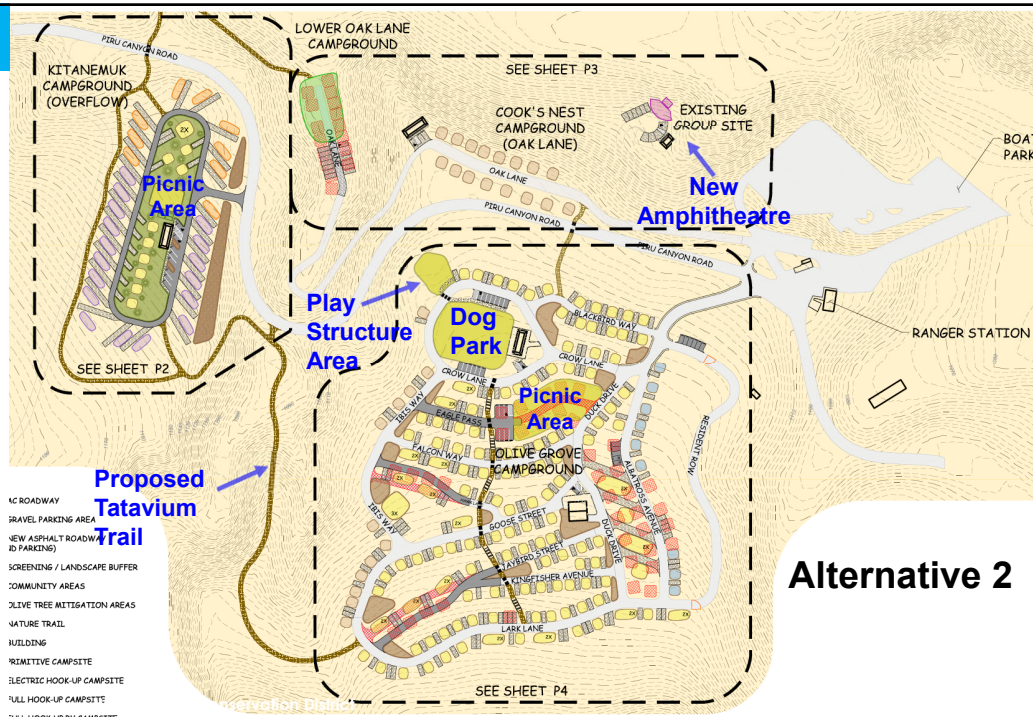
Authorize Approval of a Professional Consulting Services Agreement with Stantec Consulting Services, Inc. to develop the 30% Design of the Lake Piru Recreation Area Facilities Improvement Project – Lake Piru Recreation Area Facilities Improvement Project (CIP 8055) Board Motion

Draft Lake Piru Recreation Area Facilities Improvement Project (FIP) was adopted by the Board in June 2023. Alternative 2 was selected to be advanced to 30 and 60% design levels.

- 30% Design Package includes:
 - 30% Design Plans
 - Topographic Survey
 - Geotechnical Investigation
 - Electrical and Water Systems Analyses
- Contract Fee not to exceed \$407,000
- Completion: March to December 2024
- Sufficient funds available in the FY 2024/25 budget to subsequently begin 60% design phase



System Reliability and Fiscal Responsibility




Water Supply Reliability & Environmental Compliance

Motion Item 3.2

Construction Contract with ABC – Liovin Drilling, Inc. for EBB Phase 1 Monitoring Wells (CIP 8019)

- Drilling, Construction and Development of 18 Monitoring Wells, 2 Test/Monitoring wells
- ABC Liovin Drilling Inc. lowest responsive bid. References indicate they are capable of the work
- Contract Fee not to Exceed \$2,746,539
- Grant Funding:
DWR SGM Phase I grant: \$1,317,900
- Sufficient funds available in the FY 2023/24 budget

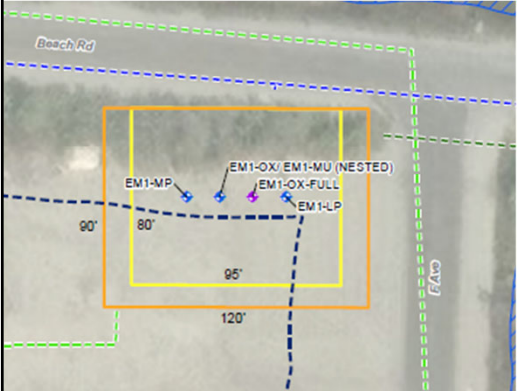
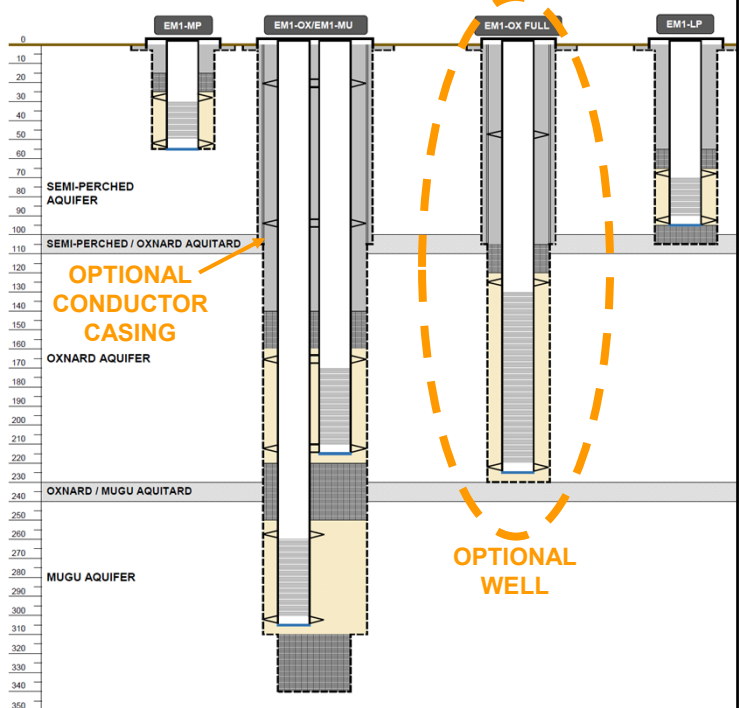


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Water Supply Reliability & Environmental Compliance

Motion Item 3.2

Construction Contract with ABC – Liovin Drilling, Inc. for EBB Phase 1 Monitoring Wells (CIP 8019)

2



SUMMARY OF THE ANNUAL INVESTIGATION AND REPORT OF GROUNDWATER CONDITIONS WITHIN UNITED WATER CONSERVATION DISTRICT

Engineering and Operations Committee Meeting
March 07, 2024
Presented By: Zachary Hanson, Ph.D., P.E.



1

Annual Investigation and Report Background

- United Water Conservation District is organized and operates pursuant to the **Water Conservation District Law of 1931**, which is set forth in Division 21 of the Water Code.
 - *The district shall annually cause to be made an engineering investigation and report upon ground water conditions of the district.* (Water Code 75560)
 - The engineering investigation and report shall include all of the following... (Water Code 75561)
- **"Water year"** means July 1st of one calendar year to June 30th of the following calendar year.
 - i.e., **Fiscal Year** basis
- Requires annual investigation and report upon the groundwater conditions of the district
 - **Previous Water Year** (July 2022- June 2023)
 - **Current Water Year** (July 2023 – June 2024)
 - **Ensuing Water Year** (July 2024 – June 2025)



2

2

Annual Overdraft

- **“Annual Overdraft”** means the amount, determined by the board, by which the **production of water from groundwater supplies within the district or any zone or zones thereof during the water year exceeds the natural replenishment of such groundwater supplies in such water year.**
(Water Code § 75506)
 - Calculated annually, District-wide Annual Overdraft Water Balance

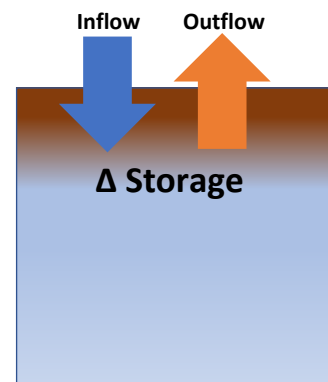


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3

District-wide Annual Overdraft Water Balance Methodology

- **District-wide water balance calculation**
 - District Water Balance = Outflows – Inflows
 - Positive value = **Overdraft**
 - Negative value = **Surplus**
- **Inflows**
 - Percolated Surface Water (Upper basins, Forebay)
 - Artificial Recharge (Upper basins, Forebay)
 - Percolated Rainfall (Upper basins, Forebay)
 - Return Flow (Ag, M&I) (Upper basins, Forebay)
 - Leakage from Semi-Perched (Confined basins)
- **Outflows**
 - Groundwater Extractions (All Basins)
 - Riparian Evapotranspiration (Upper Basins, Forebay)



4

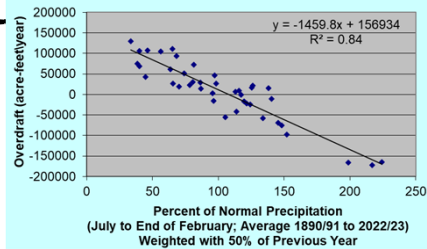
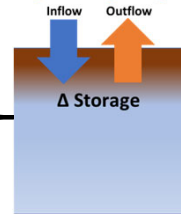
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A Summary of Findings for the Estimated Annual Overdraft Values

- Previous Water Year (July 2022- June 2023): **-75,500 AF Surplus**
 - o District-wide Annual Overdraft Water Balance

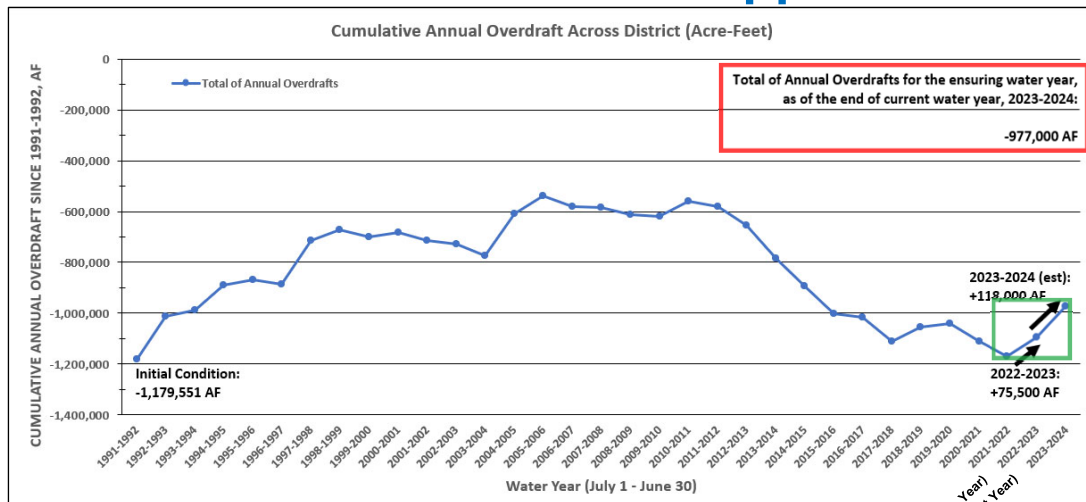
- Current Water Year (July 2023 – June 2024): **-118,000 AF Surplus**
 - o Using precipitation through February of the current year (2024), estimation of overdraft is made from regression with past precipitation and overdraft data

- Ensuing Water Year (July 2024 – June 2025): **0 to 44,000 AF Overdraft**
 - o Estimated as value between 0 AF and the calculated past 10-year average overdraft. Still long-term overdraft average.



5

Updated “Total of Annual Overdrafts” with Previous and Current Years Appended



(Note: sign change for graphical purposes)



6

Summary of Findings

(Report Table 1)

| Finding Item | Value (acre-feet) | Description | Water Code Reference |
|--------------|-------------------|---|---|
| | 44,000 | The average annual overdraft for the immediate past 10 water years. Positive value means overdraft, negative value means surplus. | Section 75574 (a) |
| b | -118,000 | The estimated annual overdraft for the current water year. | Section 75574 (b) |
| c | 44,000 | The estimated annual overdraft for the ensuing water year. | Section 75574 (c) |
| | 20,000 - 25,000 | The estimated accumulated overdraft as of the last day of the preceding water year. | Section 75574 (d) |
| | 20,000 - 25,000 | The estimated accumulated overdraft as of the last day of the current water year. | Section 75574 (e) |
| | 102,000 | The estimated amount of agricultural water to be withdrawn from the ground water supplies of the District for the ensuing water year. | Section 75574 (f) |
| | 36,000 | The amount of water other than agricultural water to be drawn from the ground water supplies of the District for the ensuing water year. | Section 75574 (g) |
| | 59,000 | The estimated amount of water necessary for surface distribution for the ensuing water year. | Section 75574 (h) |
| | 781,000 | The amount of water which is necessary for the replenishment of the ground water supplies of the District for the ensuing water year, as of the end of the current year-- | Section 75574 (i) Section 75561 (e) |
| | 1,850 | The amount of water the District is obligated by contract to purchase during the ensuing water year. | Section 75574 (j) Section 75561 (e) |
| | 137,500 | The total production of water from the ground water supplies of the District for the preceding water year. | Section 75561 (c) |
| Additional | 1,095,000 | The estimated "total of annual overdrafts" of the District for the current water year, as of the end of the preceding water year. | Section 75574 (b, i) Section 75561 (e) |
| Additional | 977,000 | The estimated "total of annual overdrafts" of the District for the ensuing water year, as of the end of the current year. | Section 75574 (b, i) Section 75561 (e) |




Report will be made available shortly:

<https://www.unitedwater.org/key-documents/#groundwater-conditions>

- **Path Forward**
 - ✓ Report overview presented
 - Report shall be delivered to Secretary in writing (WC 75570)
 - Secretary will publish notice of receipt of report (WC 75571)
 - Report will be made available at office (and online) (WC 75572)
 - Board will open public hearing at April Board Meeting (WC 75573)
 - Hearing concludes at June Board Meeting, where the Board will determine the findings (WC 75574)

Annual Investigation and Report of Groundwater Conditions Within United Water Conservation District



A summary of findings for the previous water year (2022-2023), current water year (2023-2024), and ensuing water year (2024-2025)

Prepared by
Water Resources Department
UNITED WATER CONSERVATION DISTRICT
March 2024





Questions?



Cover Photo: Santa Clara River, looking upstream of Freeman Diversion
Photo by Luke Bryden, February 05, 2024


**OPERATIONS AND
MAINTENANCE
DEPARTMENT
UPDATE**




March 7, 2024

1

Freeman Diversion



2/11/24
~ ~ ~ ~ ~



2

Freeman Diversion



3

3

Rose Basin



4

4



5



6



STAFF REPORT

To: Engineering and Operations Committee Meeting

Through: Mauricio E. Guardado, Jr., General Manager
Maryam Bral, Chief Engineer

From: Hannah Garcia-Wickstrum, Environmental Scientist

Date: April 25, 2024 (May 2, 2024, Committee Meeting)

Agenda Item: **3.1 Adopt Resolution Determining that the Santa Felicia Dam 72-inch Butterfly Valve Redundancy and Seismic Resiliency Project (“Project”) is Exempt from the Provisions of the California Environmental Quality Act and Approving the Project Motion**

Staff Recommendation:

Review and consider recommending to the full Board to approve the adoption of a Resolution determining that the Santa Felicia Dam 72-inch Butterfly Valve Redundancy Project (Project) is exempt from the provisions of the California Environmental Quality Act (CEQA) and approving the Project and directing staff to file a Notice of Exemption in accordance with CEQA.

Discussion:

The District is the lead agency for the proposed Project under CEQA. The proposed Project consists of installing a supplemental manually operated hydraulic power unit (HPU) for the 72-inch butterfly valve at the Santa Felicia Dam (SFD) and the reinforcement and realignment of segments of the existing hydraulic pipelines inside of the Santa Felicia Dam outlet works tunnel to ensure seismic resiliency. The proposed Project is an interim risk reduction measure developed by the District to mitigate dam safety risks, as required by the Federal Energy Regulatory Commission. The supplemental HPU will provide redundant or alternative operation of the SFD 72-inch butterfly valve in the event that the existing HPU is rendered inaccessible by an uncontrolled release of water emanating from a rupture in the 60-inch steel penstock following a seismic event. The proposed Project involves negligible or no expansion of existing or former use and negligible or no expansion of capacity.

The Project is categorically exempt from review under CEQA pursuant to State CEQA Guidelines (Cal. Code Regs., tit. 14, § 15000 et seq.) Section 15301 “Existing Facilities” (Class 1) and Section 15303 “New Construction or Conversion of Small Structures” (Class 3). The District has reviewed the proposed Project and determined that none of the exceptions to categorical exemption set forth in CEQA Guidelines Section 15300.2 apply.

Agenda Item 3.1 Adopt Resolution Determining that the Santa Felicia Dam 72-inch Butterfly Valve Redundancy and Seismic Resiliency Project (“Project”) is Exempt from the Provisions of the California Environmental Quality Act and Approving the Project Motion

Mission Goal:

Meets mission-related Goal B (System Reliability) and Goal C (Regulatory & Environmental Compliance).

Fiscal Impact:

The County Clerk and Recorder’s Office filing fee for the CEQA NOE is \$50.00 which is included in the Adopted Fiscal Year 2023-24 Budget under project account 051-400-81080; 8002-825.

Attachment A – Resolution

Attachment B – Notice of Exemption

RESOLUTION 2024-

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE UNITED WATER CONSERVATION DISTRICT DETERMINING THAT THE SANTA FELICIA DAM 72-INCH BUTTERFLY VALVE REDUNDANCY AND SEISMIC RESILIENCY PROJECT (“PROJECT”) IS EXEMPT FROM THE PROVISIONS OF THE CALIFORNIA ENVIRONMENTAL QUALITY ACT AND APPROVING THE PROJECT

WHEREAS, pursuant to the proposed project the United Water Conservation District (“District”) intends to install a supplemental manually operated hydraulic power unit for the 72-inch butterfly valve at the Santa Felicia Dam and would also reinforce and realign segments of the existing hydraulic pipelines inside of the outlet works tunnel to ensure seismic resiliency (the “Project”); and

WHEREAS, the Santa Felicia Dam is an existing, publicly owned facility that provides electric power; and

WHEREAS, the proposed Project is an interim risk reduction measure developed by the District to mitigate dam safety risks, as required by the Federal Energy Regulatory Commission

WHEREAS, the proposed Project will provide redundant or alternative operation of the Santa Felicia Dam 72-inch butterfly valve in the event that the existing hydraulic power unit is rendered inaccessible by an uncontrolled release of water emanating from a rupture in the 60-inch steel penstock following a seismic event; and

WHEREAS, the proposed Project involves minor alterations to the Santa Felicia Dam and the installation of small new equipment at the Santa Felicia Dam; and

WHEREAS, the proposed Project involves negligible or no expansion of existing or former use at the Santa Felicia Dam; and

WHEREAS, the District has reviewed the provisions of the California Environmental Quality Act (“CEQA”) (Pub. Resources Code, § 21000 et seq.) and the State CEQA Guidelines (Cal. Code Regs., tit. 14, § 15000 et seq.); and

WHEREAS, the CEQA Guidelines Section 15301 (Class 1 Existing Facilities) categorical exemption “consists of the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of existing or former use; and

WHEREAS, the key consideration under a section 15301 exemption is whether a project involves negligible or no expansion of use; and

WHEREAS, examples of projects that are exempt under section 15301 include the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of existing facilities of both investor and publicly owned utilities used to provide electric power; and

WHEREAS, the CEQA Guidelines Section 15303 (Class 3 New Construction or Conversion of Small Structures) categorical exemption consists of the “construction and location of limited numbers of new, small facilities or structures; installation of small new equipment and facilities in small structures; and the conversion of existing small structures from one use to another where only minor modifications are made in the exterior of the structure”; and

WHEREAS, the District has reviewed the proposed Project and has determined that it is categorically exempt from the provisions of CEQA pursuant to CEQA Guidelines Section 15301 (Class 1 Existing Facilities) and Section 15303 (Class 3 New Construction or Conversion of Small Structures); and

WHEREAS, the District has reviewed the proposed Project and has determined that none of the exceptions to categorical exemption set forth in CEQA Guidelines Section 15300.2 apply.

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

1. The District’s Board of Directors hereby finds and determines that the proposed Project is exempt from the provisions of CEQA. Specifically, the Board of Directors finds and determines that the proposed Project is categorically exempt pursuant to the Class 1 Existing Facilities and Class 3 New Construction or Conversion of Small Structures exemptions (CEQA Guidelines § 15301 and § 15303, respectively).
2. The District’s Board of Directors hereby finds and determines that none of the exceptions to categorical exemption set forth in CEQA Guidelines Section 15300.2 apply.
3. The District’s Board of Directors hereby approves the proposed Project and authorizes its implementation when deemed appropriate by the General Manager.
4. The Board hereby authorizes and directs the District’s Environmental Services Manager to file a Notice of Exemption for the Project in accordance with CEQA.
5. The foregoing recitals are true and correct and incorporated herein as if fully set forth.

PASSED, APPROVED AND ADOPTED this 15th day of May 2024.

ATTEST: _____

Sheldon G. Berger, Board President

ATTEST: _____

Catherine P. Keeling, Board Secretary/Treasurer

NOTICE OF EXEMPTION

To:
Office of Planning and Research
P.O. Box 3044, Room 113
Sacramento, CA 95812-3044

From:
United Water Conservation District
1701 North Lombard Street, Suite 200
Oxnard, CA 93030

Ventura County Clerk
800 South Victoria Ave.
Ventura, CA 93009

Project Title: Santa Felicia Dam 72-inch Butterfly Valve Redundancy and Seismic Resiliency Project

Project Location: Santa Felicia Dam at Lake Piru, Ventura County, California (Assessor Parcel Number 016021003).

Name of Public Agency Approving Project (Lead Agency): United Water Conservation District

Name of Person or Agency Carrying Out Project: United Water Conservation District

Project Description: United Water Conservation District (United) proposes the installation of a supplemental manually operated hydraulic power unit (HPU) for the 72-inch butterfly valve at the Santa Felicia Dam (SFD) and the reinforcement and realignment of segments of the existing hydraulic pipelines inside of the Santa Felicia Dam outlet works tunnel to ensure seismic resiliency (Project). The Project is an interim risk reduction measure developed by United to mitigate dam safety risks, as required by the Federal Energy Regulatory Commission. The addition of the supplemental HPU will provide redundant or alternative operation of the SFD 72-inch butterfly valve in the event that the existing HPU is rendered inaccessible by an uncontrolled release of water emanating from a rupture in the 60-inch steel penstock following a seismic event. The additional HPU would be housed inside a metal cabinet that would be founded on a six-foot by six-foot by six-inch concrete pad on the toe of the SFD. Approximately two 200-foot stainless steel hydraulic pipelines housed inside one SCH 80 PVC conduit would be routed from the supplemental HPU west towards the outlet works tunnel where the pipelines would tie into the existing hydraulic pipelines that convey hydraulic fluid to the SFD 72-inch butterfly valve.

Exempt Status:

- Ministerial (Sec. 21080(b)(1); 15268)
 Declared Emergency (Sec. 21080(b)(3); 15269(a))
 Emergency Project (Sec. 21080(b)(4); 15269(b)(c))
 Categorical Exemptions: Class 1, Guidelines § 15301 – Existing Facilities;
Class 3, Guidelines § 15303 – New Construction or Conversion of Small
Structures
 Statutory Exemption
-

Reasons Why Project is Exempt: The Project is categorically exempt from the provisions of the California Environmental Quality Act (CEQA) (Pub. Resources Code, § 21000 et seq.) pursuant to State CEQA Guidelines (Cal. Code Regs., tit. 14, § 15000 et seq.) Section 15301 *Existing Facilities* (Class 1) and Section 15303 *New Construction or Conversion of Small Structures* (Class 3).

The section 15301 *Existing Facilities* exemption “consists of the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of existing or former use.” The key consideration under a section 15301 exemption is whether a project involves negligible or no expansion of use. Examples of projects that are exempt under section 15301 include the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of existing facilities of both investor and publicly owned utilities used to provide electric power.

The section 15303 *New Construction or Conversion of Small Structures* exemption consists of the “construction and location of limited numbers of new, small facilities or structures; installation of small new equipment and facilities in small structures; and the conversion of existing small structures from one use to another where only minor modifications are made in the exterior of the structure.”

The SFD is an existing, publicly owned facility that provides electric power. The Project involves minor alterations to the SFD and the installation of small new equipment at the SFD. The Project involves negligible or no expansion of existing or former use at the SFD.

None of the exceptions to categorical exemption set forth in CEQA Guidelines Section 15300.2 apply.

Lead Agency Contact Person: Maryam Bral, Chief Engineer
Telephone: 805-525-4431
Email: Maryamb@unitedwater.org

Marissa Caringella
Environmental Services Manager
United Water Conservation District

Date

Date OPR received for filing: _____



STAFF REPORT

To: Engineering and Operations Committee Meeting

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

From: Maryam Bral, Chief Engineer
Nathaniel Summerville, Senior Engineer

Date: April 25, 2024 (May 2, 2024, meeting)

Agenda Item: **3.2 Amendment to Agreement with Northwest Hydraulic Consultants for Professional Consulting Services in Connection with the Freeman Conveyance System Upgrade - Freeman to Ferro Recharge Basin Project**
Motion

Staff Recommendation:

Review and consider recommending approval of the motion item to the full Board that considers authorizing the General Manager to sign an Amendment to the current agreement with Northwest Hydraulic Consultants for consulting services in connection with the Freeman Conveyance System Upgrade - Freeman to Ferro Recharge Basin Project.

Discussion:

The Three Barrel Culvert Replacement Project will remove a documented bottleneck within the Freeman Conveyance system and is part of CIP 8018 Conveyance System Upgrade - Freeman to Ferro Recharge Basin. The proposed replacement structure when complete will restore the operational capacity of the canal system within the respective reach and bring the structure in compliance with current levee safety requirements. Northwest Hydraulic Consultants (NHC) and their sub-consultant Gannett Fleming have completed the 100% design for the Three Barrel Culvert Replacement Project. Additional work is required to finalize the construction documents and provide technical support for the US Army Corp of Engineers 408 Permission process and County of Ventura Watershed Protection Encroachment Permit process.

Mission Goal:

Meets mission-related Goal A (Water Supply) and Goal B (Water System Reliability).

Fiscal Impact:

The total contract cost of \$49,460 is included in the FY 23/24 Budget (051-400-81020; 8018-815).

Agenda Item 3.2 Amendment to Agreement with Northwest Hydraulic Consultants for Professional Consulting Services in Connection with the Freeman Conveyance System Upgrade - Freeman to Ferro Recharge Basin Project
Motion

Attachments:

Attachment A - Draft Amendment 4

AMENDMENT No. 4
TO THE PROFESSIONAL SERVICE AGREEMENT

The Professional Service Agreement (hereinafter referred to as “Agreement”) made effective May 4, 2020 by and between United Water Conservation District (hereinafter "United"), and Northwest Hydraulic Consultants (hereinafter referred to a “Consultant”) and, for the purpose of providing engineering consulting and design services in connection with the Freeman Conveyance System Upgrade Project, is here by amended as follows:

Agreement

On May 4, 2020, United Water Conservation District entered into an agreement with Northwest Hydraulic Consultants to obtain professional consulting and design services provided in connection with the Inverted Siphon replacement and Three-Barrel Culvert Replacement. Both of which are components of the Freeman Conveyance System Upgrade Project. The Agreement was last amended on March 1, 2024 to allow a time extension only.

Scope of Work

This amendment dated May __, 2024 provides for additional funds to complete the remaining scope outlined in Attachment A. The purpose is to complete the design and permitting for the Three Barrel Culvert Replacement Project.

Contract Term

No change in contract term provided in Amendment 3, which extended the contract through December 31, 2024.

Compensation

The Agreement amount is increased by \$49,460 for a total agreement amount of \$298,149. The Fee Schedule included as Exhibit B of the Agreement is hereby amended to include the updated fee schedule presented in Attachment A. The conditions of the original Agreement dated May 4, 2020, shall remain enforce except as amended herein.

United Water
Conservation District

Northwest Hydraulic Consultants

Mauricio E. Guardado Jr.
General Manager

Edward Wallace
Principal

AMENDMENT No. 4
TO THE PROFESSIONAL SERVICE AGREEMENT
Attachment A – Fee Schedule and Scope



NHC Ref. No. 5005686

April 22, 2024

United Water Conservation District
1701 North Lombard Street, Suite 200
Oxnard, CA, 93030

Attention: **Nathan Summerville**
Senior Engineer

Via email: NathanS@unitedwater.org

**Subject: Proposed Amendment for
Freeman Diversion Conveyance System Three Barrel Culvert Final Design, R1**

Dear Mr. Summerville:

This proposal describes a scope of work and budget to coordinate with the US Army Corps of Engineers (USACE) and produce final construction documents for the Three Barrel Culvert Improvement Project. At the time that design work was initiated for this project it had not been determined that USACE review would be required. A 90 percent design has now been completed, reviewed by Ventura County, and revised for submittal to USACE with a Section 408 permit application.

This proposal includes work to coordinate with USACE, respond to comments, and revise the 90 percent plans to produce final construction documents. As part of this process, the design team will work with United to coordinate plan notes with United standard special provisions for bidding purposes.

Scope of Services

The following tasks are anticipated:

1. Coordinate with USACE and Resolve Comments
2. Prepare Final Construction Documents

Each task is briefly described below.

Task 1. Coordinate with USACE and Resolve Comments

NHC and team member Gannett Fleming will attend up to two virtual meetings with United and USACE to review the project and obtain USACE comments on the design. NHC and Gannett Fleming will resolve comments and develop design modifications to address USACE comments. The project team will prepare

a comment response table to address each of the USACE comments, and if necessary, meet virtually with USACE to resolve the responses and direction for final plans.

The budget for this task assumes that USACE comments do not result in major design revisions, but may require limited additional analysis or development of design modifications. If the scope of USACE comments exceeds the estimated level of effort, NHC will coordinate with United to define a design path and level of effort.

Task 2. Prepare Final Construction Documents

NHC and Gannett Fleming will review United special provisions and coordinate with United to suggest changes in the special provisions for consistency with plan notes, and incorporate special provisions into the plan notes, where applicable. Following the acceptance by USACE of the response to comments, the project team will incorporate USACE comments into a revised final set of construction documents for use by United to bid the project. The final documents will be stamped by a registered professional engineer and will include an updated Final Design Report and Opinion of Probable Construction Cost.

For this task we assume that United will provide a set of special provisions applicable to the project for review by the project team at the same time or before consensus is reached on USACE comments so that all changes can be incorporated into a single set of revisions. The nature of USACE comments is currently unknown, and the budget for this task assumes that comments will be minor, primarily to clarify design intent or incorporate technical provisions provided by USACE. In the event that comments are more significant and require redesign, NHC will coordinate with United to define the scope of work and budget required.

Deliverables:

- Comment-Response Table for USACE comments
- Final Design Report and “Issued for Construction” Project Plans

Schedule:

The schedule will be established with United after comments are received from USACE.

Costs:

The work will be completed on a time and materials basis according to current rate schedules for NHC and Gannett Fleming. The total costs are estimated at \$49,460. This cost is in addition to our current remaining budget.

We appreciate the opportunity to submit this proposal and look forward to continued work with United on the conveyance system.

Sincerely,

Northwest Hydraulic Consultants Inc.

A handwritten signature in blue ink that reads "Edward E. Wallace" followed by a horizontal flourish.

Edward E. Wallace, P.E.
Principal

NHC COST PROPOSAL

| | |
|--|--|
| PROJECT: PROJECT NO: CLIENT: DATE: BY: | Freeman Diversion Three Barrel Culvert 5005686 United Water 22-Apr-24 ew |
|--|--|

| Task No | Task Description | NHC Personnel | | | Labor Cost | Subcons Cost | Direct Cost | Task Cost |
|---------------|--------------------------------------|---------------|---------------|----------------|------------|--------------|-------------|-----------|
| | | pe2 310.00 | pe3 290.00 | spe1 290.00 | | | | |
| 1 | Coordinate with USACE | 2 | | 22 | \$7,000 | \$16,960 | \$0 | \$23,960 |
| 2 | Prepare Final Construction Documents | 2 | | 20 | \$6,420 | \$19,080 | \$0 | \$25,500 |
| | Specifications | | | | \$0 | \$0 | \$0 | \$0 |
| | Design | | | | \$0 | \$0 | \$0 | \$0 |
| | Review | | | | \$0 | \$0 | \$0 | \$0 |
| | PM | | | | \$0 | \$0 | \$0 | \$0 |
| | | | | | \$0 | \$0 | \$0 | \$0 |
| <i>Totals</i> | | 4 | 0 | 42 | \$13,420 | \$36,040 | \$0 | \$49,460 |

SCHEDULE OF STANDARD CHARGES

Effective January 2024

| Labor Category | Fee Rate (\$US/hour) |
|---|----------------------|
| Principal | 310 |
| Principal T3 / Sr. Project Engineer 1 | 290 |
| Sr. Project Engineer/Scientist 2 | 260 |
| Sr. Engineer/Scientist 1 | 220 |
| Sr. Engineer/Scientist 2 | 205 |
| Engineer/Scientist 1 | 185 |
| Engineer/Scientist 2 | 160 |
| Jr. Engineer/Scientist | 140 |
| GIS Analyst 1 | 165 |
| GIS Analyst 2 | 135 |
| Sr. CAD Designer | 175 |
| CAD Designer | 135 |
| Sr. Engineering Technician | 160 |
| Engineering Technician 1 | 145 |
| Engineering Technician 2 | 135 |
| Jr. Engineering Technician | 105 |
| Sr. Engineering Lab Technician | 165 |
| Engineering Lab Technician | 135 |
| Sr. Contract Administrator | 260 |
| Sr. Technical Editor | 150 |
| Technical Editor | 135 |
| Office Administrator/Contract Administrator | 105 |

Labor costs subject to annual escalation adjustment to reflect cost of living and merit salary increases. Refer to separate schedules for field and laboratory equipment charges.

Handling Charges / Fees

| | |
|------------------------------------|-----|
| Markup on Subconsultants..... | 10% |
| Markup on Reimbursables | 10% |
| Markup on Travel/Subsistence | 10% |

Plotting \$/sheet

| | |
|--------------------------------------|--------|
| Plots, bond, 11 x 17 | \$2.00 |
| Plots, bond, D size | \$4.00 |
| Plots, oversize (running foot) | \$2.00 |

Photocopies \$/sheet

| | |
|---------------------|--------|
| B&W 8½ x 11 | \$0.10 |
| B&W 11 x 17 | \$0.15 |
| Color 8½ x 11 | \$1.00 |
| Color 11 x 17 | \$2.00 |



STAFF REPORT

To: Engineering and Operations Committee Members

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

From: Dr. Maryam Bral, Chief Engineer
Robert Richardson, Principal Engineer
Adrian Quiroz, Engineer

Date: April 22, 2024 (May 2, 2024, meeting)

Agenda Item: **3.3 Authorize a Supplemental Appropriation of Funds for the Iron and Manganese Treatment Project (CIP 8007)**
Motion

Staff Recommendation:

Review and consider recommending to the full Board of Directors that it authorizes a supplemental appropriation of \$344,126 for the Iron and Manganese Treatment Project (CIP 8007) at its regular May 15, 2024, meeting.

Background:

In June 2018, the Iron and Manganese Treatment Project ("Project") was selected by the United States Bureau of Reclamation (USBR) for \$300,000 in grant funding under the WaterSMART Drought Response Program. In September 2020, the Project was selected by the California Department of Water Resources (DWR) for \$2.5 million in grant funding as one of five projects that received funding submitted by the Watersheds Coalition of Ventura County under Prop 1 Integrated Regional Water Management (IRWM) Implementation Grant Program. Combined, \$2.8 million in grant funding was secured before soliciting the project for construction bids.

On July 12, 2021, the District submitted a pre-application for \$4,371,450 in federal assistance under the Defense Community Infrastructure Program (DCIP) issued by the Department of Defense's (DOD) Office of Local Defense Community Cooperation (OLDCC). On September 21, 2021, the District received notice through Congresswoman Julia Brownley's Office that the OLDCC approved a federal grant in the amount of \$4,230,133 to the District under the DCIP and the grant agreement was fully executed on September 23, 2021. Under financial assistance law and authorizing legislation, utilization of multiple Federal funding sources to cover the same scope of work is not allowed. Therefore, the District submitted a letter to the USBR on October 3, 2022, requesting

3.3 Authorize a Supplemental Appropriation of Funds for the Iron and Manganese Treatment Project (CIP 8007)

cancellation of the \$300,000 grant assistance agreement for the Project in order to receive the DCIP grant.

The DCIP grant agreement includes special terms and conditions (i.e., DOD's National Policy Requirements) which requires compliance with the Buy American Act (BAA) (Title 41, Chapter 83 of the United States Code) for all construction projects. The BAA which relates to Federal procurements or Federal financial assistance requires that goods, products, and materials be produced in the United States, including iron, steel, and manufactured goods; with some waivers and exemptions noted.

In January 2021, Kennedy/Jenks Consultants (K/J) completed the final stamped and signed plans, specifications, and estimate for the Project. On May 14, 2021, the District solicited the Project and received four (4) construction bids. On July 14, 2021, the District's Board of Director's awarded three contracts: (1) Construction Management and Inspection Services contract to HDR Engineering, Inc. (HDR) in the amount of \$701,956; (2) Design Services During Construction Contract to K/J in the amount of \$537,448; and (3) Construction Contract to GSE Construction Company, Inc. (GSE) in the amount of \$9,342,900. An Administrative Notice to Proceed was issued to GSE on September 20, 2021. A Construction Notice to Proceed was issued to GSE on November 9, 2021, with a construction commencement date of November 29, 2021, and construction completion date of January 3, 2023.

The Contract Documents for which contractors placed their construction bids was prepared before the OLDCC's federal funding opportunity was solicited and did not include the BAA requirement. On August 30, 2021, the District issued Work Directive Change (WDC) No. 1 that notified GSE of the invitation to apply for a DCIP grant and that the special conditions included compliance with the BAA. On December 28, 2021, the District's Board of Directors authorized the General Manager to approve change orders proposed by GSE in response to the BAA requirement up to one million dollars (\$1,000,000). There have been (4) Change Orders (COs) approved in the total amount of \$662,910.19 that are related to compliance with the BAA requirement. On January 11, 2023, the Board of Directors approved a supplemental appropriation of \$1.5 million to complete the project to cover BAA, the loss of the USBR grant, and some contingency for unforeseen expenditures.

Construction is now substantially complete. On April 10, 2024, the Contractor started their contract required 30-calendar day performance period which is anticipated to end on May 9, 2024. Additionally, the District has committed to running the iron and manganese treatment plant for a period of three (3) months (or by July 10, 2024) to demonstrate the

3.3 Authorize a Supplemental Appropriation of Funds for the Iron and Manganese Treatment Project (CIP 8007)

efficacy of the new facilities and reduce sampling requirements in reporting to the Division of Drinking Water (DDW) per the Domestic Water Supply (DWS) Permit requirements. Both the IRWM and DCIP grants require project completion by July 31, 2024, including all grant deliverables.

Discussion:

In Fiscal Year 2023-2024, the total Capital Improvement Project (CIP) Budget Allocation was \$14,221,954. As of April 22, 2024, the total expenses for the project are \$13,610,932. To complete the project, an additional \$954,148 in expenses is anticipated, increasing the total expenses for the project to \$14,565,080. This results in a budget shortfall of \$343,126. The complete breakdown of current and projected expenses is provided in **Table 1**, and calculation of the budget shortfall is provided in **Table 2** below.

Table 1 - Current vs. Projected Expenses

| Type | Current Expenses | Projected Expenses | Total Projected Expenses |
|------------------------|---------------------|--------------------|--------------------------|
| Project Administration | \$764,267 | \$48,587 | \$812,854 |
| Design | \$1,452,960 | \$17,015 | \$1,469,974 |
| Survey | \$24,240 | - | \$24,240 |
| Geotechnical | \$23,417 | - | \$23,417 |
| CEQA/Permits | \$32,534 | - | \$32,534 |
| Equipment | \$52,209 | - | \$52,209 |
| Construction | \$11,261,305 | \$888,546 | \$12,149,851 |
| Totals | \$13,610,932 | \$954,148 | \$14,565,080 |

Table 2 - CIP Budget Summary

| Description | Amount |
|--------------------------|------------------|
| FY 2023-24 CIP Budget | \$14,221,954 |
| Current Expenses | \$13,610,932 |
| Projected Expenses | \$954,148 |
| Total Projected Expenses | \$14,565,080 |
| Budget Shortfall | \$343,126 |

A major reason for the increase in construction expenses relates to the forty-four (44) change orders received on the project. The original construction contract was in the amount of \$9,342,900. The total cost of change orders is \$1,355,161 or 14.5% percent of the original construction contract (see **Table 3** for the complete breakdown). Due to the

3.3 Authorize a Supplemental Appropriation of Funds for the Iron and Manganese Treatment Project (CIP 8007)

OLDCC DCIP grant received after construction contract award, change orders were issued to comply with the Buy American Act (BAA) in the amount of \$662,910 or 7.1% of the original construction contract.

Another reason for change orders was related to design and construction conflicts amounting to \$718,602 or 7.7% of the original construction contract. These change orders varied in scope and cost with some of the largest being upsizing of the chemical disinfection lines, air scour system modifications, chlorine building water line relocation and other utility relocations.

Lastly, the District issued a few work directives related to desired changes (e.g. new blow-off assembly and additional asphalt pavement work) to the project in the amount of \$280,717 or 3% of the original construction contract. It should be noted that Change Order No. 39 included replacement of the majority of existing asphalt pavement at the El Rio Water Treatment Plant in the amount of \$224,960.95 which was funded by a separate project (OH Pipeline Vales Project) and therefore the total impact of these District issued work directives to the CIP Budget was \$55,756 or 0.6% of the original construction contract.

The District also received credits for consolidation or removal of elements to the project (e.g. utilization of existing conduits) in the amount of \$82,108 or 0.9% of the original construction contract.

Table 3 - Construction Contract Change Orders

| Description | Cost | % of Original Contract |
|------------------------------|---------------------|-------------------------------|
| Original Contract | \$9,342,900 | 100.0% |
| Buy American Act Compliance | \$662,910 | 7.1% |
| Design/Construction Conflict | \$718,602 | 7.7% |
| District Work Directive | \$55,756 | 0.6% |
| Credits | \$(82,108) | -0.9% |
| Total | \$10,698,061 | 114.5% |

The District had originally prepared the CIP budget with the intention to use internal staff resources for field observation and inspection during construction. However, internal staff time was best utilized across multiple projects and certain inspections require specialized training. Therefore, the District procured the services of Filippin Engineering, Inc. for field observation and inspection services and the total expenses incurred were in the amount of \$210,117.

3.3 Authorize a Supplemental Appropriation of Funds for the Iron and Manganese Treatment Project (CIP 8007)

The original construction contract period was 400 calendar days ending on January 3, 2023. This has been extended through several change orders due to utility relocation, long-lead equipment, inclement weather, and repair delays as outlined in **Table 4**. The current construction contract expired on October 31, 2023, per Change Order No. 38.

Table 4 - Construction Completion Date

| Contract/Change Order No. | Description | Construction Completion Date |
|----------------------------------|--|-------------------------------------|
| Construction Contract | Original Contract Period (400 calendar days) | January 3, 2023 |
| No. 16 | Removal and Replacement of 6-inch Water Service to Disinfection Building (+9 calendar days) | January 12, 2023 |
| No. 17 | Upsizing of chemical disinfection lines (+9 calendar days) | January 21, 2023 |
| No. 26 (no cost) | Delays due to inclement weather (+11 calendar days) and Vertical Turbine Pump procurement delay (+138 calendar days) | June 19, 2023 |
| No. 32 (no cost) | Additional inclement weather (+4 calendar days) and Vertical Turbine Pump procurement delays (+21 calendar days) | July 20, 2023 |
| No. 38 (no cost) | Filter vessel coating repairs and remobilization of filter vessel manufacturer to install filter media. | October 31, 2023 |

The construction contract period has not been extended following two (2) additional delays related to the air scour system and 24-inch filtered water valve repair.

On September 8, 2023, during start-up operations, it was observed by the Contractor that the air scour system blower had an excessive power draw more than the manufacturer's guidelines. The issue was finally resolved on March 11, 2024 through a series of modifications and trial and error testing including: (1) programming changes, (2) removal of slow-closing surge protection valves on the combination air valves (CAVs) on the filter vessels, (3) doubling the number of CAVs on each filter vessel, (4) installing electrically actuated filter vent valves, and (5) blower soft start bypassing.

3.3 Authorize a Supplemental Appropriation of Funds for the Iron and Manganese Treatment Project (CIP 8007)

On January 31, 2024, during start-up operations, it was observed by the Contractor that a buried 24” butterfly valve in line of the Filtered Water (FW) pipeline would not open preventing the delivery of treated water into the distribution system. On February 23, 2024, the Contractor uncovered the 24” FW valve and replaced the gearbox but the valve was still inoperable. On April 4, 2024, the Contractor replaced the 24” FW valve and confirmed its operability. On April 9, 2024, the Contractor successfully started the plant and the first treated water was delivered to the distribution system. On April 10, 2024, the Contractor’s 30-calendar day “on call” support started to adjust, repair, and correct deficiencies as required to keep the facilities in continuous operation. It is anticipated this period will end on May 9, 2024.

The Design Engineer’s (K/J) contract expired on June 30, 2023, per Amendment No. 2. K/J submitted an amendment proposal requesting an additional \$51,815 due to the extended contract time and services. K/J has also offered a \$60,000 credit in response to design conflicts. The Construction Manager’s (HDR Engineering, Inc.) contract expired on December 31, 2023, per Amendment No. 4. HDR submitted an amended proposal requesting an additional \$38,479 due to the extended contract time and services. Both amendment proposals are under review and negotiation by District staff.

Lastly, the City of Camarillo elected not to move forward with their project, the Reclaimed Water Storage Reservoir (Project 4) which had received \$2 million in IRWM grant funding. The Calleguas Municipal Water District (grant administrator for the IRWM grant) submitted a Request for Amendment No. 4 that would redistribute the \$2 million among three projects and potentially bring an additional \$620,887 in grant funds to the Project which would help offset the \$343,126 budget shortfall.

Fiscal Impact:

Approval of this item would result in a supplemental appropriation of \$343,126 which includes a 30 percent contingency in the amount of \$103,000. This proposed appropriation was not budgeted for the Fiscal Year 2023-24 CIP budget and will require a supplemental appropriation from the Reserve funds from the Oxnard Hueneme Pipeline Fund (\$343 thousand).



STAFF REPORT

To: Engineering and Operations Committee Members

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

From: Dr. Maryam Bral, Chief Engineer
Robert Richardson, Principal Engineer
Dr. Zachary Hanson, Water Resources Engineer

Date: April 25, 2024 (May 2, 2024, Committee Meeting)

Agenda Item: **3.4 Authorize General Manager to Award a Construction Management and Inspection Services Contract for Phase 1 of the PTP Recycled Water Connection - Laguna Road Pipeline Project (CIP 8043)**
Motion

Staff Recommendation:

Review and consider recommending approval of the motion item to the full Board that considers authorizing the General Manager to award a construction management and inspection services contract to the most qualified proposer, as recommended by staff, in support of the Phase 1 of the PTP Recycled Water Connection - Laguna Road Pipeline Project (CIP 8043).

Discussion:

This project includes the design and construction of approximately 3,200 linear feet of a new 24-inch diameter pipeline along Laguna Road. The new pipeline would connect the PTP System to the Pleasant Valley County Water District (PVCWD)'s new pipeline that is currently under construction. The PTP new pipeline will be connected to the PCVWD new pipeline at the intersection of Wood Road and Laguna Road.

Michael K. Nunley & Associates (MKN) completed the 60% design documents including the plans and technical specifications in March 2024. MKN is currently developing the 100% (final) design documents and will submit the documents for District Staff review by May 21, 2024. At this time, the selected construction manager will be available under contract with the District to perform an independent review of the final design documents to evaluate constructability and biddability of the project before the plans are issued for the construction bidding process.

3.4 Authorize General Manager to Award a Construction Management and Inspection Services Contract for Phase 1 of the PTP Recycled Water Connection - Laguna Road Pipeline Project (CIP 8043)
Motion

The District issued a Request for Proposals on April 4, 2024, and solicited proposals from four (4) selected consultants, including HDR, MNS Engineers, Mott MacDonald, and Phoenix Civil Engineering. Proposals were received by the due date, May 1, 2024. A pre-proposal meeting was held at the project site on April 10, 2024. All four consultants attended the meeting.

Based on the information and project references requested to be a part of the proposals, staff expect to have verified the selected firm's competency, capability, and satisfactory experience to perform the work. Considering the proposals due date on May 1, 2024, May Committee meeting on May 2, 2024, and May Board of Directors (BOD) meeting on May 15, 2024, staff anticipates providing a verbal briefing to the Committee regarding the number of proposals and associated proposed fees received on May 2, 2024. Details regarding the selected firm and fee will be available for presentation at the May BOD meeting prior to approval of the motion.

Staff recommends that the Committee recommend the full Board to authorize the General Manager to award a professional consulting services agreement to the most qualified proposer, as recommended by Staff, to provide construction management and inspection services related to the Phase 1 of the PTP Recycled Water Connection - Laguna Road Pipeline Project.

Mission Goal:

Meets mission-related Goal A (Water Supply) and Goal B (System Reliability).

Fiscal Impact:

The anticipated adopted fiscal year (FY) 2024-25 CIP Budget for this project will include sufficient funding to cover the projected construction management and inspection services and construction costs incurred in the FY 2024-25. The anticipated cost related to the design, construction management and construction activities will be partially offset by a DWR Sustainable Groundwater Management grant of \$2.652 million.



STAFF REPORT

To: Engineering and Operations Committee Members

Through: Mauricio E. Guardado Jr., General Manager

From: Maryam A. Bral, Chief Engineer
Robert J. Richardson, Principal Engineer
Nathan Summerville, Senior Engineer
Adrian Quiroz, Engineer
Kaili Taniguchi, Engineer

Date: April 25, 2024 (May 2, 2024, meeting)

Agenda Item: 4.1 Monthly Engineering Department Report
Information item

Staff Recommendation:

The Engineering and Operations Committee members will receive this summary report from the Engineering Department regarding its activities for the months of March and April 2024.

Discussion:

1. Santa Felicia Dam Safety Improvement Project

- Spillway Improvement Project
 - No updates to report.
- Outlet Works Improvement Project
 - On March 28, 2024, FERC issued a letter accepting the District's October 31, 2024, proposed schedule for the SFD SIP, with comments. The District plans to resubmit a revised schedule reflecting the recent developments in the environmental permitting process no later than August 06, 2024.
- Design PFMA – 90% Outlet Works and 60% Spillway
 - Design PFMA Workshop - The design PFMA workshop was conducted at District HQ from January 22 - 25, 2024, and two virtual overflow days were conducted on February 2, 2024, and February 5, 2024. An additional 8-hour virtual overflow session was required which was held on March 11, 2024, to finalize the PFMs that were identified but could not be fully developed during the previous workshops in January and February. A Design PFMA Summary Report will be prepared by Black and Veatch (BV) and was submitted to the District for District staff, design consultant and Subject Matter Expert review on

4.1 Monthly Engineering Department Report Information Item

April 9, 2024. The final report is expected to be submitted to FERC in May/June 2024.

- FERC License Amendment Application, NEPA Documentation and the Endangered Species Act Section 7 Consultation
 - Please see the monthly Environmental Services Department staff report for additional updates.
- Loan and Grant Applications
 - On March 26, CalOES informed staff via email that they ranked the Spillway Improvement Project number two out of five in their submission to FEMA under the Flood Mitigation Assistance (FMA) Program.

2. Lake Piru Recreation Area Facility Improvement Project (FIP)

- Field land survey activities for the topographic survey in support of the 30% Design for the FIP were completed on April 19, 2023.
- Geotechnical boring in support of the 30% Design for the FIP has been scheduled for May 3, 2024. District Staff will support this activity by identifying utilities in surrounding areas.

3. Freeman Diversion Expansion

- Staff continue to meet with the special advisors and consultants to provide data to be used in their sediment model.
- Staff met with Northwest Hydraulic Consultants, and the special advisor in the field to better understand current Freeman operations and the changes to the river morphology due to recent storms.
- Please see the Monthly Environmental Services Department Report for updates on the Project's environmental compliance and permitting process.

4. Iron and Manganese Treatment Facility

- Change Order No. 43 has been partially executed by GSE Construction Company, Inc. in the amount of \$21,387.56 which includes four (4) contractor change events: (1) CE No. 63 – Chlorination Valves Power Modifications per RFI No. 130, (2) CE No. 70R1 – Change Air Scour Valve Actuator Control Voltage per RFI No. 134, (3) CE No. 74R1 – Install Power Conduit and Wire for Fire Alarm Bell, and (4) CE No. 77 – Provide Additional System Integration Programming.
- GSE's work in this reporting period included the following:
 - Punchlist Items
 - Supervision of Regular Filter Backwashing by O&M Staff
 - Installation of refurbished 24" Filtered Water Butterfly Valve was completed on April 04, 2024. (Figure 1).
- The three-month operational period to comply with the Division of Drinking Water (DDW) requirements for demonstrating full treatment efficacy started on April 10, 2024. GSE's 30-day O&M support period also started on this date. As of April 22,

4.1 Monthly Engineering Department Report Information Item

2024, approximately 24.7 acre-feet of water have been delivered to the OH system from the Iron and Manganese Treatment Plant.

5. PTP Metering Improvement Project

- Hamner, Jewell and Associates is assisting in the acquisition of eight (8) outstanding utility easement deeds with a current focus on Turnout Nos. 107, 120, 145, 150 and 156.
- Staff is working to acquire eight (8) battery operated meters (3x6", 3x8", 2x10") to complete the remaining turnouts without impact.
 - Total number of meters installed: 53 of 60 or 88.3% complete.
 - Easement acquisition completion: 33 of 41 obtained or 80.5% complete.

6. PTP Recycled Water Connection – Laguna Road Pipeline Project

- March 11th - MKN Associates submitted the draft 60% design plans and specifications related to the pipeline. Staff reviewed and provided comments.
- March 14th - Staff and the GM discussed the draft UWCD-PVCWD recycled water agreement and rate structure.
- March 19th – UWCD and PVCWD staff met to discuss the draft recycled water delivery agreement and rate structure.
- March 21st – UWCD and MKN met to discuss next steps in the pump station design.
- April 17th – ESD staff circulated an Initial Study, Mitigated Negative Declaration for the PTP Recycled Water Connection Laguna Road Pipeline Project. The CEQA document is posted for a 30-day public review period, April 17 through May 17, 2024.

7. Rice Avenue Grade Separation Project and Impact on PTP

- No update to report.

8. State Water Project (SWP) Interconnection Pipeline Project

- The City of Ventura has completed their review of the 90% design documents and expects to receive the 100% of final design documents from Stantec (design engineer) by May 2024.

9. Freeman Conveyance System Upgrade - Freeman to Ferro

- Staff provided plans and application materials to Ventura County Watershed Protection to continue the permitting efforts with Ventura County and the Army Corp of Engineers for the Three Barrel Culvert Replacement Project.
- Staff attended a preconstruction meeting with Granite Construction for the Inverted Siphon Replacement Project and provided Administrative Notice to Proceed.
- Staff received a proposal for engineering services during construction from Gannett and Flemming, the Engineer of Record for the Inverted Siphon Project.

4.1 Monthly Engineering Department Report Information Item

- Staff solicited bids for a temporary bypass pumping system from three suppliers to allow continued water deliveries during construction.
- The application package to tunnel beneath Vineyard Avenue and connect Noble Basin to Ferro Basin was submitted to Caltrans. District Staff are reviewing the 60% design package.
- Quarterly reports and invoices were prepared for the Sustainable Groundwater Management Agency Grant and the Prop 1 Integrated Regional Water Management Grant, which support the Freeman Conveyance System Upgrade.

10. Extraction Barrier and Brackish Water Treatment Project

- Grants:
 - The Office of Local Defense Community Cooperation has solicited proposals for the FY24 Defense Community Infrastructure Program (DCIP) and staff is preparing application materials including requests for letters of support.
 - The District is currently working with the State Water Resources Control Board (SWRCB) Division of Financial Assistance (DFA) staff in development of a grant agreement for the \$8,449,062 Groundwater Grant Program (GWGP) grant that was approved on March 6, 2023, for the Phase 1 project. Execution of the grant agreement is anticipated by May 2024.
- CEQA/NEPA/Permits:
 - Please see the Monthly Environmental Services Department Report for updates on the Project's environmental compliance and permitting process.
- Geotech/Hydrogeology:
 - April through May – Geotechnical borings will be carried out at various locations on NBVC Point Mugu.
- Land Surveying:
 - Utility locating work completed (except EBB3 location)
 - Topo survey complete (except EBB3 location)

11. Asset Management/ CMMS System

- Staff continued to coordinate with a non-destructive testing vendor to pilot condition assessment of the OH Pipeline.

12. OH Water Well No.20

- No updates to report.

13. OH Well 14 Energy Efficiency Upgrade

- District staff provided comments for the Preliminary Design Report and 30% plans to MNS, the design consultant.

4.1 Monthly Engineering Department Report Information Item

14. California American Water (CalAm) Emergency Use Interconnection to the OH Pipeline

- CalAM is planning to start work in Simon Way in June 2024. The District and CalAM will closely coordinate the construction activities related to the emergency connections to the OH Pipeline that requires the OH Pipeline shutdown. The OH Pipeline shutdown that is expected to take place in December 2024 will be closely coordinated with the District customers at the minimum two weeks prior to the shutdown.

15. Other Topics, Meetings and Training

- Between March 26 -28, 2024, when the reservoir elevation ranged between 1053.2 and 1053.35', seepage and wet spots reappeared on the Santa Felicia Dam Spillway until the reservoir was lowered to about 1052.9' on March 29, 2024. On April 1, 2024, the reservoir elevation rose again to about elevation 1053.5' and remained above this level until April 7, when it dropped to elevation 1053.3' and dropped further to elevation 1053.0' on April 8, 2024. Seepage was observed continually during this time frame. Seepage has not been observed on the spillway since April 07, 2024. On April 10, 2024, Engineering and O&M Staff conducted a thorough inspection of the SFD Spillway Seepage.
- On April 20, Maryam Bral participated in a tour of St. Francis Dam organized by Project Partners, Inc. (Figure 2).
- Maryam Bral, Adrian Quiroz and Kaili Taniguchi attended the United States Society on Dams (USSD) 2024 annual conference and exhibition in Seattle, WA from April 23 to April 24. Three technical papers on Santa Felicia Dam co-authored by the District and GEI Consultants were presented at the Conference (Figure 3).
- On May 13, the Engineering Department will welcome Ms. Sonja Flores the new Engineering Assistant to the Department.

**4.1 Monthly Engineering Department Report
Information Item**



Figure 1 – Installation of Refurbished 24” FW Valve.



Figure 2 – United’s Chief Engineer attended the St. Francis Dam Tour on April 20.

4.1 Monthly Engineering Department Report Information Item



Figure 3 – USSD 2024 Annual Conference & Exhibition



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

Date: April 25, 2024 (May 2, 2024, meeting)

Agenda Item: 4.2 Monthly Environmental Services Department Report
Information Item

Staff Recommendation:

The Engineering and Operations Committee members will receive this summary report from the Environmental Services Department regarding activities for the months of March and April 2024.

Discussion:

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

- Santa Felicia Dam Safety Improvement Project (SFDSIP)

On March 28, 2024, FERC issued a formal Notice of Intent to Prepare an Environmental Assessment as part of the National Environmental Policy Act (NEPA) process for the SFDSIP.

- 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 total

4.2 Monthly Environmental Services Department Report Information Item

precipitation as of March 1, 2024, met the triggers for elevated habitat releases for the water year. The minimum required habitat water release for the month of May is 10 cfs.

| Habitat water release trigger date | Trigger criteria (total cumulative precipitation on trigger date) | Minimum required water release if trigger is met | 2024 Measured cumulative precipitation | Actual minimum required habitat water release for month |
|------------------------------------|---|--|--|---|
| January 1 | 4.80 inches | 15 cfs | 4.64 inches | 7 cfs |
| February 1 | 8.10 inches | 20 cfs | 7.82 inches | 7 cfs |
| March 1 | 12.00 inches | 20 cfs | 21.12 inches | 20 cfs |
| April 1 | 14.90 inches | 20 cfs | 26.63 inches | 20 cfs |
| May 1 | 16.30 inches | 10 cfs | 28.21** inches | 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 as of April 22, 2024.

- **Santa Felicia Fish Passage Pre-Implementation Studies**

Throughout the month of April, both fish traps (rotary screw and fyke) continued to operate in middle Piru Creek as flows and access allowed. High flows and hazardous road conditions due to storm activity continue to periodically limit trap operations, site access, and have prevented repair of one passive integrated transponder (PIT) antenna that was damaged and partially buried during a mid-February storm. In accordance with the project permits, Environmental Services staff (ES) completed sensitive species surveys on April 11, 18, and 23, in support of relocating the rotary screw trap to improve trap efficiency, completed on April 23, 2024.

- **Habitat Improvement Plan (HIP): FERC License Article 401(a)**

On April 9, 2024, FERC approved United's March 8, 2024, six-month extension of time request to file a National Marine Fisheries Service (NMFS) approved HIP with FERC. United provided a seventh iteration draft Lower Piru Creek HIP for the Santa Felicia Project (FERC Project No. 2153) to NMFS for review and approval on May 8, 2023, as required prior to filing a NMFS-approved HIP with FERC. On April 8, 2024, NMFS provided United a comment letter on the HIP including recommended revisions.

2. Freeman Diversion Operations

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

During the month of April, ES supported Freeman Diversion operations and maintenance activities by coordinating with and providing notifications to resource agencies as needed, conducting surveys of dewatered areas, and providing on-site biological monitoring. The fish ladder and surveillance system have remained in operation, except for brief interruptions due to storm impacts and flushing operations, since the Sespe trigger was met in late January.

On April 6, 2024, a cowbird trap was deployed by Griffith Wildlife Biology near the north abutment of the Freeman Diversion. The trap will be operated for a 91-day period as the second year of a three-year mitigation program in accordance with a Lake or Streambed Alteration Agreement (LSAA) issued by the California Department of Fish and Wildlife (CDFW) for a 2022 sediment management project at the Freeman Diversion.

On April 15, 2024, ES submitted revisions to CDFW's draft LSAA for Freeman Diversion Routine Maintenance activities.

On April 23, 2024, a single Pacific Lamprey successfully traversed the lamprey passage system at the Freeman Diversion. This represents the first individual to utilize that specific system since its installation in January 2019.

3. Freeman Diversion Multiple Species Habitat Conservation Plan (MSHCP)

On April 3, 2024, United attended a mediation meeting with special master Judge Smith, NMFS, and CDFW to address unresolved issues and determine next steps regarding the proposed fish passage improvements, the MSHCP, California Environmental Quality Act (CEQA) document and regulatory applications.

On April 9, 2024, ES submitted the Freeman Diversion MSHCP and CEQA document along with an application for incidental take to NMFS and the US Fish and Wildlife Service (USFWS). Staff also submitted regulatory applications including a Clean Water Act (CWA) section 404 application to the U.S. Army Corps of Engineers, CWA Section 401 application to the State Water Resources Control Board, and a Notification of Lake or Streambed Alteration to CDFW in accordance with court order requirements.

4. Quagga Mussel Management

Throughout the month of April, ES continued conducting quagga mussel monitoring activities on Lake Piru, lower Piru Creek, and the spillway pool in accordance with the Quagga Mussel Monitoring and Control Plan.

ES also continued quagga mussel veliger (larva) sampling in United's lower system. United staff continues to meet regularly with Pleasant Valley County Water District.

5. Capital Improvement Project Permitting and CEQA Support

During the month of April, ES continued to support Engineering staff with environmental permitting and CEQA compliance for multiple projects.

4.2 Monthly Environmental Services Department Report Information Item

On April 17, 2024, ES circulated an Initial Study, Mitigated Negative Declaration for the PTP Recycled Water Connection Laguna Road Pipeline Project. The CEQA document is posted for a 30-day public review period, April 17 through May 17, 2024.

ES developed a CEQA Notice of Exemption (NOE) for the Santa Felicia Dam 72-inch Butterfly Valve Redundancy Project. The Project is categorically exempt from review under CEQA pursuant to State CEQA Guidelines (Cal. Code Regs., tit. 14, § 15000 et seq.) Section 15301 “Existing Facilities” (Class 1) and Section 15303 “New Construction or Conversion of Small Structures” (Class 3). The CEQA NOE will be brought to the May Board of Directors meeting for consideration of adoption.

On April 17, 2024, Rincon Consultants conducted cultural surveys in the Noble and Ferro Basins for the Groundwater Recharge Capacity Expansion Project (Vineyard Undercrossing Project). On April 25, 2024, ES initiated the Assembly Bill 52 (AB-52) tribal consultation process by notifying all Native American tribes listed on the Project’s Native American Contact List from the Native American Heritage Commission. AB-52 consultation is a requirement under CEQA.

On April 22, 2024, United provided the Extraction Barrier and Brackish Water Treatment Project Description of the Proposed Action and Alternatives to the US Navy, moving the NEPA consultation forward for the project. Next, United’s consultant will draft the full NEPA document.

6. Miscellaneous

- On April 1, 2024, ES submitted a comment letter to the Fish and Game Commission and CDFW Fisheries Branch staff in advance of a California Endangered Species Act (CESA) listing decision for southern California steelhead rainbow trout at the April 18, 2024, Fish and Game Commission meeting.
- On April 4, 2024, ES attended a Ventura River Watershed Council meeting.
- On April 10, 2024, ES attended an orientation and training hosted by USFWS as a kick-off meeting for participating in their 2024 watershed wide least Bell’s vireo point count surveys. From April – June 2024, ES staff will conduct point count surveys at approximately 10 locations in the lower Santa Clara River in collaboration with the USFWS.
- On April 11, 2024, ES represented United at an Environmental Science and Resource Management career fair hosted at California State University Channel Islands.
- On April 16, 2024, ES participated in a rare plant survey training led by Randall McInvale. ES surveyed rare plants in the SFDSIP footprint as part of compliance requirements.
- On April 16 and 17, 2024, ES assisted researchers from UC Davis in collecting partially armored threespine stickleback (*Gasterosteus aculeatus microcephalus*) from the lower Santa Clara River for a thermal tolerance scientific study they are conducting.

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

- On April 18, 2024, the California Fish and Game Commission voted unanimously to list southern California steelhead rainbow trout as endangered under CESA.

STAFF REPORT

To: Engineering and Operations Committee Members

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

From: Craig Morgan, Chief Operations Officer
Randy Castañeda, Operations Supervisor — Water Treatment
J.D. Smallwood, Operations Supervisor — Water Distribution

Date: April 25, 2024 (May 2, 2024, meeting)

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

Staff Recommendation:

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

1. Water Releases, Diversions

- Lake Piru fell to **0.52 feet in April**. Levels peaked at **79,700** acre-feet (AF) of storage and are currently increasing primarily due to storm inflows.
- **7,770** AF of water was diverted by the Freeman Diversion facility in **February**.
- **5,565** AF of water was delivered to the Saticoy recharge basins in **February** (metered plus unmetered, including Noble and Rose Basins).
- **2,073** AF of surface water was delivered to the El Rio recharge basins in February.
- 119 AF of surface water was delivered to the PTP system in February.
- 0 AF of surface water was delivered to C customers in February.
- 0 AF of surface water was delivered to Pleasant Valley County Water District in January.

2. Major Facilities Update

- **Santa Felicia Dam**
 - On **April 1st, 2024**, the lake level was **1053.50** and reached a peak of **1053.70** on **April 5, 2024**.
 - Santa Felicia Dam release flows varied from **198–404** CFS throughout **April** due to multiple Migration Releases initiated by rainfall throughout the county.
 - Discing / weed abatement activities are ongoing and continuing at the Piru Spreading Grounds.
 - SFD monthly inspection for April has been completed.
 - Saticoy staff assisting with Santa Felicia Dam activities and inspections as part of our cross-training program.
 - Herbicide applications are ongoing and continuing at SFD.

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

- Siren test was held and completed on Friday, April 5th with assistance from CalOES.
- **Freeman Diversion, Saticoy, and El Rio Recharge Facilities**
 - District staff operated the Freeman Diversion throughout the month of April, harvesting increased Santa Clara River flows due to storm events, accommodating fish ladder by-pass flows, recharging basins, and delivering surface water to El Rio, PTP and PV pipelines.
 - Freeman roller-gate maintenance completed on 4/11/24 by R&B Automation.
 - The Saticoy Team successfully repaired Traveling Screen #2 at the Micro Screen Building with assistance from T&T Crane on 4/4/24.
 - Discing / weed abatement activities are underway and ongoing throughout the Saticoy facility.
 - Herbicide application tasks are ongoing and continuing near the Freeman Diversion and the Saticoy Spreading Grounds / Noble Basins.
 - Static water levels (distance of water from the well pad to the water table):

| | 2024 | 2023 | 2022 |
|---------|-------------|-------------|-------------|
| Saticoy | 26' | 18' | 116' |
| El Rio | 62' | 105' | 138' |
| PTP | 56'-89' | 78'-106' | 105-145' |

- **Oxnard-Hueneme (OH) Delivery System**
 - EL Rio staff monitored contracted installation of new 6" OH pipeline pressure relief line that runs through EL Rio parking lot.
 - Operators conducted multiple backwash and filtering operations at EL Rio Fe/Mn Plant as part of the 90-day testing requirement by DDW.
 - Operators, in conjunction with Argo Chemical staff, performed cleaning of EL Rio aqua ammonia storage tank.
 - Staff continued pumping water out of EL Rio spreading basins to dry them out so earthwork could be performed to improve percolation rates.
 - Operators completed annual preventative maintenance check of EL Rio 16" VFD check valves.
 - Staff assisted with removal of old EL Rio break room trailer and prepared site for new model.
- **Pleasant Valley County Water District (PVCWD)**
 - PVCWD received United's surface water supply, surface supply from Conejo Creek Project and received highly treated recycled water from the City of Oxnard's Advanced Water Purification Facility (AWPF).
 - 12% sodium hypochlorite injection continues at Saticoy's Moss Screen facilities for quagga mussel control.
 - Staff worked on investigating and retrofitting PV Water isolation valve Ventura Blvd and 101 Highway.

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

- UWCD staff relocated spare chemical tank to south side of Saticoy Moss Screen and installed NaOCL pump to use as new injection point into PV pipeline.
- **Pumping Trough Pipeline (PTP)**
 - During the month of April, the PTP system demand was met primarily with surface water.
 - Staff met with contractor to discuss a possible site for future connection to the recycle water pipeline.
 - EL Rio operators shut down the westerly portion of PTP system to allow contractor to repair air vacuum valve that was run over near PTP well 4.
- **Control Systems**
 - The PTP Turnout 107 upgrade has been completed.
 - We replaced a defective power board for an Endress+Hauser meter on Well #18.
 - We have completed the evaluation and testing of the Endress+Hauser Proline Prom 500 Meter at El Rio Main Line Meter.
 - Control Systems has been tasked to develop a Standard Operating Procedure to outline the operation of the El Rio Emergency Generator. SOP 0003 - El Rio Emergency Generator Operation.
 - We attended CCWUC Operator Technology Workshop
 - We repaired a Fiber Optics Link at Lake Piru's Condor Store.
 - We provided 1 year worth of reporting data for the Water Treatment Plant at Lake Piru.
 - The Saticoy Gate Radio Link Upgrade has been Completed.
 - We separated the Saticoy Gate Power from the Saticoy Gate Security Control box to isolation and separate power circuits.
 - PTP Main Line Meter Communications Link Upgrade has been Complete.
 - We assisted USGS to retrieve data by troubleshooting the USGS Accusonic flow meter at Santa Felicia Dam.
 - We conducted Genetec security camera maintenance at Santa Felicia Dam.
 - We conducted repairs and replaced displays on PTP Turnout 112 & 126.
 - We installed an Uninterruptible Power supply (UPS) at the Water Treatment Plant at the Santa felicia Dam.
 - We calibrated the Moss Screen Inlet Gate #2.
 - We integrated a new pump and level into SCADA for the Saticoy Moss screen.
 - We installed a new level transducer in effluent tank at the Saticoy Moss screen.
 - We replaced the Programmable Logic Controller at Saticoy Well #3The PLC was tested and is running without issue.
 - We installed an effluent pump for the new tank at the Saticoy Moss screen.
- **Lake Piru Water System**
 - All chlorine residuals and turbidity readings for the drinking water system were within proper ranges for April.
 - 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.
 - Basic maintenance and inspections are ongoing and continuing.

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

3. Operations and Maintenance Projects Update

- Operators performed annual oil changes for OH, PTP, Saticoy well motors.
- EL Rio operators completed their annual medical evaluation and respirator fit testing.
- UWCD staff worked on applying road base and grading roadways that run along the EL Rio spreading grounds
- Staff assisted with upgrades, by Dial Security, to intrusion alarm system for all EL Rio buildings.
- EL Rio staff assisted with maintenance operations at Freeman Diversion.
- UWCD staff met with General Pump personnel at their shop location to discuss possible replacement of pump assembly for Saticoy well 1.
- UWCD staff attended the annual CCWUC technology workshop in Oxnard.
- Staff assisted with completion of annual CCR for Lake Piru site.
- EL Rio staff completed Ventura County APCD required documentation for UWCD emergency generators.
- Saticoy staff performing various preventative maintenance tasks on the Traveling Screens at the Micro Screen building.

4. Other Operations and Maintenance Activities

- Staff continued oversight of the chemical injection process at the Moss screen for quagga control.
- Monthly bacteria samples were obtained for the PTP system.
- Monthly meter readings were obtained for OH, PTP and PV pipelines.
- Staff completed and electronically transmitted the monthly OH Surface Water Treatment Rule 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

- Staff attended a safety meeting that focused on Valley Fever and proper lifting techniques.
- Tailgate safety meetings were conducted at all individual O&M field locations and the topic included refresher training on equipment used at the various O&M locations; specifically, tailgate safety meetings were conducted prior to every commencement of maintenance activities at the Freeman Diversion.

Attachment: [Operations Log for April.](#)