

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:

A handwritten signature in blue ink, which appears to read "Lynn E. Maulhardt", is written over a horizontal line.


Chair Lynn E. Maulhardt

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

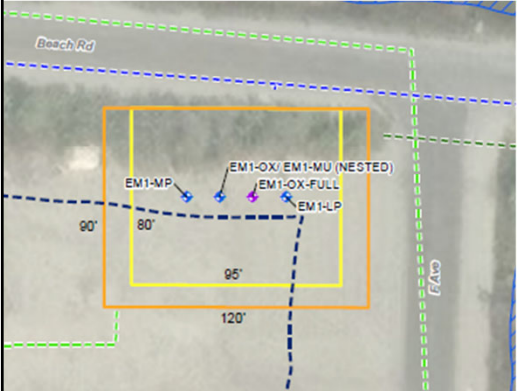
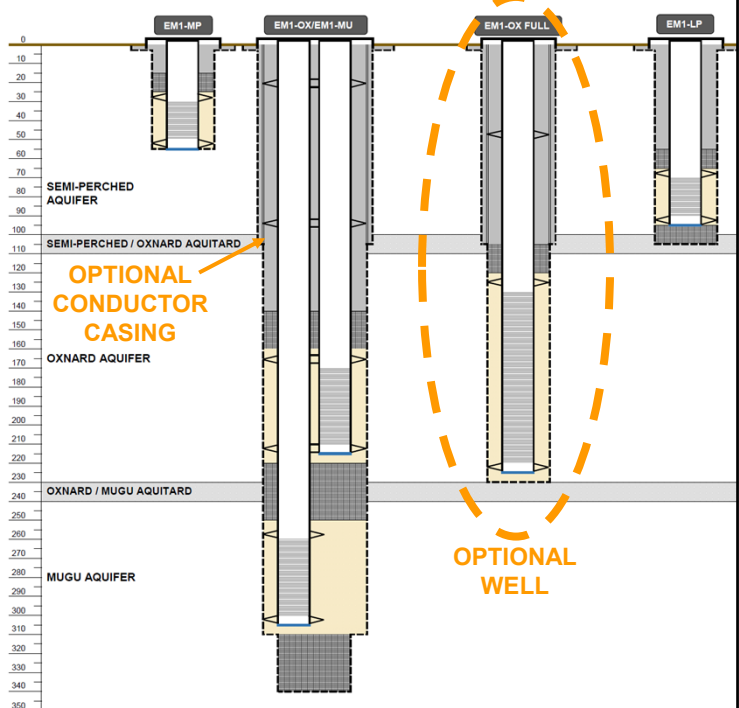


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Water Supply Reliability & Environmental Compliance

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)



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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

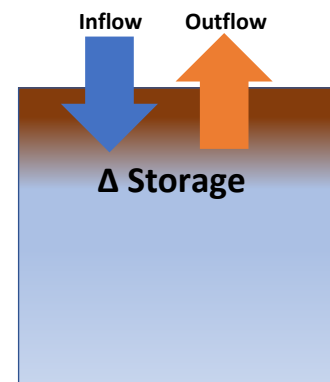


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District-wide Annual Overdraft Water Balance Methodology

- **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)



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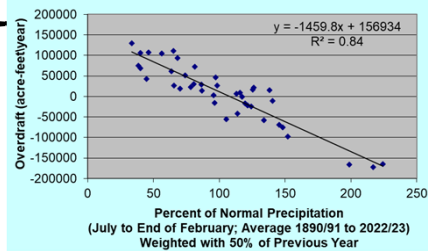
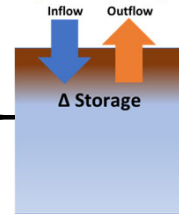
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A Summary of Findings for the Estimated Annual Overdraft Values

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

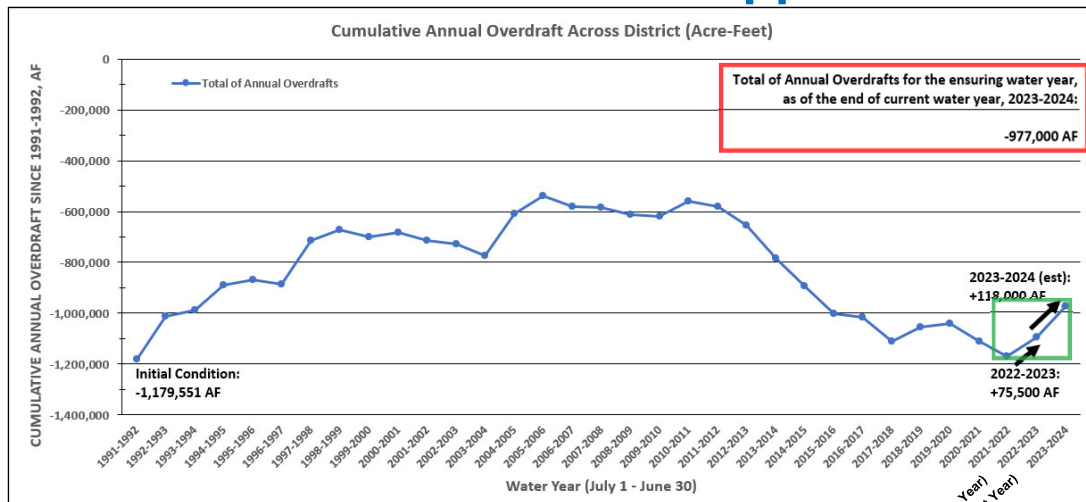
- Current Water Year (July 2023 – June 2024): **-118,000 AF Surplus**
 - o Using precipitation through February of the current year (2024), estimation of overdraft is made from regression with past precipitation and overdraft data

- 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



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3

Rose Basin



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