



Stanislaus & Tuolumne Rivers Groundwater Basin Association
Groundwater Sustainability Agency
1231 11th Street | Modesto, CA 95354
Email: strgba@mid.org

STRGBA GSA AGENDA
October 11, 2023 (1:30 p.m. – 3:00 p.m.)
Webinar Digital Platform or Phone Meeting
<https://us02web.zoom.us/j/82844864384>
By phone: 1-669-900-9128
Webinar ID: 828 4486 4384

PUBLIC PARTICIPATION

The public may participate in this meeting in the two ways described below.

Instructions for Participating in STRGBA GSA & Technical Advisory Meeting via Zoom Webinar or Phone

On your desktop/iPad or tablet/laptop:

1. To join the webinar, click the link published in the Agenda for the current meeting about 5 minutes before the webinar begins.
2. Follow the on-screen instructions to install and/or launch the Zoom application.
3. If prompted, enter the Webinar ID published in the Agenda.
4. All public attendees will enter the meeting muted.
5. If you wish to speak under Business from the Public, or after the Chairman calls for Public Comment, click on the “Raise Hand” button to request to speak.

On your phone:

1. To join the meeting by phone, call the number published in the Agenda for the meeting.
2. Enter the Webinar ID published in the Agenda, then hit the # symbol.
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4. If you wish to speak under Business from the Public, or after the Chairman calls for Public Comment, press *9 on your phone to “Raise Hand” or simply request to speak.



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1. Call to Order/Welcome and Introductions
(Four agencies are needed for a quorum)
2. Business from the Public
Who: Public
Expected Outcome: Interested persons are welcome to introduce any topic within the Agency's jurisdiction. Matters presented under this heading may be discussed but no action will be taken by the Agency at this meeting.
3. Topic: Approve 8/9/2023 Meeting Minutes and Correction to the 2024 Operating Budget
[\[Action Item\]](#)
Who: Eric Thorburn, Committee
Expected Outcome: Approval
4. Topic: Amended 2024 Operating Budget [\[Action Item\]](#)
Who: Eric Thorburn, Committee
Expected Outcome: Approval
5. Topic: Draft Cost Distribution Agreement for Subsequent Approval by Each Member Agency
[\[Action Item\]](#)
Who: Eric Thorburn, Committee
Expected Outcome: Approval
6. Topic: 2023 Water Year Groundwater Level Analysis
Who: Todd Groundwater, Committee
Expected Outcome: Discussion
7. Next Meeting
November 8, 2023, at 1:30 p.m. via Zoom
In-person offered at Oakdale Irrigation District
8. Items too late for the agenda



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MEETING MINUTES

August 9, 2023 (1:30 p.m. – 3:00 p.m.)

The meeting was called to order at 1:30 p.m.

1. Welcome and Introductions

The following members of the Stanislaus and Tuolumne Rivers Groundwater Basin Association Groundwater Sustainability Agency (STRGBA GSA) attended either in-person or via Zoom.

In-Person Attendees:

Modesto Irrigation District (MID): John Mauterer
Oakdale Irrigation District (OID): Eric Thorburn
Stanislaus County: Christy McKinnon
City of Modesto: Miguel Alvarez
City of Waterford: Michael Pitcock

Other Attendees:

Arden Wells, Todd Groundwater	William Lyons
Kelly Dole	Juan Ochoa
Hilary Reinhard	Stacy Henderson
John Herrick	John Schneider
Emily Sheldon	Parry Klassen
Amanda Peisch-Derby	

2. Business from the Public

N/A

3. Approve 6/14/2023 Meeting Minutes [Action item]

Pitcock moved, 2nd by Alvarez to approve the 6/14/2023 meeting minutes.



4. 2023 Operating Budget Update

Alvarez moved, 2nd by Mauterer to approve the 2023 Operating Budget.

5. Update on RFP/RFQ for Consultant Services for the GSP and GW Annual Reports

Alvarez provided a status update regarding the Request for Proposal (RFP) and Request for Quotation (RFQ) for the GSP and Annual Reports. Committee members are reviewing the RFP/RFQ rating sheets. Alvarez stated contract will be signed by November for Consultant Services.

6. Draft Monitoring Well Installation Plan

Wells presented the monitoring well installation plan. To view the presentation, please follow the link: <https://youtu.be/z5zVx8nLhvY?si=1UluJ4RHXUQJEUPX>

McKinnon asked will there be more wells on the west side of the subbasin after the data gaps are addressed. Thorburn stated in the Non-District East and East there are fewer wells but, in the West, there are more wells available.

Henderson asked about the cost of the installation of wells. Wells stated they have not budgeted for the wells. Thorburn said we have not identified specific locations yet. Henderson asked if there was a plan to allocate costs through agencies. Thorburn stated the committee has not discussed that yet.

Lyons asked if Todd GW was aware of the data that was submitted to them. Lyons asked why there are so many wells in the western area of MID. Wells stated she wasn't familiar with the history of how the wells were selected.

7. Valley Water Collaborative and Nitrate Control Program Update

Klassen presented the group with an update on the Valley Water Collaborative and the Nitrate Control Program. To view the presentation, please follow the link:

<https://youtu.be/z5zVx8nLhvY?si=1UluJ4RHXUQJEUPX>

8. Next Meeting

September 13, 2023, at 1:30 via Zoom and in-person at Oakdale Irrigation District

9. Items too late for the agenda

N/A

2024 OPERATING BUDGET

OPERATING EXPENSES	2023 BUDGET	2024 BUDGET
Administration	\$10,000.00	\$5,000.00
Annual Report	\$75,000.00	\$190,000.00
Preparation	\$25,000.00	\$25,000.00
Insurance	\$1,500.00	\$1,500.00
Legal and auditing	\$20,000.00	\$20,000.00
Model Update	\$50,000.00	\$0.00
Monitoring Wells	\$4,500.00	\$0.00
Public Outreach	\$5,000.00	\$10,000.00
Website Maintenance	\$5,000.00	\$5,000.00
Data Management System	\$10,000.00	\$0.00
Total Operating Budget	\$206,000.00	\$256,500.00

Notes:

1. Each STRGBA GSA member agency will be responsible to pay 1/8 of the total operating budget (+/- \$32,062.50). Stanislaus County will also be invoiced for the Tuolumne County GSA's 1/8 share of the total operating budget.
2. Payment for the annual report operating expense will be made to the City of Modesto. Payment for the remaining 2024 Operating Budget will be made to Modesto Irrigation District.

**STRGBA GSA
EQUITABLE PROJECT COST SHARING AND REIMBURSEMENT AGREEMENT
FOR
UPDATING OF THE GROUNDWATER SUSTAINABILITY PLAN AND DEVELOP OF
THE GROUNDWATER ANNUAL REPORTS**

This EQUITABLE PROJECT COST SHARING AND REIMBURSEMENT AGREEMENT (“Agreement”) is entered into by and between the CITY OF OAKDALE, a California municipal corporation, the CITY OF RIVERBANK, a California municipal corporation, the CITY OF MODESTO, a California municipal corporation, the CITY OF WATERFORD, a California municipal corporation, STANISLAUS COUNTY, a political subdivision of the State of California, the OAKDALE IRRIGATION DISTRICT, a California special district, and the MODESTO IRRIGATION DISTRICT, a California special district. Each of the parties to this Agreement shall individually be referred to as the “Party,” or collectively, as the “Parties.” This Agreement is entered into this _____ day of _____, 2023.

RECITALS:

WHEREAS, the Parties formed the STANISLAUS AND TUOLUMNE RIVERS GROUNDWATER BASIN ASSOCIATION GROUNDWATER SUSTAINABILITY AGENCY (“STRGBA GSA”) in 2017 pursuant to the MEMORANDUM OF UNDERSTANDING Forming the STANISLAUS AND TUOLUMNE RIVERS GROUNDWATER BASIN ASSOCIATION GROUNDWATER SUSTAINABILITY AGENCY (“GSA MOU”) entered into and duly adopted by each Party to this Agreement, and

WHEREAS, the recitals to the GSA MOU identify the GSA’s obligations to, inter alia, develop a Groundwater Sustainability Plan, as defined in GSA MOU Section 3.9 (“GSP”), for the Modesto Sub-basin, as defined in GSA MOU Section 3.12 (“Modesto Sub-basin”), and

WHEREAS, the Parties have received a proposal from and intend to engage a consultant, TODD GROUNDWATER (“Consultant”), to update the Modesto Sub-basin GSP and prepare Groundwater Annual Reports (“GWARs”) for its adoption by the Parties pursuant to the Sustainable Groundwater Management Act of 2014, and

WHEREAS, the TOTAL Consultant (all Fees and Services) cost per Consultant’s proposal is provided at Exhibit 1 in the amount of ONE MILLION NINE HUNDRED NINETY-FOUR THOUSAND SIX HUNDRED DOLLARS AND ONE DOLLARS, such TOTAL Consultant cost is composed of Consultant’s Base Fee and Contingency Services, as each is defined in Exhibit 1, and

WHEREAS, this Agreement identifies each Party’s Funding Percentage, as defined in GSA MOU Section 3.4 and described in GSA MOU Section 7.1, with respect to the TOTAL Consultant cost to develop the GWARs and update the GSP for its due adoption by the Parties no later than December 31, 2026.

NOW, THEREFORE, the Parties, on the terms and conditions herein set forth, hereby agree as follows:

TERMS:

1. The CITY OF MODESTO shall enter into an agreement with the Consultant on behalf of the STRGBA GSA. THE CITY OF MODESTO will manage the funding and payment in accordance with this Agreement and as directed by the Parties through the STRGBA GSA.
2. Subject to the direction and prior approval of the Parties through the STRGBA GSA, the CITY OF MODESTO shall execute an agreement with the Consultant for the update of the Modesto Sub-basin GSP and development of the GWARs for the amounts stated in Exhibit 1, TOTAL Consultant cost (Base Fee plus Contingency Services).

3. Subject to prior approval by the Parties through the STRGBA GSA, the CITY OF MODESTO will pay the TOTAL Balance, as described in Exhibit 1 as ONE MILLION NINE HUNDRED NINETY-FOUR THOUSAND SIX HUNDRED DOLLARS AND THIRTY CENTS, pursuant to the terms below.

4. The Parties shall each pay a share of the TOTAL Balance to the CITY OF MODESTO as reimbursement for the CITY OF MODESTO's payment of the Total Balance as more specifically delineated in Exhibit 1 hereto ("Funding Share"). As specified in Exhibit 1, STANISLAUS COUNTY, agrees and promises that, for all cost-share obligations under this Agreement, including cost-share for Base Fee and Contingency Services, it shall also be responsible for all cost-share amounts allocable to Tuolumne County.

5. In the event that any additional agency becomes a Party to this Agreement, GSA MOU Section 4.5 shall govern the addition and the new party's payment of its proportionate share of the TOTAL Consultant cost and the proportionate decrease and refund of the other Parties' Funding Share.

7. Each Party shall make payment of its Funding Share pursuant to Exhibit 1 by: (1) six installment payments totaling the amount of the Funding Share, made consecutively at the end of each calendar year, with the first payment due and payable on December 31, 2023; or, (2) full payment of the Funding Share by December 31, 2023. Annual installment will vary from year to year based on the actual amount of work completed, and invoiced to the City of Modesto by the Consultant.

8. In the event the Consultant notifies the Parties that payment in excess of the TOTAL Consultant cost is needed, the Parties, through the STRGBA GSA, shall determine whether to approve such additional payment and, if so, direct the CITY OF MODESTO to

contract with the Consultant accordingly.

9. In the event that the actual costs to complete the update of the Modesto Sub-basin GSP and development of the GVARs by the Consultant are less than the TOTAL Consultant cost and do not require use of the entirety of the Parties' Funding Shares, the Funding Shares shall be recalculated based upon the new Balance and any funds paid in excess of the new Funding Shares shall be refunded to the respective Parties by the CITY OF MODESTO accordingly.

10. The CITY OF MODESTO shall direct the Consultant to provide regular updates on its work to the STRGBA GSA and as directed by the Parties. Upon the request of the Parties, the CITY OF MODESTO shall direct the Consultant to provide any interim drafts or models completed for the update of the Modesto Sub-basin GSP and development of the GVARs to the Parties. Each Party that has paid its respective Funding Share in full shall be entitled to copies of all final deliverables created by the Consultant.

11. This Agreement is governed by the GSA MOU and it shall control as to items that are not otherwise specifically addressed herein by this Agreement.

12. This Agreement may be modified only with the written agreement of the Parties.

IN WITNESS WHEREOF, the CITY OF OAKDALE, a California municipal corporation, the CITY OF RIVERBANK, a California municipal corporation, the CITY OF MODESTO, a California municipal corporation, the CITY OF WATERFORD, a California municipal corporation, STANISLAUS COUNTY, a political subdivision of the State of California, the OAKDALE IRRIGATION DISTRICT, a California special district, and the MODESTO IRRIGATION DISTRICT, a California special district have authorized the execution of this Cost Sharing Agreement for update of the Groundwater Sustainability Plan and development of the Groundwater Annual Reports.

Add Agency Signature Page Here

EXHIBIT 1
COST-SHARE SCHEDULE FOR CONSULTANT FEE

2023

Agency	% Share	Total	Annual Payment
City of Modesto	12.5	\$188,146	\$23,518
City of Oakdale	12.5	\$188,146	\$23,518
City of Riverbank	12.5	\$188,146	\$23,518
City of Waterford	12.5	\$188,146	\$23,518
Stanislaus County	12.5	\$188,146	\$23,518
Stanislaus County Per Agreement with Tuolumne County	12.5	\$188,146	\$23,518
Modesto Irrigation District	12.5	\$188,146	\$23,518
Oakdale Irrigation District	12.5	\$188,146	\$23,518
Annual Total For 2023	100		\$188,146
Remaining Contract Balance/Budget			\$1,806,455

2024

Agency	% Share	Total	Annual Payment
City of Modesto	12.5	\$191,305	\$23,913
City of Oakdale	12.5	\$191,305	\$23,913
City of Riverbank	12.5	\$191,305	\$23,913
City of Waterford	12.5	\$191,305	\$23,913
Stanislaus County	12.5	\$191,305	\$23,913
Stanislaus County Per Agreement with Tuolumne County	12.5	\$191,305	\$23,913
Modesto Irrigation District	12.5	\$191,305	\$23,913
Oakdale Irrigation District	12.5	\$191,305	\$23,913
Annual Total For 2024	100		\$191,305
Remaining Contract Balance/Budget			\$1,615,150

2025

Agency	% Share	Total	Annual Payment
City of Modesto	12.5	\$603,284	\$75,411
City of Oakdale	12.5	\$603,284	\$75,411
City of Riverbank	12.5	\$603,284	\$75,411
City of Waterford	12.5	\$603,284	\$75,411
Stanislaus County	12.5	\$603,284	\$75,411
Stanislaus County Per Agreement with Tuolumne County	12.5	\$603,284	\$75,411
Modesto Irrigation District	12.5	\$603,284	\$75,411
Oakdale Irrigation District	12.5	\$603,284	\$75,411
Annual Total For 2025	100		\$603,284
Remaining Contract Balance/Budget			\$1,011,866

2026

Agency	% Share	Total	Annual Payment
City of Modesto	12.5	\$606,118	\$75,765
City of Oakdale	12.5	\$606,118	\$75,765
City of Riverbank	12.5	\$606,118	\$75,765
City of Waterford	12.5	\$606,118	\$75,765
Stanislaus County	12.5	\$606,118	\$75,765
Stanislaus County Per Agreement with Tuolumne County	12.5	\$606,118	\$75,765
Modesto Irrigation District	12.5	\$606,118	\$75,765
Oakdale Irrigation District	12.5	\$606,118	\$75,765
Annual Total For 2026	100		\$606,118
Remaining Contract Balance/Budget			\$405,748

2027

Agency	% Share	Total	Annual Payment
City of Modesto	12.5	\$201,164	\$25,146
City of Oakdale	12.5	\$201,164	\$25,146
City of Riverbank	12.5	\$201,164	\$25,146
City of Waterford	12.5	\$201,164	\$25,146
Stanislaus County	12.5	\$201,164	\$25,146
Stanislaus County Per Agreement with Tuolumne County	12.5	\$201,164	\$25,146
Modesto Irrigation District	12.5	\$201,164	\$25,146
Oakdale Irrigation District	12.5	\$201,164	\$25,146
Annual Total For 2027	100		\$201,164
Remaining Contract Balance/Budget			\$204,584

2028

Agency	% Share	Total	Annual Payment
City of Modesto	12.5	\$204,583	\$25,573
City of Oakdale	12.5	\$204,583	\$25,573
City of Riverbank	12.5	\$204,583	\$25,573
City of Waterford	12.5	\$204,583	\$25,573
Stanislaus County	12.5	\$204,583	\$25,573
Stanislaus County Per Agreement with Tuolumne County	12.5	\$204,583	\$25,573
Modesto Irrigation District	12.5	\$204,583	\$25,573
Oakdale Irrigation District	12.5	\$204,583	\$25,573
Annual Total For 2028	100		\$204,583
Remaining Contract Balance/Budget			\$0

Annual Cost Breakdown per TGW Task Schedule Estimates

Annual Budget	Annual Report Annual Cost	GSP Annual Cost	Contingency Amount	Total Annual Cost	Annual Payment Per Member Agency (12.5% of annual cost)
2023	\$157,925	0	\$30,221	\$188,146	\$23,518
2024	\$161,084	0	\$30,221	\$191,305	\$23,913
2025	\$141,708	431,355	\$30,221	\$603,284	\$75,411
2026	\$144,542	431,355	\$30,221	\$606,118	\$75,765
2027	\$170,943	0	\$30,221	\$201,164	\$25,146
2028	\$174,362	0	\$30,221	\$204,583	\$25,573
Total Over Six Payments w/ 10% Contingency Per Member				\$1,994,601	\$249,325
Joint Total Over Six Payments for STRGBA GSA					\$1,994,601



MODESTO SUBBASIN GSP

WY 2023 WATER LEVEL ANALYSIS

STRGBA GSA Meeting
October 11, 2023



AGENDA

- WY 2023 GSP Monitoring Events
- Water Level Analysis – Draft Results
 - Sustainable Management Criteria
 - Hydrographs
- Putting the results in perspective
- Data Request – Third Annual Report



MW-9

WY 2023 GSP MONITORING EVENTS

- Fall 2022, seasonal lows (2nd GSP monitoring event)
 - Most water levels measured end October / early November
- Spring 2023, seasonal highs (3rd GSP monitoring event)
 - Most water levels measured end February / early March
- During both monitoring events:
 - Groundwater elevations measured in 59 representative monitoring wells (RMWs)
 - 2 RMWs not measured due to casing obstructions (Wood and Quesenberry)

DEFINITION OF UNDESIRABLE RESULTS

Chronic Lowering of Groundwater Levels



An undesirable result will occur when at least 33% of representative monitoring wells exceed the MT for a principal aquifer in three (3) consecutive Fall monitoring events.

Interconnected Surface Water



An undesirable result will occur on one of the rivers when 33% to 50% of the representative monitoring wells for that river exceed the MT in three (3) consecutive Fall monitoring events.

(33% on Stanislaus and Tuolumne rivers, 50% on San Joaquin River)

MINIMUM THRESHOLDS (MTs)

Chronic Lowering of Water Levels

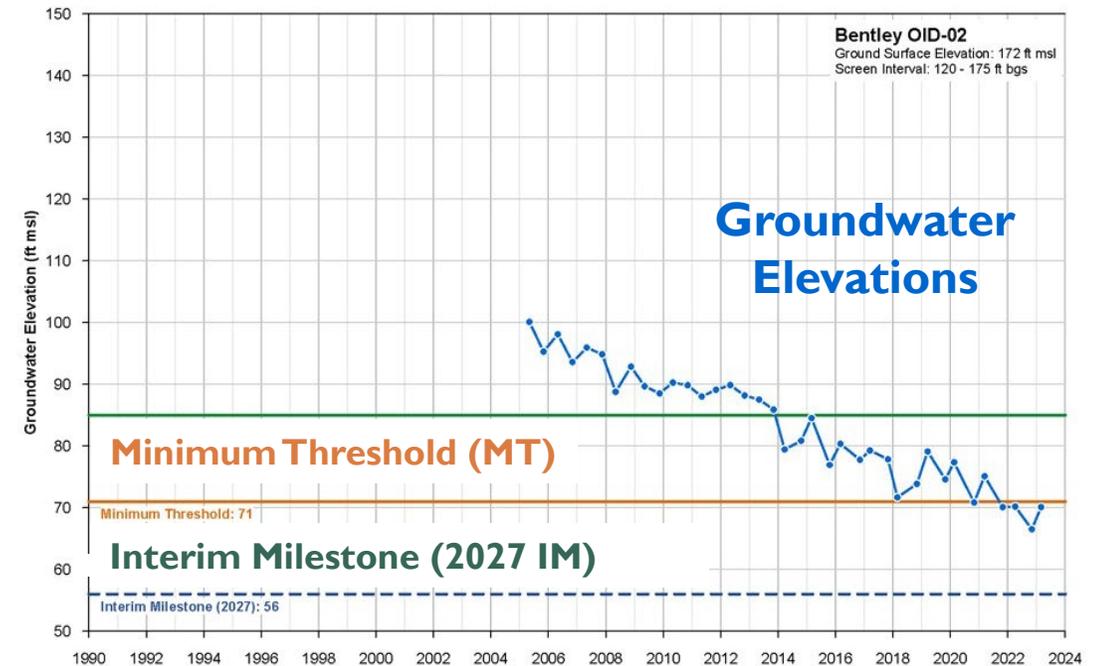
	Fall 2022	Spring 2023
Western Upper Principal Aquifer		
Above MT	16	17
Below MT	1	0
Not Measured	0	0
% Below (includes measured wells)	6%	0%
Western Lower Principal Aquifer		
Above MT	4	5
Below MT	1	0
Not Measured	0	0
% Below (includes measured wells)	20%	0%
Eastern Principal Aquifer		
Above MT	16	25
Below MT	21	12
Not Measured	2	2
% Below (includes measured wells)	57%	32%

Interconnected Surface Water

	Fall 2022	Spring 2023
San Joaquin River		
Above MT	1	2
Below MT	1	0
Not Measured	0	0
% Below (includes measured wells)	50%	0%
Stanislaus River		
Above MT	2	6
Below MT	6	2
Not Measured	0	0
% Below (includes measured wells)	75%	25%
Tuolumne River		
Above MT	4	7
Below MT	5	2
Not Measured	1	1
% Below (includes measured wells)	56%	22%

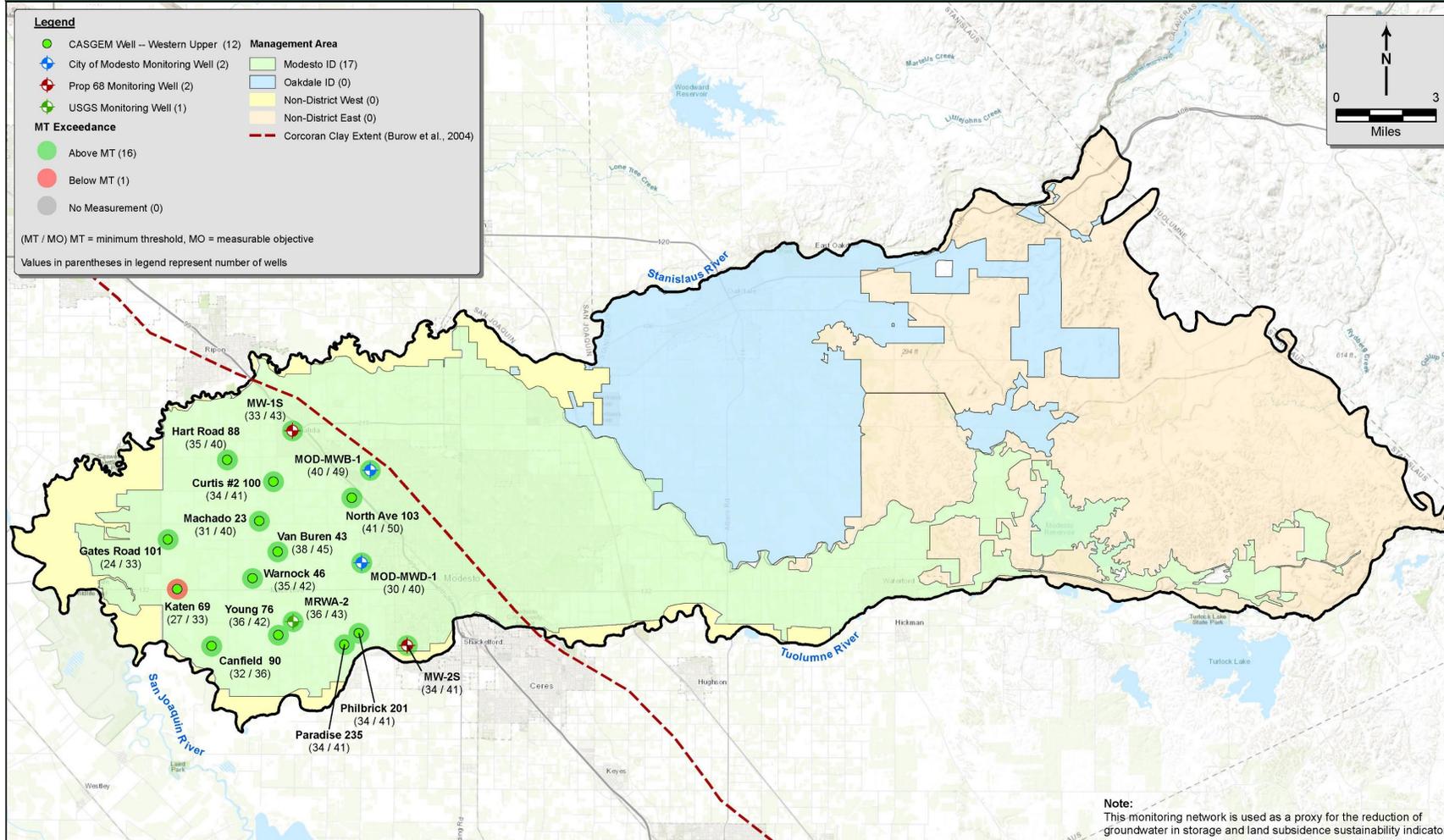
INTERIM MILESTONES (IMs)

- **Chronic Lowering of Water Levels**
 - 14 wells with IMs
 - No wells exceeded their IM during WY 2023
- **Interconnected Surface Water**
 - 5 wells with IMs
 - No wells exceeded their IM during WY 2023



FALL 2022

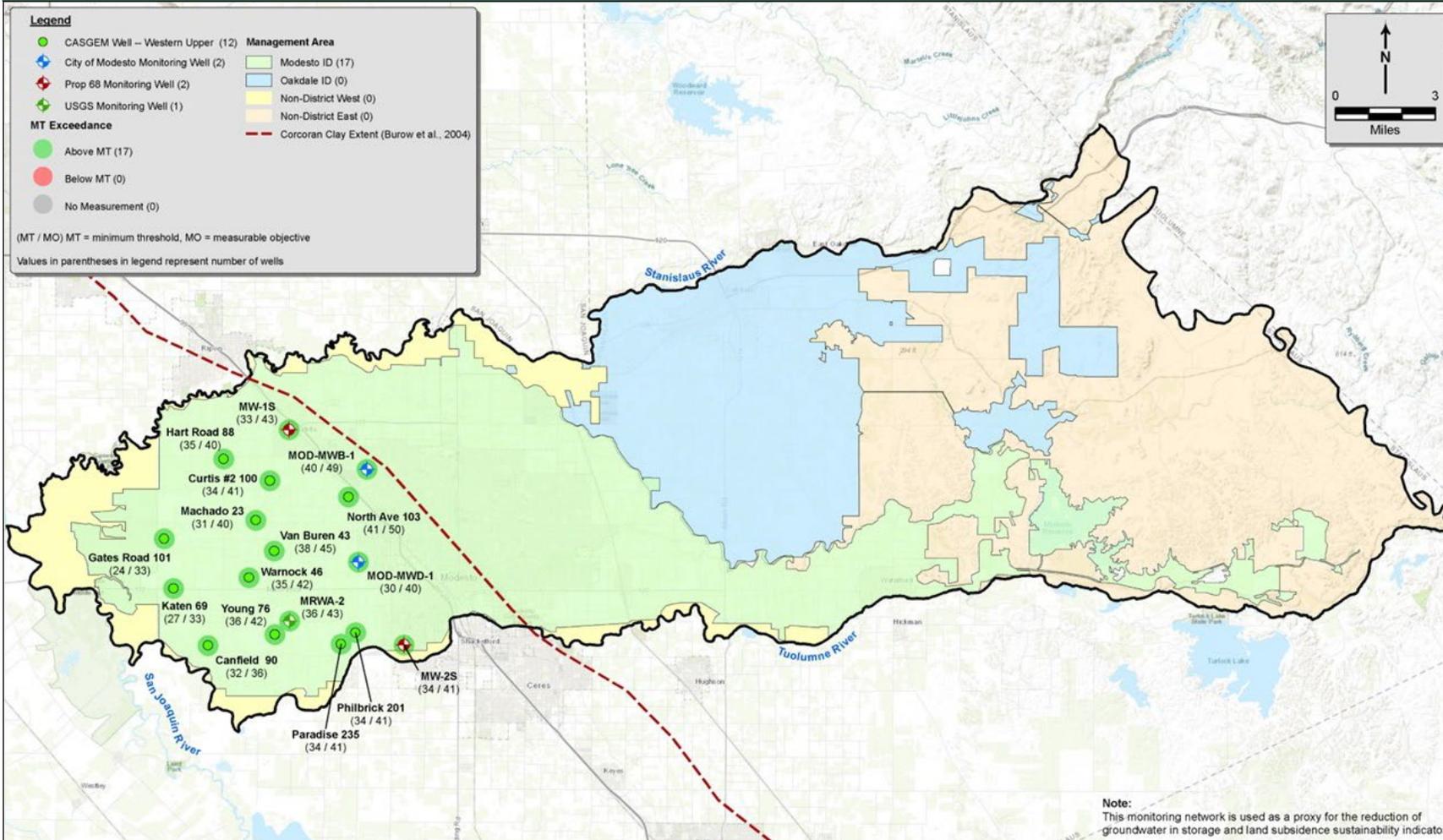
WESTERN UPPER PRINCIPAL AQUIFER



- 1 RMW below MT (Katen)
- No RMWs have IMs

SPRING 2023

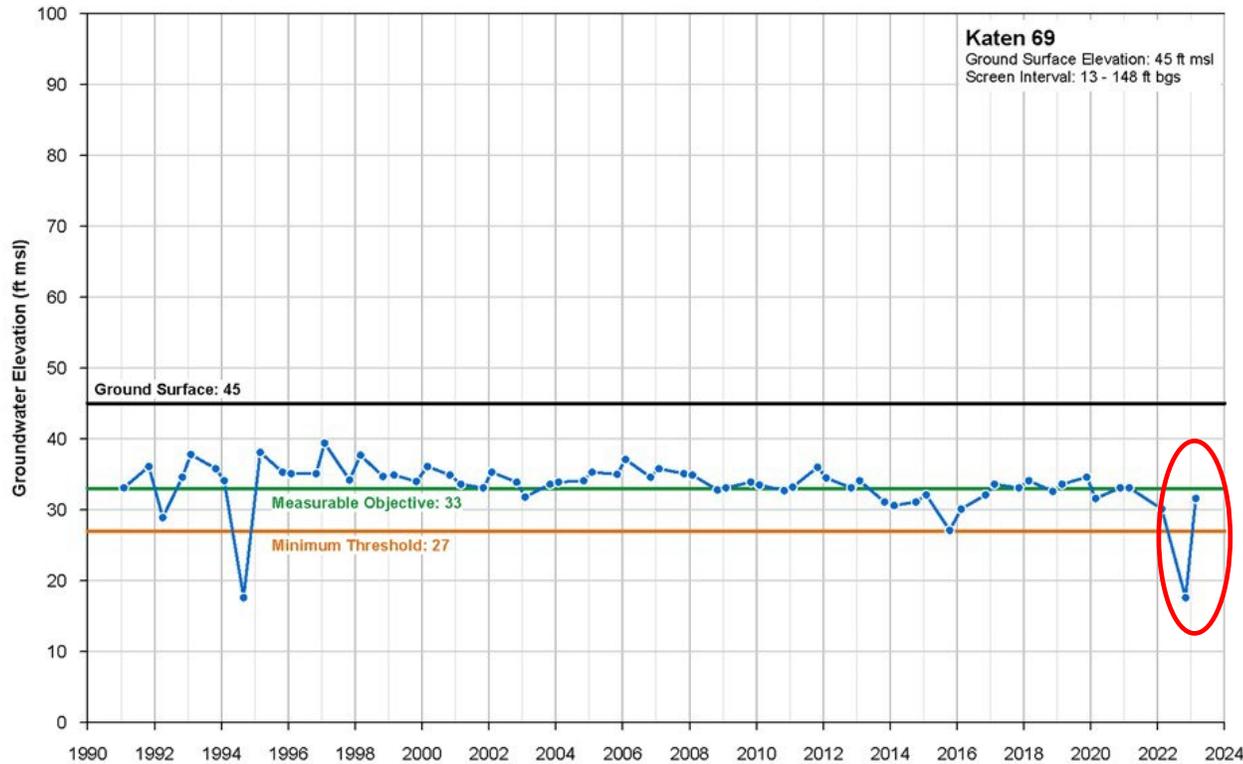
WESTERN UPPER PRINCIPAL AQUIFER



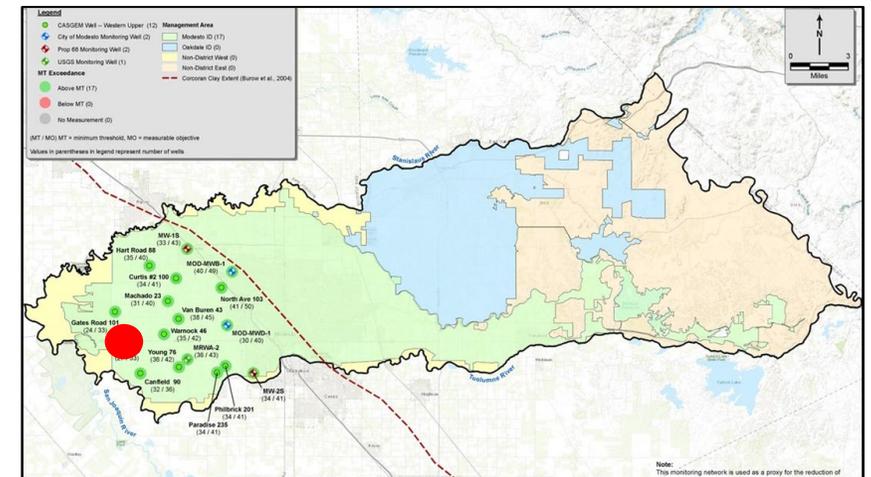
- 0 RMWs below MT
- No RMWs have IMs

HYDROGRAPHS

WESTERN UPPER PRINCIPAL AQUIFER



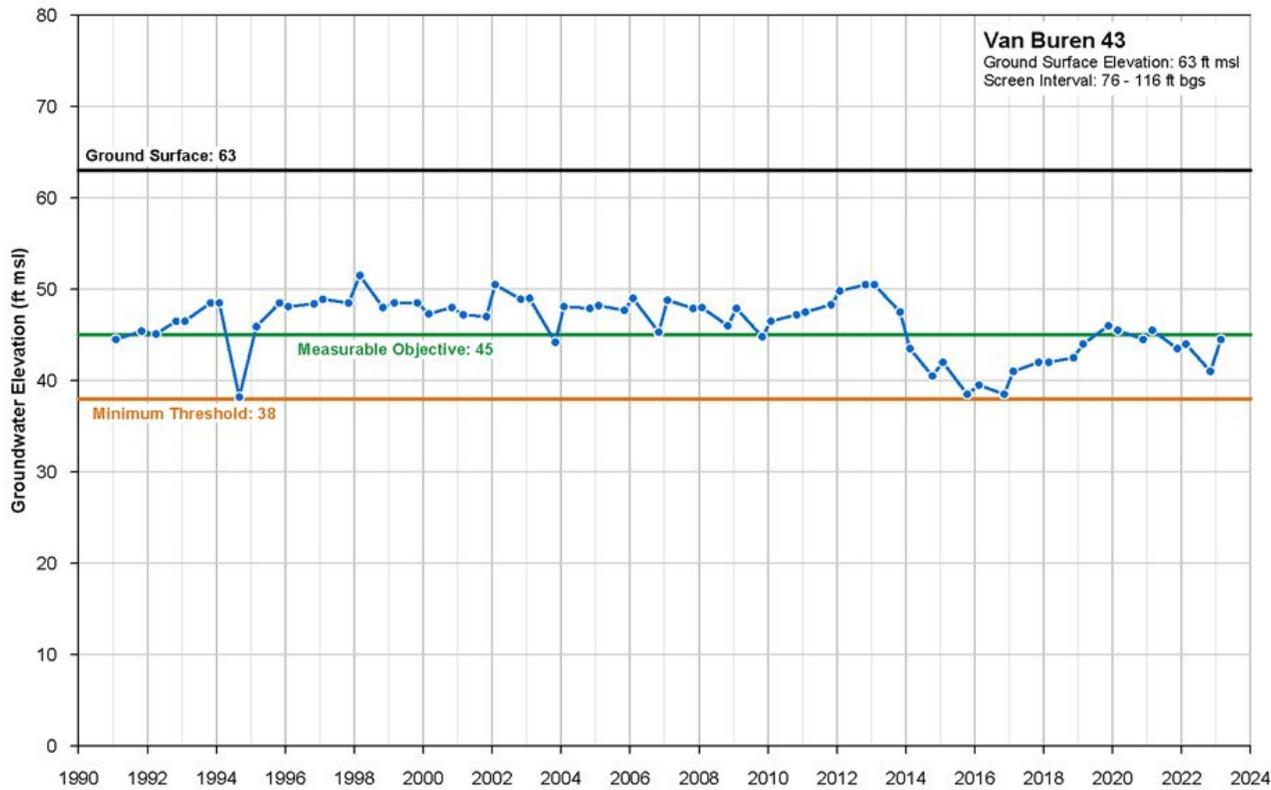
- Water levels in Western Upper Principal Aquifer declined in Fall 2022 and rebounded in Spring 2023 (over 10 feet)
- Fall 2022 water level is below MT, Spring 2023 is above MT



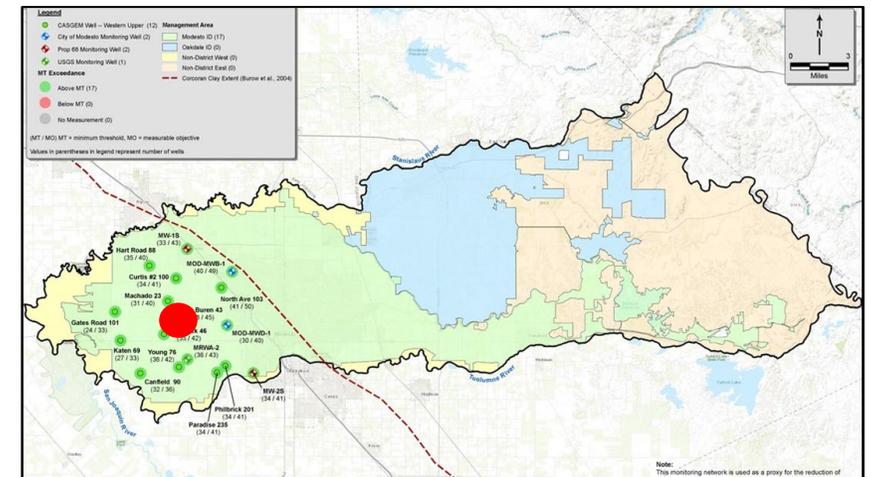
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HYDROGRAPHS

WESTERN UPPER PRINCIPAL AQUIFER



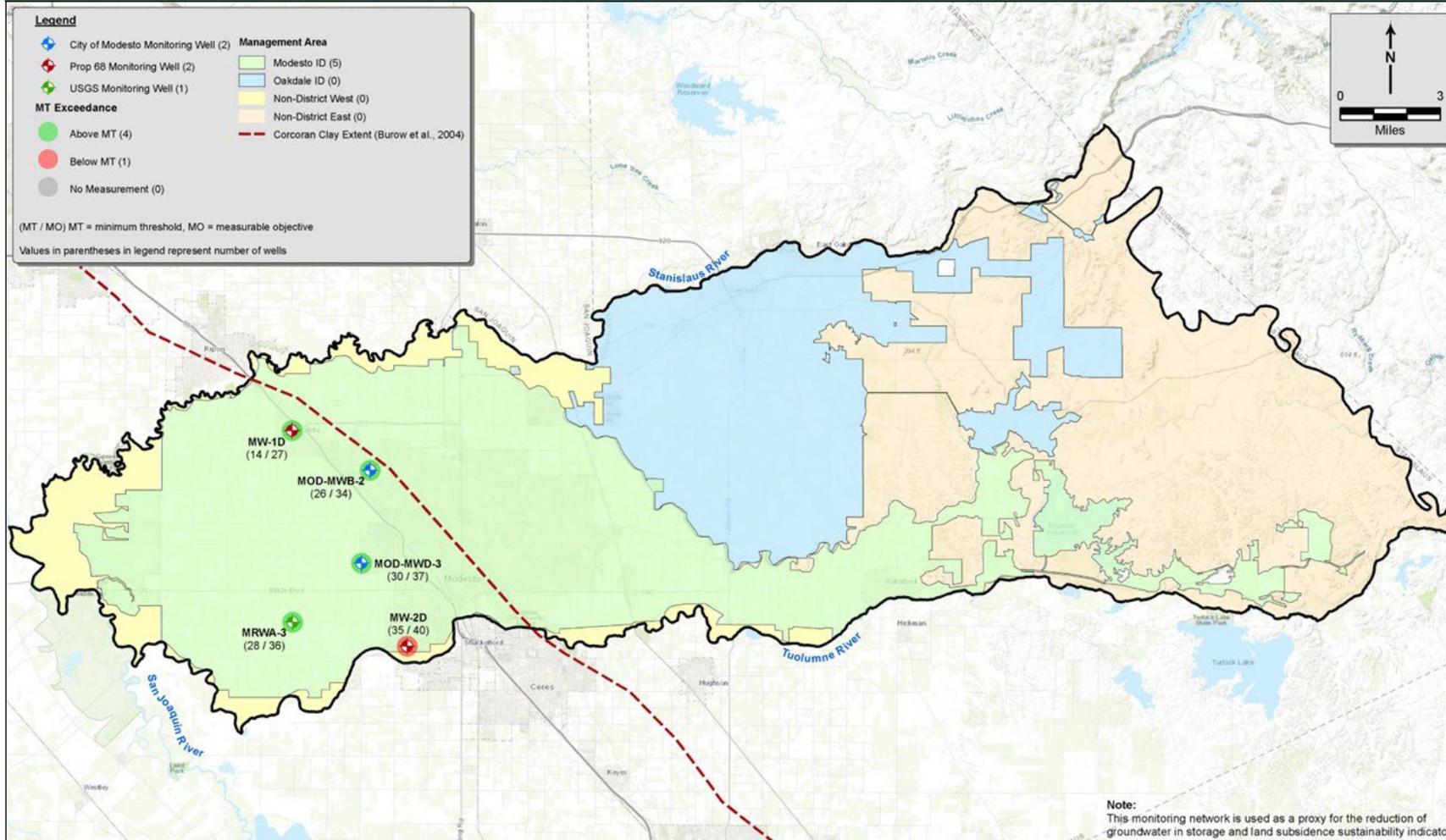
- Water levels are above the MT
- Fall 2022 decline, Spring 2023 rebound (similar to rest of Western Upper Principal Aquifer)



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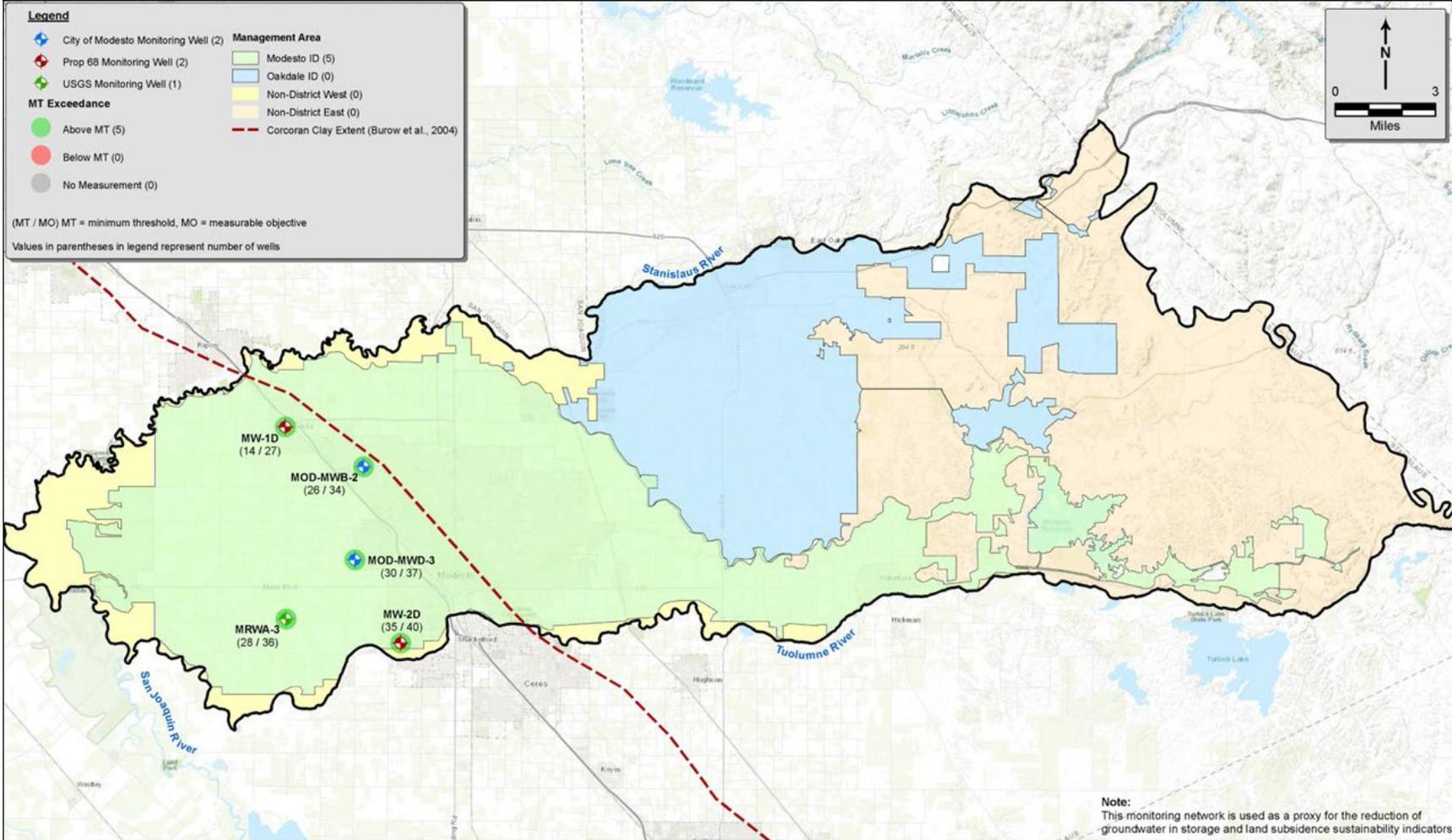
FALL 2022

WESTERN LOWER PRINCIPAL AQUIFER



- 20% RMW's below MT
 - 4 wells > MT
 - 1 well < MT
- No RMW's have IMs

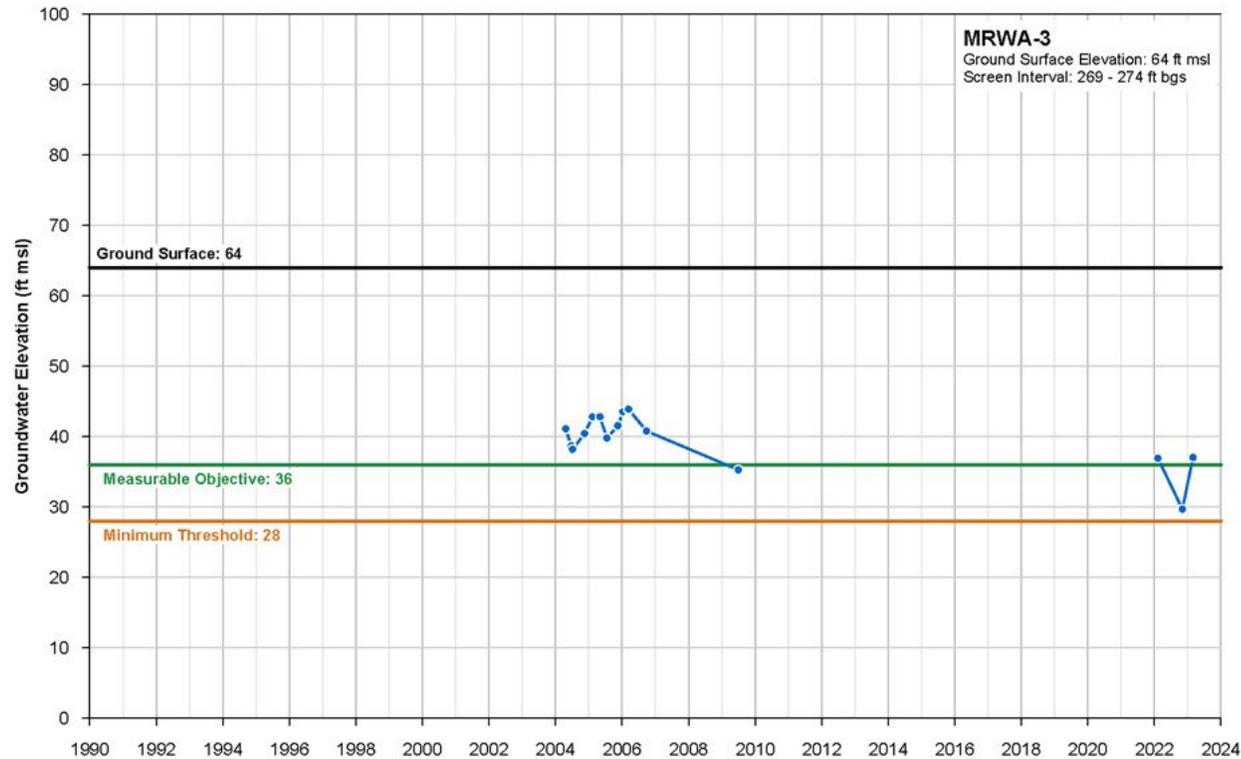
SPRING 2023 WESTERN LOWER PRINCIPAL AQUIFER



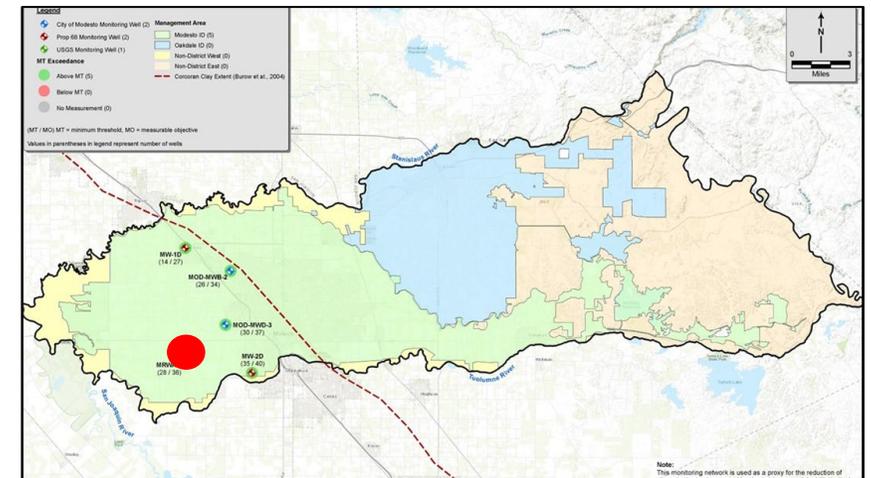
- No RMWs below MTs
- No RMWs have IMs

HYDROGRAPHS

WESTERN LOWER PRINCIPAL AQUIFER



- Water level decline in Fall 2022, rebound in Spring 2023 (approx. 7 feet)
- Above the MT during both monitoring events



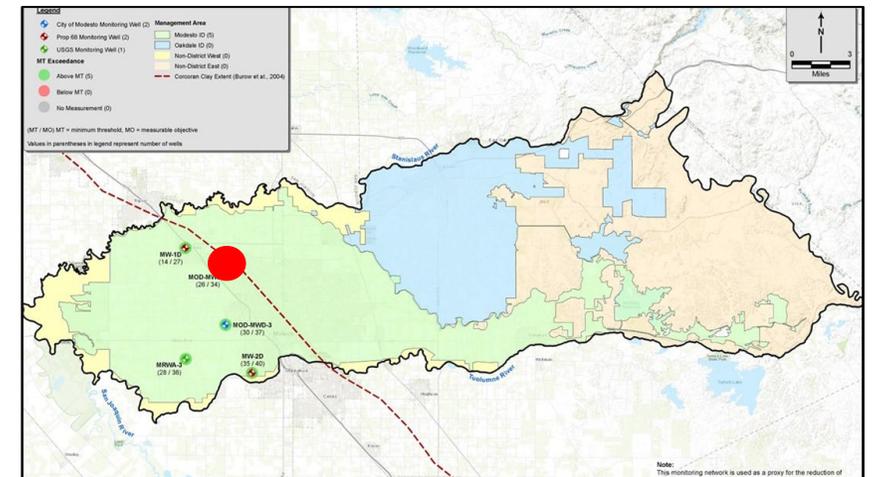
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HYDROGRAPHS

WESTERN LOWER PRINCIPAL AQUIFER

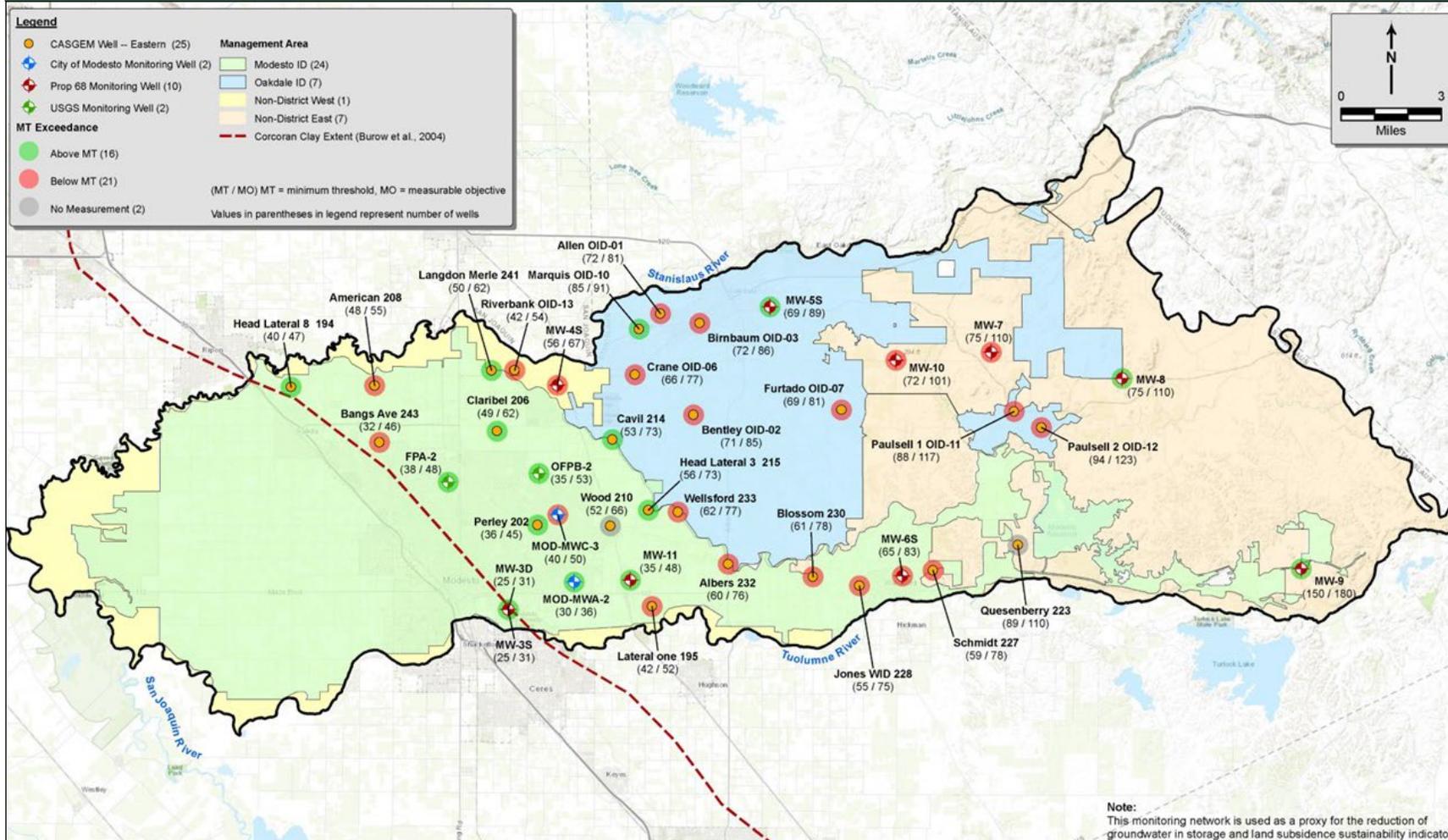


- Wells in eastern region of aquifer have a similar pattern – water level rise throughout WY 2023
- Above the MT during both monitoring events



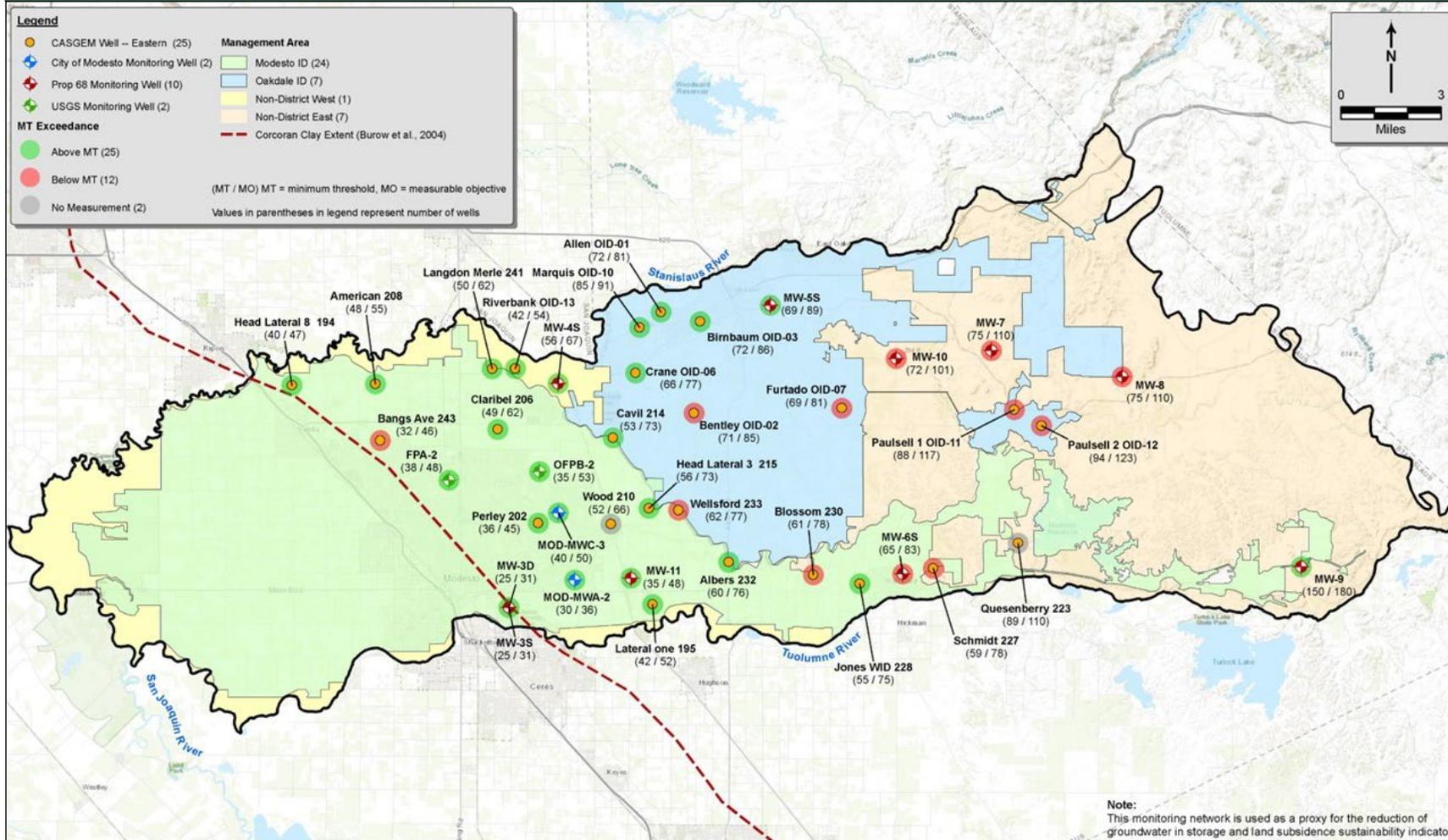
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FALL 2022 EASTERN PRINCIPAL AQUIFER



- 57% of RMWs below MT
 - 16 wells > MT
 - 21 wells < MT
 - 2 wells not monitored
- 14 RMWs have IMs (all above)

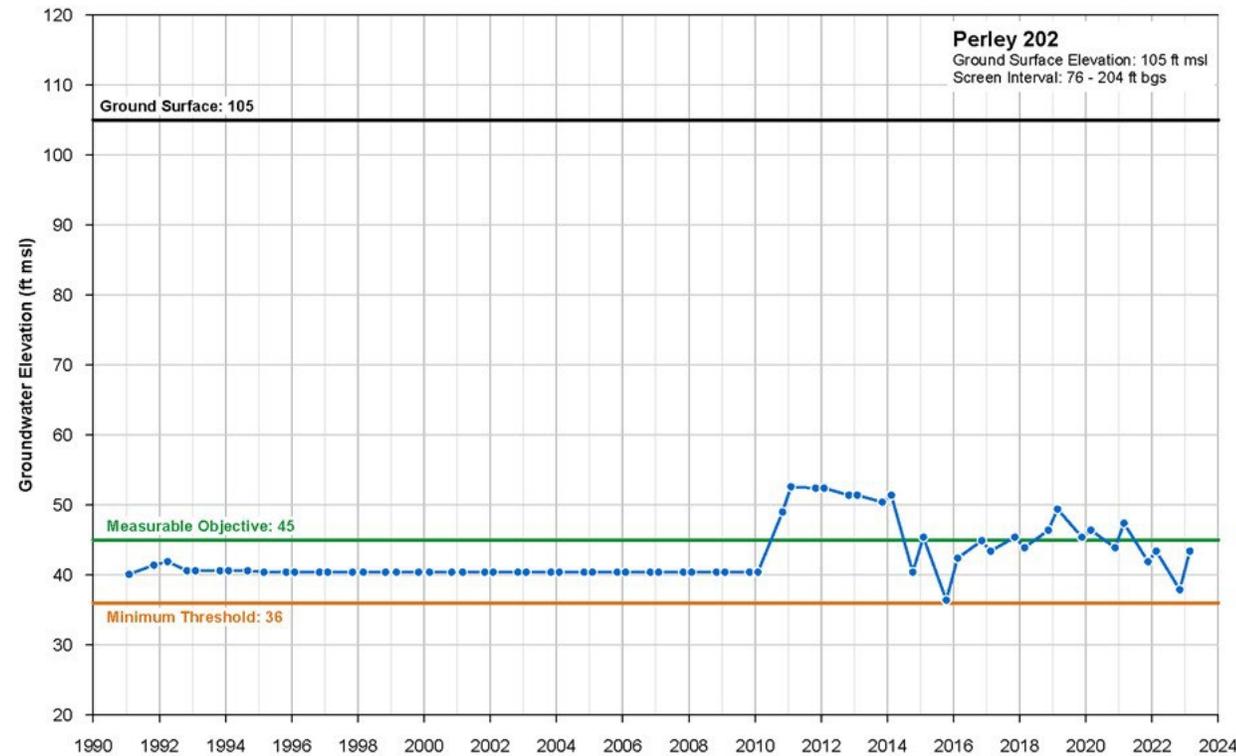
SPRING 2023 EASTERN PRINCIPAL AQUIFER



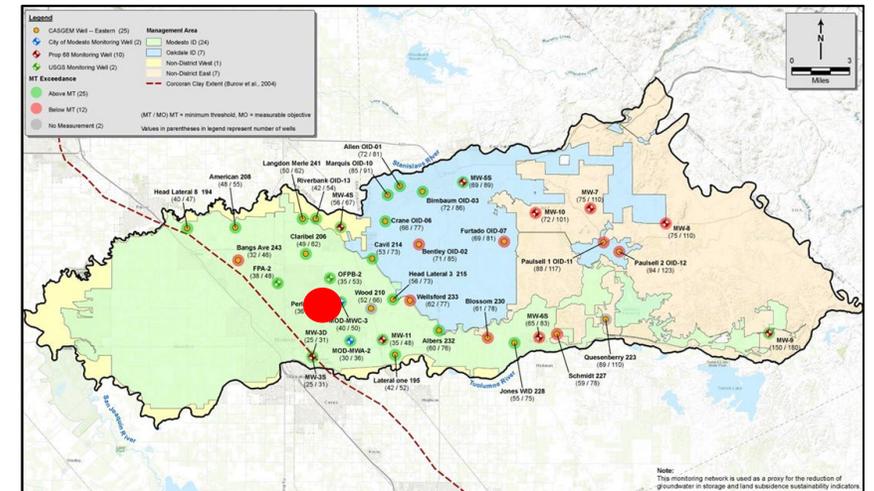
- 32% of RMWs below MT
 - 25 wells > MT
 - 12 wells < MT
 - 2 wells not monitored
- 14 RMWs have IMs (all above)

HYDROGRAPHS

EASTERN PRINCIPAL AQUIFER



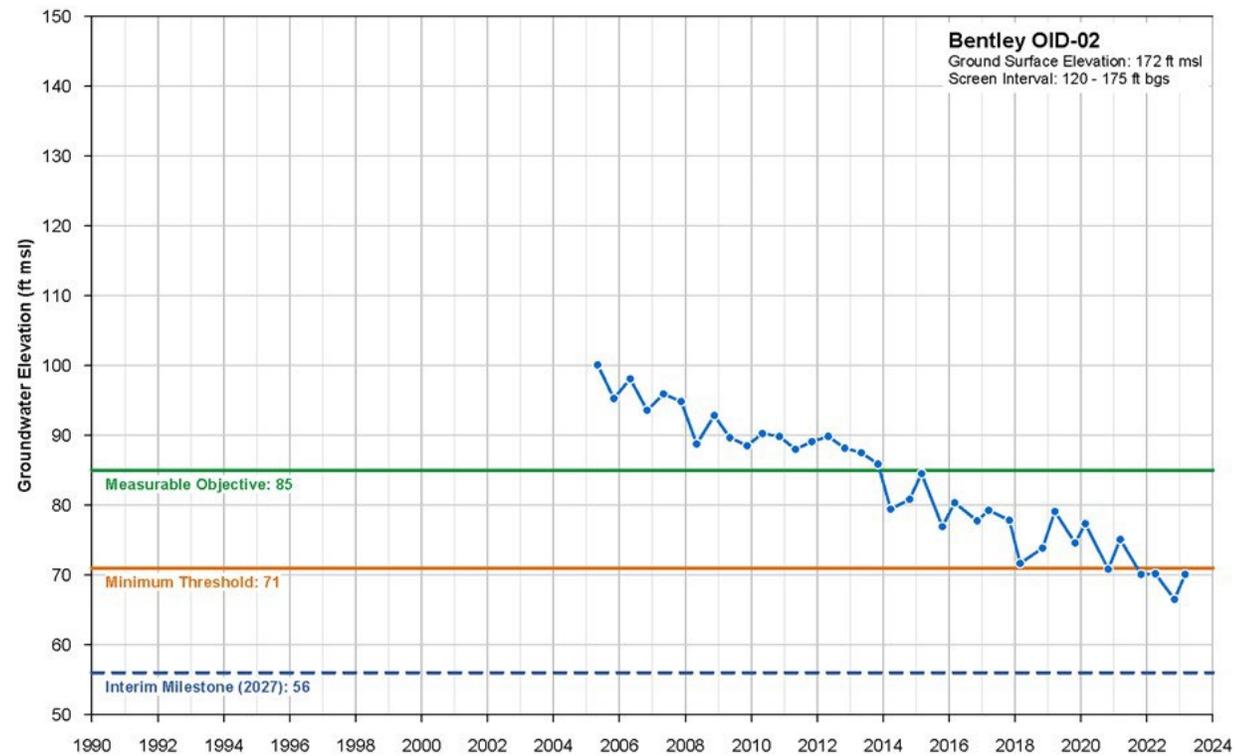
- Water level declined in Fall 2022, rebounded Spring 2023
- WY 2023 water levels between the MT and the MO



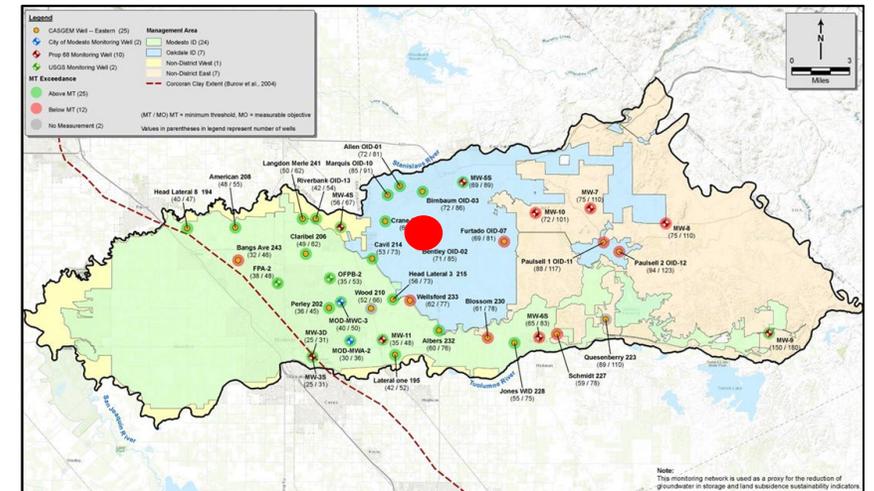
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HYDROGRAPHS

EASTERN PRINCIPAL AQUIFER



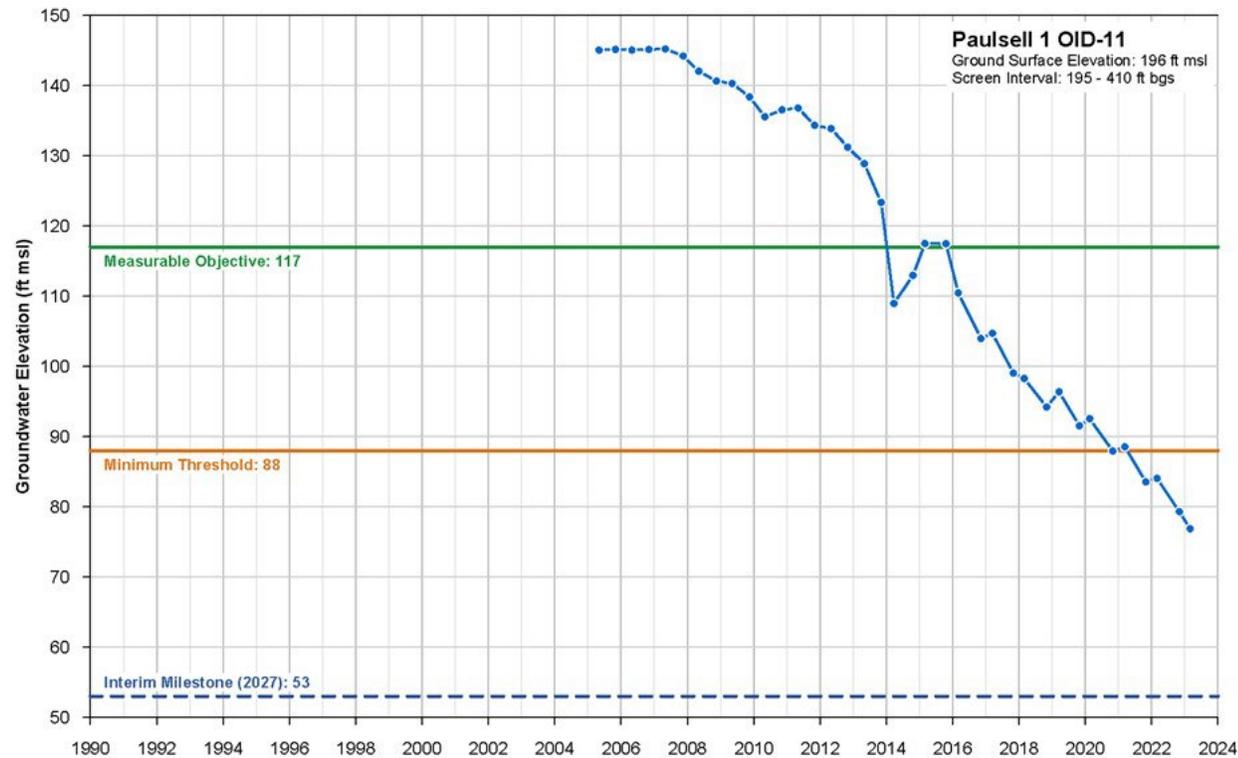
- Similar pattern
- Water levels below MT
- Decreasing water levels since first measurement in 2005



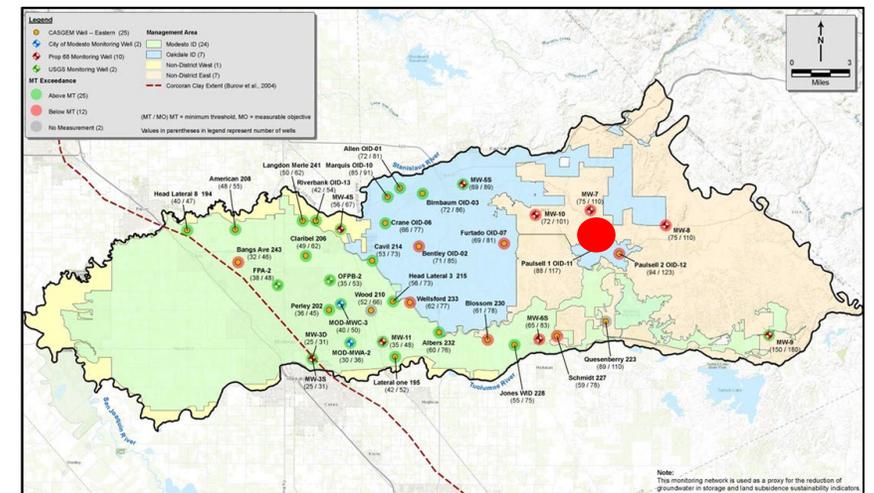
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HYDROGRAPHS

EASTERN PRINCIPAL AQUIFER

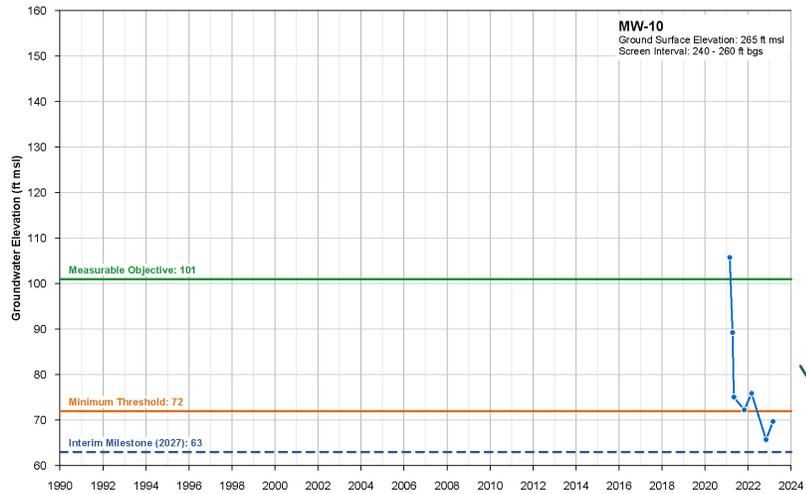


- WY 2023 water levels below the MT
- Eastern wells have highest rates of water level declines
- Declining water levels since 2008

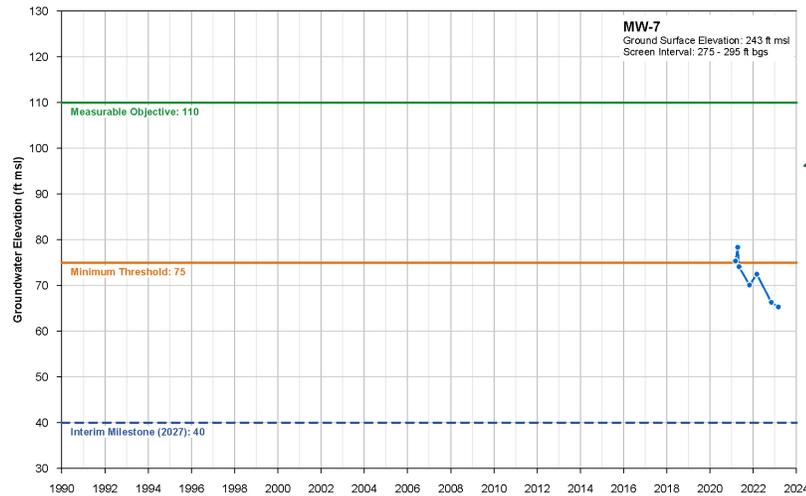


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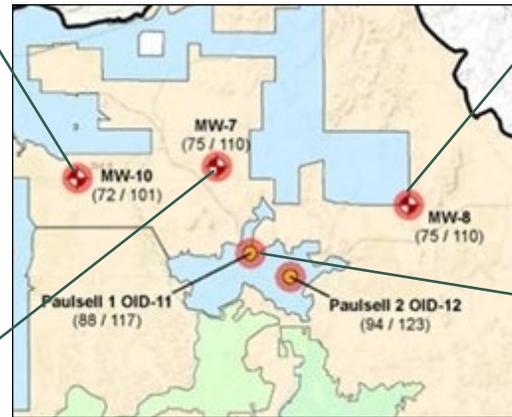
EASTERN PRINCIPAL AQUIFER: A CLOSER LOOK



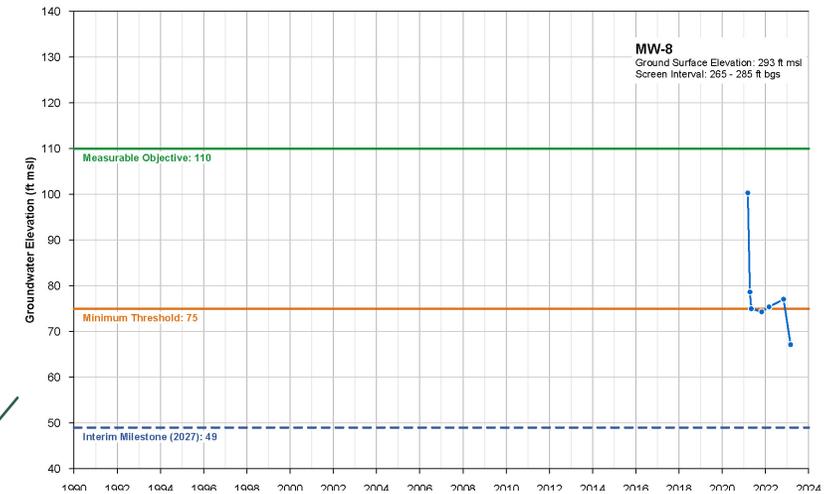
Water level decline, then rebound
(consistent with most of Subbasin)



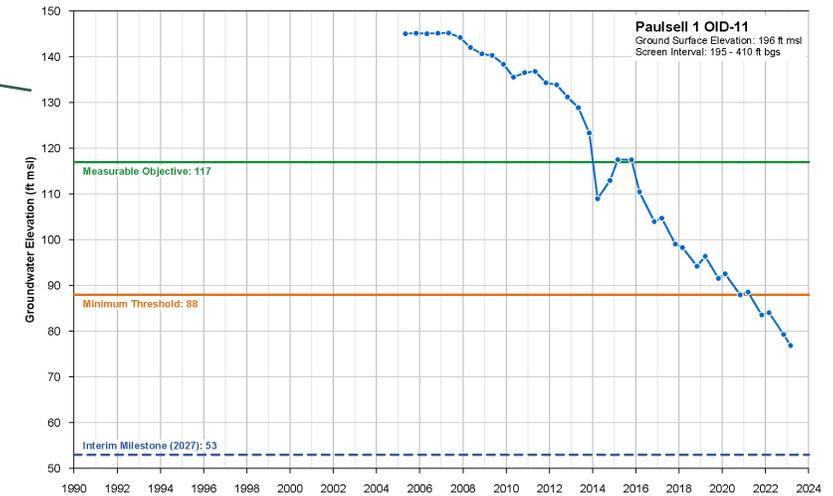
Continuous decline during WY 2023



- These wells are screened in the Mehrten Formation.
- Appears to be a stress within the Mehrten Formation east of MW-10 during the Spring 2023 monitoring event.



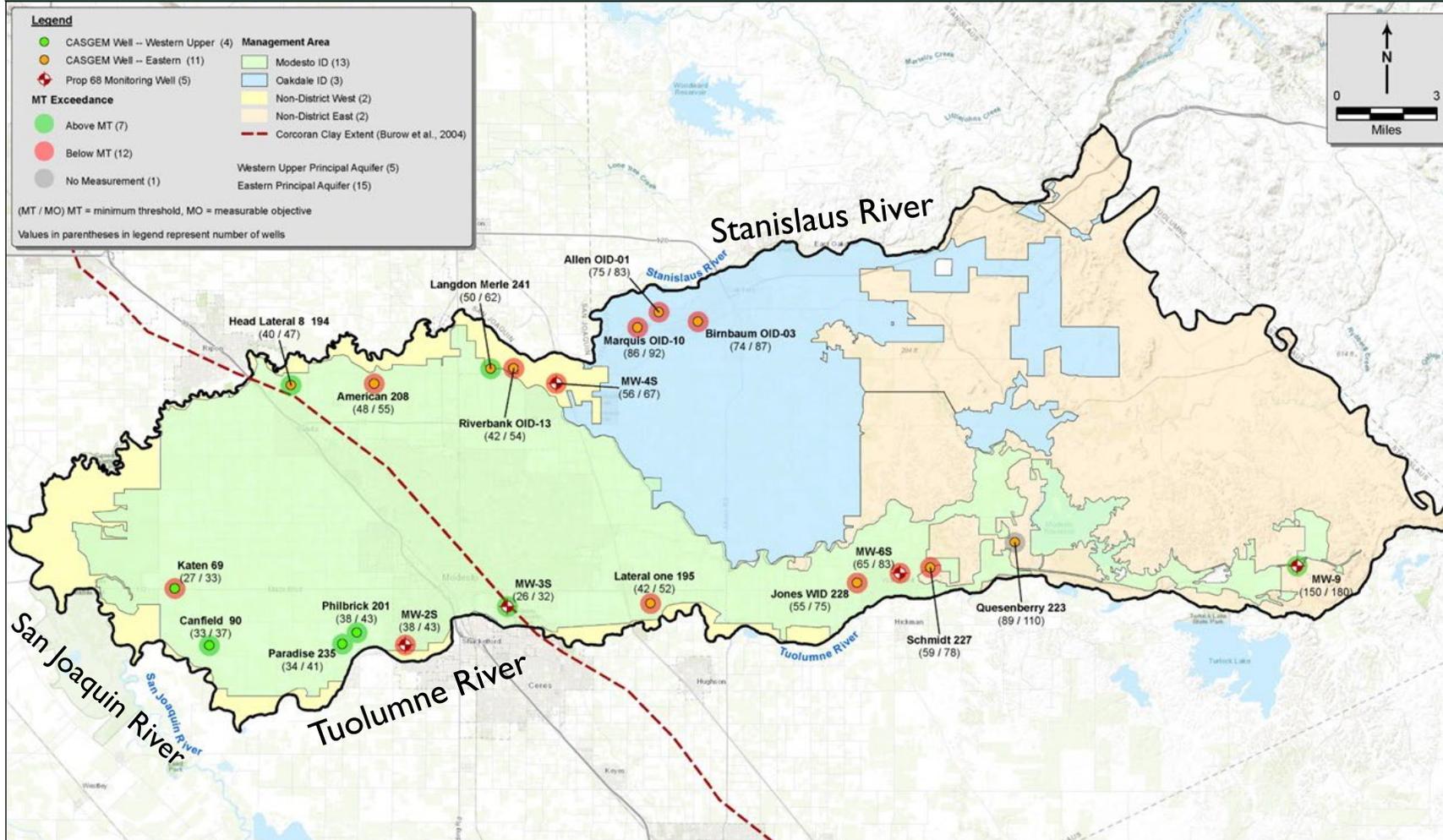
Fall 2022 increase, Spring 2023 decline
(counterintuitive)



Continuous decline during WY 2023
(Paulsell-2 has a similar trend)

FALL 2022

INTERCONNECTED SURFACE WATER



San Joaquin River

- 1 of 2 below MT (50% below MT)

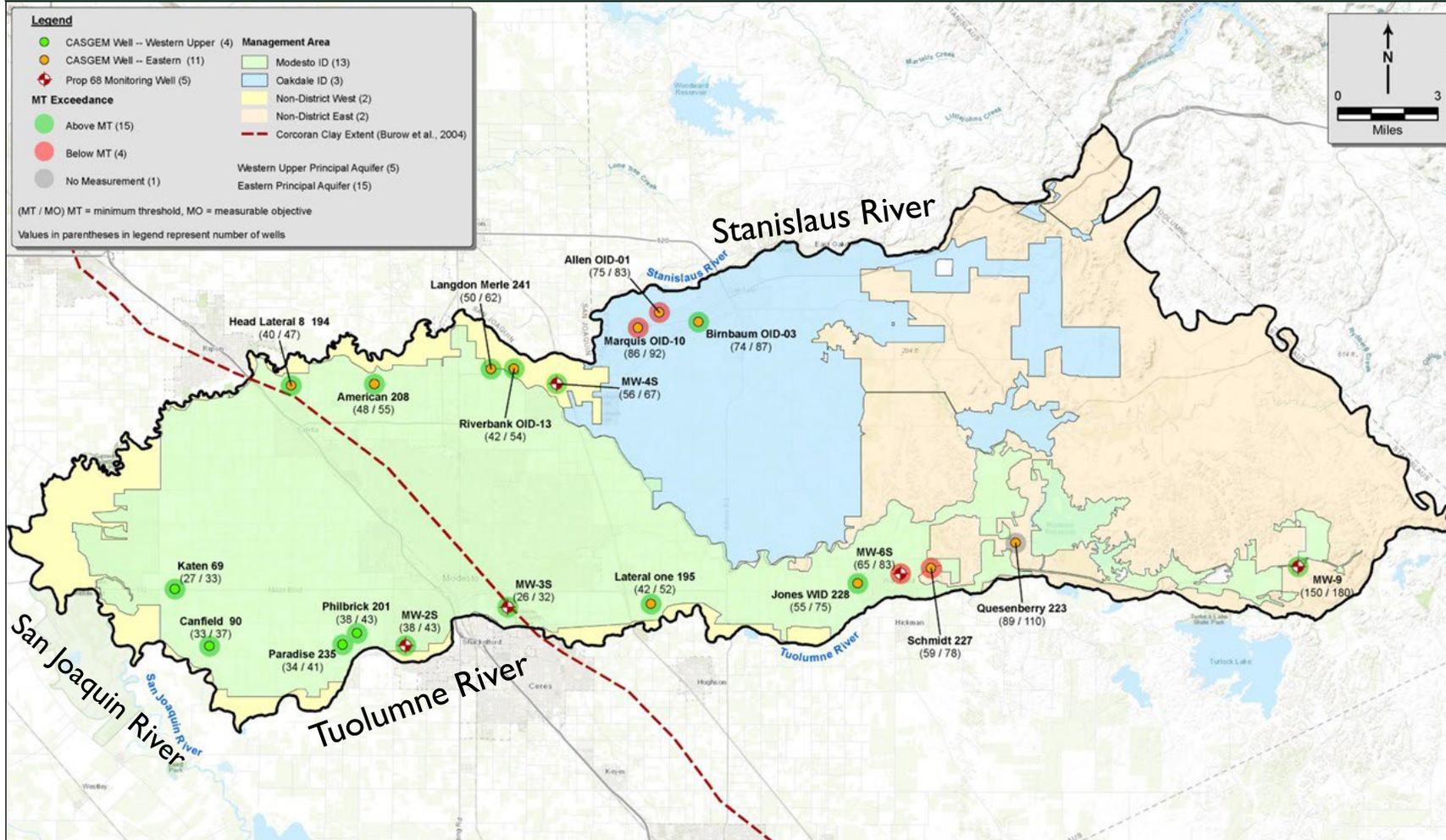
Stanislaus River

- 6 of 8 below MT (75% below MT)

Tuolumne River

- 4 of 9 below MT (56% below MT)
- 1 not measured

SPRING 2023 INTERCONNECTED SURFACE WATER



San Joaquin River

- 0 of 2 below MT (0% below MT)

Stanislaus River

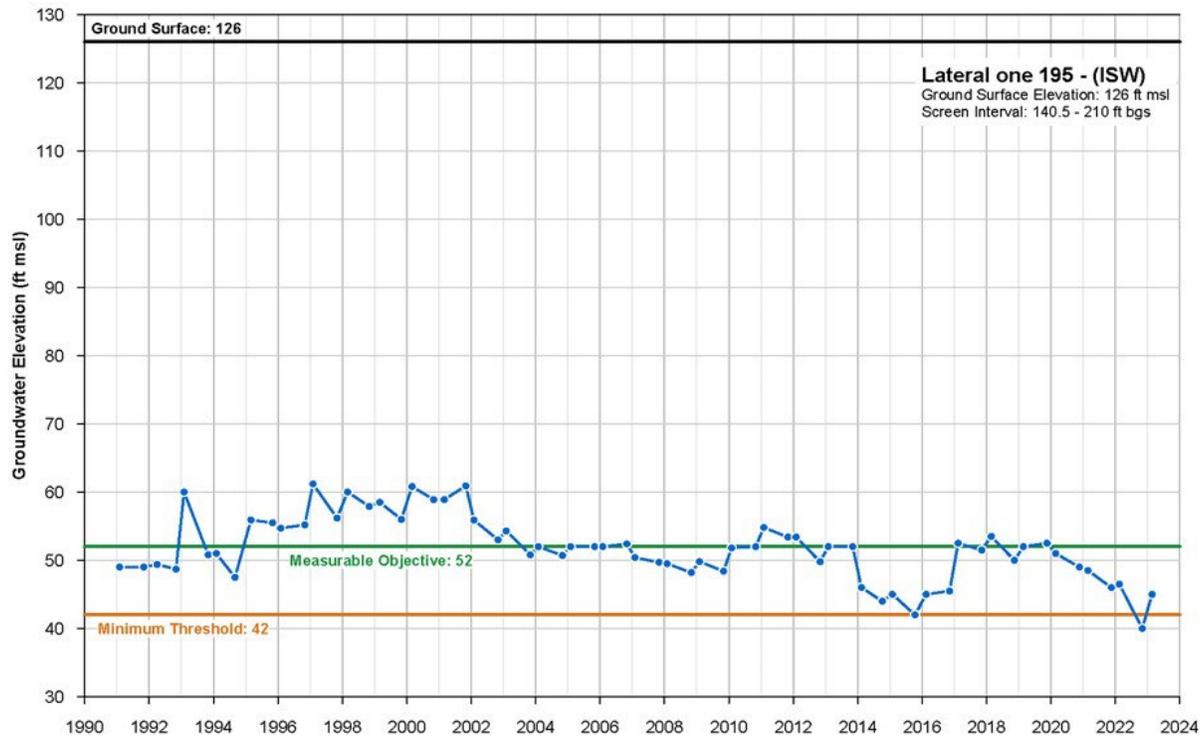
- 2 of 8 below MT (25% below MT)

Tuolumne River

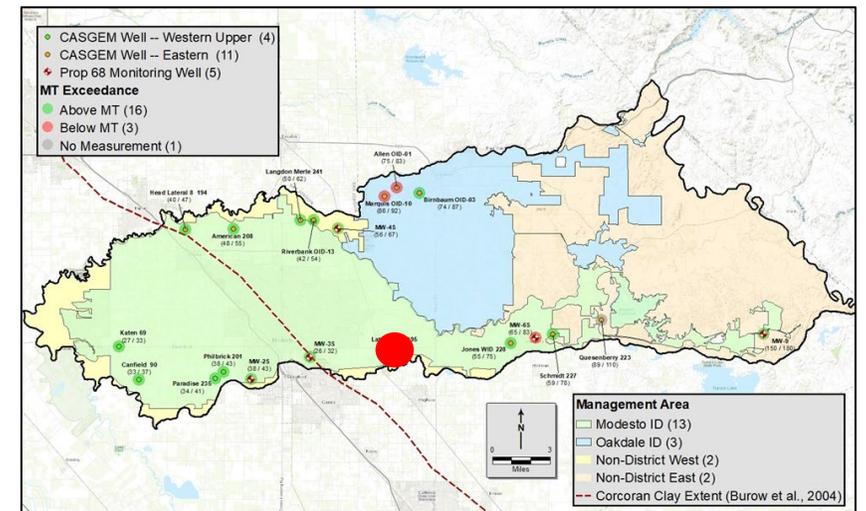
- 2 of 9 below MT (22% below MT)
- 1 not measured

HYDROGRAPHS

INTERCONNECTED SURFACE WATER



- Fall 2022 water level fell below the MT for the first time
- Rebounded above the MT in Spring 2023



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PUTTING THESE RESULTS IN PERSPECTIVE

- Fall 2022 monitoring event occurred after two consecutive critically dry years (WY 2021 and WY 2022). Observed water level declines are not surprising.
- Fall 2022 monitoring event is the first Fall event that counts towards undesirable results.
- Undesirable results have not been triggered.
 - Requires 33% exceedances in 3 consecutive Fall events for Chronic Lowering of GW
 - Requires 33% to 50% exceedances in 3 consecutive Fall events for ISW
- No wells are below IMs
- Keep an eye on the number of wells with MT exceedances in the Eastern Principal Aquifer and along the river boundaries

DATA REQUEST – THIRD ANNUAL REPORT

- Surface water operations: Modesto Irrigation District & Oakdale Irrigation District
 - Tuolumne River / Stanislaus River inflow
 - Surface water diversions
 - Surface water deliveries
 - Modesto Reservoir seepage
 - Canal seepage losses
 - Operational spills and return flow
- Construction information of any new agency-operated production wells
- Groundwater level data since the Spring 2023 monitoring event and groundwater production data for WY 2023
 - Modesto Irrigation District
 - Oakdale Irrigation District
 - City of Modesto
 - City of Riverbank
 - City of Oakdale
 - City of Waterford

*** Requesting data by the end of December 2023**



QUESTIONS?