ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT

ROSEDALE RIO BRAVO WATER STORAGE DISTRICT
GROUNDWATER SUSTAINABILITY AGENCY

MEETING OF THE BOARD OF DIRECTORS
ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT
AND
ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT GROUNDWATER SUSTAINABILITY AGENCY

849 ALLEN ROAD, BAKERSFIELD, CA 93314

AGENDA

September 9, 2025
8:00 a.m.

1. CALL TO ORDER / ROLL CALL

2. APPROVAL OF MINUTES

a) Regular Board Meeting Minutes of August 12, 2025

3. FINANCIAL REPORT

a) Treasurer's Report (MM)
b) Accounts Payable (MM)
c) Revenue and Expenditures (MM)
d) Consideration of FYE December 31, 2024 Audit and Financial Report (MM)
e) Water Charge Update (TT)

4. OPERATIONS AND MAINTENANCE REPORT

a) District Groundwater Levels (MN)
b) Operations (ZS)
c) Maintenance (ZS)
d) Consideration of Purchase of Pump Shade Covers (ZS)
e) Consideration of 2024 Operations Report (ZS)

5. WATER RESOURCES REPORT

a) State Water Project Operations (TT)
b) Delta Conveyance Project (TT)
c) Kern County Water Agency (TT)

6. MANAGER'S REPORT

a) Strategic Plan Update (RE/DB)
b) Rosedale Recap (RE)
c) Project Evaluation Update (DB)

7. ENGINEER'S REPORT

a) Onyx Ranch Project (DB)
b) Improvement Projects (MN)
c) Stockdale Intergrated Banking Project
    i. Consideration of Cultural Studies Proposal (RE)

8. COMMITTEE/SPECIAL PROJECT ACTIVITIES

a) Groundwater Banking Joint Powers Authority (DB & TT)
b) Sustainable Groundwater Management Act / Rosedale-Rio Bravo Water Storage District Groundwater Sustainability Agency (DB/TT/DR)
    i. SWRCB Hearing Preparation (DB)
    ii. Consderation of Amended SHE Mitigation Agreement (TT)
c) Kern Non-Districted Lands Joint Power Authority (DB/BW)
    i. White Land Assessment Structure (DB)
d) Kern Fan Monitoring Committee (MN)
e) Cross Valley Canal Advisory Committee (DB)
f) Pioneer Project Committee (DB)
g) Kern River Watershed Coalition Authority (ZS)
h) Kern Fan Authority (DB)
i) Joint Operating Committee (DB & TT)
j) Committee for Delta Reliability (TT)
k) South Valley Water Resources Authority (TT)
l) Valley Ag Water Coalition (TT)
m) Kern Integrated Regional Water Management Plan (TT)
n) Sites Reservoir Project (TT)
o) Association of California Water Agencies (TT)

9. ATTORNEY'S REPORT

a) Adoption of Revised District Salary Schedule

10. OLD OR NEW BUSINESS

11. CORRESPONDENCE

12. PUBLIC COMMENT

13. CLOSED SESSION

a) Conference with legal counsel – Anticipated Litigation: Significant Exposure to Litigation – *Government Code Section 54956.9(d)(2):* Two (2) Matters

b) Conference with legal counsel – Anticipated Litigation: Initiation of Litigation – *Government Code Section 54956.9(d)(4):* Two (2) Matters

c) Conference with legal counsel – Pending Litigation – *Government Code Section 54956.9 (d)(1):*
   i. State Water Resources Control Board – Applications to Appropriate Kern River Water
   ii. Department of Water Resources v. All Persons Interested (Validation Action)
   iii. Rosedale-Rio Bravo Water Storage District, et al. vs. Kern County Water Agency, et al. (CVC Litigation)
   iv. Buena Vista Water Storage District, et al. v. Rosedale-Rio Bravo Water Storage District (Three Separate Suits) (Onyx Ranch CEQA Litigation)
   v. Bring Back the Kern, et al v. Rosedale-Rio Bravo Water Storage District, et al. (Kern River Public Trust Litigation)

d) Conference with real property negotiator – *Government Code Section 54956.8* – Negotiators: Dan Bartel / Dan Raytis
   i. Property: Water Supply (Delta Conveyance). Negotiating parties: Various parties and Rosedale-Rio Bravo Water Storage District. Under negotiation: Price & Terms of Payment
   ii. Property: Water Supply. Negotiating parties: Various parties and Rosedale-Rio Bravo Water Storage District. Under negotiation: Price & Terms of Payment
   iii. Property: Various Parcels – Potential District Projects. Negotiating parties: Various parties and Rosedale-Rio Bravo Water Storage District. Under negotiation: Price & Terms of Payment
   iv. Property: Various Parcels – Kern Fan Project. Negotiating parties: Various parties and Rosedale-Rio Bravo Water Storage District, Irvine Ranch Water District and Groundwater Banking Joint Powers Authority.

14. ADJOURNMENT

DECLARATION OF POSTING: I, Rachelle Echeverria, declare under penalty of perjury, that I am employed by the Rosedale-Rio Bravo Water Storage District and I posted the foregoing Agenda at the District Office and on the District's website (www.rrbwsd.com) on or before Septmeber 5, 2025. ***Requests for disability-related modifications or accommodations, including auxiliary aids or services may be made by telephoning or contacting Megan Misuraca at mmisuraca@rrbwsd.com. Please attempt to make such requests known at least 24 hours before the scheduled meeting.***

BOARD OF DIRECTORS
ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT
MINUTES OF THE REGULAR BOARD MEETING
August 12, 2025
8:00 a.m.

DIRECTORS PRESENT

Roy Pierucci, Jason Selvidge, Mitch Millwee, Gary Unruh & Barry Watts

DIRECTORS ABSENT

None

OTHERS PRESENT

District Staff / Consultants – Dan Bartel, Trent Taylor, Megan Misuraca, Zach Smith, Rachelle Echeverria, Markus Nygren, Dan Raytis & Jennifer Spaletta
Public – Oscar Lopez

CALL TO ORDER

President Pierucci called the meeting to order at 8:00 a.m.

APPROVAL OF MINUTES

a) Regular Board Meeting Minutes of July 8, 2025
A motion was made by Director Millwee with a second by Director Unruh to approve the Board of Directors' July 8, 2025 regular meeting minutes. The motion unanimously passed.
AYES: Directors Pierucci, Selvidge, Unruh, Millwee and Watts
NOES: None
ABSTAINED: None

FINANCIAL REPORT

a) Treasurer's Report – Ms. Misuraca presented the Treasurer's Report as of July 31, 2025, to the Board, highlighting significant payments made in July. She noted that the County Fund Account balances are still estimates due to the transition to a new accounting system. Additionally, she reported staff has subscribed to a new system to help with changes to ownership of lands within the District and staff is working to complete a full analysis of all assessed properties within the District.
b) Accounts Payable/ July 8, 2025 through August 8, 2025 — Ms. Misuraca reviewed the accounts payable report with the Board. A motion was made by Director Unruh and seconded by Director Watts to ratify and approve payment of the accounts payable in the total amount of $652,687.45. The motion unanimously passed.
AYES: Directors Pierucci, Selvidge, Unruh, Watts and Millwee
NOES: None
ABSTAINED: None

c) Revenue and Expenditures Report – Ms. Misuraca presented the Revenue and Expenditures Report, comparing budgeted amounts to actuals through July 30, 2025. She highlighted several accounts that have large changes or budget overages compared to last month.
d) Water Charge Update – No report.

OPERATIONS AND MAINTENANCE REPORT

a) District Groundwater Levels – Mr. Nygren presented groundwater levels in relation to the District's minimum thresholds under SGMA in addition to a depth to water map across the District.
b) Operations Report – Mr. Smith provided an update on the District's water supplies and recharge and recovery operations.
c) Maintenance Report – Mr. Smith reported on maintenance efforts across the District, including removal of the sand pile at the Allen Road ponds and cleanup of debris in the tunnel left behind by transients.

WATER RESOURCES REPORT

a) State Water Project Operations – Mr. Taylor provided a detailed report on current State Water Project operations, including analysis of the 8-station index graph, reservoir conditions, and snow water content reports. He noted that staff continues to monitor conditions at Oroville to anticipate potential spill impacts on the District's carryover balance in San Luis Reservoir. Mr. Taylor also briefed the Board on a Department of Water Resources subsidence presentation, noting that State Water Project costs for the District are projected to nearly double by 2033.
b) California Delta Conveyance Project – Mr. Taylor briefed the Board on the Delta Conveyance Project schedule and ongoing funding discussions.
c) Kern County Water Agency Board Meeting Update – Mr. Taylor gave a brief report on the recent Kern County Water Agency meeting, noting that the agency is continuing its progress on the strategic planning process.

MANAGER'S REPORT

a) Strategic Plan Update – Ms. Echeverria reviewed the District's mission, values, and strategic priorities with the Board as a refresher, and briefed the Board on staff's efforts under Goal #3 of the strategic plan to develop a water charge, noting that the effort has been completed and the first round successfully implemented.
b) Rosedale Recap – Ms. Echeverria reported staff is working on the Rosedale Recap for August and provided metrics for the open and click rates of the newsletter.
c) Project Evaluation Update- Mr. Bartel presented his 'How Big Things Get Done' presentation to highlight staff's evaluation of District initiatives. Ms. Echeverria, serving as project manager, reviewed recaps from each team, including the Risk and Reliability Team, the Affordability Team, and the How Much Water Team.

ENGINEER'S / PROJECTS REPORT

a) Onyx Ranch
    i. Operations Report – Mr. Bartel briefed the Board on Onyx Ranch operations including the completion of the barn repair and reported project flows over the past month. He noted that the Coordination Agreement with First Point Kern River Interests has been executed, and an exchange agreement with the City of Bakersfield was finalized, allowing for project flows to commence being exchanged in July.

b) Improvement Projects – Mr. Nygren updated the Board on the status of various improvement projects across the District including progress on the SCADA project.
    i. Ratification of Fabricated Gate Purchase for West Superior – Mr. Nygren briefed the Board on the West Superior Weir construction progress. A motion was made by Director Unruh and seconded by Director Selvidge to ratify the purchase of 2 fabricated slide gates from Fresno Valve and Casting for West Superior weir structure in the amount of $22,800. The motion unanimously passed.

        AYES: Directors Pierucci, Selvidge, Unruh, Watts and Milwee
        NOES: None
        ABSTAINED: None

COMMITTEE REPORTS

a) Groundwater Banking Joint Powers Authority –
    i. Consideration of Design Proposal and Special Activities Agreement- Mr. Bartel briefed the Board on the Rosedale No. 1 Channel reverse flow restrictions and various options to resolve. A motion was made by Director Unruh and seconded by Director Millwee to authorize staff to execute a task order with Zeiders Consulting for up to $108,020 for the preparation of plans, specifications, and bid documents and also enter into a special activities agreement with the Groundwater Banking Joint Powers Authority to perform design and construction efforts. The motion unanimously passed.

        AYES: Directors Pierucci, Selvidge, Unruh, Millwee and Watts
        NOES: None
        ABSTAINED: None

b) South Valley Project- Mr. Bartel briefed the Board on the South Valley Project efforts.

c) Sustainable Groundwater Management Act / Rosedale-Rio Bravo Water Storage District Groundwater Sustainability Agency –
    i. Stakeholder Meeting Attendance- Mr. Bartel briefed the Board on the stakeholder attendance.
    ii. Public Hearing to consider the adoption of the 2025 Groundwater Sustainability Plan (GSP) (Link: www.kerngsp.com) and supporting appendix of projects and management actions for the Kern County Subbasin of the Tulare Lake Groundwater Basin – Mr. Raytis outlined the process for the public hearing. Mr. Raytis explained that it was the time for a public hearing regarding the adoption of the 2025 Groundwater Sustainability Plan for the Kern Subbasin, which the Rosedale GSA has participated in developing, and which would replace any GSPs previously approved by the Rosedale Board. He further

explained that various revisions to the 2025 Draft plans were made to accommodate the issues highlighted by DWR and others raised by the State Board staff. Mr. Raytis stated that Mr. Bartel would provide a presentation highlighting all of the effort that went into developing the GSP and that he would discuss in detail various components of the GSP and the changes that have been agreed to amongst the GSAs in the subbasin. Mr. Raytis further explained that after Mr. Bartel's presentation, the floor would be open to public comments. The Board then opened the public hearing at 10:05 a.m. and Mr. Bartel provided a detailed presentation on various components of the 2025 Groundwater Sustainability Plan and the process that all of the subbasin GSAs engaged in to develop and agree to the 2025 GSP. At the end of Mr. Bartel's presentation, the floor was opened for public comments. No public comments were received. The public hearing was closed at 10:20 a.m.

iii. Consideration of Adoption of 2025 GSP – The Board engaged in discussion of the 2025 GSP, at the end of which Director Unruh made a motion, with a second by Director Watts, to adopt the 2025 Kern County Subbasin Groundwater Sustainability Plan (Amended Final Version), subject to minor modifications that may be necessary to ensure ongoing subbasin coordination. The motion unanimously passed.

AYES: Directors Pierucci, Selvidge, Unruh, Millwee and Watts
NOES: None
ABSTAINED: None

iv. Consideration approving the Third Amended Kern County Subbasin Coordination Agreement among subbasin Groundwater Sustainability Agencies – Mr. Bartel reviewed the amended coordination agreement with the Board. The primary purposes of the amendments were to make the agreement consistent with the revisions to the GSP. A motion was made by Director Unruh and seconded by Director Selvidge to approve and authorize staff to execute the Third Amended Kern County Subbasin Coordination Agreement. The motion unanimously passed.

AYES: Directors Pierucci, Selvidge, Unruh, Millwee and Watts
NOES: None
ABSTAINED: None

v. Consideration of a contract amendment with Self-Hep Enterprises to administer the Kern County Subbasin Domestic Well Mitigation Program – This item was tabled to a future Board meeting. No action was taken at this time.

d) Kern Non-Districted Lands Joint Power Authority –

i. Consideration of Fourth Amendment to Joint Power Authority Formation Document – Mr. Bartel reminded the Board that authorization to sign the Fourth Amendment was given by the Board at the July meeting and staff is bringing the final version back for approval now that is complete. Mr. Raytis explained that the primary change was to revise the term to reaffirm the subbasin's commitment to having the KNDLA lands be managed. A motion was made by Director Watts with a second by Director Unruh to approve and authorize staff to execute the Fourth Amended and Restated Joint Exercise

of Powers Agreement with the Kern Non-Districted Lands Authority. The motion unanimously passed.

AYES: Directors Pierucci, Selvidge, Unruh, Watts and Millwee

NOES: None

ABSTAINED: None

e) Kern Fan Monitoring Committee – No report.
f) Cross Valley Canal Advisory Committee – No report.
g) Pioneer Project Committee – No report.
h) Kern River Watershed Coalition Authority (KRWCA) – Mr. Smith briefed the Board on the latest Kern River Watershed meeting.
i) Kern Fan Authority – No report.
j) Joint Operating Committee (JOC) – No report.
k) Committee for Delta Reliability – Mr. Taylor briefed the Board on the latest information from the group.
l) South Valley Water Resources Authority – Mr. Taylor briefed the Board on the Fish Friendly Diversion project reporting cost estimates are coming in higher than the original engineers estimates and the group is evaluating them at this time.
m) Valley Ag Water Coalition – No report.
n) Kern Integrated Regional Water Management Plan – No report.
o) Sites Reservoir Project – Mr. Taylor reported the updated cost estimates have been released on the project and staff is evaluating them.
p) Association of California Water Agencies – Mr. Taylor reported on the latest election updates.

ATTORNEY'S REPORT

None.

OLD OR NEW BUSINESS

Ms. Misuraca reported on the wellness grant received from ACWA JPIA and the sun care kit that was provided to employees with those funds.

CORRESPONDENCE

None.

PUBLIC COMMENT

None.

CLOSED SESSION

During the meeting, the Board met in closed session, as follows: At 10:31 a.m. President Pierucci announced the Board would meet in closed session. At 12:53 p.m. the Board reconvened to open session. Mr. Raytis reported that the Board did not take any reportable action during the closed session.

ADJOURNMENT

At 12:53 p.m. President Pierucci adjourned the meeting.

Monthly Financial Report

Rosedale-Rio Bravo Water Storage District
August 2025

Prepared by
Megan Misuraca

Prepared on
September 5, 2025

Cash Balance
Rosedale-Rio Bravo Water Storage District
August 1-31, 2025

		Credit	Debit	Balance
Tri-Counties Bank-Operations				
	Beginning Balance			3,502,004.21
Total for Tri-Counties Bank-Operations		**$246,249.59**	**$630,584.22**	**$3,117,669.58**
Tri-Counties Bank-Payroll				
	Beginning Balance			11,881.48
Total for Tri-Counties Bank-Payroll		**$160,312.46**	**$125,657.01**	**$46,536.93**
2020 COP W.F. Trust Funds M.M.				
	Beginning Balance			374.14
Total for 2020 COP W.F. Trust Funds M.M.		**$1.31**	**$0.00**	**$375.45**
Goldman Sachs Money Market				
	Beginning Balance			39,761.80
Total for Goldman Sachs Money Market		**$132.51**	**$0.00**	**$39,894.31**
Operations County Fund # 60520				
	Beginning Balance			51,896.34
Total for Operations County Fund # 60520 (*As of 6/30/2025)		**$0.00**	**$0.00**	**$51,896.34**
Bond Reserve County Fund #60527				
	Beginning Balance			990.16
Total for Bond Reserve County Fund #60527 (*As of 6/30/2025)		**$0.00**	**$0.00**	**$990.16**
General County Fund # 60510				
	Beginning Balance			15,063,086.29
Total for General County Fund # 60510 (*As of 6/30/2025)		**$0.00**	**$0.00**	**$15,063,086.29**
Bond Debt County Fund # 60526				
	Beginning Balance			5,415.03
Total for Bond Debt County Fund # 60526 (*As of 6/30/2025)		**$0.00**	**$0.00**	**$5,415.03**
		Total Cash Balance		**$18,325,864.09**

Investments / Cash Equivalent
Rosedale-Rio Bravo Water Storage District
August 1-31, 2025

		Credit	Debit	Balance
Investment AMG - Wells Fargo				
	Beginning Balance			16,613,277.11
Total for Investment AMG - Wells Fargo		**$102,200.72**	**$0.00**	**$16,715,477.83**
		Total Investment/Cash Equivalent		**$16,715,477.83**
		Total Cash and Cash Equivalent Balance		**$35,041,341.92**

Rosedale-Rio Bravo Water Storage District
AP for Ratification
August 9 - September 4, 2025

	Transaction Type	Num	Date	Amount	Split
Barnes Welding Supply					
	Bill Payment (Check)	4519	08/21/2025	-76.73	10006 Tri-Counties Bank-Operations
	Bill	63623892	08/08/2025	76.73	61650 Operating Supplies
BHK Accountancy Corporation					
	Bill Payment (Check)	4499	08/21/2025	-12,000.00	10006 Tri-Counties Bank-Operations
	Bill	158753	08/01/2025	12,000.00	63002 Audit and Accounting Services
Builders Mart					
	Bill Payment (Check)	4521	08/21/2025	-1,103.86	10006 Tri-Counties Bank-Operations
	Bill	4612 July 25	08/01/2025	606.67	61650 Operating Supplies
	Bill	4612 June 25	08/01/2025	497.19	61650 Operating Supplies
CA Dept of Fish & Wildlife Central Region					
	Bill Payment (Check)	4512	08/21/2025	-376.25	10006 Tri-Counties Bank-Operations
	Bill	KER-32380 Smith 2025	08/14/2025	376.25	60200 Licenses, Permits and Fees
	Bill Payment (Check)	4522	08/21/2025	-1,128.75	10006 Tri-Counties Bank-Operations
	Bill	KER-40539 Mack 2025	08/14/2025	1,128.75	-Split-
	Bill Payment (Check)	4523	08/21/2025	-752.50	10006 Tri-Counties Bank-Operations
	Bill	KER-41511 La/Nic 2025	08/14/2025	752.50	-Split-
Dan's Pest Management					
	Bill Payment (Check)	4509	08/21/2025	-120.00	10006 Tri-Counties Bank-Operations
	Bill	68502	08/18/2025	120.00	65100 Building Maintenance
David Janes Company					
	Bill Payment (Check)	4501	08/21/2025	-216.11	10006 Tri-Counties Bank-Operations
	Bill	0456656-IN	08/12/2025	216.11	61650 Operating Supplies
Delta Liquid Energy					
	Bill Payment (Check)	4516	08/21/2025	-36.99	10006 Tri-Counties Bank-Operations
	Bill	July 25	08/01/2025	36.99	66000 Utilities
Esparza Enterprises, Inc					
	Bill Payment (Check)	4506	08/21/2025	-5,724.34	10006 Tri-Counties Bank-Operations
	Bill	133594	08/20/2025	2,650.24	63007 Other Contracted Services
	Bill	133460	08/13/2025	3,074.10	-Split-
Kern Auto Parts					
	Bill Payment (Check)	4503	08/21/2025	-228.28	10006 Tri-Counties Bank-Operations
	Bill	95097	08/15/2025	228.28	65000 Auto Maintenance & Repair
Kern County Public Works					
	Bill Payment (Check)	4504	08/21/2025	-12.11	10006 Tri-Counties Bank-Operations
	Bill	51582	08/08/2025	12.11	60200 Licenses, Permits and Fees
Kern River Valley Chamber of Commerce					
	Bill Payment (Check)	4514	08/21/2025	-100.00	10006 Tri-Counties Bank-Operations
	Bill	5289	08/01/2025	100.00	Dues/Membership- Dues and Membership:Dues/Membership- Kernville Chamber of Commerce
Mission Uniform Service					
	Bill Payment (Check)	4518	08/21/2025	-104.84	10006 Tri-Counties Bank-Operations
	Bill	524359484	08/08/2025	104.84	63500 Janitorial
ParcelQuest					
	Bill Payment (Check)	4513	08/21/2025	-2,999.00	10006 Tri-Counties Bank-Operations
	Bill		08/11/2025	2,999.00	62005 Dues/Membership- Dues and Membership
PG&E (1091941045-5)					
	Bill Payment (Check)	4510	08/21/2025	-1,894.85	10006 Tri-Counties Bank-Operations

	Bill	1091941045-5 Aug 25	08/13/2025	1,894.85	61300 Surface Water Pumping
PG&E 7752864149-9					
	Bill Payment (Check)	4505	08/21/2025	-41.57	10006 Tri-Counties Bank-Operations
	Bill	7752864149-9 Aug 25	08/08/2025	41.57	61301 Groundwater Pumping
Purchase Power					
	Bill Payment (Check)	ACH	08/21/2025	-122.93	10006 Tri-Counties Bank-Operations
	Bill	September 2025	08/12/2025	122.93	62009 Postage and Delivery
R & G FARMS					
	Bill Payment (Check)	4515	08/21/2025	-489.20	10006 Tri-Counties Bank-Operations
	Bill	737	08/13/2025	489.20	65001 Equipment Maintenance & Repair
Rachelle Echeverria - Reimbursement					
	Bill Payment (Check)	4500	08/21/2025	-59.56	10006 Tri-Counties Bank-Operations
	Bill	2025-08-12	08/15/2025	59.56	-Split-
Rincon Consultants, Inc					
	Bill Payment (Check)	4508	08/21/2025	-31,921.76	10006 Tri-Counties Bank-Operations
	Bill	68138	08/19/2025	31,921.76	-Split-
Roy Pierucci					
	Bill Payment (Check)	4498	08/12/2025	-954.88	10006 Tri-Counties Bank-Operations
	Bill	July 2025	08/06/2025	954.88	62007 Directors' Fees
Southern California Edison (700122257127)					
	Bill Payment (Check)	4502	08/21/2025	-955.83	10006 Tri-Counties Bank-Operations
	Bill	700122257127 Aug 25	08/01/2025	955.83	-Split-
TARGET SPECIALTY PRODUCTS					
	Bill Payment (Check)	4507	08/21/2025	-8,452.05	10006 Tri-Counties Bank-Operations
	Bill	INVP501926493	08/04/2025	8,452.05	65500 Weed Contol/Chemicals
Thomas Harder & Co., Inc.					
	Bill Payment (Check)	4520	08/21/2025	-9,291.25	10006 Tri-Counties Bank-Operations
	Bill	25-054-139.2	08/08/2025	2,707.50	70201 Capital Environmental Services
	Bill	25-054-138.5	08/08/2025	6,583.75	63006 Hydrogeology Services
Verizon Wireless					
	Bill Payment (Check)	ACH	08/27/2025	-874.06	10006 Tri-Counties Bank-Operations
	Bill	6120341586	08/06/2025	874.06	66001 Phone / Internet
Wagner & Bonsignore CCE					
	Bill Payment (Check)	4511	08/21/2025	-7,223.95	10006 Tri-Counties Bank-Operations
	Bill	08-25-737	08/14/2025	7,223.95	63000 Legal Services

Total AP for ratification 87,261.65

Rosedale-Rio Bravo Water Storage District
AP for Board Approval
September 5, 2025

	Transaction Type	Num	Date	Amount	Split
ACE HARDWARE					
	Bill Payment (Check)	4536	09/05/2025	-24.43	10006 Tri-Counties Bank-Operations
	Bill	66587	09/03/2025	10.38	61650 Operating Supplies
	Bill	66551	08/26/2025	14.05	61650 Operating Supplies
ACWA - JPIA (Benefits)					
	Bill Payment (Check)	4543	09/05/2025	-18,322.20	10006 Tri-Counties Bank-Operations
	Bill	706970	09/02/2025	18,322.20	20035 Benefit Liability
Advanced Data Storage, Inc.					
	Bill Payment (Check)	4560	09/05/2025	-41.40	10006 Tri-Counties Bank-Operations
	Bill	216940	08/30/2025	41.40	62000 General Office
ASM Affiliates					
	Bill Payment (Check)	4556	09/05/2025	-1,415.85	10006 Tri-Counties Bank-Operations
	Bill	30445	08/14/2025	1,415.85	70201 Capital Environmental Services
Barnes Welding Supply					
	Bill Payment (Check)	4540	09/05/2025	-225.50	10006 Tri-Counties Bank-Operations
	Bill	63633164	08/28/2025	152.66	61650 Operating Supplies
	Bill	91718501	08/31/2025	72.84	61500 Equipment Rental
Barry Watts					
	Bill Payment (Check)	4549	09/05/2025	-503.50	10006 Tri-Counties Bank-Operations
	Bill	Aug 2025	09/04/2025	503.50	62007 Directors' Fees
Belden Blaine Raytis, LLP					
	Bill Payment (Check)	4539	09/05/2025	-25,089.00	10006 Tri-Counties Bank-Operations
	Bill	26884	09/02/2025	542.00	63000 Legal Services
	Bill	26885	09/02/2025	155.00	63000 Legal Services
	Bill	26882	09/02/2025	6,024.50	63000 Legal Services
	Bill	26883	09/02/2025	18,367.50	-Split-
Berchtold Equipment Company					
	Bill Payment (Check)	4527	09/05/2025	-3,085.13	10006 Tri-Counties Bank-Operations
	Bill	R01933	08/27/2025	3,085.13	61500 Equipment Rental
Christensen, Inc.					
	Bill Payment (Check)	4559	09/05/2025	-6,149.02	10006 Tri-Counties Bank-Operations
	Bill	407548	08/15/2025	5,284.03	-Split-
	Bill	408819	08/31/2025	864.99	-Split-
Coastline Equipment Exchange LLC					
	Bill Payment (Check)	4533	09/05/2025	-283.09	10006 Tri-Counties Bank-Operations
	Bill	1272850	08/25/2025	283.09	65001 Equipment Maintenance & Repair
Comptel Services					
	Bill Payment (Check)	4524	09/05/2025	-118.00	10006 Tri-Counties Bank-Operations
	Bill	32521	08/27/2025	118.00	66011 Technology Fees & Subscriptions
Esparza Enterprises, Inc					
	Bill Payment (Check)	4548	09/05/2025	-6,148.20	10006 Tri-Counties Bank-Operations
	Bill	133806	09/03/2025	3,074.10	-Split-
	Bill	133679	08/27/2025	3,074.10	-Split-
Gary Unruh					
	Bill Payment (Check)	4534	09/05/2025	-551.10	10006 Tri-Counties Bank-Operations
	Bill	Aug 2025	09/04/2025	551.10	62007 Directors' Fees
Jason Selvidge					
	Bill Payment (Check)	4545	09/05/2025	-254.32	10006 Tri-Counties Bank-Operations
	Bill	Aug 2025	09/04/2025	254.32	62007 Directors' Fees
JW Griffin Construction					

	Bill Payment (Check)	4557	09/05/2025	-34,200.00	10006 Tri-Counties Bank-Operations
	Bill	120 Part 2	08/01/2025	34,200.00	70001 Capital Building
Kern Auto Parts					
	Bill Payment (Check)	4546	09/05/2025	-512.41	10006 Tri-Counties Bank-Operations
	Bill	95553	08/22/2025	607.41	65000 Auto Maintenance & Repair
	Vendor Credit	96044	08/29/2025	-607.41	65000 Auto Maintenance & Repair
	Bill	95997	08/29/2025	512.41	65000 Auto Maintenance & Repair
Kern County Water Agency					
	Bill Payment (Check)	4525	09/05/2025	-362,611.74	10006 Tri-Counties Bank-Operations
	Bill	43079	09/01/2025	70,840.00	Third Party Project Operations:Cross Valley Canal
	Bill	43112	09/01/2025	5,054.74	Third Party Project Operations:Cross Valley Canal
	Bill	43092	09/01/2025	1,087.00	Third Party Project Operations:Cross Valley Canal
	Bill	43148	08/27/2025	285,630.00	61300 Surface Water Pumping
Kern Fan Monitoring Committee					
	Bill Payment (Check)	4565	09/05/2025	-10,358.00	10006 Tri-Counties Bank-Operations
	Bill	2024 Installment #2	08/29/2025	10,358.00	61450 Regulatory Programs
L&M Lumber Inc					
	Bill Payment (Check)	4550	09/05/2025	-45.47	10006 Tri-Counties Bank-Operations
	Bill	393331	08/19/2025	45.47	61650 Operating Supplies
Martinez Gardening Service					
	Bill Payment (Check)	4529	09/05/2025	-200.00	10006 Tri-Counties Bank-Operations
	Bill	767105 August 2025	08/22/2025	200.00	65100 Building Maintenance
Mission Uniform Service					
	Bill Payment (Check)	4563	09/05/2025	-209.68	10006 Tri-Counties Bank-Operations
	Bill	524529056	09/05/2025	104.84	63500 Janitorial
	Bill	524444404	08/22/2025	104.84	63500 Janitorial
Mitch Millwee					
	Bill Payment (Check)	4561	09/05/2025	-104.20	10006 Tri-Counties Bank-Operations
	Bill	Aug 2025	09/04/2025	104.20	62007 Directors' Fees
Office1					
	Bill Payment (Check)	4541	09/05/2025	-192.91	10006 Tri-Counties Bank-Operations
	Bill	AR1305051	08/11/2025	192.91	62001 Printing & Reproduction
PG&E (0439653883-9)					
	Bill Payment (Check)	4552	09/05/2025	-385.95	10006 Tri-Counties Bank-Operations
	Bill	0439653883-9 Sep 25	08/29/2025	385.95	61300 Surface Water Pumping
PG&E (1338232537-4)					
	Bill Payment (Check)	4537	09/05/2025	-1,927.08	10006 Tri-Counties Bank-Operations
	Bill	1338232537-4 Sep 25	08/29/2025	1,927.08	61301 Groundwater Pumping
PG&E (3923107207-3)					
	Bill Payment (Check)	4535	09/05/2025	-1,933.87	10006 Tri-Counties Bank-Operations
	Bill	3923107207-3 Sep 25	08/29/2025	1,933.87	61301 Groundwater Pumping
PG&E (5462966222-9)					
	Bill Payment (Check)	4547	09/05/2025	-41.57	10006 Tri-Counties Bank-Operations
	Bill	5462966222-9 Sep 25	08/27/2025	41.57	61301 Groundwater Pumping
PG&E (5592643715-7)					
	Bill Payment (Check)	4532	09/05/2025	-200.06	10006 Tri-Counties Bank-Operations
	Bill	5592643715-7 Sep 25	08/29/2025	200.06	61301 Groundwater Pumping
PG&E (5919499601-9)					
	Bill Payment (Check)	4531	09/05/2025	-248.64	10006 Tri-Counties Bank-Operations
	Bill	5919499601-9 Sep 25	08/29/2025	248.64	61301 Groundwater Pumping
PG&E (7649745985-9)					
	Bill Payment (Check)	4530	09/05/2025	-9.53	10006 Tri-Counties Bank-Operations
	Bill	7649745985-9 Sep 25	08/29/2025	9.53	66000 Utilities
PG&E (8190181094-5)					

	Bill Payment (Check)	4528	09/05/2025	-124.71	10006 Tri-Counties Bank-Operations
	Bill	8190181094-5 Sep 25	08/29/2025	124.71	61301 Groundwater Pumping
PG&E 6149047433-7					
	Bill Payment (Check)	4553	09/05/2025	-41.57	10006 Tri-Counties Bank-Operations
	Bill	6149047433-7 Aug 25	08/28/2025	41.57	61301 Groundwater Pumping
Roy Pierucci					
	Bill Payment (Check)	4544	09/05/2025	-1,069.44	10006 Tri-Counties Bank-Operations
	Bill	Aug 2025	09/04/2025	1,069.44	62007 Directors' Fees
Southern California Edison (700102049704)					
	Bill Payment (Check)	4526	09/05/2025	-264.33	10006 Tri-Counties Bank-Operations
	Bill	700102049704 Aug 25	08/29/2025	264.33	66000 Utilities
Southern California Edison (700511405161)					
	Bill Payment (Check)	4558	09/05/2025	-36.62	10006 Tri-Counties Bank-Operations
	Bill	700511405161 Aug 25	08/29/2025	36.62	66000 Utilities
Spectrum Business					
	Bill Payment (Check)	4564	09/05/2025	-156.25	10006 Tri-Counties Bank-Operations
	Bill	1355119090125 Sep	09/01/2025	156.25	66001 Phone / Internet
Standard Insurance					
	Bill Payment (Check)	4562	09/05/2025	-743.93	10006 Tri-Counties Bank-Operations
	Bill	September 2025	08/22/2025	743.93	-Split-
Stoel Rives LLP					
	Bill Payment (Check)	4554	09/05/2025	-9,458.63	10006 Tri-Counties Bank-Operations
	Bill	8086005	08/27/2025	5,946.00	63000 Legal Services
	Bill	8086004	08/27/2025	3,193.63	63000 Legal Services
	Bill	8086003	08/27/2025	319.00	63000 Legal Services
SUPERIOR SANITATION					
	Bill Payment (Check)	4551	09/05/2025	-342.50	10006 Tri-Counties Bank-Operations
	Bill	59100201	09/01/2025	342.50	66000 Utilities
Thomas Refuse Service, Inc					
	Bill Payment (Check)	4538	09/05/2025	-265.38	10006 Tri-Counties Bank-Operations
	Bill	59104735	09/01/2025	265.38	66000 Utilities
Tri Counties Bank					
	Bill Payment (Check)	ACH	09/05/2025	-6,351.46	10006 Tri-Counties Bank-Operations
	Bill	3913 Aug 25	08/31/2025	6,351.46	-Split-
Workforce go!					
	Bill Payment (Check)	4542	09/05/2025	-41.76	10006 Tri-Counties Bank-Operations
	Bill	INV-0041014	09/01/2025	41.76	60001 Payroll Taxes and Fees
YSI Incorporated, A Xylem Brand					
	Bill Payment (Check)	4555	09/05/2025	-170.79	10006 Tri-Counties Bank-Operations
	Bill	1162310	09/03/2025	170.79	66011 Technology Fees & Subscriptions

Total AP Current $ 494,459.22

Total AP Current + Ratified $ 581,720.87

Friday, Sep 05, 2025 12:24:09 PM GMT-7

FYE December 31, 2025 Budget vs. Actual
Budget vs. Actuals: FYE December 31, 2025 - FY25 P&L
January - August, 2025

	Aug 2025	Total		
	Actual	Actual	Budget	% of Budget
Income				
40000 Assesments		2,744,194.09	6,041,401.60	45.42%
40010 Prior Year Assesments		31,825.35	26,250.00	121.24%
40500 Water Charge		1,757,464.97	1,824,000.00	96.35%
40503 SW Pumping Reimbursement		6,085.00	330,000.00	1.84%
40506 Groundwater Mitigation		0.00	32,960.00	0.00%
40507 O & M Reimbursement		38,683.16	150,000.00	25.79%
40508 Groundwater Banking		5,759,644.00	5,760,000.00	99.99%
40509 Lease	1,210.00	62,264.50	75,000.00	83.02%
40510 GW Recovery Reimursement		213.76	2,100,000.00	0.01%
40511 Non-Reoccuring Water Sale		0.00	1,000,000.00	0.00%
40600 Interest	113,829.95	863,137.06	400,000.00	215.78%
41000 Other		11,800.00	5,500.00	214.55%
41001 Refunds and Credits	176,005.33	195,580.75	50,000.00	391.16%
41005 Income from Sale of Asset		0.00	20,000.00	0.00%
41010 Grant	340.00	740.00	1,000.00	74.00%
41050 Resource Management	4,656.54	92,297.80	150,000.00	61.53%
Total Income	**$ 296,041.82**	**$ 11,563,930.44**	**$ 17,966,111.60**	**64.37%**
Expenses				
60000 Wages and Salaries	117,579.56	978,205.80	1,651,692.00	59.22%
60001 Payroll Taxes and Fees	2,350.34	19,575.42	32,000.00	61.17%
60005 Staff Benefits	13,542.76	115,488.47	180,000.00	64.16%
60006 Staff Retirement	10,257.60	210,678.63	250,000.00	84.27%
60007 Workers Compensation Insurance	2,159.67	17,612.70	38,000.00	46.35%
60100 Bank Charges	259.76	2,268.39	3,000.00	75.61%
60110 Assesment Reimbursement		20,701.36	30,000.00	69.00%
60200 Licenses, Permits and Fees	2,269.61	5,629.94	8,000.00	70.37%
61000 KCWA SWP	5,318.00	3,913,143.00	4,000,000.00	97.83%
61001 COB Contract		0.00	2,494,400.00	0.00%
61050 Other Water Purchase		394,359.00	1,000,000.00	39.44%
61300 Surface Water Pumping	287,999.54	623,844.78	400,000.00	155.96%
61301 Groundwater Pumping	5,003.74	30,149.70	2,800,000.00	1.08%
61350 Well Mitigation		0.00	5,000.00	0.00%
Total 61400 Third Party Project Operations	0.00	75,815.62	1,505,408.00	5.04%
61450 Regulatory Programs	10,358.00	104,934.11	80,000.00	131.17%
61500 Equipment Rental	3,157.97	53,752.26	75,000.00	71.67%
61650 Operating Supplies	3,056.15	20,315.88	35,000.00	58.05%
61655 Water Quality Testing		3,806.94	30,000.00	12.69%
61660 Property Lease		71,604.00	75,000.00	95.47%
61800 Fuel	6,149.02	56,652.70	100,000.00	56.65%
62000 General Office	3,508.75	16,358.11	37,000.00	44.21%
62001 Printing & Reproduction	258.91	1,925.07	3,000.00	64.17%
62003 Publications and Notices		135.00	2,000.00	6.75%
Total 62005 Dues/Membership- Dues and Membership	3,099.00	55,976.00	145,065.83	38.59%
62007 Directors' Fees	1,693.52	18,265.26	33,000.00	55.35%
62008 Educational Fees	639.26	6,505.40	9,000.00	72.28%
62009 Postage and Delivery	157.03	771.05	1,500.00	51.40%
63000 Legal Services	33,474.25	199,177.53	700,000.00	28.45%
63002 Audit and Accounting Services	12,000.00	37,400.00	60,000.00	62.33%

63004 Engineering Services	698.53	16,089.77	50,000.00	32.18%
63005 Environmental Services		21,179.72	200,000.00	10.59%
63006 Hydrogeology Services	6,583.75	88,138.75	120,000.00	73.45%
63007 Other Contracted Services	11,585.48	127,922.62	250,000.00	51.17%
63010 Insurance		63,814.60	90,000.00	70.91%
63500 Janitorial	209.68	4,739.62	9,455.40	50.13%
64000 Water Transaction Fees		48,705.92	50,000.00	97.41%
65000 Auto Maintenance & Repair	2,175.65	24,502.71	25,000.00	98.01%
65001 Equipment Maintenance & Repair	1,664.75	14,271.47	50,000.00	28.54%
65002 Mileage Reimbursement	11.20	88.27	500.00	17.65%
65100 Building Maintenance	1,125.93	29,818.31	17,000.00	175.40%
65101 Water Structure Maintenance		0.00	30,000.00	0.00%
65200 Booster Pump Maintenance		0.00	22,000.00	0.00%
65201 Well Maintenance		10,957.75	50,000.00	21.92%
65500 Weed Contol/Chemicals	8,452.05	44,930.59	100,000.00	44.93%
66000 Utilities	1,434.36	14,027.26	18,000.00	77.93%
66001 Phone / Internet	1,078.89	8,746.90	16,000.00	54.67%
66011 Technology Fees & Subscriptions	1,289.85	20,679.62	36,000.00	57.44%
67000 Travel	892.85	13,703.11	11,025.00	124.29%
68000 Property Taxes		61,619.27	190,000.00	32.43%
70000 Capital Water Structure	1,000.00	130,755.02	1,225,000.00	10.67%
70001 Capital Building	34,200.00	60,915.40	15,000.00	406.10%
70100 Capital Booster Pump		0.00	12,000.00	0.00%
70101 Capital Well		289,640.50	300,000.00	96.55%
70200 Capital Engineering Services	33,654.50	51,216.00	125,000.00	40.97%
70201 Capital Environmental Services	36,045.11	103,391.83	70,000.00	147.70%
70500 Capital Auto		0.00	55,000.00	0.00%
70501 Capital Equipment	1,819.92	31,613.84	50,000.00	63.23%
70600 Capital Office Equipment		0.00	2,000.00	0.00%
70602 Capital Land		0.00	0.00	
Total 70700 Third Party Projects- Capital	0.00	742,500.00	5,000,000.00	14.85%
88004 2020 COP- Debt Service	106,182.48	3,464,459.84	3,934,798.63	88.05%
88100 COP Administration		0.00	9,000.00	0.00%
Total Expenses	**$ 774,397.42**	**$ 12,543,480.81**	**$ 27,915,844.86**	**44.93%**
Net Income	**-$ 478,355.60**	**-$ 979,550.37**	**-$ 9,949,733.26**	**9.84%**

ROSEDALE-RIO BRAVO
WATER STORAGE DISTRICT

849 Allen Road
Bakersfield, CA 93314
(661) 589-6045
www.rrbwsd.com

September 9, 2025

To: Rosedale-Rio Bravo Water Storage District Board of Directors

Agenda Item: 3d
From: Megan Misuraca
Re: Fiscal Year End December 31, 2024 Audit and Financial Statements

Discussion
Staff worked with BHK Accountancy to review and audit the District's Fiscal Year End December 31, 2024, financial statements and accounting processes. The audit was completed smoothly, and a presentation was made to the Finance Committee on September 5, 2025.

Key highlights from the audit presentation include:

- **Accounting Change**: Staff, in coordination with BHK, has modified the accounting method for assessments. Beginning in 2024, assessments are recognized when billed (August 2024 for this year) for the full amount, with any unpaid assessments recorded as assessment receivable at year-end rather than the current deferred method. To maintain consistency, 2023 financials were restated under this method, providing better alignment with the District's overall accounting practices. The change resulted in an overall increase to the District's net position of $5.8 million.
- **Net Position**: District operations in 2024 resulted in a $12 million increase to the District's net position.
- **Operating Revenues**: Decreased by approximately $5.8 million compared to the prior year, primarily due to reduced water sales resulting from limited water availability.
- **Non-Operating Revenues**: Increased by $10 million, largely attributable to a $7 million gain on the sale of the District's share of the James Water Bank Authority, $2 million in grant funding, and $1.3 million in investments through the Groundwater Banking Joint Powers Authority.
- **Operating Expenses**: Decreased by $5.3 million from the prior year, including $3.8 million less in water purchases and a $1.5 million reduction in transmission and distribution costs, both due to water availability.
- **Capital Assets**: Increased by $9.2 million, driven mostly by a $4 million land acquisition and $4.7 million invested in constructing three new wells.
- **Budget-to-Actual Variances – Revenues:** Revenues exceeded budgeted amounts primarily due to $1.2 million in unanticipated groundwater recovery income from a water exchange and $1.7 million in additional reimbursements and higher interest income. These were partially offset by $1.8 million in deferred water charge income, recognized in 2025.
- **Budget-to-Actual Variances – Expenses:** Operating expenses were $4.2 million under budget, mainly from $1.7 million in lower water purchases and the absence of $2.4 million in budgeted City of Bakersfield (COB) settlement water purchases, which were not available due to below-average water supply.
- **Single Audit:** The District exceeded the $750,000 federal grant income threshold in 2024, requiring a single audit of related expenses. BHK performed the audit and issued a clean report.

- **GASB Sick Pay Accrual Requirements-** Effective January 1, 2024, GASB rolled out Statement No. 101 that changes accounting for compensated absences. This change resulted in an increase to the District's current liabilities to add in the accrual of employee sick leave.
- **OPEB (Other Post Employment Benefits) change in accounting-** The District changed its method of calculating its OPEB liability to the Alternative Measurement Method as permitted by GASB Statement No. 75. The net impact of $695 to the income statement was recognized in the current year. The actuarial cost savings moving to the Alternative Measurement Method is $11,100 for the 2-year report.

Recommendation

Staff recommends the Board approve the District's Fiscal Year End December 31, 2024, financial statements and audit report.

ROSEDALE-RIO BRAVO
WATER STORAGE DISTRICT

849 Allen Road
Bakersfield, CA 93314
(661) 589-6045
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September 9, 2025

Barbich Hooper King Dill Hoffman
P.O. Box 11171
5001 E. Commercenter Dr. Suite 350
Bakersfield, CA 93389

This representation letter is provided in connection with your audits of the financial statements of Rosedale-Rio Bravo Water Storage District, which comprises the respective financial position as of December 31, 2024 and 2023, and the respective changes in financial position and cash flows for the years then ended, and the disclosures (collectively, the "financial statements"), for the purpose of expressing opinions as to whether the financial statements are presented fairly, in all material respects, in accordance with accounting principles generally accepted in the United States of America (U.S. GAAP).

Certain representations in this letter are described as being limited to matters that are material. Items are considered material, regardless of size, if they involve an omission or misstatement of accounting information that, in light of surrounding circumstances, makes it probable that the judgment of a reasonable person relying on the information would be changed or influenced by the omission or misstatement. An omission or misstatement that is monetarily small in amount could be considered material as a result of qualitative factors.

We confirm, to the best of our knowledge and belief, as of September 9, 2025, the following representations made to you during your audit.

Financial Statements

1) We have fulfilled our responsibilities, as set out in the terms of the audit engagement letter dated January 7, 2025, including our responsibility for the preparation and fair presentation of the financial statements in accordance with U.S. GAAP and for preparation of the supplementary information in accordance with the applicable criteria.
2) The financial statements referred to above are fairly presented in conformity with U.S. GAAP and include all properly classified funds and other financial information of the primary government and all component units required by generally accepted accounting principles to be included in the financial reporting entity.
3) We acknowledge our responsibility for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of the financial statements that are free from material misstatement, whether due to fraud or error.
4) We acknowledge our responsibility for the design, implementation, and maintenance of internal control to prevent and detect fraud.

5) The methods, significant assumptions, and data used in making accounting estimates and their related disclosures are appropriate to achieve recognition, measurement, or disclosure that is reasonable in accordance with U.S. GAAP.

6) Related party relationships and transactions, including revenues, expenditures/expenses, loans, transfers, leasing arrangements, and guarantees, and amounts receivable from or payable to related parties have been appropriately accounted for and disclosed in accordance with U.S. GAAP.

7) Adjustments or disclosures have been made for all events, including instances of noncompliance, subsequent to the date of the financial statements that would require adjustment to or disclosure in the financial statements or in the schedule of findings and questioned costs.

8) The effects of uncorrected misstatements are immaterial, both individually and in the aggregate, to the financial statements as a whole. In addition, you have proposed adjusting journal entries we are in agreement with, and they have been posted to the accounts.

9) The effects of all known actual or possible litigation, claims, and assessments have been accounted for and disclosed in accordance with U.S. GAAP.

10) Guarantees, whether written or oral, under which Rosedale-Rio Bravo Water Storage District is contingently liable, if any, have been properly recorded or disclosed.

Information Provided

11) We have provided you with:

    a) Access to all information, of which we are aware, that is relevant to the preparation and fair presentation of the financial statements, such as records (including information obtained from outside of the general and subsidiary ledgers), documentation, and other matters and all audit or relevant monitoring reports, if any, received from funding sources.

    b) Additional information that you have requested from us for the purpose of the audit.

    c) Unrestricted access to persons within the District from whom you determined it necessary to obtain audit evidence.

    d) Minutes of the meetings of the Board of Directors or summaries of actions of recent meetings for which minutes have not yet been prepared.

12) All material transactions have been recorded in the accounting records and are reflected in the financial statements and the schedule of expenditures of federal awards.

13) We have disclosed to you the results of our assessment of the risk that the financial statements may be materially misstated as a result of fraud.

14) We have no knowledge of any fraud or suspected fraud that affects the District and involves:

    - Management,
    - Employees who have significant roles in internal control, or
    - Others where the fraud could have a material effect on the financial statements.

15) We have no knowledge of any allegations of fraud or suspected fraud affecting the District's financial statements communicated by employees, former employees, regulators, or others.

16) We have no knowledge of instances of noncompliance or suspected noncompliance with provisions of laws, regulations, contracts, or grant agreements, or waste or abuse, whose effects should be considered when preparing financial statements.

17) We have disclosed to you all known actual or possible litigation, claims, and assessments whose effects should be considered when preparing the financial statements.

18) We have disclosed to you the names of the District's related parties and all the related party relationships and transactions, including any side agreements.

Government—specific

19) There have been no communications from regulatory agencies concerning noncompliance with, or deficiencies in, financial reporting practices.

20) We have identified to you any previous audits, attestation engagements, and other studies related to the objectives of the audit and whether related recommendations have been implemented.

21) We have identified to you any investigations or legal proceedings that have been initiated with respect to the period under audit.

22) The District has no plans or intentions that may materially affect the carrying value or classification of assets, deferred outflows of resources, liabilities, deferred inflows of resources, and fund balance or net position.

23) We are responsible for compliance with the laws, regulations, and provisions of contracts and grant agreements applicable to us, including tax or debt limits and debt contracts, and legal and contractual provisions for reporting specific activities in separate funds.

24) We have identified and disclosed to you all instances of identified and suspected fraud and noncompliance with provisions of laws, regulations, contracts, and grant agreements that we believe have a material effect on the financial statements

25) We have appropriately measured, recorded, and disclosed compensated absences and other salary-related payments in accordance with GASBS No. 101

26) There are no violations or possible violations of budget ordinances, laws and regulations (including those pertaining to adopting, approving, and amending budgets), provisions of contracts and grant agreements, tax or debt limits, and any related debt covenants whose effects should be considered for disclosure in the financial statements, or as a basis for recording a loss contingency, or for reporting on noncompliance.

27) As part of your audit, you assisted with the preparation of the financial statements and disclosures and schedule of expenditures of federal awards. We acknowledge our responsibility as it relates to those nonaudit services, including that we assume all management responsibilities; oversee the services by designating an individual, preferably within senior management, who possesses suitable skill, knowledge, or experience; evaluate the adequacy and results of the services performed; and accept responsibility for the results of the services. We have reviewed, approved, and accepted responsibility for those financial statements and disclosures.

28) The District has satisfactory title to all owned assets, and there are no liens or encumbrances on such assets nor has any asset been pledged as collateral.

29) The District has complied with all aspects of contractual agreements that would have a material effect on the financial statements in the event of noncompliance.

30) The financial statements include all component units, appropriately present majority equity interests in legally separate organizations and joint ventures with an equity interest, and properly disclose all other joint ventures and other related organizations.

31) The financial statements include all fiduciary activities required by GASB Statement No. 84, as amended.

32) The financial statements properly classify all funds and activities in accordance with GASB Statement No. 34, as amended.

33) Components of net position (net investment in capital assets; restricted; and unrestricted) and classifications of fund balance (nonspendable, restricted, committed, assigned, and unassigned) are properly classified and, if applicable, approved.

34) Investments, derivative instrument transactions, and land and other real estate held by endowments are properly valued.

35) Provisions for uncollectible receivables have been properly identified and recorded.

36) Expenses have been appropriately classified in or allocated to functions and programs in the statement of activities, and allocations have been made on a reasonable basis.

37) Revenues are appropriately classified in the statement of activities within program revenues, general revenues, contributions to term or permanent endowments, or contributions to permanent fund principal.

38) Deposits and investment securities and derivative instruments are properly classified as to risk and are properly disclosed.

39) Capital assets, including infrastructure and intangible assets, are properly capitalized, reported, and, if applicable, depreciated.

40) We have appropriately disclosed the District's policy regarding whether to first apply restricted or unrestricted resources when an expense is incurred for purposes for which both restricted and unrestricted net position is available and have determined that net position is properly recognized under the policy.

41) We acknowledge our responsibility for the required supplementary information (RSI). The RSI is measured and presented within prescribed guidelines and the methods of measurement and presentation have not changed from those used in the prior period. We have disclosed to you any significant assumptions and interpretations underlying the measurement and presentation of the RSI.

42) With respect to the Schedule of Operating Income to Debt Service Ratio-

    a) We acknowledge our responsibility for presenting the Schedule of Operating income to Debt Service Ratio in accordance with accounting principles generally accepted in the United States of America, and we believe the schedule, including its form and content, is fairly presented in accordance with accounting principles generally accepted in the United States of America. The methods of measurement and presentation of the Schedule of Operating Income to Debt Service Ratio have not changed from those used in the prior period, and we have disclosed to you any significant assumptions or interpretations underlying the measurement and presentation of the supplementary information.

b) If the Schedule of Operating Income to Debt Service Ratio is not presented with the audited financial statements, we will make the audited financial statements readily available to the intended users of the supplementary information no later than the date we issue the supplementary information and the auditor's report thereon.

43) Water in storage is properly valued, reported, and classified and the District's policy regarding water in storage is properly disclosed. Significant assumptions we used in making changes to accounting water loss estimates, including those measured at fair value, are reasonable

1) With respect to federal award programs:

a) We are responsible for understanding and complying with and have complied with, the requirements of Title 2 U.S. *Code of Federal Regulations* (CFR) Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance), including requirements relating to preparation of the schedule of expenditures of federal awards.

b) We acknowledge our responsibility for preparing and presenting the schedule of expenditures of federal awards (SEFA) and related disclosures in accordance with the requirements of the Uniform Guidance, and we believe the SEFA, including its form and content, is fairly presented in accordance with the Uniform Guidance. The methods of measurement or presentation of the SEFA have not changed from those used in the prior period and we have disclosed to you any significant assumptions and interpretations underlying the measurement or presentation of the SEFA.

c) If the SEFA is not presented with the audited financial statements, we will make the audited financial statements readily available to the intended users of the SEFA no later than the date we issue the SEFA and the auditor's report thereon.

d) We have identified and disclosed to you all of our government programs and related activities subject to the Uniform Guidance compliance audit, and have included in the SEFA, expenditures made during the audit period for all awards provided by federal agencies in the form of federal awards, federal cost-reimbursement contracts, loans, loan guarantees, property (including donated surplus property), cooperative agreements, interest subsidies, insurance, food commodities, direct appropriations, and other direct assistance.

e) We are responsible for understanding and complying with, and have complied with, the requirements of federal statutes, regulations, and the terms and conditions of federal awards related to each of our federal programs and have identified and disclosed to you the requirements of federal statutes, regulations, and the terms and conditions of federal awards that are considered to have a direct and material effect on each major program.

f) We are responsible for establishing, designing, implementing, and maintaining, and have established, designed, implemented, and maintained, effective internal control over compliance for federal programs that provides reasonable assurance that we are managing our federal awards in compliance with federal statutes, regulations, and the terms and conditions of federal awards that could have a material effect on our federal programs. We believe the internal control system is adequate and is functioning as intended.

g) We have made available to you all federal awards (including amendments, if any) and any other correspondence with federal agencies or pass-through entities relevant to federal programs and related activities.

h) We have received no requests from a federal agency to audit one or more specific programs as a major program.

i) We have complied with the direct and material compliance requirements (except for noncompliance disclosed to you), including when applicable, those set forth in the *OMB Compliance Supplement* relating to federal awards and confirm that there were no amounts questioned and no known noncompliance with the direct and material compliance requirements of federal awards.

j) We have disclosed any communications from federal awarding agencies and pass-through entities concerning possible noncompliance with the direct and material compliance requirements, including communications received from the end of the period covered by the compliance audit to the date of the auditor's report.

k) We have disclosed to you the findings received and related corrective actions taken for previous audits, attestation engagements, and internal or external monitoring that directly relate to the objectives of the compliance audit, including findings received and corrective actions taken from the end of the period covered by the compliance audit to the date of the auditor's report.

l) Amounts claimed or used for matching were determined in accordance with relevant guidelines in OMB's Uniform Guidance (2 CFR part 200, subpart E).

m) We have disclosed to you our interpretation of compliance requirements that may have varying interpretations.

n) We have made available to you all documentation related to compliance with the direct and material compliance requirements, including information related to federal program financial reports and claims for advances and reimbursements.

o) We have disclosed to you the nature of any subsequent events that provide additional evidence about conditions that existed at the end of the reporting period affecting noncompliance during the reporting period.

p) There are no such known instances of noncompliance with direct and material compliance requirements that occurred subsequent to the period covered by the auditor's report.

q) No changes have been made in internal control over compliance or other factors that might significantly affect internal control, including any corrective action we have taken regarding significant deficiencies or material weaknesses in internal control over compliance, subsequent to the period covered by the auditor's report.

r) Federal program financial reports and claims for advances and reimbursements are supported by the books and records from which the financial statements have been prepared.

s) The copies of federal program financial reports provided you are true copies of the reports submitted, or electronically transmitted, to the respective federal agency or pass-through entity, as applicable.

t) We have charged costs to federal awards in accordance with applicable cost principles.

u) We are responsible for and have ensured the reporting package does not contain protected personally identifiable information.

v) We are responsible for and have accurately prepared the auditee section of the Data Collection Form as required by the Uniform Guidance.

w) We are responsible for taking corrective action on each audit finding of the compliance audit and have developed a corrective action plan that meets the requirements of the Uniform Guidance.

ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT

_____

Dan Bartel, General Manager

_____

Megan Misuraca, Finance Manager

September 9, 2025

To the Board of Directors
Rosedale-Rio Bravo Water Storage District

We have audited the financial statements of Rosedale-Rio Bravo Water Storage District (the District) for the year ended December 31, 2024. Professional standards require that we provide you with information about our responsibilities under generally accepted auditing standards, *Government Auditing Standards* and the Uniform Guidance, as well as certain information related to the planned scope and timing of our audit. We have communicated such information in our letter to you dated January 7, 2025. Professional standards also require that we communicate to you the following information related to our audit.

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Significant Audit Matters

Qualitative Aspects of Accounting Practices

Management is responsible for the selection and use of appropriate accounting policies. The significant accounting policies used by the District are described in Note 1 to the financial statements. As described in Note 11 to the financial statements, during 2024, the District changed its timing for recognition of assessment revenue whereby the District is now recognizing the revenue at the time of the initial assessment. The impact of this change was an increase in the net position of $5,855,000. In addition, the District changed its method of accounting for its OPEB plan to the Alternative Accounting Method. This change had minimal impact to the overall financial statements. We noted no other transactions entered into by the District during the year for which there is a lack of authoritative guidance or consensus. All significant transactions have been recognized in the combined financial statements in the proper period.

Accounting estimates are an integral part of the financial statements prepared by management and are based on management's knowledge and experience about past and current events and assumptions about future events. Certain accounting estimates are particularly sensitive because of their significance to the financial statements and because of the possibility that future events affecting them may differ significantly from those expected. The most sensitive estimate affecting the District's financial statements was:

> Management's estimate of the net pension liability and OPEB and the corresponding deferred outflows and inflows is based on the CalPERS's valuation report and the actuarial valuation from Foster & Foster. We evaluated the key factors and assumptions used in determining these values are reasonable in relation to the financial statements taken as a whole.

Certain financial statement disclosures are particularly sensitive because of their significance to financial statement users. The most sensitive disclosures affecting the financial statements were:

> The disclosure regarding the pension plans' and OPEB funding policies, costs and actuarial methods and assumptions.
>
> The disclosures covering the water contracts with Coachella Valley Water District and Castaic Lake Water Agency

The financial statement disclosures are neutral, consistent, and clear.

Difficulties Encountered in Performing the Audit

We encountered no significant difficulties in dealing with management in performing and completing our audit.

Corrected and Uncorrected Misstatements

Professional standards require us to accumulate all known and likely misstatements identified during the audit, other than those that are clearly trivial, and communicate them to the appropriate level of management. Management has corrected all such misstatements. The attached schedule summarizes the significant corrected misstatements of the financial statements.

Disagreements with Management

For purposes of this letter, a disagreement with management is a financial accounting, reporting, or auditing matter, whether or not resolved to our satisfaction, that could be significant to the financial statements or the auditor's report. We are pleased to report that no such disagreements arose during the course of our audit.

Management Representations

We have requested certain representations from management that are included in the management representation letter dated September 9, 2025.

Management Consultations with Other Independent Accountants

In some cases, management may decide to consult with other accountants about auditing and accounting matters, similar to obtaining a "second opinion" on certain situations. If a consultation involves application of an accounting principle to the District's financial statements or a determination of the type of auditor's opinion that may be expressed on those statements, our professional standards require the consulting accountant to check with us to determine that the consultant has all the relevant facts. To our knowledge, there were no such consultations with other accountants.

Other Audit Findings or Issues

We generally discuss a variety of matters, including the application of accounting principles and auditing standards, with management each year prior to retention as the District's auditors. However, these discussions occurred in the normal course of our professional relationship and our responses were not a condition to our retention.

Other Matters

We applied certain limited procedures to Management's Discussion and Analysis, the Schedule of the District's Proportionate Share of the Net Pension Liability, Schedule of Pension Contributions, and Schedule of Changes in the District's Total OPEB Liability and Related Ratios, which are required supplementary information (RSI) that supplements the basic financial statements. Our procedures consisted of inquiries of management regarding the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We did not audit the RSI and do not express an opinion or provide any assurance on the RSI.

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We were engaged to report on the Schedule of Operating Income to Debt Service Ratio, which accompanies the financial statements but is not RSI in addition to the schedule of expenditures of federal awards (SEFA). With respect to this supplementary information and SEFA, we made certain inquiries of management and evaluated the form, content, and methods of preparing the information to determine that the information complies with accounting principles generally accepted in the United States of America, the method of preparing it has not changed from the prior period, and the information is appropriate and complete in relation to our audit of the financial statements. We compared and reconciled the supplementary information to the underlying accounting records used to prepare the financial statements or to the financial statements themselves.

Restriction on Use

This information is intended solely for the information and use of Board of Directors and management of Rosedale-Rio Bravo Water Storage District and is not intended to be, and should not be, used by anyone other than these specified parties.

Very truly yours,

BARBICH HOOPER KING
DILL HOFFMAN, LLP

Bakersfield, California
September 9, 2025

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Rosedale-Rio Bravo Water Storage Distrct
Audit for the Year Ended December 31, 2024
Schedule of Corrected Misstatements

Listing of Corrected Misstatements:	**Debit**	**Credit**
1) Investment in GBJPA	2,756,965	
Operating expenses		2,756,965
Investment in GBJPA	1,278,232	
Equity in Income from GBJPA		1,278,232
To record activity with GBJPA water banking project		
2) Long-term Debt	2,520,000	
Interest Expense		2,520,000
To reclass principal portion of debt from interest expense		
3) Gain on Sale of James JPA	5,800,529	
Investment in James JPA		5,800,529
To offset investment in James JPA from gain on sale		
4) Capital assets	9,257,018	
Operating expenses		9,257,018
To record 2024 transactions into CIP that correspond to construction projects		
5) Depreciation and amortization expense	1,875,203	
Accumulated depreciation and amortization		1,875,203
To record current year depreciation expense		
6) Deferred revenue, drought relief project	689,956	
Revenue		689,956
To recognize the portion of the DRP liabilities in current year revenue		
7) Assessments Receivable	2,853,430	
Assessments Revenue	3,001,759	
Net Position		5,855,189
Impact of change in accounting principle for recognition of asessment revenue		

Rosedale-Rio Bravo Water Storage District

Financial Statements

December 31, 2024 and 2023

DRAFT

C O N T E N T S

	Page(s)
Independent Auditors' Report	1 - 3
Management's Discussion and Analysis (Required Supplementary Information)	4 - 8
Financial Statements	
Statements of Net Position	9 - 10
Statements of Revenue and Expenses	11
Statements of Changes in Net Position	12
Statements of Cash Flows	13 - 14
Notes to Financial Statements	15 - 35
Required Supplementary Information	
Schedules of District's Proportionate Share of Net Pension Liability (CalPERS)	36
Schedules of Pension Contributions (CalPERS)	37
Schedules of Changes in the District's Total OPEB Liability and Related Ratios	38
Supplementary Information	
Schedules of Operating Income to Debt Service Ratio	39
Independent Auditors' Report on Internal Control over Financial Reporting and on Compliance and Other Matters Based on an Audit of Financial Statements Performed in Accordance with Government Auditing Standards	40 - 41
Independent Auditors' Report on Compliance for Each Major Program and On Internal Control over Compliance Required by the Uniform Guidance	42 - 43
Schedule of Expenditures of Federal Awards	44
Notes to Schedule of Expenditures of Federal Awards	45
Schedule of Findings and Questioned Costs	46

DRAFT

Independent Auditors' Report

Board of Directors
Rosedale-Rio Bravo Water Storage District
Bakersfield, California

Opinions

We have audited the accompanying financial statements of Rosedale-Rio Bravo Water Storage District (the District) as of and for the years ended December 31, 2024 and 2023, and the related notes to the financial statements, which collectively comprise the District's basic financial statements as listed in the table of contents.

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the District as of December 31, 2024 and 2023, and the respective changes in financial position and cash flows thereof for the years then ended in accordance with accounting principles generally accepted in the United States of America.

Basis for Opinions

We conducted our audits in accordance with auditing standards generally accepted in the United States of America. Our responsibilities under those standards are further described in the Auditors' Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of the District, and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audit. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

Change in Accounting Principle

As discussed in Note 11 to the financial statements, in 2024, the District elected to change its recognition of assessment to recognize the revenue in the year it is assessed. Our opinions are not modified with respect to this matter.

Responsibility of Management for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America, and for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the District's ability to continue as a going concern for twelve months beyond the financial statement date, including any currently known information that may raise substantial doubt shortly thereafter.

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Auditors' Responsibilities for the Audit of the Financial Statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditors' report that includes our opinions. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with generally accepted auditing standards will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with generally accepted auditing standards, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the District's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the District's ability to continue as a going concern for a reasonable period of time.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control-related matters that we identified during the audit.

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the management's discussion and analysis on pages 4 through 8 and the schedules related to the District's defined benefit plan and OPEB as listed on the table of contents on pages 36 through 38 be presented to supplement the basic financial statements. Such information is the responsibility of management and, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of

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management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audits of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Supplementary Information

Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the District's basic financial statements. The accompanying schedule of operating income to debt service ratio on page 39 and schedule of expenditures of federal awards on page 44, as required by Title 2 U.S. *Code of Federal Regulations* Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards*, are presented for purposes of additional analysis and are not a required part of the basic financial statements. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. The information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the schedule of operating income to debt service ratio and the schedule of expenditures of federal awards are fairly stated, in all material respects, in relation to the basic financial statements as a whole.

Other Reporting Required by Government Auditing Standards

In accordance with *Government Auditing Standards*, we have also issued our report dated September 9, 2025, on our consideration of Rosedale-Rio Bravo Water Storage District's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contract, and grant agreements and other matters. The purpose of that report is to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the District's internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the District's internal control over financial reporting and compliance.

BARBICH HOOPER KING
DILL HOFFMAN, LLP

Bakersfield, California
September 9, 2025

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The following discussion and analysis of Rosedale-Rio Bravo Water Storage District financial performance provides an overview of the financial activities for the fiscal years ended December 31, 2024 and 2023. This information is presented in conjunction with the basic audited financial statements and accompanying notes, which follow this section.

Financial Highlights

The District's total net position increased $12 million over the course of the 2024 year operations.

The District's total revenues increased $4.2 million during the year ended December 31, 2024.

The District's total expenses decreased $5.3 million during the year ended December 31, 2024.

In 2018 Rosedale-Rio Bravo Water Storage District (the District) prepared an engineer's report and conducted a landowner election to raise its maximum landowner assessment, pursuant to proposition 218. The election was successful, and the District passed Resolution No. 493 authorizing the increase in the maximum annual assessment to a maximum of $205 per acre, which has been adjusted annually based on CPI to a maximum of $218.07 as of December 31, 2024.

Overview of the Financial Statements

This annual report includes this management's discussion and analysis report, the independent auditors' report, the basic financial statements of the District and selected additional information. The financial statements also include notes that explain in more detail some of the information contained in the financial statements.

Required Financial Statements

The financial statements of the District report information of the District using accounting methods similar to those used by private sector companies. The financial statements conform to accounting principles which are generally accepted in the United States of America and utilize the accrual basis of accounting.

The statements of net position includes all of the District's assets and liabilities and provides information about the nature and amounts of investments in resources (assets) and the obligations to District creditors (liabilities), with the difference between the two reported as net position. This statement will indicate which assets are restricted due to contractual, Board action, or other commitments. This statement also provides the basis for assessing the liquidity, capital structure and financial flexibility of the District.

Revenues and expenses for each of the last two fiscal years are accounted for in the statements of revenues and expenses and changes in net position. These statements measure the success of the District's operations and can be used to determine profitability, credit worthiness, and whether the District has successfully recovered all its costs through user fees and other charges.

The statement of cash flows reports cash receipts, cash payments, and net changes in cash resulting from operations, investing, and financing activities. From this statement, information related to sources and uses of cash, and the change in cash balances can be compared for each of the last two fiscal years.

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Financial Analysis of the District

The required financial statements, discussed above, assist the reader in making an assessment of whether its financial health is improving or deteriorating. However, one will need to consider other non-financial factors such as changes in economic conditions, hydrology, population growth, and new or changed government legislation.

To begin our analysis, a summary of the District's statements of net position is presented in Table A.

Table A
Condensed Statements of Net Position
December 31, 2024, 2023 and 2022
(in thousands)

	2024	*2023 (as restated)*	*Dollar Change*	*Percentage Change*	*2022 (as restated)*	*Dollar Change*	*Percentage Change*
Current assets	$ 36,024	$ 39,004	$ (2,980)	(7.6%)	$ 38,519	$ 485	1.3%
Noncurrent assets	19,592	14,767	4,825	32.7%	13,896	871	6.3%
Capital assets	101,470	94,140	7,330	7.8%	95,635	(1,495)	(1.6%)
Total assets	157,086	147,911	9,175	6.2%	148,050	(139)	(0.1%)
Deferred outflows of resources	2,282	2,538	(256)	(10.1%)	2,483	55	2.2%
	$ 159,368	$ 150,449	$ 8,919	5.9%	150,533	(84)	(0.1%)
Current liabilities	$ 7,149	$ 6,754	$ 395	5.8%	$ 5,082	1,672	32.9%
Long-term liabilities	63,088	66,396	(3,308)	(5.0%)	70,580	(4,184)	(5.9%)
Total liabilities	70,237	73,150	(2,913)	(4.0%)	75,662	(2,512)	(3.3%)
Deferred inflow of resources	4	135	(131)	(97.0%)	158	(23)	(14.6%)
Net investment in capital assets net of related debt	56,416	46,530	9,886	21.2%	44,058	2,472	5.6%
Unrestricted	32,711	30,634	2,077	6.8%	30,655	(21)	(0.1%)
Total net position	89,127	77,164	11,963	15.5%	74,713	2,451	3.3%
	$ 159,368	$ 150,449	$ 8,919	5.9%	$ 150,533	$ (84)	(0.1%)

2023 to 2024

For 2024, District operations resulted in a $12 million increase in its net position. This increase is attributable to net income in the current year of $12 million.

As of year-end, total current assets were $36 million, a decrease of $3 million compared to the prior year balance of $39 million. The primary drivers of this change are a decrease in cash and cash equivalents of $2.7 million and decline of accounts receivable by $6.8 million offset by the increase of investments of $6 million and $0.4 million in prepaid expenses.

At year-end, total current liabilities were $7.1 million, an increase of $0.4 million compared to the prior year. The increase was primarily driven by the recognition of $2.9 million in deferred revenue related to an early payment on a District water program, partially offset by a $2.7 million decrease in accounts payable due to the timing of vendor payments and water purchases.

Long-term liabilities decreased by $3.3 million from prior year primarily due to scheduled payments made on long-term debt.

2022 to 2023

For 2023, District operations resulted in a $2.4 million increase in its net position. This increase is attributable to net income in the current year of $2.4 million.

Current assets increased by $485 thousand based on the increase of $14.1 million increase to cash and cash equivalents and $6.5 million increase in accounts receivable, offset by the $19.7 million decrease in investments and $385 thousand decrease in prepaid expenses. The majority of the increase in cash and cash equivalents is due the timing on the maturity of investments resulting in the $19.7 million decrease in investments.

The District's capital assets stayed consistent with prior year amounts less depreciation.

Current liabilities increased by $1.7 million due primarily to an increase in accounts payable.

Long-term liabilities decreased by $4.2 million from prior year primarily due to scheduled payments made on long-term debt and the District's ability to pay off the McCaslin debt in the amount of $1.5 million.

Table B
Condensed Statements of Revenues and Expenses and Changes in Net Position
For the Years Ended December 31, 2024, 2023 and 2022
(in thousands)

	2024	*2023 (as restated)*	*Dollar Change*	*Percentage Change*	*2022 (as restated)*	*Dollar Change*	*Percentage Change*
Operating revenues	$ 14,893	$ 20,726	$ (5,833)	(28.1%)	$ 41,014	$ (20,288)	(49.5%)
Nonoperating revenues	11,874	1,855	10,019	540.1%	4,986	(3,131)	(62.8%)
Total revenues	26,767	22,581	4,186	18.5%	46,000	(23,419)	(50.9%)
Operating expenses	11,547	16,789	(5,242)	(31.2%)	17,744	(955)	(5.4%)
Depreciation expense	1,928	1,936	(8)	(0.4%)	1,883	53	2.8%
Nonoperating expenses	1,329	1,405	(76)	(5.4%)	1,568	(163)	(10.4%)
Total expenses	14,804	20,130	(5,326)	(26.5%)	21,195	(1,065)	(5.0%)
Change in net position	11,963	2,451	9,512	388.1%	24,805	(22,354)	(90.1%)
Net position, beginning of year	77,164	74,713	2,451	3.3%	49,908	24,805	49.7%
Net position, end of year	$ 89,127	$ 77,164	$ 11,963	15.5%	$ 74,713	$ 2,451	3.3%

2023 to 2024

Operating revenues for fiscal year 2024 totaled $14.9 million, a decrease of $5.8 million (28.1%) compared to the prior year. The decline was primarily driven by reduced water sales resulting from lower water availability from the prior above-average year.

The District's nonoperating revenues increased by $10.0 million, primarily driven by a $7 million gain from the sale of its share in the James Water Bank Authority JPA, $2 million in grant funding, and a $1.3 million increase in equity from the Groundwater Banking Joint Powers Authority.

Operating expenses, including depreciation, for 2024 totaled $13.5 million, a decrease of $5.3 million compared to 2023. The reduction was primarily driven by $3.8 million in lower water purchase costs and a $1.5 million decrease in transmission and distribution expenses, both of which were directly impacted by water supply availability and hydrological conditions

2022 to 2023

For 2023 the District's operating revenues decreased by $20.3 million primarily due to a decrease in water sales of $17 million and a $5.5 million decrease in groundwater recovery reimbursement that are both reflective of the hydrological conditions of the year.

The District's nonoperating revenues decreased by $3.1 million due primarily to prior year transactions with the Groundwater Banking Joint Power's authority that were not present in current year offset by an increase in interest revenue of $1 million and an increase of asset sales of $360 thousand.

Operating expenses decreased by approximately $1 million. This decrease was primarily due to a $6 million reduction in groundwater pumping expenses, reflecting the hydrological conditions and availability of surface water. This was partially offset by a $1.5 million increase in surface water pumping, a $1.8 million increase in state water project expenses, and a $500 thousand increase in third-party project operations.

Table C
Capital Assets
December 31, 2024, 2023 and 2022
(in thousands)

	2024	2023 (as restated)	Dollar Change	Percentage Change	2022 (as restated)	Dollar Change	Percentage Change
Land	$ 49,622	$ 45,662	$ 3,960	8.7%	$ 45,662	$ -	0.0%
Construction in progress	5,185	271	4,914	1,813.3%	211	60	28.4%
General plant and equipment	7,196	6,952	244	3.5%	6,880	72	1.0%
Source of supply	4,835	4,835	-	0.0%	4,835	-	0.0%
Transmission and distribution	49,833	49,735	98	0.2%	49,426	309	0.6%
Intangible assets	971	971	-	0.0%	971	-	0.0%
Total capital assets	117,642	108,426	9,216	8.5%	107,985	441	0.4%
Less accumulated depreciation	16,172	14,286	1,886	13.2%	12,350	1,936	15.7%
Capital assets, net of depreciation	$ 101,470	$ 94,140	$ 7,330	7.8%	$ 95,635	$ (1,495)	(1.6%)

For 2024, as shown in the table above, the District's total capital assets increased by $9.2 million. This increase was driven by the $4 million purchase of land and $4.9 million in improvements to various District transmission and distribution facilities, including $4.7 million invested in the construction of 3 new wells.

For 2023, as can be seen from the table above, total capital assets increased by $441 thousand primarily due improvements of various district facilities for transmission and distribution.

Budgetary Comparison

The following table is a comparison of the Board approved budget for 2024 against actual.

Table D
Budget vs. Actual Comparison
For the Year Ended December 31, 2024
(in thousands)

	2024 Actual	*2024 Budget*	*Dollar Change*	*Percentage Change*
Operating revenues	$ 14,893	$ 13,989	$ 904	6.5%
Operating expenses	(11,547)	(15,754)	4,207	(26.7%)
Depreciation expense	(1,928)	-	(1,928)	100.0%
Nonoperating revenues	11,874	15,173	(3,299)	(21.7%)
Nonoperating expenses	(1,329)	(1,417)	88	(6.2%)
Change in net position	$ 11,963	$ 11,991	$ (28)	(0.2%)

The District develops its budget based on assumptions regarding the availability of water for purchase and anticipated sales to other water agencies. Budgeting is prepared using average hydrologic conditions; however, actual variations in hydrology can significantly affect these assumptions. In wet years, the District typically incurs additional expenditures to acquire surplus water supplies, which may also generate higher revenues through resale opportunities. Conversely, dry years generally result in increased energy costs associated with recovering water and fulfilling the District's contractual water banking obligations.

The District's operating revenue exceeded budgeted amounts by $0.9 million. This variance was primarily due to $1.2 million in unanticipated groundwater recovery income from a water exchange and an additional $1.7 million from various additional reimbursements that arose from available water not budgeted under average-year conditions. These increases were partially offset by $1.8 million in water charge income that was deferred to 2025.

Operating expenses were $4.2 million under budget, primarily due to $1.7 million in lower-than-average water purchases and the absence of the $2.4 million budgeted settlement water purchase, which was not made because water was unavailable.

Debt Service Requirements

For information relating to the outstanding debt, see Note 4 to the financial statements.

Contacting the District Management

This financial report is designed to provide our customers and creditors with a general overview of the District's finances and to demonstrate the District's accountability for the money it receives. If you have questions about this report or need additional financial information, contact the District at 849 Allen Road, Bakersfield, CA 93314.

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Rosedale-Rio Bravo Water Storage District

Statements of Net Position
December 31, 2024 and 2023

ASSETS AND DEFERRED OUTFLOWS OF RESOURCES	*2024*	*2023 (as restated)*
Current Assets		
Cash and cash equivalents	$ 25,776,478	$ 28,477,516
Accounts receivable	898,902	7,700,819
Assessments receivable	2,853,430	2,732,360
Investments	6,024,964	-
Prepaid expenses	470,391	93,785
Total current assets	36,024,165	39,004,480
Investments in Joint Powers Authorities	13,002,135	14,767,467
Investments	6,589,476	-
Capital Assets, net	101,469,515	94,140,128
Total Assets	157,085,291	147,912,075
Deferred Outflows of Resources		
Deferred outflows - advanced refundings of debt	1,835,232	1,931,821
Deferred outflows - CalPERS pension plan	446,720	576,594
Deferred outflows - OPEB	-	28,426
	2,281,952	2,536,841
	$ 159,367,243	$ 150,448,916

See Notes to Financial Statements.

LIABILITIES, DEFERRED INFLOWS OF RESOURCES, AND NET POSITION	*2024*	*2023 (as restated)*
Current Liabilities		
Current maturities of long-term debt	$ 2,615,000	$ 2,520,000
Accounts payable	691,251	3,346,115
Accrued vacation and sick leave	280,100	162,305
Accrued interest payable	682,704	725,350
Deferred revenue	2,879,822	-
Total current liabilities	7,148,877	6,753,770
Long-Term Liabilities		
Long-term debt, less current maturities	44,273,964	47,021,804
Net pension liability	1,199,436	1,207,556
OPEB liability	365,911	227,549
Deferred revenue, Drought Relief Project	17,248,899	17,938,855
	63,088,210	66,395,764
Total Liabilities	70,237,087	73,149,534
Deferred Inflows of Resources		
Deferred inflows - CalPERS pension plan	3,722	8,686
Deferred inflows - OPEB	-	126,760
	3,722	135,446
Net Position		
Invested in capital assets, net of related debt	56,415,783	46,530,145
Unrestricted	32,710,651	30,633,791
	89,126,434	77,163,936
	$ 159,367,243	$ 150,448,916

Rosedale-Rio Bravo Water Storage District

Statements of Revenues and Expenses
For the Years Ended December 31, 2024 and 2023

	2024	2023 (as restated)
Operating revenues:		
Assessments	$ 6,221,008	$ 6,039,054
Transfer and exchange fees	8,671,850	14,686,739
	14,892,858	20,725,793
Operating expenses:		
Water purchases	4,273,261	8,081,603
Transmission and distribution	2,912,348	4,467,546
General and administrative	4,361,184	4,239,438
Depreciation and amortization	1,927,632	1,936,432
	13,474,425	18,725,019
Operating income	1,418,433	2,000,774
Nonoperating income (expense):		
Other income, net	689,721	289,157
Gain on disposal of assets	6,945,237	360,918
Grant income	2,000,000	3,111
Interest and investment income	960,203	1,248,351
Interest expense	(1,329,328)	(1,404,768)
Equity in gain (loss) from Joint Powers Authorities	1,278,232	(46,597)
	10,544,065	450,172
Change in net position	$ 11,962,498	$ 2,450,946

See Notes to Financial Statements.

Rosedale-Rio Bravo Water Storage District

Statements of Changes in Net Position
For the Years Ended December 31, 2024 and 2023

Balance, December 31, 2022, as previously stated	$ 68,905,179
Change in accounting principle (see Note 11)	5,807,811
Balance, December 31, 2022, as restated	74,712,990
Change in net position	2,450,946
Balance, December 31, 2023	77,163,936
Change in net position	11,962,498
Balance, December 31, 2024	$ 89,126,434

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Rosedale-Rio Bravo Water Storage District

Statements of Cash Flows
For the Years Ended December 31, 2024 and 2023

	2024	*2023 (as restated)*
Cash flows from operating activities:		
Receipts from customers	$ 18,353,354	$ 7,790,886
Cash received from assessments	6,099,938	6,115,859
Payments to suppliers for goods and services	(12,775,745)	(12,735,728)
Payments to employees for services	(1,527,905)	(1,508,381)
Net cash provided by (used in) operating activities	10,149,642	(337,364)
Cash flows from capital and related financing activities:		
Payment for acquisition and construction of capital assets	(9,257,019)	(441,971)
Proceeds from sale of property and equipment	12,026	360,918
Receipts from grants	2,000,000	3,111
Payments of interest on long-term debt	(1,408,225)	(1,532,963)
Payments on long-term debt	(2,520,000)	(3,930,526)
Net cash used in capital and related financing activities	(11,173,218)	(5,541,431)
Cash flows from investing activities:		
Contributions to Joint Powers Authorities	(2,756,965)	(917,993)
Sale of interest in Joint Powers Authority	12,733,740	-
Receipts of interest and investment income	1,031,617	1,248,351
Sale (purchase) of investments, net	(12,685,854)	19,724,200
Net cash provided by (used in) investing activities	(1,677,462)	20,054,558
Net change in cash and cash equivalents	(2,701,038)	14,175,763
Cash and cash equivalents at beginning of the year	28,477,516	14,301,753
Cash and cash equivalents at the end of the year	$ 25,776,478	$ 28,477,516

See Notes to Financial Statements.

	2024	2023 (as restated)
Reconciliation of operating income to net cash provided by (used in) operating activities:		
Operating income	$ 1,418,433	$ 2,000,774
Adjustments to reconcile operating income to net cash provided by (used in) operating activities:		
Depreciation and amortization	1,927,632	1,936,432
Other income	689,721	289,157
Changes in operating assets and liabilities:		
Accounts and assessments receivable	6,680,847	(6,418,249)
Prepaid expenses	(376,606)	384,548
Accounts payable and accrued expenses	(2,537,069)	2,160,339
Deferred revenue	2,189,866	(689,956)
OPEB liability	40,028	16,941
Net pension liability	116,790	(17,350)
Net cash provided by (used in) operating activities	$ 10,149,642	$ (337,364)
Noncash investing and financing activities:		
Equity in gain (loss) from investments	$ 1,278,232	$ (46,597)
Amortization of deferred outflows of advanced refunding included in interest expense	$ 96,589	$ 96,589

Note 1. Nature of Activities and Summary of Significant Accounting Policies

Nature of District's activities:

Rosedale-Rio Bravo Water Storage District (the District) was formed in accordance with Division 14 of the California Water Code. The District comprises an area of agricultural land west of Bakersfield, California. The formation of the District was approved by the majority of the holders to title of this land pursuant to an election held May 5, 1959. The results of the election were certified by the Department of Water Resources of the State of California.

The District was formed by landowners for the purpose of construction and operation of a groundwater recharge project. Historically, surface water from the Kern River overflowed into the Goose Lake Slough channel, which traverses the District, an average of once every three years. Landowners were aware that these Kern River flows had a beneficial recharge effect because of the significant increase in water levels in their wells after such overflows.

Water for the District's project is obtained principally from the Kern River, the State Water Project (California Aqueduct), purchased water, and water from exchange programs with other agencies.

Basis of accounting and financial reporting:

The accompanying financial statements have been prepared on the accrual basis of accounting, in conformity with the uniform system of accounts prescribed for water districts by the Controller of the State of California. Under the accrual basis, revenues are recognized when earned and expenses are recognized when incurred regardless of the timing of cash payments or receipts.

Proprietary funds distinguish operating revenues and expenses from nonoperating items. Operating revenues and expenses generally result from providing services and producing and delivering goods in connection with a proprietary fund's principal ongoing operations. Revenues and expenses not meeting this definition are reported as nonoperating.

When the District has both unrestricted and restricted resources available for District purposes, it is the District's practice to first expend restricted resources, subsequently utilizing unrestricted resources as needed.

The District utilizes a net position presentation in accordance with GASB Statement No. 34, *Basic Financial Statements - and Management's Discussion and Analysis - for State and Local Governments*, as amended by GASB No. 63, *Financial Reporting of Deferred Outflows or Resources, Deferred Inflows of Resources, and Net Position*. Net position is categorized as invested in capital assets, net of related debt, restricted components of net position and unrestricted components of net position. These categories are defined as follows:

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Invested in capital assets, net of related debt - This component of net position consists of capital assets, including restricted capital assets, net of accumulated depreciation and the deferred outflow of advanced refunding of bonds, reduced by the outstanding balances of any bonds, mortgages, notes, or other borrowings that are attributable to the acquisition, construction, or improvement of those assets. If there are significant unspent related debt proceeds at year-end, the portion of the debt attributable to the unspent proceeds are not included in the calculation of invested in capital assets, net of related debt. Rather, that portion of the debt is included in the same net position component as the unspent proceeds.

Restricted components of net position - This component of net position consists of restricted assets reduced by liabilities and deferred inflows of resources related to those assets. Generally, a liability relates to restricted assets if the asset results from a resource flow that also results in the recognition of a liability or if the liability will be liquidated with the restricted assets reported.

Unrestricted components of net position - This component of net position is the net amount of assets, deferred outflows of resources, liabilities, and deferred inflows of resources that are not included in the determination of net investment in capital assets or the restricted component of net position.

Deferred outflows/inflows of resources:

The District reports increases/decreases in net assets that relate to future periods as deferred outflows/inflows of resources in a separate section of the statements of net position. Deferred outflow and inflow of resources reported in the statements of net position include the results of employer contributions made to the pension and other postretirement benefit plans (OPEB) after the measurement date and will be recognized as a reduction of the net pension liability in the following year. In addition, actuarially determined amounts corresponding to the net pension liability are amortized over an estimated life as part of pension expense. Further, deferred outflow of resources included deferred amounts arising from the advance refunding of bonds occurring during the year ended December 31, 2020. The deferred refunding amounts are being amortized over the remaining life of the refunding bonds as part of interest expense.

Fund accounting:

The District utilizes accounting for enterprise entities that account for operations (a) that are financed and operated in a manner similar to private business enterprises - where the intent of the governing body is that the costs (expenses, including depreciation) of providing goods or services to the general public on a continuing basis be financed or recovered primarily through user charges or, (b) where the governing body has decided that periodic determination of revenue earned, expenses incurred, and/or net income is appropriate for capital maintenance, public policy, management control, accountability, or other purposes.

Use of estimates:

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and

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disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates.

Revenue recognition:

The District recognizes revenue from annual assessments of landowners receiving benefits from District services. Data for assessments is obtained from records maintained by Kern County Assessor. The County of Kern prepares the roll and assessments are included with the regular county tax bills of owners of acreage within the District.

The District operates several groundwater banking and exchange programs with other water districts within California. Transfer and exchange revenue from groundwater banking or exchange activity is generally recognized as water is returned to or exchanged with the recipient.

Accounts receivable:

Accounts receivable are stated at the amount management expects to collect from balances outstanding at year end. Based on management's assessment of the credit history with customers having outstanding balances and current relationships with them, it has concluded that realization of losses on balances outstanding at year end will be immaterial; accordingly, no allowance for doubtful accounts is required.

Concentration of credit risk:

Credit is extended, in the form of accounts receivable, to groundwater banking partners and other water districts who are located in the state of California, along with landowners in the District's boundaries.

Capital assets:

The District's capital assets are recorded at cost. Assets are capitalized when the cost is greater than $5,000 and the asset has a useful life greater than two years. Depreciation is computed using the straight-line method over the following estimated useful lives:

	Years
General plant and equipment	5-40
Source of supply	7-50
Transmission and distribution	5-50

Maintenance and repairs of capital assets are charged to operations and major improvements are capitalized. Upon retirement, sale or other disposition of capital assets, the cost and accumulated depreciation are eliminated from the accounts and the gain or loss is included in operations.

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Water purchases:

The District's water purchases are recharged into the groundwater aquifer for the benefit of the landowners within the District boundaries with very few direct deliveries to customers. All water purchased is expensed as incurred.

Cash and cash equivalents:

The District considers cash equivalents to be all highly liquid debt instruments purchased with a maturity of three months or less. At December 31, 2024 and 2023, cash and cash equivalents include amounts deposited with banks and the County of Kern Treasurer.

Deposits with financial institutions:

As a government agency, the California Government Code dictates guidelines toward the District's investments in addition to the District's investment policy, which has been approved by the Board of Directors. This policy provides the District's treasurer with investment authority, summarizes authorized investments, and describes the District's procedures and other limitations. The objective of the District's investment policy is to maximize the yield of invested funds while assuring that investments are safe from loss, utilizing the "prudent person" policy of safety, legality and yield.

Below is a summary of the District's cash and investment policies, credit risk and description of the District's cash and investments.

Cash and investments as of December 31, 2024 and 2023 are classified in the accompanying financial statements as follows:

	2024	*2023*
Current assets - cash and cash equivalents	$ 25,776,478	$ 28,477,516
Current assets - investments	6,024,964	-
Noncurrent assets - investments	6,589,476	-
	$ 38,390,918	$ 28,477,516

Cash and investments as of December 31, 2024 and 2023 consisted of the following:

	2024	*2023*
Cash deposits with banks	$ 7,124,683	$ 5,147,931
Money market funds	6,731,279	7,616,952
Deposits with Kern County Treasurer	11,901,416	3,302,975
Cash held with financial institutions	19,100	12,409,658
Investments with financial institutions	12,614,440	-
	$ 38,390,918	$ 28,477,516

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Investments:

The District is permitted by both Board policy and State law to invest in various authorized investments, subject to a variety of limits and controls, including State of California bonds, U.S. Government Agency securities (Treasury and other federal agencies) and other securities (bankers' acceptances, negotiable certificates of deposit, etc.). The District investment portfolio is primarily comprised of holdings in money market funds, deposits with Kern County Treasurer, U.S. government and agency securities, and corporate bonds.

Disclosures relating to interest rate risk and credit risk:

Interest rate risk is the risk that changes in market interest rates will adversely affect the fair value of an investment. Generally, the longer the maturity of an investment, the greater the sensitivity of its fair value to changes in market interest rates. One of the ways that the District manages its exposure to interest rate risk is by purchasing a combination of shorter term and longer term investments and by timing cash flows from maturities so that a portion of the portfolio is maturing or coming close to maturity evenly over time as necessary to provide the cash flow and liquidity needed for operations. The District's policy requires a maximum maturity for commercial paper of 270 days and U.S. government and agency securities and corporate bonds of five years.

As of December 31, 2024, the District had the following investments and maturities:

		Investment maturities	
	Fair Value	*Less Than 1 Year*	*1 Year to 5 Years*
U.S. Government and Agency	$ 12,614,440	$ 6,024,964	$ 6,589,477

Generally, credit risk is the risk that an issuer of an investment will not fulfill its obligation to the holder of the investment. This is measured by the assignment of a rating by a nationally recognized statistical rating organization. There is no minimum legal rating for U.S. Government Agency Securities and certificates of deposits.

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Custodial credit risk:

Custodial credit risk of deposits is the risk that in the event of a bank failure, the District's deposits may not be returned. The California Government Code and the District's investment policy do not contain legal or policy requirements that would limit the exposure to custodial credit risk for deposits and investments, other than the following provision for deposits: The California Government Code requires that a financial institution secure deposits made by state or local governmental units by pledging securities in an undivided collateral pool held by a depository regulated under state law (unless so waived by the governmental unit). The market value of the pledged securities in the collateral pool must equal at least 110% of the total amount deposited by the public agencies. California law also allows financial institutions to secure District deposits by pledging first trust deed mortgage notes having a value of 150% of the secured public deposits. At December 31, 2024 and 2023, the District's investments in money market funds of $6,731,279 and $7,616,952, respectively, was uninsured.

Concentration of credit risk:

The investment policy of the District contain no limitations on the amount that can be invested in any one issuer beyond those stipulated by the California Government Code.

Investments in Joint Powers Authorities:

The District's investment in the Authorities is accounted for using the equity method of accounting. Under this method, the District recognizes its share of the Authorities' accrual basis income or loss.

Cash flows:

GASB Statement No. 9, *Reporting Cash Flows of Proprietary and Nonexpendable Trust Funds and Governmental Entities That Use Proprietary Fund Accounting,* states for purposes of preparing the statements of cash flows, all transactions that are not classified as capital and related financing activities, noncapital financing activities or investing activities are classified as operating activities. The adjustments to reconcile operating income to net cash provided by operating activities includes other income which consists primarily of revenue generated from annexing land, various refunds, and lease income.

Pensions:

For purposes of measuring the net pension liability (asset) and deferred outflows/inflows of resources related to pensions, and pension expense, information about the fiduciary net position of the District's California Public Employees' Retirement System (CalPERS) plans and additions to/deductions from the plan's fiduciary net position have been determined on the same basis as they are reported by CalPERS. For this purpose, benefit payments (including refunds of employee contributions) are recognized when due and payable in accordance with the benefit terms. Investments are reported at fair value.

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Post employment benefits other than pensions (OPEB):

For purposes of measuring the net OPEB liability, OPEB expense, information about the fiduciary net position of the Rosedale-Rio Bravo Water Storage Retiree Healthcare Plan, and additions to/deductions from the Plans' fiduciary net position have been determined by an actuary using the Alternative Measurement Method as allowed for employers with fewer than 100 employees. For this purpose, the Plan recognized benefit payments when due and payable in accordance with the benefit terms.

Note 2. Capital Assets

The following tables are summary of changes in the District's capital assets for the years ended December 31, 2024 and 2023:

	Assets-At Cost				
	Balance 12/31/23	***Acquisitions***	***Retirements***	***Reclass/ Transfers***	***Balance 12/31/24***
Capital Assets not being depreciated:					
Land	$ 45,662,008	$ 3,960,340	$ -	$ -	$ 49,622,348
Construction in progress	271,049	4,914,263	-	-	5,185,312
Capital Assets being depreciated:					
General plant and equipment	6,951,910	285,922	(41,828)	-	7,196,004
Source of supply	4,834,508	-	-	-	4,834,508
Transmission and distribution	49,735,864	96,494	-	-	49,832,358
Intangible assets	971,262	-	-	-	971,262
	$ 108,426,601	$ 9,257,019	$ (41,828)	$ -	$ 117,641,792

	Accumulated Depreciation				
	Balance 12/31/23	***Depreciation Expense***	***Retirements***	***Reclass/ Transfers***	***Balance 12/31/24***
General plant and equipment	$ 2,190,078	$ 320,187	$ (41,828)	$ -	$ 2,468,437
Source of supply	2,073,617	110,004	-	-	2,183,621
Transmission and distribution	9,470,948	1,445,012	-	-	10,915,960
Intangible assets	551,830	52,429	-	-	604,259
	$ 14,286,473	$ 1,927,632	$ (41,828)	$ -	$ 16,172,277

	Assets-At Cost				
	Balance 12/31/22	***Acquisitions***	***Retirements***	***Reclass/ Transfers***	***Balance 12/31/23***
Capital Assets not being depreciated:					
Land	$ 45,662,008	$ -	$ -	$ -	$ 45,662,008
Construction in progress	210,642	369,970	-	(309,563)	271,049
Capital Assets being depreciated:					
General plant and equipment	6,879,909	72,001	-	-	6,951,910
Source of supply	4,834,508	-	-	-	4,834,508
Transmission and distribution	49,426,301	-	-	309,563	49,735,864
Intangible assets	971,262	-	-	-	971,262
	$ 107,984,630	$ 441,971	$ -	$ -	$ 108,426,601

	Accumulated Depreciation				
	Balance 12/31/22	***Depreciation Expense***	***Retirements***	***Reclass/ Transfers***	***Balance 12/31/23***
General plant and equipment	$ 1,855,857	$ 334,221	$ -	$ -	$ 2,190,078
Source of supply	1,963,613	110,004	-	-	2,073,617
Transmission and distribution	8,031,170	1,439,778	-	-	9,470,948
Intangible assets	499,401	52,429	-	-	551,830
	$ 12,350,041	$ 1,936,432	$ -	$ -	$ 14,286,473

Note 3. Investments in Joint Powers Authorities

James Water Bank Authority:

In 2020, the District entered into a Joint Powers Agreement with Buena Vista Water Storage District to create James Water Bank Authority, in which the District had a 14.35% interest. The Authority was formed to acquire, construct, operate, and maintain works and facilities for the development, production, storage, transmission, distribution and use of water resources and water rights on behalf of its members. During the year ended December 31, 2024, the District sold its interest in the James Water Bank Authority to the majority member for $12,618,250 plus the District's share of the Authority's cash balances, amounting to $115,490.

The District's investment in the Authority as of December 31, 2024 and 2023 is $-0- and $5,800,529, respectively. The District's equity loss as estimated by the Authority was $-0- and $(46,597), respectively, for the years ended December 31, 2024 and 2023.

Groundwater Banking Joint Powers Authority:

At the end of 2020, the District entered into a Joint Powers Agreement with Irvine Ranch Water District to create the Groundwater Banking Joint Powers Authority, which the District has a 50% interest. The Authority was formed to acquire, construct, operate, and maintain works and facilities for the development, production, storage, transmission, distribution and use of water resources and water rights on behalf of its members.

The District's investment in the Authority is accounted for using the equity method of accounting. Under this method, the District recognizes its share of the Authority's accrual basis income or loss. The Authority has a June 30th year-end. Condensed audited financial information as of and for the years ended June 30, 2024 and 2023 is as follows:

	2024	***District's Proportionate Share***	***2023***	***District's Proportionate Share***
Total assets	$ 19,408,555	$ 9,704,278	$ 14,126,352	$ 7,063,176
Total liabilities	393,463	196,732	181,654	90,827
Net position	$ 19,015,092	$ 9,507,546	$ 13,944,698	$ 6,972,349

	2024	***District's Proportionate Share***	***2023***	***District's Proportionate Share***
Total revenues	$ 3,042,536	$ 1,521,268	$ 196,190	$ 98,095
Total expenses	486,072	243,036	196,190	98,095
Change in net position	$ 2,556,464	$ 1,278,232	$ -	$ -

The District's investment in the Authority as of December 31, 2024 and 2023 is $13,002,135 and $8,966,938, respectively. During the years ended June 30, 2024 and 2023, the District made cash contributions to the Authority amounting to $1,256,965 and $917,993, respectively. The District made additional cash contributions of $1,500,000 after June 30, 2024 not included in the Authority's net position above. In 2022, the District made contributions in-kind of $1,994,588 not included in the Authority's net position above. The District's equity income for the years ended December 31, 2024 and 2023 was $1,278,232 and $-0-, respectively.

Note 4. Long-Term Debt

Long-term debt at December 31, 2024 and 2023 was as follows:

	2024	*2023*
2020A Revenue Bonds, interest rates vary between 2.25% - 5%, collateralized by future net revenues, payable in annual principal and semi-annual interest payments, due December 2042 (proceeds were used to refinance prior certificates of participation)	$ 19,905,000	$ 21,390,000
2020B Revenue Bonds, interest rates vary between .643% - 3.185%, collateralized by future net revenues, payable in annual principal payments and semi-annual interest payments, due December 2043 (proceeds were used to refinance prior certificates of participation)	24,460,000	25,495,000
	44,365,000	46,885,000
Add unamortized bond premium	2,523,964	2,656,804
Less current maturities	2,615,000	2,520,000
	$ 44,273,964	$ 47,021,804

The following is a summary of the long-term debt transactions for the years ended December 31, 2024 and 2023:

	Payable 12/31/23	*Additions*	*Deletions*	*Payable 12/31/24*	*Due within One Year*
Revenue Bonds	$ 46,885,000	$ -	$ (2,520,000)	$ 44,365,000	$ 2,615,000

	Payable 12/31/22	*Additions*	*Deletions*	*Payable 12/31/23*	*Due within One Year*
Revenue Bonds	$ 49,325,000	$ -	$ (2,440,000)	$ 46,885,000	$ 2,520,000
Other term debt	1,490,526	-	(1,490,526)	-	-
	$ 50,815,526	$ -	$ (3,930,526)	$ 46,885,000	$ 2,520,000

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The annual requirements to amortize all debt outstanding as of December 31, 2024 are as follows:

Years Ending December 31,	*Principal*	*Interest*	*Total Debt Service*
2025	$ 2,615,000	$ 1,319,799	$ 3,934,799
2026	2,705,000	1,225,295	3,930,295
2027	2,805,000	1,124,195	3,929,195
2028	1,905,000	1,041,426	2,946,426
2029	1,980,000	978,326	2,958,326
2030-2034	10,865,000	3,861,727	14,726,727
2035-2039	12,490,000	2,244,647	14,734,647
2040-2043	9,000,000	501,275	9,501,275
	$ 44,365,000	$ 12,296,689	$ 56,661,690

Note 5. Employee Benefit Plans

CalPERS

Plan description:

The District participates in the Public Agency portion of the California Public Employees' Retirement System (CalPERS), which acts as a common investment and administrative agent for participating public employers within the State of California through the Miscellaneous Plan of the Rosedale Rio-Bravo Water Storage District ("Plan"). All employees hired after January 1, 2013 are placed in the PEPRA Miscellaneous Plan of the Rosedale Rio-Bravo Water Storage District ("PEPRA"), which is a sub-component of the Miscellaneous Plan. The Plan is a cost-sharing multiple-employer defined benefit plan. All qualified permanent and probationary employees are eligible to participate in the District's Plan. Benefit provisions under the Plan are established by State statute and District resolution. CalPERS issues publicly available reports that include a full description of the pension plans regarding benefit provisions, assumptions and membership information that can be found on the CalPERS website.

Benefits provided:

CalPERS provides service retirement and disability benefits, annual cost of living adjustments and death benefits to plan members, who must be public employees, and beneficiaries. Benefits are based on years of credited service, equal to one year of full time employment. Members with five years of total service are eligible to retire at age 50 with statutorily reduced benefits. All members are eligible for non-duty disability benefits after 10 years of service. The death benefit is one of the following: the Basic Death Benefit, the 1957 Survivor Benefit, or the Optional Settlement 2W Death Benefit. The cost of living adjustments for each plan are applied as specified by the Public Employees' Retirement Law. The Plan's provisions and benefits in effect at June 30, 2024, are summarized as follows:

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	Miscellaneous	*PEPRA*
Benefit formula	3% @ 60	2% @ 62
Benefit vesting schedule	5 yrs service	5 yrs service
Benefit payments	monthly for life	monthly for life
Retirement age	50 - 55	52 - 67
Monthly benefits, as a % of eligible compensation	2.0% to 2.7%	1.0% to 2.5%
2024		
Required employee contribution rates	8%	7.75%
Required employer contribution rates	17.39%	7.96%
2023		
Required employee contribution rates	8%	7.75%
Required employer contribution rates	17.26%	7.68%

Contributions:

Section 20814(c) of the California Public Employees' Retirement Law required that the employer contribution rates for all public employers be determined on an annual basis by the actuary and shall be effective on the July 1 following notice of a change in the rate. Funding contributions for all Plans are determined annually on an actuarial basis as of June 30 by CalPERS. The actuarially determined rate is the estimated amount necessary to finance the costs of benefits earned by employees during the year, with an additional amount to finance any unfunded accrued liability. The District is required to contribute the difference between the actuarially determined rate and the contribution rate of employees. For the years ended December 31, 2024 and 2023, the employer and employee contributions to the Plan were as follows:

	2024	*2023*
Contributions - employer	$ 229,262	$ 202,692
Contributions - employee	91,881	88,068
	$ 321,143	$ 290,760

Pension liabilities, pension expense and pension deferred outflows/inflows of resources:

As of December 31, 2024 and 2023, the District reported net pension liabilities for its proportionate share of the net pension liability of $1,199,436 and $1,207,556, respectively.

The District's net pension liability for the Plan is measured as the proportionate share of the net pension liability. The net pension liability of the Plan was measured as of June 30, 2024, and the total pension liability for the Plan was determined by an actuarial valuation as of June 30, 2023 rolled forward to June 30, 2024 using standard update procedures. The District's proportion of the net pension liability was based on a projection of the District's long-term share of contributions to the pension plans relative to the projected contributions of all participating employers, actuarially determined.

The District's proportionate share of the net pension liability for the Plan as of June 30, 2024 and 2023 is as follows.

Proportion - June 30, 2023	0.0242%
Proportion - June 30, 2024	0.0248%
Change - Increase (Decrease)	0.0006%

Proportion - June 30, 2022	0.0230%
Proportion - June 30, 2023	0.0242%
Change - Increase (Decrease)	0.0012%

For the years ended December 31, 2024 and 2023, the District recognized pension expense of $348,948 and $183,991, respectively. At December 31, 2024 and 2023, the District reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

2024	***Deferred Outflows of Resources***	***Deferred Inflows of Resources***
Pension contributions subsequent to measurement date	$ 155,071	$ -
Difference between expected and actual experience	-	(3,722)
Change in assumptions	28,355	-
Net difference between projected and actual earnings on plan investments	63,512 95,384	-
Change in employer's proportion	-	-
Difference between employer's contribution and the proportionate share of contribution	59,511 44,887	-
	$ 446,720	$ (3,722)

2023	***Deferred Outflows of Resources***	***Deferred Inflows of Resources***
Pension contributions subsequent to measurement date	$ 135,522	$ -
Difference between expected and actual experience	55,994	(8,686)
Change in assumptions	66,176	-
Net difference between projected and actual earnings on plan investments	177,467	-
Change in employer's proportion	96,698	-
Difference between employer's contribution and the proportionate share of contribution	44,737	-
	$ 576,594	$ (8,686)

The $155,071 reported as deferred outflows of resources related to contributions subsequent to the measurement date will be recognized as a reduction of the net pension liability in the year ended June 30, 2024. Other amounts reported as deferred inflows and outflows of resources related to pensions will be recognized as pension expense as follows:

Years ending June 30,	
2025	$ 148,301
2026	156,736
2027	4,655
2028	(21,765)
	$ 287,927

Actuarial Assumptions:

The total pension liabilities in the June 30, 2024 actuarial valuations were determined using the following actuarial assumptions:

	Miscellaneous	***PEPRA***
Valuation date	June 30, 2023	June 30, 2023
Measurement date	June 30, 2024	June 30, 2024
Actuarial cost method	Entry-Age Normal Cost Method	
Actuarial Assumptions:		
Discount Rate	6.90%	6.90%
Inflation	2.30%	2.30%
Payroll Growth	3.00%	3.00%
Projected Salary Increase	Varies by entry age and service	
Investment Rate of Return	6.90%	6.90%
Mortality	*	*

* Derived using CalPERS membership data for all funds

The mortality table used was developed based on CalPERS-specific data. The rates incorporate Generational Mortality to capture ongoing mortality improvements using 80% of Scale MP 2020 published by the Society of Actuaries. For more details, refer to the 2021 experience study report on the CalPERS website.

The discount rate used to measure the total pension liability was 6.90%. To determine whether the municipal bond rate should be used in the calculation of a discount rate for the plan, CalPERS stress tested plans that would most likely result in a discount rate that would be different from the actuarially assumed discount rate. Based on the testing of the plans, the tests revealed the assets would not run out. Therefore, the current 6.90% discount rate is appropriate and the use of the municipal bond rate calculation is not deemed necessary. The long-term expected discount rate of 6.90% is applied to all plans in the Public Employees' Retirement Fund. The stress test results are presented in a detailed report called "GASB Crossover Testing Report" that can be obtained from the CalPERS website.

In determining the long-term expected rate of return, CalPERS took into account long-term market return expectations as well as the expected pension fund cash flows. Projected returns for all asset classes are estimated and, combined with risk estimates, are used to project compound (geometric) return over the long term. The discount rate used to discount liabilities was informed by the long-term projected portfolio return.

The table below reflects the long-term expected real rate of return by asset class for the Plan. The rate of the return was calculated using the capital market assumptions applied to determine the discount rate and asset allocation.

Asset Class	*New Strategic Allocation*	*Real Return Years 1 - 10*
Global equity - cap-weighted	30%	4.54%
Global equity non-cap-weighted	12%	3.84%
Private equity	13%	7.28%
Treasury	5%	0.27%
Mortgage-backed securities	5%	0.50%
Investment grade corporates	10%	1.56%
High Yield	5%	2.27%
Emerging market debt	5%	2.48%
Private debt	5%	3.57%
Real assets	15%	3.21%
Leverage	-5%	-0.59%

Sensitivity of the District's proportionate share of the net pension liability:

The following presents the District's proportionate share of the net pension liability using the discount rate of 6.9%, as well as what the District's proportionate share of the net pension liability would be if it were calculated using a discount rate that is 1-percentage-point lower (5.9%) or 1-percentage-point higher (7.9%) than the current rate:

1% Decrease		5.90%
Net Pension Liability	$	2,005,180
Current Discount Rate		6.90%
Net Pension Liability	$	1,199,436
1% Increase		7.90%
Net Pension Liability	$	536,191

OPEB

Plan description:

The District's postretirement plan is a single-employer defined benefit plan administered by the District. The Plan provides medical insurance to retired employees and their spouses when certain eligibility requirements are met. The benefit provisions are established and approved by the Board of Directors. The Plan does not issue a stand-alone report and is not included in the report of another entity. Funding by the District is on a pay-as-you-go basis. Plan members do not contribute to the Plan. No assets have been segregated and restricted to provide postemployment benefits.

Effective January 1, 2024, the District changed its method of calculating its OPEB liability to the Alternative Measurement Method (AMM) as permitted by GASB Statement No. 75. Using the AMM, the District is permitted to use a simplified method of calculating its OPEB liability without a full actuarial calculation. The change in actuarial calculation resulted in an increase in the OPEB liability at the effective date from $227,549 to $325,188. Further, the AMM does not recognize deferred inflows or outflows related to its OPEB liability and the related elimination of $28,426 of deferred outflows and $126,760 of deferred inflows related to the OPEB plan. The impact of this of $695 was recognized in income in the current year.

Plan membership:

As of December 31, 2024, the Plan measurement date, the plan membership is as follows:

Inactive employees currently receiving benefits	-
Inactive employees entitled to but not yet receiving benefits	-
Active employees	10
	10

Benefits provided:

The Plan provides medical insurance premium benefits for retirees and their spouses, if the retiree pays the spouse's full premium. The benefit terms provide for the full amount of post-retirement medical premiums for employees who retire directly from the District under CalPERS through the age of 65. Employees are eligible for the Plan if their combined years of service and age at retirement are equal to or greater than 65r.

Total OPEB liability:

The District's total OPEB liability at December 31, 2024 and 2023 was $365,911 and $227,549, respectively and was measured at December 31, 2024 and 2023 and was determined by a valuation using the Alternative Measurement Method as of December 31, 2024 and an actuarial valuation as of December 31, 2023.

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Actuarial assumptions and inputs:

The total OPEB liability in the December 31, 2024 valuation using the Alternative Measurement Method was determined using the following actuarial assumptions and other inputs, applied to all periods included in the measurement, unless otherwise specified:

Actuarial cost method:	Entry age normal cost method
Inflation:	Not Provided
Salary increases:	5.0% Annually
Healthcare cost trend rates:	5.8% Medical, 11.7% Pharmacy, 3.5% Dental, 3% Vision, decreasing to 4.1% Medical and Pharmacy, 3% Dental and Vision over 10 years
Discount Rate:	4.51%

Changes in the total OPEB liability:

	2024	*2023*
Total OPEB liability, beginning	$ 227,549	$ 188,548
Changes for the year:		
Change in accounting principle	97,639	-
Economic/demographic gains or losses	14,792	-
Service costs	22,172	22,172
Interest	10,838	7,839
Changes in assumptions	(7,079)	8,990
Net change	138,362	39,001
Total OPEB liability, ending	$ 365,911	$ 227,549

Changes of assumptions and other inputs reflect an increase in the discount rate from 3.26% at the measurement date December 31, 2023 to 4.51% at the measurement date December 31, 2024.

OPEB expense and deferred outflows and inflows of resources related to OPEB:

For the years ended December 31, 2024 and 2023, the District recognized OPEB expense of $40,028 and $16,941, respectively. Deferred inflows and outflows of resources are not calculated using the Alternative Measurement Method. At December 31, 2023, the District reported deferred outflows of resources and deferred inflows of resources related to OPEB from the following sources:

2023	*Deferred Outflows of Resources*	*Deferred Inflows of Resources*
Differences between expected and actual experience	$ -	$ (89,999)
Changes in assumptions	28,426	(36,761)
	$ 28,426	$ (126,760)

Sensitivity of the total OPEB liability to changes in the discount rate and healthcare cost trend rates:

The following presents the total OPEB liability of the District, as well as what the District's total OPEB liability would be if it were calculated using a discount rate 1 percentage point lower and 1 percentage-point higher than the current discount rate:

	Discount Rate	*Total OPEB Liability*
1% decrease	3.51%	$ 410,515
Current discount rate	4.51%	$ 365,911
1% increase	5.51%	$ 327,887

The following presents the total OPEB liability of the District, as well as what the District's total OPEB liability would be if it were calculated using healthcare cost trend rates that are 1-percentage-point lower and 1-percentage-point higher than the current healthcare cost trend rates:

	Total OPEB Liability
1% decrease - Healthcare trend	$ 316,074
Current rate - Healthcare trend	$ 365,911
1% increase - Healthcare trend	$ 425,871

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Note 6. Deferred Revenue, Drought Relief Project

During 2015, the District initiated a number of capital improvement projects, collectively referred to as the Drought Relief Project (the "Project"). The Project included construction of groundwater recovery wells, spreading ponds, a pumping plant, and pipelines to convey both recharge and recover water to and from the project participants. Project participants include Castaic Lake Water Agency ("Castaic") and Irvine Ranch Water District ("Irvine").

In conjunction with the Project, the District entered into an agreement with both project participants, whereby, the participants contributed funds to cover certain Project costs in exchange for a right to use the facilities being developed. These contributions were deferred until completion of the Project, at which point, the District began recognizing revenue annually based on the life of the agreement (20 years). Through the year ended December 31, 2021, the participants contributed $20,008,723 to the District. The District's remaining deferred revenue as of December 31, 2024 and 2023 was $17,248,899 and $17,938,855, respectively. For the years ended December 31, 2024 and 2023, the District recognized $689,956 in amortization of the deferred balance which was included in transfer and exchange fees on the statements of revenues and expenses.

Note 7. Transfer and Exchange Fees

The District entered into an agreement with Castaic Lake Water Agency and Buena Vista Water Storage District involving the sale, transfer, recharge, and recovery of water. Under the terms of the agreement, Castaic purchases an annual water supply of 11,000 acre-feet of water (of which the District supplies 9,250 acre-feet). The contract expires December 2036.

The District entered into an agreement with Coachella Valley Water District ("Coachella) involving the sale of water. Under the terms of the agreement, Coachella has the right to purchase up to 16,500 acre-feet of water per year. The contract expires September 2035.

Transfer and exchange fees consisted of the following for the years ended December 31, 2024 and 2023:

	2024	*2023*
Castaic	$ 5,603,334	$ 5,481,949
Coachella	-	5,757,200
Other exchange fees and reimbursements	3,068,516	3,447,590
	$ 8,671,850	$ 14,686,739

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Note 8. Fair Value Measurement

The District categorizes its fair value measurements within the fair value hierarchy established by generally accepted accounting principles. Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. The hierarchy is based on the valuation inputs used to measure the fair value of the assets. Level 1 inputs are quoted prices in active markets for identical assets or liabilities; Level 2 inputs are quoted market prices for similar assets or liabilities, quoted market prices in markets that are not active, or other inputs that are observable or can be corroborated by observable market data of substantially the full term of the assets or liabilities; Level 3 inputs are significant unobservable inputs for assets or liabilities.

Both the net pension liability and the OPEB liability are measured as Level 3.

Note 9. Self-Insurance

The District is a member of the Association of California Water Agencies, Joint Powers Insurance Authority (JPIA). JPIA is a group of California Water Districts who have pooled funds to provide self-insurance coverage. The JPIA bills the District a deposit premium at the beginning of each policy year, which is placed in a reserve fund to cover the self-insurance portion of any claim. Settlements and/or expenses related to claims during the year are charged against the reserve. If the balance of the reserve at the end of the year is deemed too low in relation to the amount of outstanding claims, the District is billed for additional premiums. When the claims are fully settled, any amounts remaining in the reserve are refunded to the District. During the current year, there were no significant reductions in coverage.

Note 10. Commitments and Contingencies

Water Banked on Behalf of Others:

The District has developed water programs to bank water supplies on behalf of other entities, as well as participating in water exchanges and transfers. These programs take advantage of the District's substantial recharge and spreading facilities. With the exception of power costs and other fee reimbursements associated with recovery of water, the District does not charge for the recharge or recovery of water. Instead, the District receives water in-lieu through a two for one banking program. Total acre-feet owed by the District to banking partners as of December 31, 2024 and 2023 amounts to 398,874 acre-feet and 392,309 acre-feet, respectively.

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Legal:

The District is involved in ongoing proceedings and negotiations with various parties primarily related to the District's existing water rights and water contracts to utilize the current water supply. Additionally, the District is involved in ongoing proceedings to address damages relating to the TCP contamination of the District's groundwater and its impact on the District's facilities and operations. Management and outside counsel expect the litigation to take numerous years to complete. The final outcomes and impact of these matters on the financial statements are unknown at this time.

Note 11. Change in Accounting Principle

Effective January 1, 2024, the District elected to make a change in accounting principle whereby assessment revenue is recognized when it is billed by the County of Kern to landowners. Prior to this, the District recognized assessment revenue in the year after it was billed through the County of Kern. The following accounts were restated as a result of the change in accounting principle for the year ended December 31, 2023:

	Previously Stated	*Restated Amount*	*Change*
Assessments receivable	$ -	$ 2,732,360	$ 2,732,360
Deferred revenue	$ 3,122,829	$ -	$ (3,122,829)
Assessments revenue	$ 5,991,676	$ 6,039,054	$ 47,378
Net position	$ 71,308,747	$ 77,163,936	$ 5,855,189

Required Supplementary Information

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Rosedale-Rio Bravo Water Storage District

Schedules of the District's Proportionate Share of
Net Pension Liability (CalPERS)
December 31, 2024
See Independent Auditors' Report

	2024	*2023*	*2022*	*2021*	*2020*	*2019*	*2018*	*2017*	*2016*	*2015*
District's proportion of the net pension liability	0.0248%	0.0242%	0.0230%	0.0227%	0.0209%	0.0198%	0.0188%	0.0190%	0.0187%	0.0193%
District's proportionate share of the net pension liability	$1,199,436	$1,207,556	$1,074,255	$ 430,404	$ 884,470	$ 792,671	$ 710,171	$ 749,163	$ 650,615	$ 529,139
District's covered-employee payroll	$1,494,179	$1,488,082	$1,381,558	$1,253,089	$1,520,578	$1,277,418	$1,081,145	$1,132,597	$ 993,952	$ 909,092
District's proportion of the net pension liability as a percentage of its covered-employee payroll	80.27%	81.15%	77.76%	34.35%	58.17%	62.05%	65.69%	66.15%	65.46%	58.21%
Plan fiduciary net position as a percentage of the total pension liability	78.16%	75.72%	75.81%	89.85%	77.33%	79.54%	79.54%	75.11%	75.33%	80.49%

Note 1. The above information was based off of the June 30, 2023 actuarial report for the measurement date June 30, 2024.

Rosedale-Rio Bravo Water Storage District

Schedules of Contributions (CalPERS)

December 31, 2024
See Independent Auditors' Report

	2024	*2023*	*2022*	*2021*	*2020*	*2019*	*2018*	*2017*	*2016*	*2015*
Contractually required contribution	$ 139,874	$ 130,552	$ 120,895	$ 100,214	$ 115,673	$ 103,212	$ 94,182	$ 94,912	$ 83,891	$ 98,582
Contributions in relation to the contractually required contribution	(139,874)	(130,552)	(120,895)	(100,214)	(115,673)	(103,212)	(94,182)	(94,912)	(83,891)	(98,582)
Contribution deficiency (excess)	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
District's covered-employee payroll	$ 1,494,179	$ 1,488,082	$ 1,381,558	$ 1,253,089	$ 1,520,578	$ 1,277,418	$ 1,081,145	$ 1,132,597	$ 993,952	$ 909,092
Contributions as a percentage of covered-employee payroll	9.36%	8.77%	8.75%	8.00%	7.61%	8.08%	8.71%	8.38%	8.44%	10.84%

Note 1. The above information was based off of the June 30, 2023 actuarial report for the measurement date June 30, 2024.

Rosedale-Rio Bravo Water Storage District

Schedules of Changes in the District's
Total OPEB Liability and Related Ratios
December 31, 2024
See Independent Auditors' Report

Total OPEB liability	***2024***	***2023***	***2022***	***2021***	***2020***	***2019***	***2018***
Service costs	$ 22,172	$ 22,172	$ 28,494	$ 27,430	$ 28,431	$ 23,048	$ 24,433
Interest	10,838	7,839	6,147	5,576	7,343	8,362	6,404
Change in accounting principle	97,639	-	-	-	-	-	-
Ecomic/demographic (gains)/losses	14,792	-	-	-	-	-	-
Actual vs. expected experience	-		(75,141)	-	(52,182)	-	-
Changes in assumptions	(7,079)	8,990	(40,875)	1,338	12,417	27,269	(11,690)
Net change in total OPEB Liability	138,362	39,001	(81,375)	34,344	(3,991)	58,679	19,147
Total OPEB liability, beginning	227,549	188,548	269,923	235,579	239,570	180,891	161,744
Total OPEB liability, ending	$ 365,911	$ 227,549	$ 188,548	$ 269,923	$ 235,579	$ 239,570	$ 180,891
Covered employee payroll	$1,494,179	$1,488,082	$1,381,558	$1,253,089	$1,520,578	$1,227,418	$1,081,145
Total OPEB liability as a percentage of covered payroll	24%	15%	14%	22%	15%	19%	17%

Note 1. The total OPEB liability amount presented for each fiscal year was determined as of the fiscal year-end. No assets have been accumulated in a trust that meets the criteria in GASB No. 75, Paragraph 4, to pay related benefits. GASB Statement No. 75 requires governments to include information from the most recent actuarial valuation and nine separate preceding valuations. As of December 31, 2024, the District has only performed seven valuations.

Note 2. The total OPEB liability amount was determined by an actuarial valuation as of December 31, 2024, the measurement date. The following actuarial assumptions applied to all periods in the measurement, unless otherwise specified.

Actuarial cost method:	Entry age normal cost method
Inflation:	Not Provided
Salary increases:	5.0% Annually
Healthcare cost trend rates:	5.8% Medical, 11.7% Pharmacy, 3.5% Dental, 3% Vision, decreasing to 4.1% Medical and Pharmacy, 3% Dental and Vision over 10 years
Discount Rate:	4.51%

Supplementary Information

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Rosedale-Rio Bravo Water Storage District

Schedules of Operating Income to Debt Service Ratio
For the Years Ended December 31, 2024 and 2023

	2024	*2023*
Operating revenues:	$ 14,892,858	$ 20,725,793
Operating expenses (less depreciation expense):	11,546,793	16,788,587
	$ 3,346,065	$ 3,937,206
Debt Service Payments	$ 3,928,225	$ 5,463,489
Ratio of Operating Income to Debt Service Payments	85%	72%

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Independent Auditors' Report on Internal Control over Financial Reporting and on Compliance and Other Matters Based on an Audit of Financial Statements Performed in Accordance with Government Auditing Standards

Board of Directors
Rosedale-Rio Bravo Water Storage District
Bakersfield, California

We have audited, in accordance with the auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States, the financial statements of Rosedale-Rio Bravo Water Storage District (the District), as of and for the year ended December 31, 2024 and the related notes to the financial statements, which collectively comprise the District's basic financial statements, and have issued our report thereon dated September 9, 2025.

Report on Internal Control over Financial Reporting

In planning and performing our audit of the financial statements, we considered the District's internal control over financial reporting (internal control) as a basis for designing audit procedures that are appropriate in the circumstances for the purpose of expressing our opinions on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the District's internal control. Accordingly, we do not express an opinion on the effectiveness of the District's internal control.

A *deficiency in internal control* exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements, on a timely basis. A *material weakness* is a deficiency, or a combination of deficiencies, in internal control, such that there is a reasonable possibility that a material misstatement of the entity's financial statements will not be prevented, or detected and corrected, on a timely basis. A *significant deficiency* is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance.

Our consideration of internal control was for the limited purpose described in the first paragraph of this section and was not designed to identify all deficiencies in internal control that might be material weaknesses or, significant deficiencies. Given these limitations, during our audit we did not identify any deficiencies in internal control that we consider to be material weaknesses. However, material weaknesses or significant deficiencies may exist that were not identified.

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Report on Compliance and Other Matters

As part of obtaining reasonable assurance about whether the District's financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the financial statements. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

Purpose of This Report

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the entity's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the entity's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

BARBICH HOOPER KING
DILL HOFFMAN, LLP

Bakersfield, California
September 9, 2025

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Independent Auditors' Report on Compliance for Each Major Program and on Internal Control over Compliance Required by the Uniform Guidance

Board of Directors
Rosedale-Rio Bravo Water Storage District
Bakersfield, California

Report on Compliance for Each Major Federal Program

Opinion on Each Major Federal Program

We have audited Rosedale-Rio Bravo Water Storage District (the District) compliance with the types of compliance requirements identified as subject to audit in the OMB *Compliance Supplement* that could have a direct and material effect on each of the District's major federal programs for the year ended December 31, 2024. The District's major federal programs are identified in the summary of auditors' results section of the accompanying schedule of findings and questioned costs.

In our opinion, the District complied, in all material respects, with the types of compliance requirements referred to above that could have a direct and material effect on each of its major federal programs for the year ended December 31, 2024.

Basis for Opinion on Each Major Federal Program

We conducted our audit of compliance in accordance with auditing standards generally accepted in the United States of America; the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States; and the audit requirements of Title 2 U.S. *Code of Federal Regulations* Part 200, *Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards* (Uniform Guidance). Our responsibilities under those standards and the Uniform Guidance are further described in the Auditor's Responsibilities for the Audit of Compliance section of our report.

We are required to be independent of the District and to meet our other ethical responsibilities, in accordance with relevant ethical requirements relating to our audit. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion on compliance for each major federal program. Our audit does not provide a legal determination of the District's compliance with the compliance requirements referred to above.

Responsibilities of Management for Compliance

Management is responsible for compliance with the requirements referred to above and for the design, implementation, and maintenance of effective internal control over compliance with the requirements of laws, statutes, regulations, rules, and provisions of contracts or grant agreements applicable to the District's federal programs.

Auditors' Responsibilities for the Audit of Compliance

Our objectives are to obtain reasonable assurance about whether material noncompliance with the compliance requirements referred to above occurred, whether due to fraud or error, and express an opinion on the District's compliance based on our audit. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with generally accepted auditing standards, *Government Auditing Standards*, and the Uniform Guidance will always detect material noncompliance when it exists. The risk of not detecting material noncompliance resulting from fraud is higher than for that resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Noncompliance with the compliance requirements referred to above is considered material if there is a substantial likelihood that, individually or in the aggregate, it would influence the judgment made by a reasonable user of the report on compliance about the District's compliance with the requirements of each major federal program as a whole.

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In performing an audit in accordance with generally accepted auditing standards, *Government Auditing Standards*, and the Uniform Guidance, we:

- Exercise professional judgement and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material noncompliance, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the District's compliance with the compliance requirements referred to above and performing such other procedures as we considered necessary in the circumstances.
- Obtain an understanding of the District's internal control over compliance relevant ot the audit in order to design audit procedures that are appropriate in the circumstances and to test and report on internal control over compliance in accordance with the Uniform Guidance, but not for the purpose of expressing an opinion on the effectiveness of the District's internal control over compliance. Accordingly, no such opinion is expressed.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and any significant deficiencies and material weaknesses in internal control over compliance that we identified during the audit.

Report on Internal Control over Compliance

A *deficiency in internal control over compliance* exists when the design or operation of a control over compliance does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, noncompliance with a type of compliance requirement of a federal program on a timely basis. A *material weakness in internal control over compliance* is a deficiency, or a combination of deficiencies, in internal control over compliance, such that there is a reasonable possibility that material noncompliance with a type of compliance requirement of a federal program will not be prevented, or detected and corrected, on a timely basis. A *significant deficiency in internal control over compliance* is a deficiency, or a combination of deficiencies, in internal control over compliance with a type of compliance requirement of a federal program that is less severe than a material weakness in internal control over compliance, yet important enough to merit attention by those charged with governance.

Our consideration of internal control over compliance was for the limited purpose described in the Auditors' Responsibilities for the Audit of Compliance section above and was not designed to identify all deficiencies in internal control over compliance that might be material weaknesses or significant deficiencies in internal control over compliance. Given these limitations, during our audit we did not identify any deficiencies in internal control over compliance that we consider to be material weaknesses, as defined above. However, material weaknesses or significant deficiencies in internal control over compliance may exist that were not identified.

Our audit was not designed for the purpose of expressing an opinion on the effectiveness of internal control over compliance. Accordingly, no such opinion is expressed.

The purpose of this report on internal control over compliance is solely to describe the scope of our testing of internal control over compliance and the results of that testing based on the requirements of the Uniform Guidance. Accordingly, this report is not suitable for any other purpose.

BARBICH HOOPER KING
DILL HOFFMAN, LLP

Bakersfield, California
September 9, 2025

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Rosedale Rio-Bravo Water Storage District

Schedule of Expenditures of Federal Awards
December 31, 2024

Federal Grantor	***Federal CFDA Number***	***Program Identification Number***	***Federal Expenditures***
United States Department of Interior; Bureau of Reclamation -			
Reclamation States Emergency Drought Relief	15.514	R22AP00342	$ 2,000,000
			$ 2,000,000

See Notes to Schedule of Expenditures of Federal Awards.

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Rosedale-Rio Bravo Water Storage District

Notes to Schedule of Expenditures of Federal Awards

Note 1. Basis of Presentation

The accompanying schedule of expenditures of federal awards (the Schedule) includes the federal award activity of Rosedale-Rio Bravo Water Storage District under programs of the federal government for the year ended December 31, 2024. The information in this Schedule is presented in accordance with the requirements of Title 2 U.S. Code of Federal Regulations Part 200, Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (Uniform Guidance). Because the Schedule presents only a selected portion of the operations of Rosedale-Rio Bravo Water Storage District, it is not intended to and does not present the financial position, changes in net position, or cash flows of Rosedale-Rio Bravo Water Storage District.

Note 2. Summary of Significant Accounting Policies

Expenditures reported on the Schedule are reported on the accrual basis of accounting. Such expenditures are recognized following the cost principles contained in the Uniform Guidance, wherein certain types of expenditures are not allowable or are limited as to reimbursement. No federal financial assistance has been provided to a subrecipient.

Note 3. Indirect Cost Rate

Rosedale-Rio Bravo Water Storage District has elected not to use the 10% de minimis indirect cost rate allowed under the Uniform Guidance.

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Rosedale-Rio Bravo Water Storage District

Schedule of Findings and Questioned Costs
Year Ended December 31, 2024

A. Summary of Auditors' Results

1. The independent auditors' report expresses an unmodified opinion on whether the financial statements of Rosedale-Rio Bravo Water Storage District were prepared in accordance with GAAP.

2. No significant deficiencies or material weaknesses relating to the audit of the financial statements were reported.

3. No instances of noncompliance material to the financial statements of Rosedale-Rio Bravo Water Storage District, which would be required to be reported in accordance with *Government Auditing Standards,* were disclosed during the audit.

4. No significant deficiencies or material weaknesses in internal control over major federal award programs were disclosed during the audit.

5. The independent auditors' report on compliance for the major federal award programs for Rosedale-Rio Bravo Water Storage District expresses an unmodified opinion on all major federal programs.

6. There were no audit findings that are required to be reported in accordance with 2 CFR Section 200.516(a) are reported in this schedule.

7. The program tested as a major program was: Reclamation States Emergency Drought Relief, CFDA number 15.514.

8. The dollar threshold used to distinguish Type A and Type B programs was $750,000.

9. Rosedale-Rio Bravo Water Storage District was not determined to be a low-risk auditee.

B. Findings Related to the Financial Statements which are Required to be Reported in Accordance with Government Auditing Standards

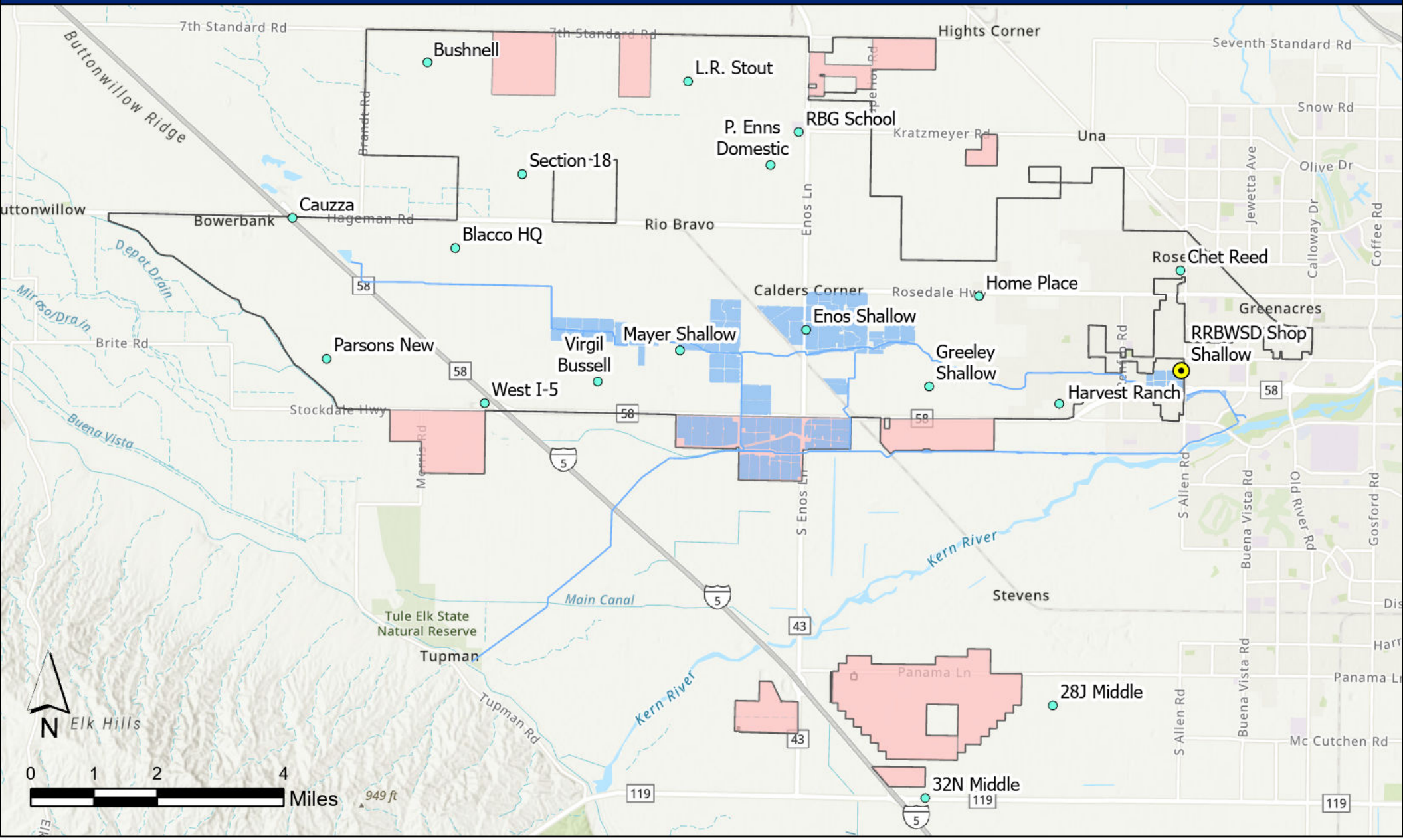
There are no findings required to be reported in accordance with *Government Auditing Standards*.

C. Findings and Questioned Costs for Federal Awards

There are no findings to be reported under 2 CFR 200, paragraph .516 of the Uniform Guidance and no costs questioned as of December 31, 2024.

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Rosedale-Rio Bravo Water Storage District GSA Groundwater Level Monitoring Network
Bakersfield, CA



Water Level Representative Monitoring Wells (RMWs)

Conveyance Facilities

Recharge Ponds

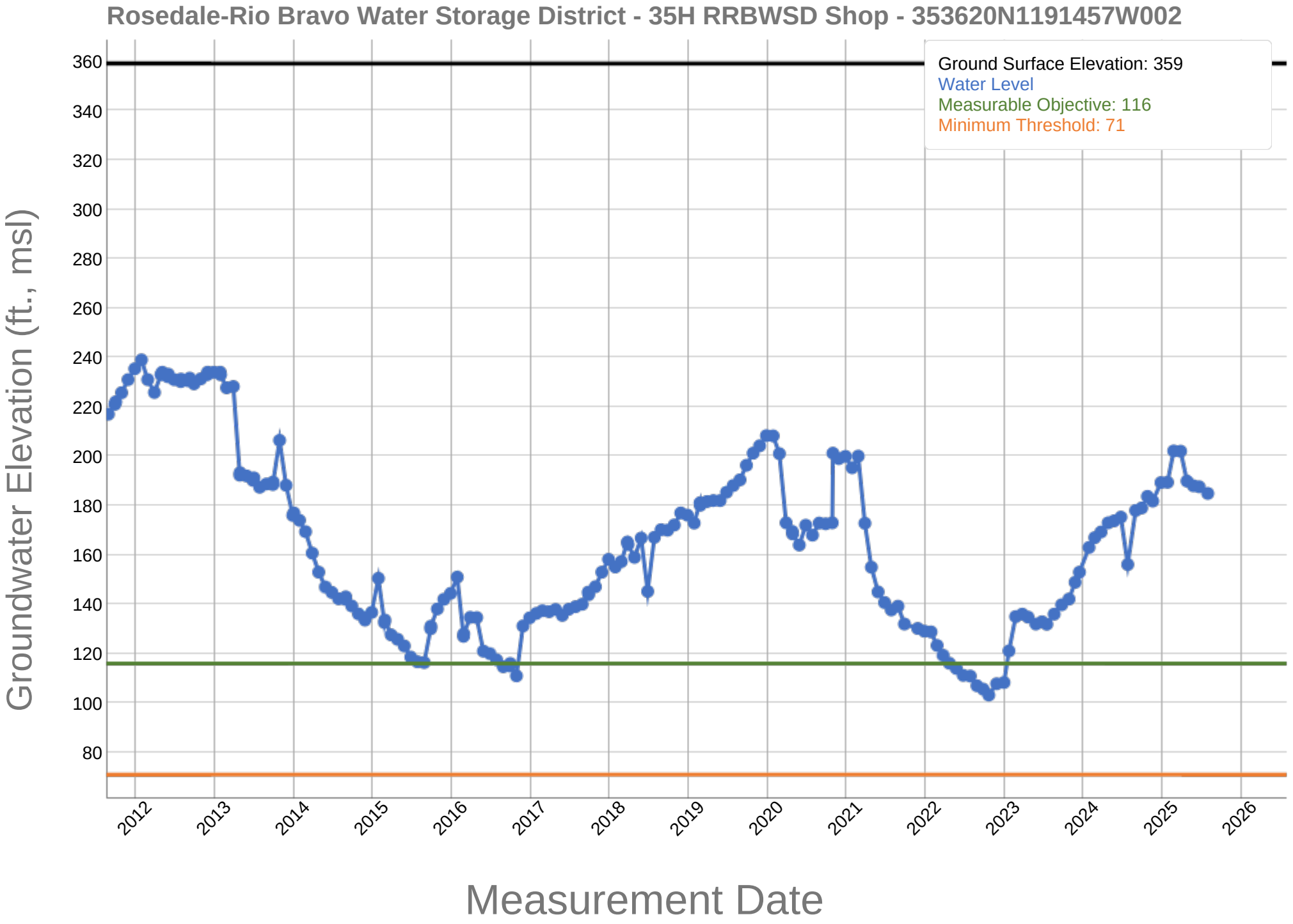
RRBWSD GSA White Lands

RRBWSD GSA Boundary

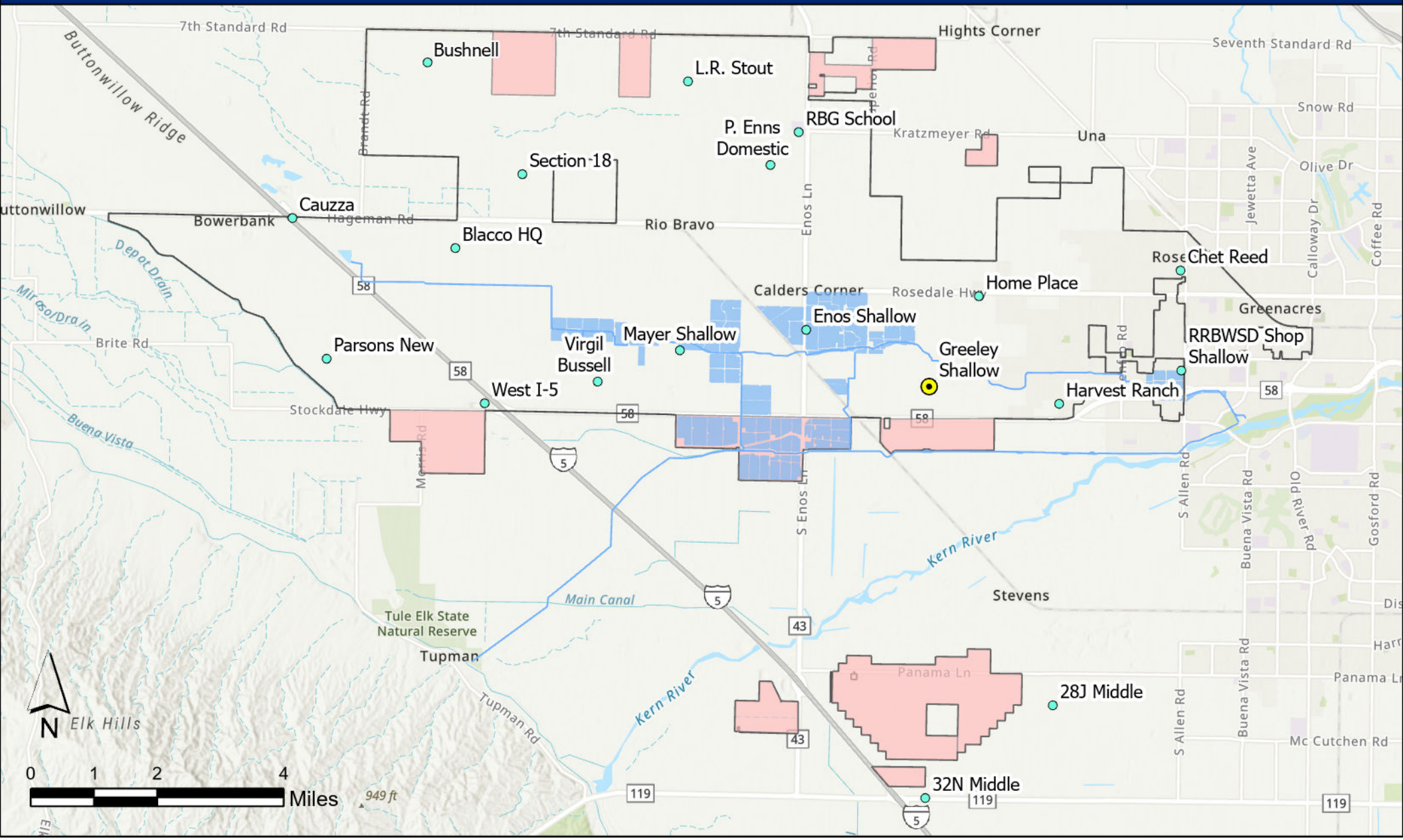
ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT

RRBWSD GSA

ROSEDALE RIO BRAVO WATER STORAGE DISTRICT GROUNDWATER SUSTAINABILITY AGENCY


Rosedale-Rio Bravo Water Storage District - 35H RRBWSD Shop - 353620N1191457W002
Ground Surface Elevation: 359
Water Level
Measurable Objective: 116
Minimum Threshold: 71
Groundwater Elevation (ft., msl)
360
340
320
300
280
260
240
220
200
180
160
140
120
100
80
2012
2013
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2017
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2021
2022
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2024
2025
2026
Measurement Date

Rosedale-Rio Bravo Water Storage District GSA Groundwater Level Monitoring Network
Bakersfield, CA



Water Level Representative Monitoring Wells (RMWs)

Conveyance Facilities

Recharge Ponds

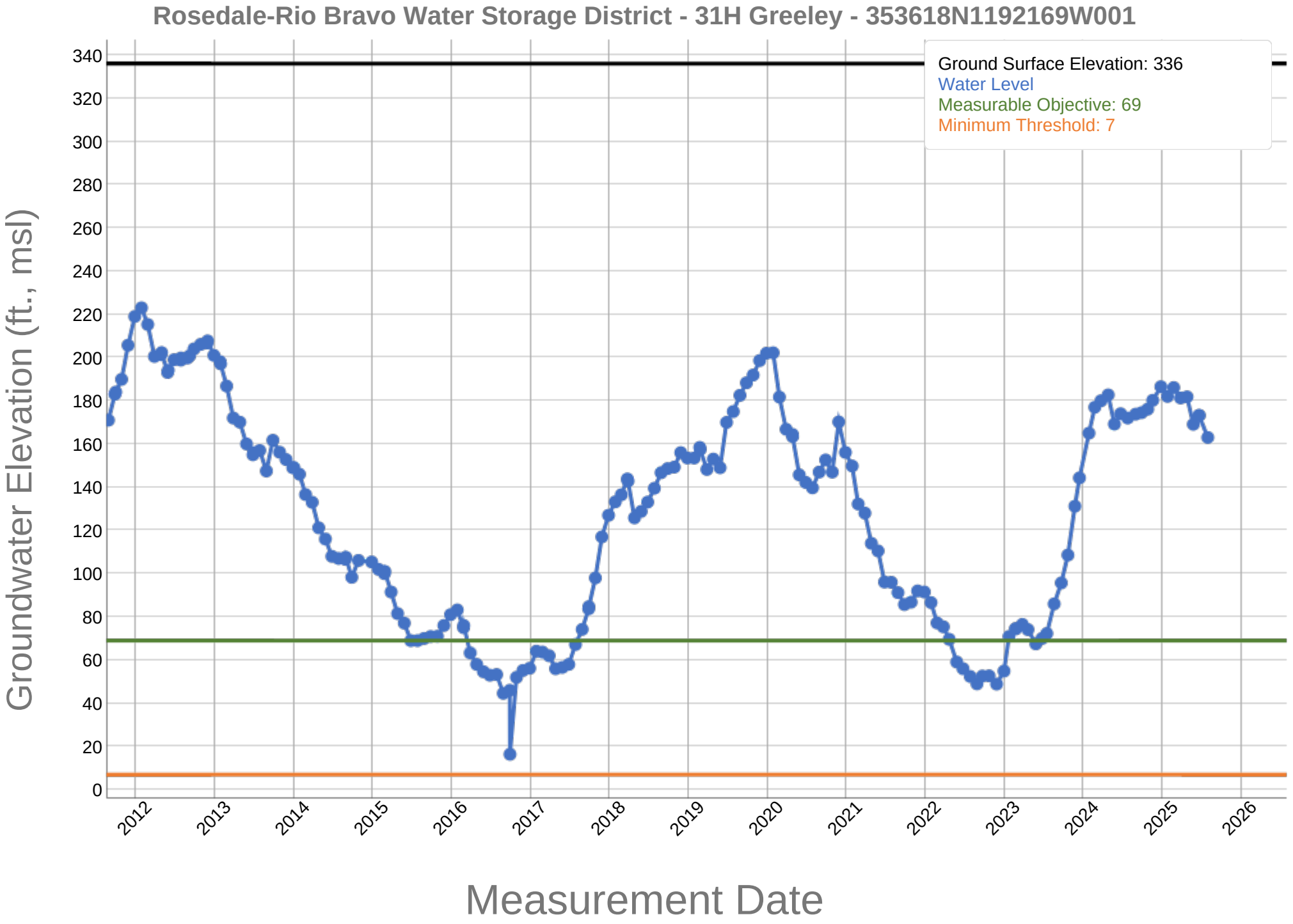
RRBWSD GSA White Lands

RRBWSD GSA Boundary

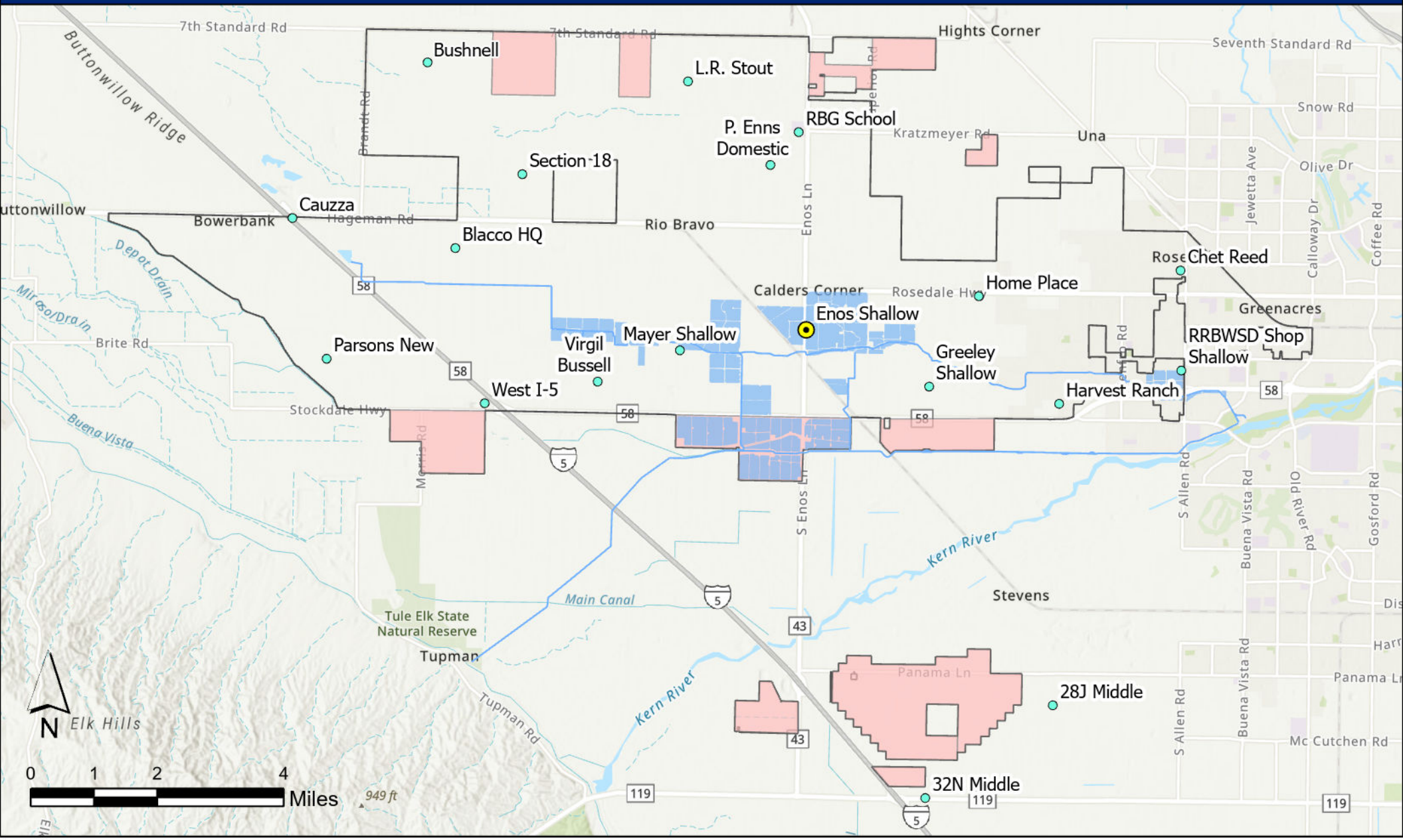
ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT

RRBWSD GSA

ROSEDALE RIO BRAVO WATER STORAGE DISTRICT GROUNDWATER SUSTAINABILITY AGENCY


Rosedale-Rio Bravo Water Storage District - 31H Greeley - 353618N1192169W001
Ground Surface Elevation: 336
Water Level
Measurable Objective: 69
Minimum Threshold: 7
Groundwater Elevation (ft., msl)
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
2012
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2021
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2024
2025
2026
Measurement Date

Rosedale-Rio Bravo Water Storage District GSA Groundwater Level Monitoring Network
Bakersfield, CA



Water Level Representative Monitoring Wells (RMWs)

Conveyance Facilities

Recharge Ponds

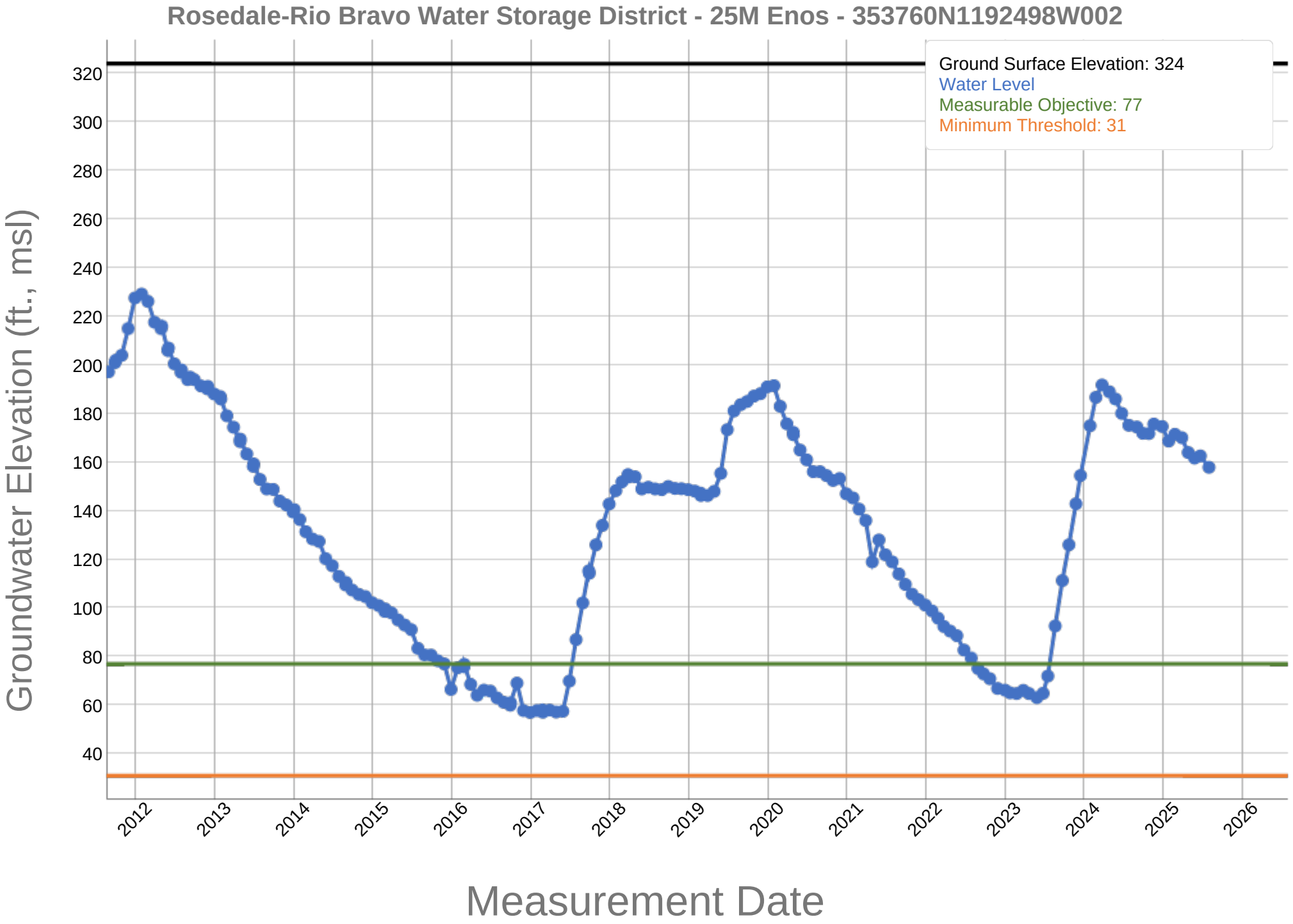
RRBWSD GSA White Lands

RRBWSD GSA Boundary

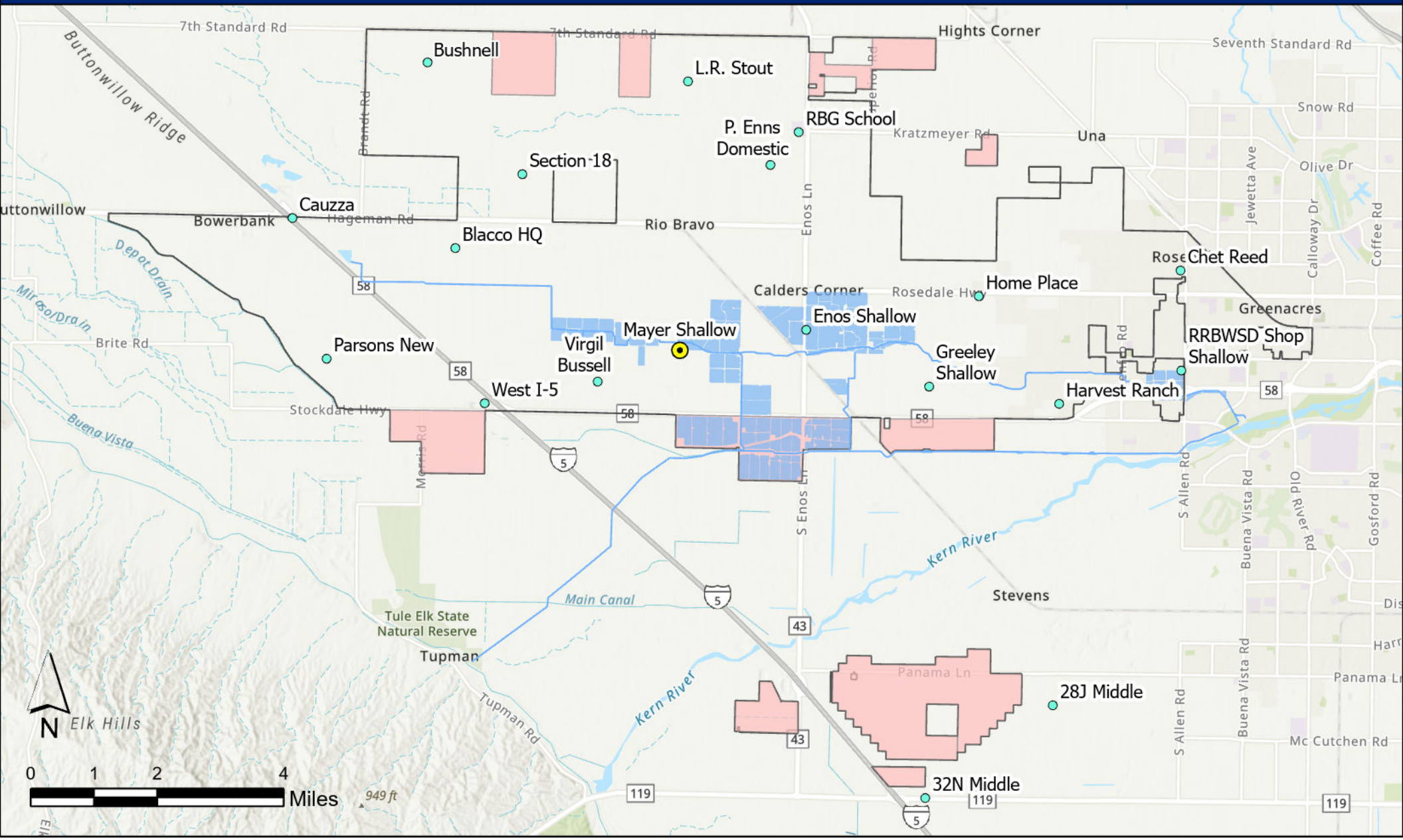
ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT

RRBWSD GSA

ROSEDALE RIO BRAVO WATER STORAGE DISTRICT GROUNDWATER SUSTAINABILITY AGENCY


Rosedale-Rio Bravo Water Storage District - 25M Enos - 353760N1192498W002
Ground Surface Elevation: 324
Water Level
Measurable Objective: 77
Minimum Threshold: 31
Groundwater Elevation (ft., msl)
320
300
280
260
240
220
200
180
160
140
120
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80
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Measurement Date

Rosedale-Rio Bravo Water Storage District GSA Groundwater Level Monitoring Network
Bakersfield, CA



Water Level Representative Monitoring Wells (RMWs)

Conveyance Facilities

Recharge Ponds

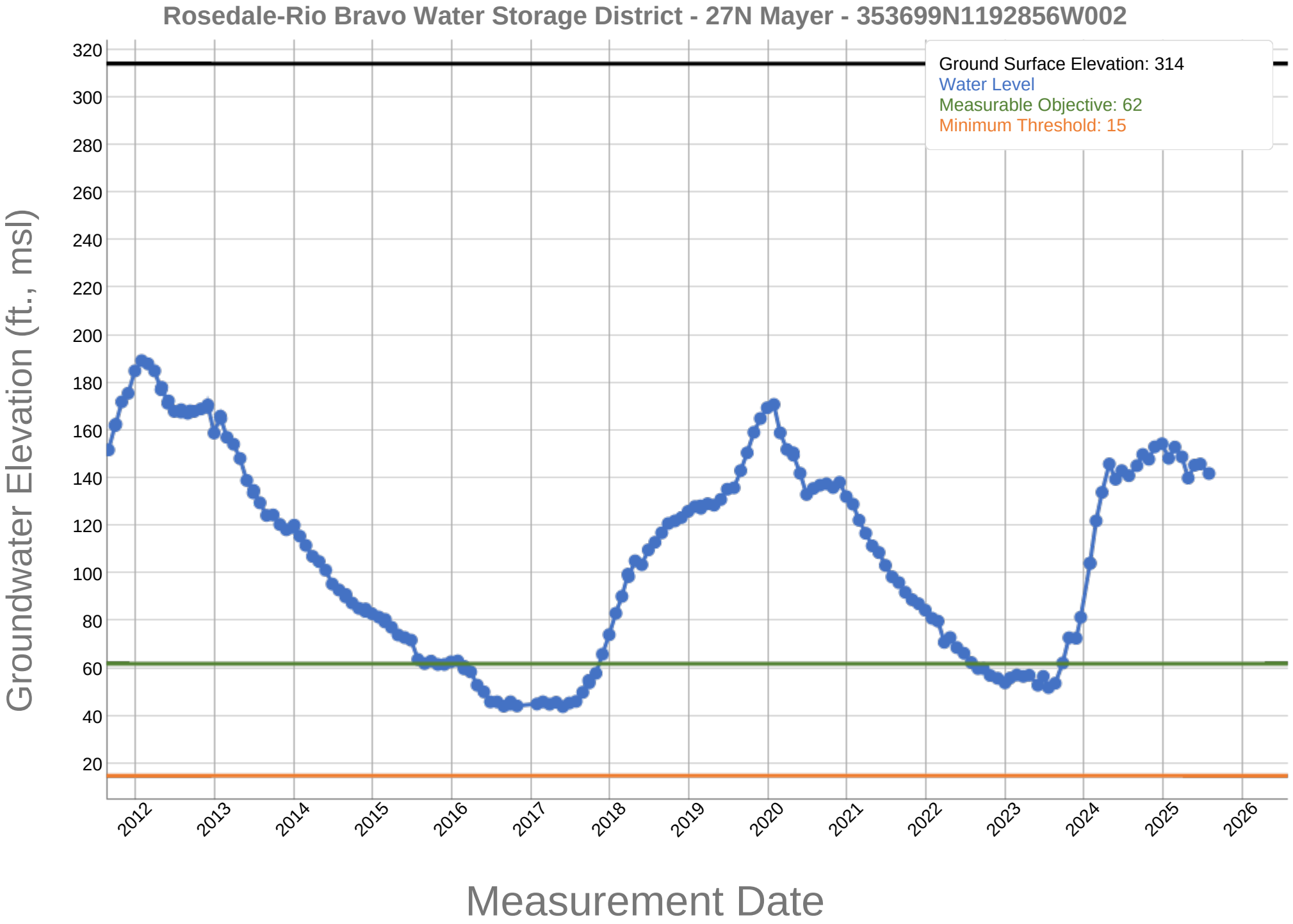
RRBWSD GSA White Lands

RRBWSD GSA Boundary

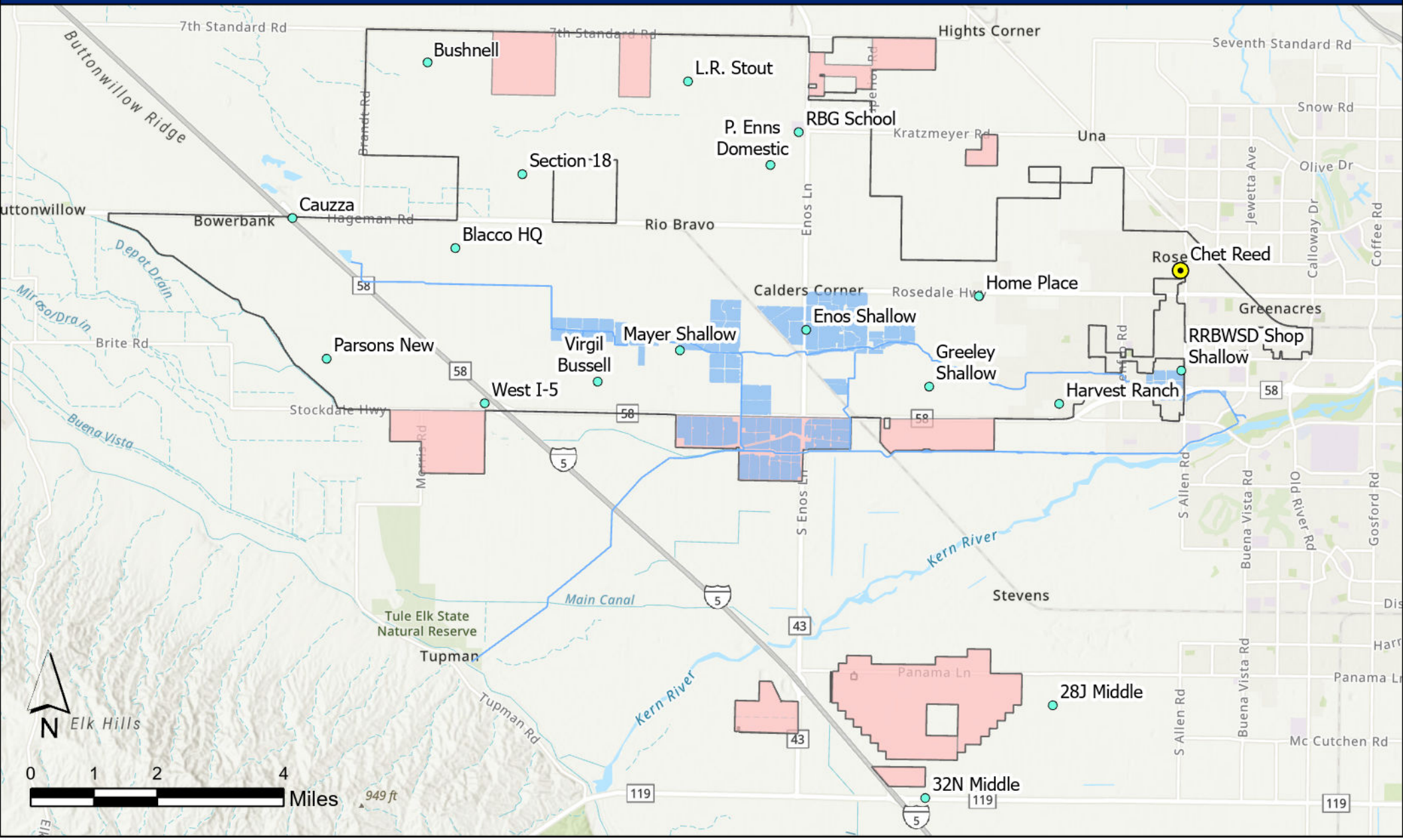
ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT

RRBWSD GSA

ROSEDALE RIO BRAVO WATER STORAGE DISTRICT GROUNDWATER SUSTAINABILITY AGENCY


Rosedale-Rio Bravo Water Storage District - 27N Mayer - 353699N1192856W002
Ground Surface Elevation: 314
Water Level
Measurable Objective: 62
Minimum Threshold: 15
Groundwater Elevation (ft., msl)
320
300
280
260
240
220
200
180
160
140
120
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Measurement Date

Rosedale-Rio Bravo Water Storage District GSA Groundwater Level Monitoring Network
Bakersfield, CA



Water Level Representative Monitoring Wells (RMWs)

Conveyance Facilities

Recharge Ponds

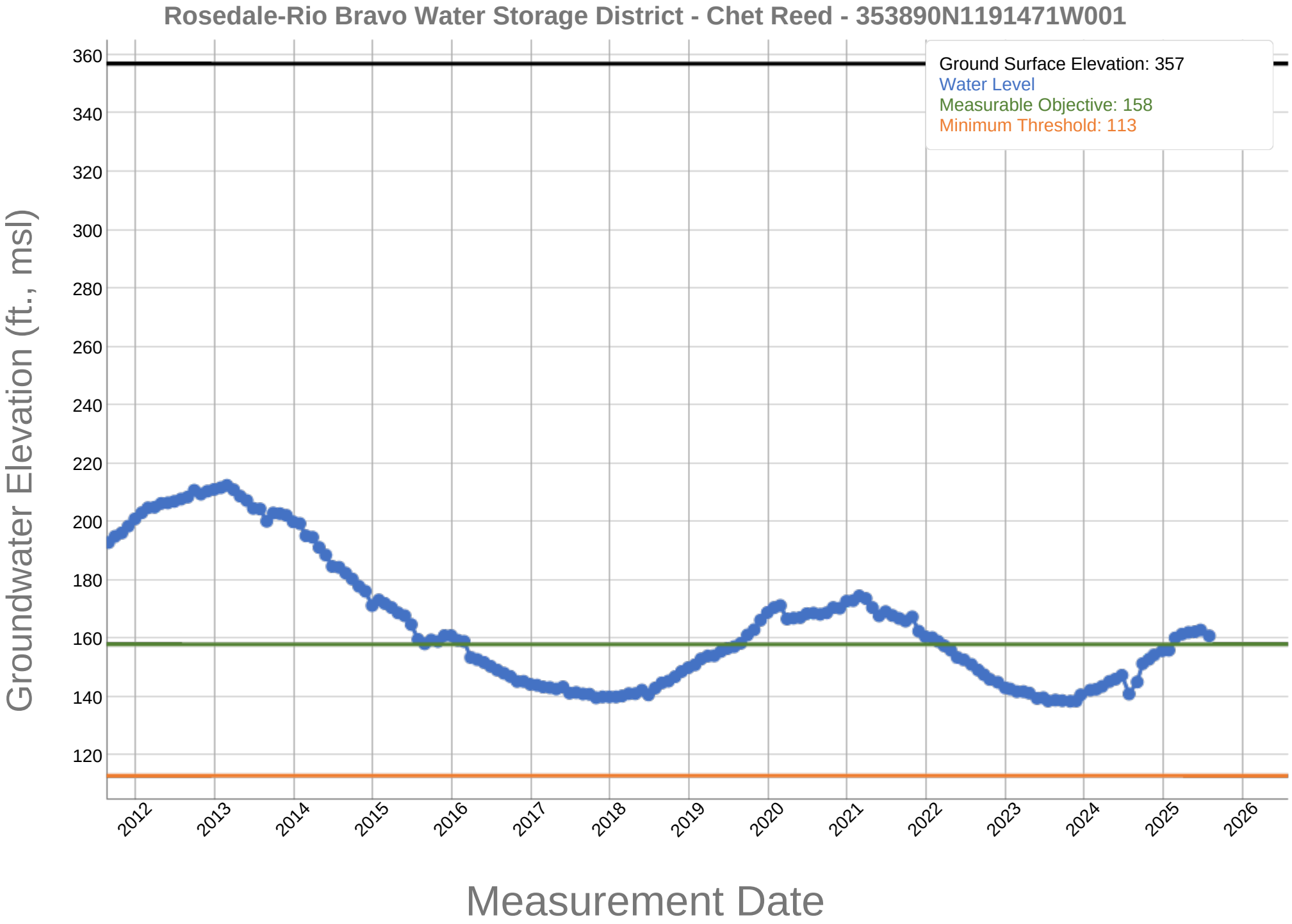
RRBWSD GSA White Lands

RRBWSD GSA Boundary

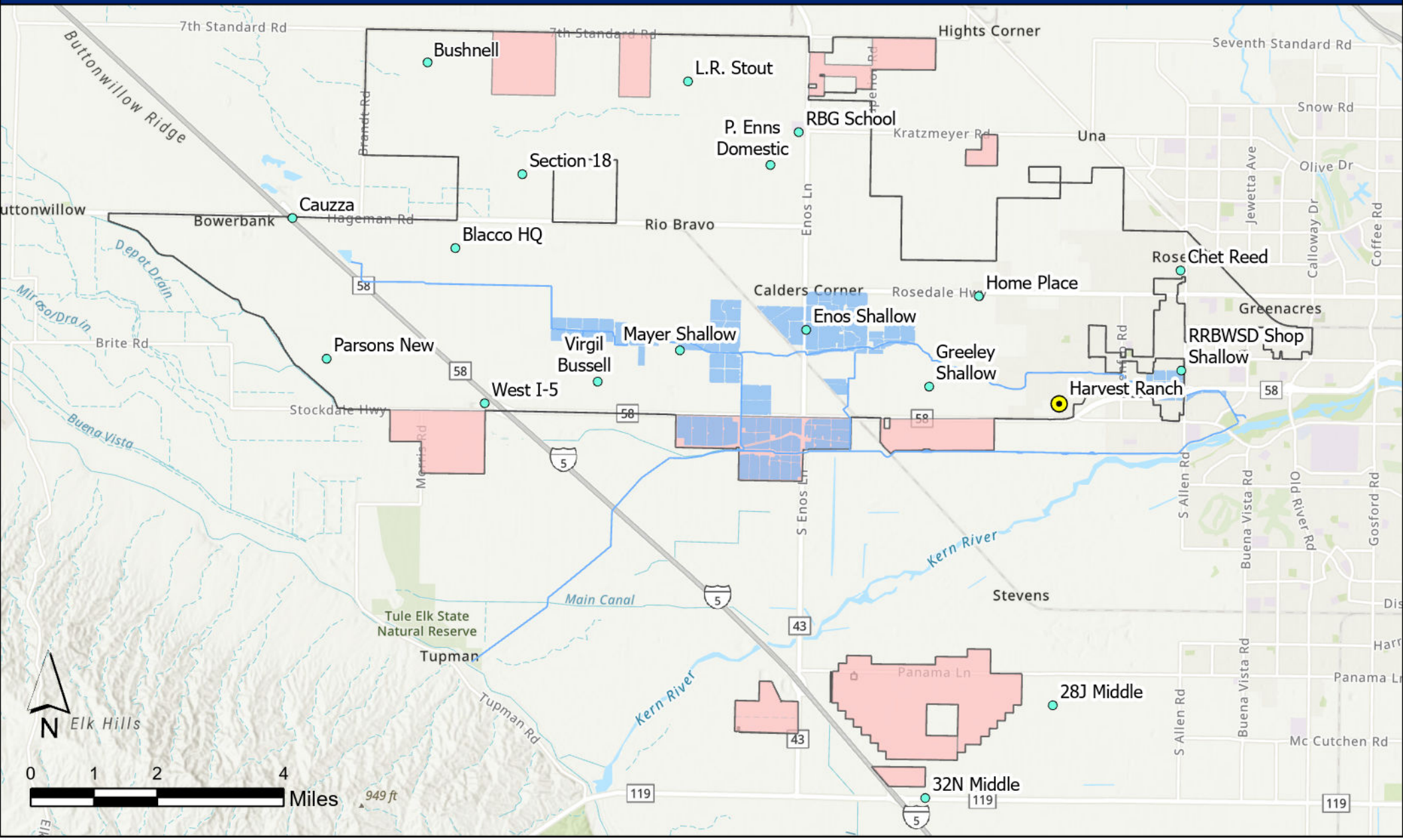
ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT

RRBWSD GSA

ROSEDALE RIO BRAVO WATER STORAGE DISTRICT GROUNDWATER SUSTAINABILITY AGENCY


Rosedale-Rio Bravo Water Storage District - Chet Reed - 353890N1191471W001
Ground Surface Elevation: 357
Water Level
Measurable Objective: 158
Minimum Threshold: 113
Groundwater Elevation (ft., msl)
360
340
320
300
280
260
240
220
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Measurement Date

Rosedale-Rio Bravo Water Storage District GSA Groundwater Level Monitoring Network
Bakersfield, CA



Water Level Representative Monitoring Wells (RMWs)

Conveyance Facilities

Recharge Ponds

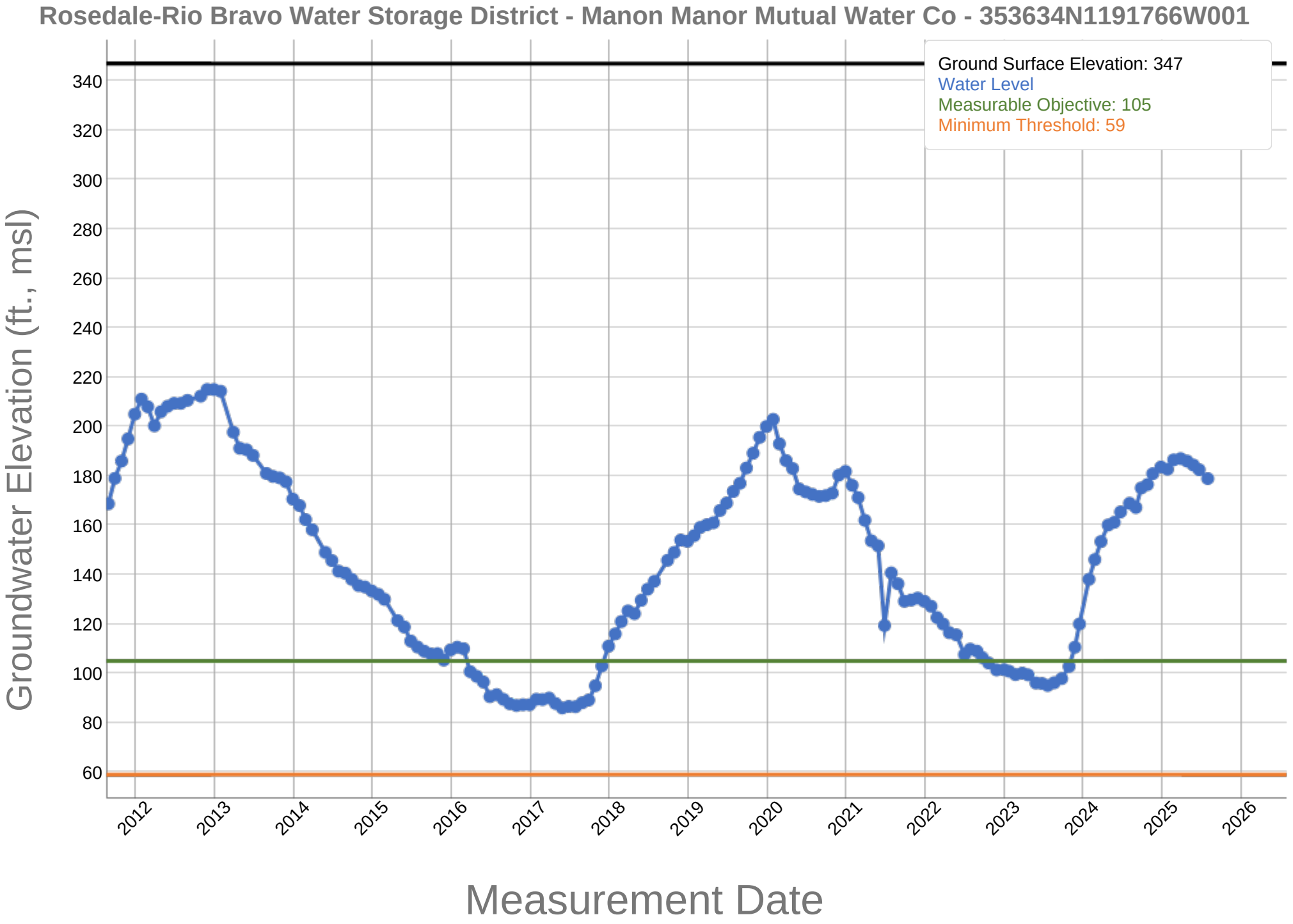
RRBWSD GSA White Lands

RRBWSD GSA Boundary

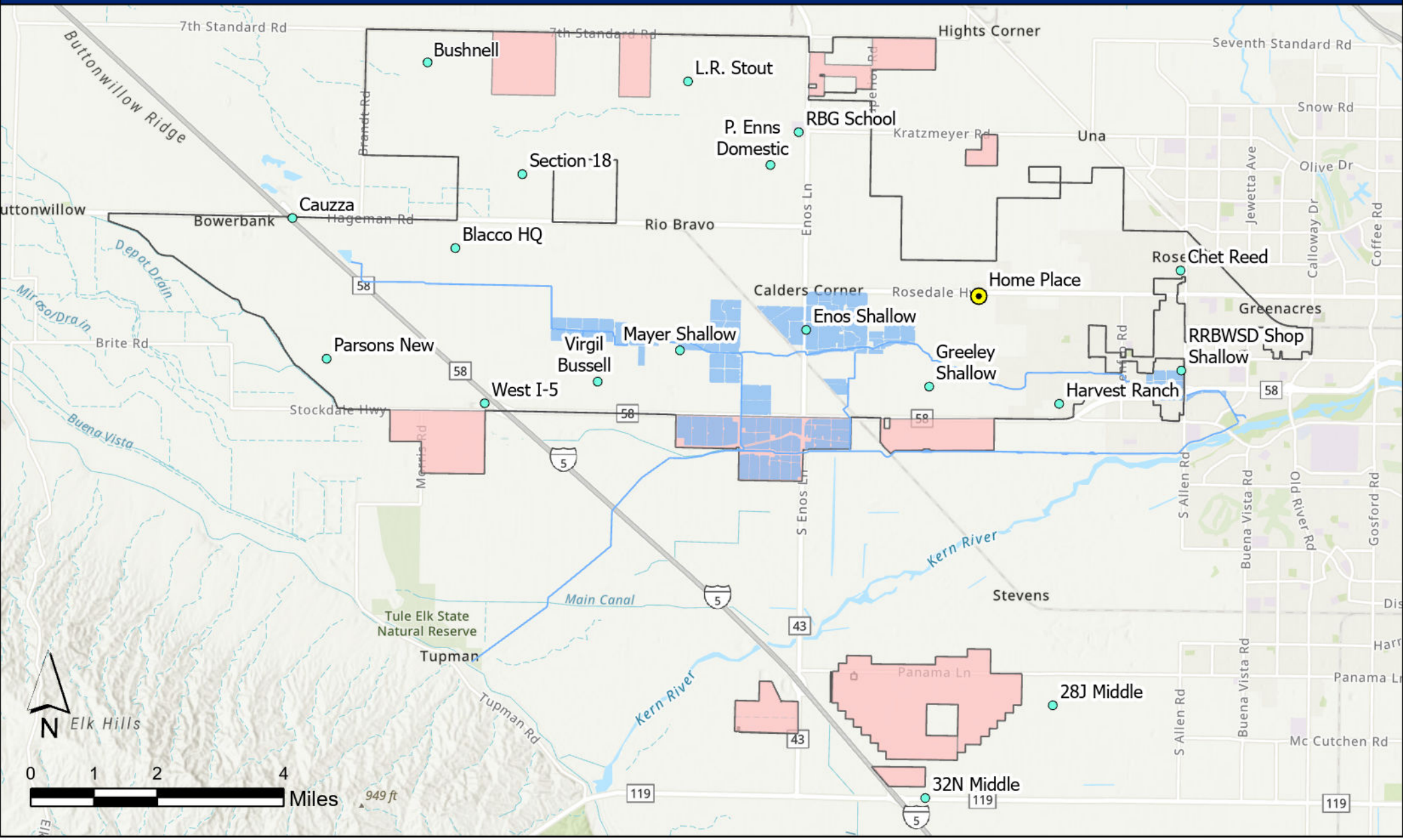
ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT

RRBWSD GSA

ROSEDALE RIO BRAVO WATER STORAGE DISTRICT GROUNDWATER SUSTAINABILITY AGENCY


Rosedale-Rio Bravo Water Storage District - Manon Manor Mutual Water Co - 353634N1191766W001
Ground Surface Elevation: 347
Water Level
Measurable Objective: 105
Minimum Threshold: 59
Groundwater Elevation (ft., msl)
340
320
300
280
260
240
220
200
180
160
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Measurement Date

Rosedale-Rio Bravo Water Storage District GSA Groundwater Level Monitoring Network
Bakersfield, CA



Water Level Representative Monitoring Wells (RMWs)

Conveyance Facilities

Recharge Ponds

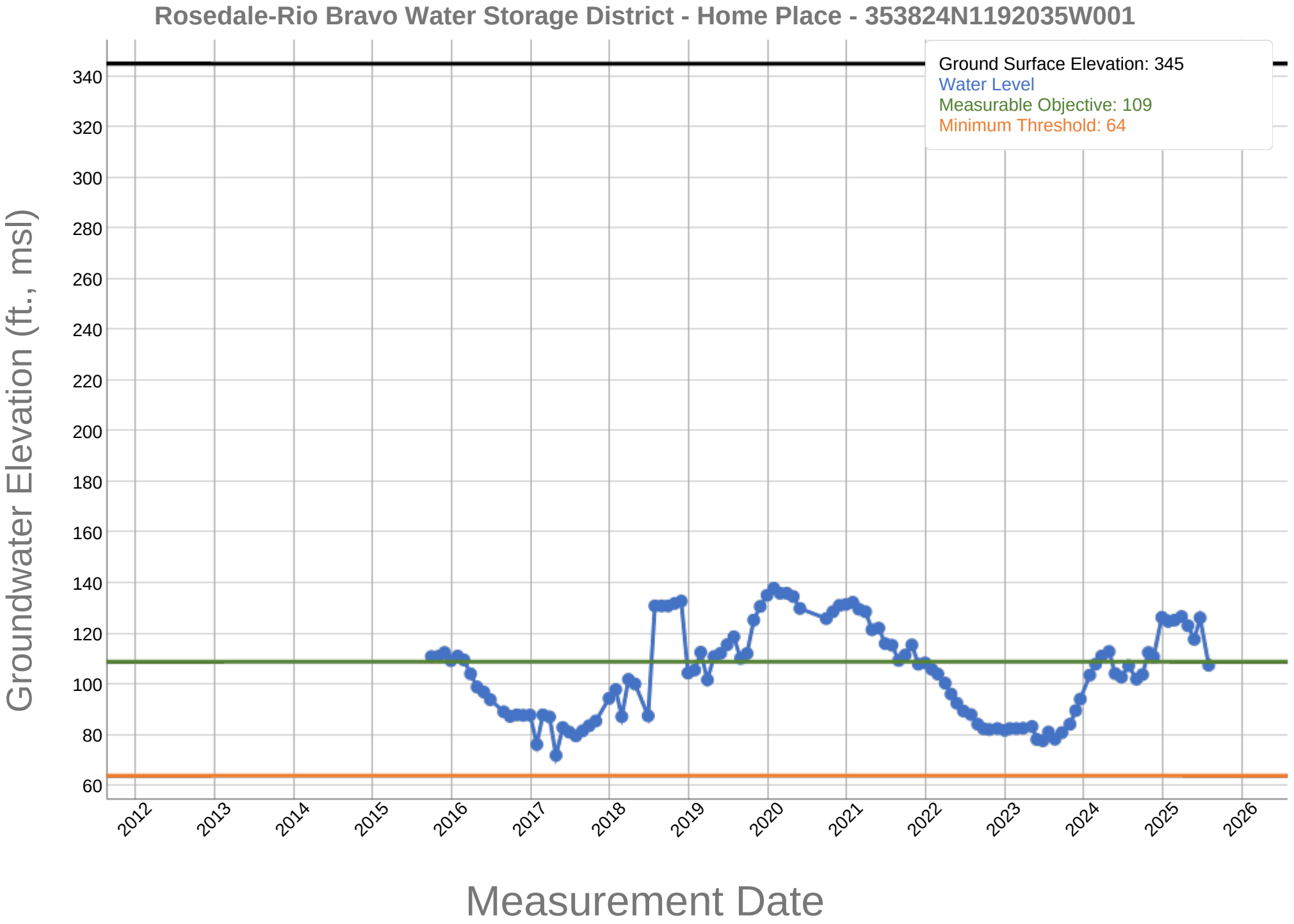
RRBWSD GSA White Lands

RRBWSD GSA Boundary

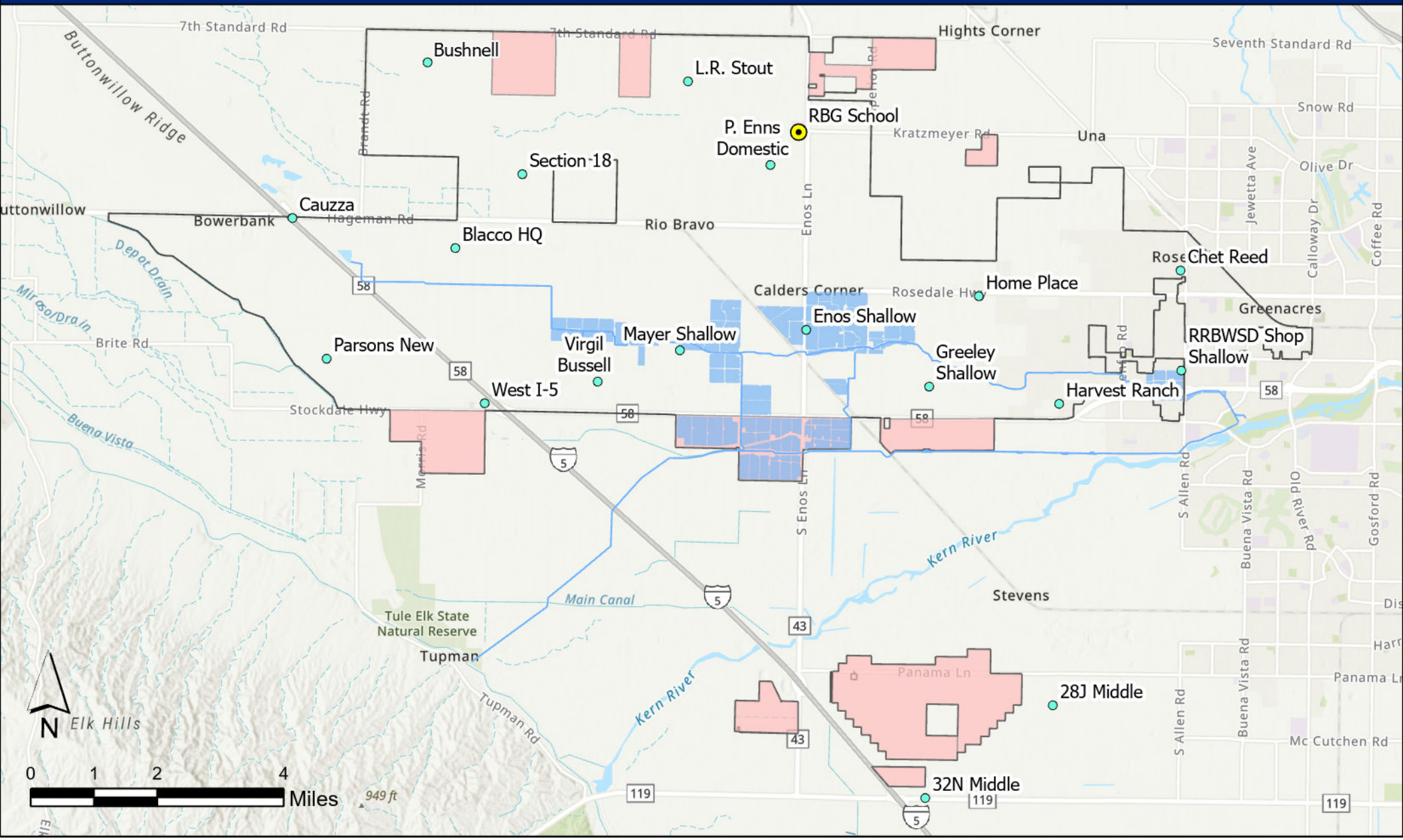
ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT

RRBWSD GSA

ROSEDALE RIO BRAVO WATER STORAGE DISTRICT GROUNDWATER SUSTAINABILITY AGENCY


Rosedale-Rio Bravo Water Storage District - Home Place - 353824N1192035W001
Ground Surface Elevation: 345
Water Level
Measurable Objective: 109
Minimum Threshold: 64
Groundwater Elevation (ft., msl)
340
320
300
280
260
240
220
200
180
160
140
120
100
80
60
2012
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Measurement Date

Rosedale-Rio Bravo Water Storage District GSA Groundwater Level Monitoring Network
Bakersfield, CA



Water Level Representative Monitoring Wells (RMWs)

Conveyance Facilities

Recharge Ponds

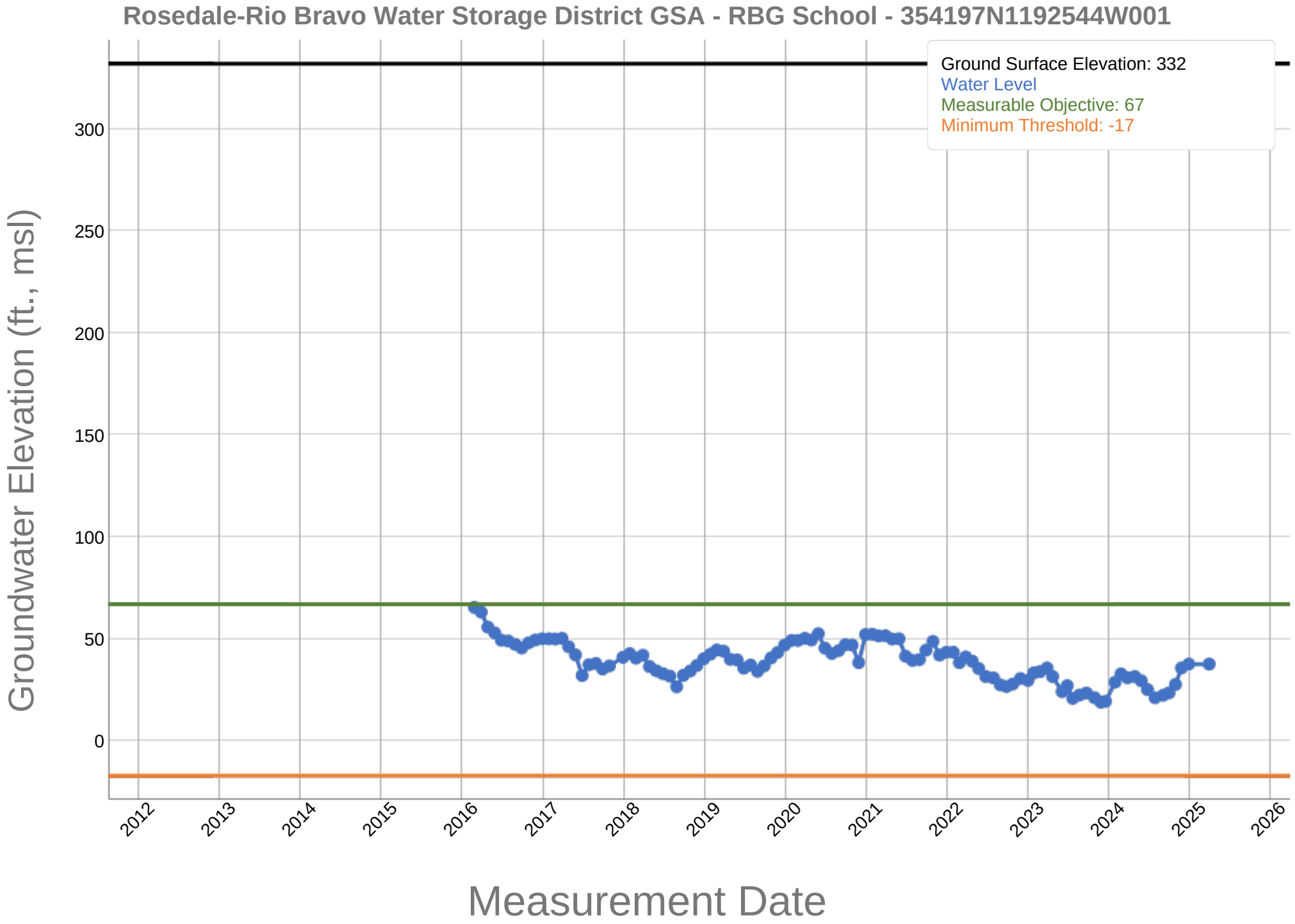
RRBWSD GSA White Lands

RRBWSD GSA Boundary

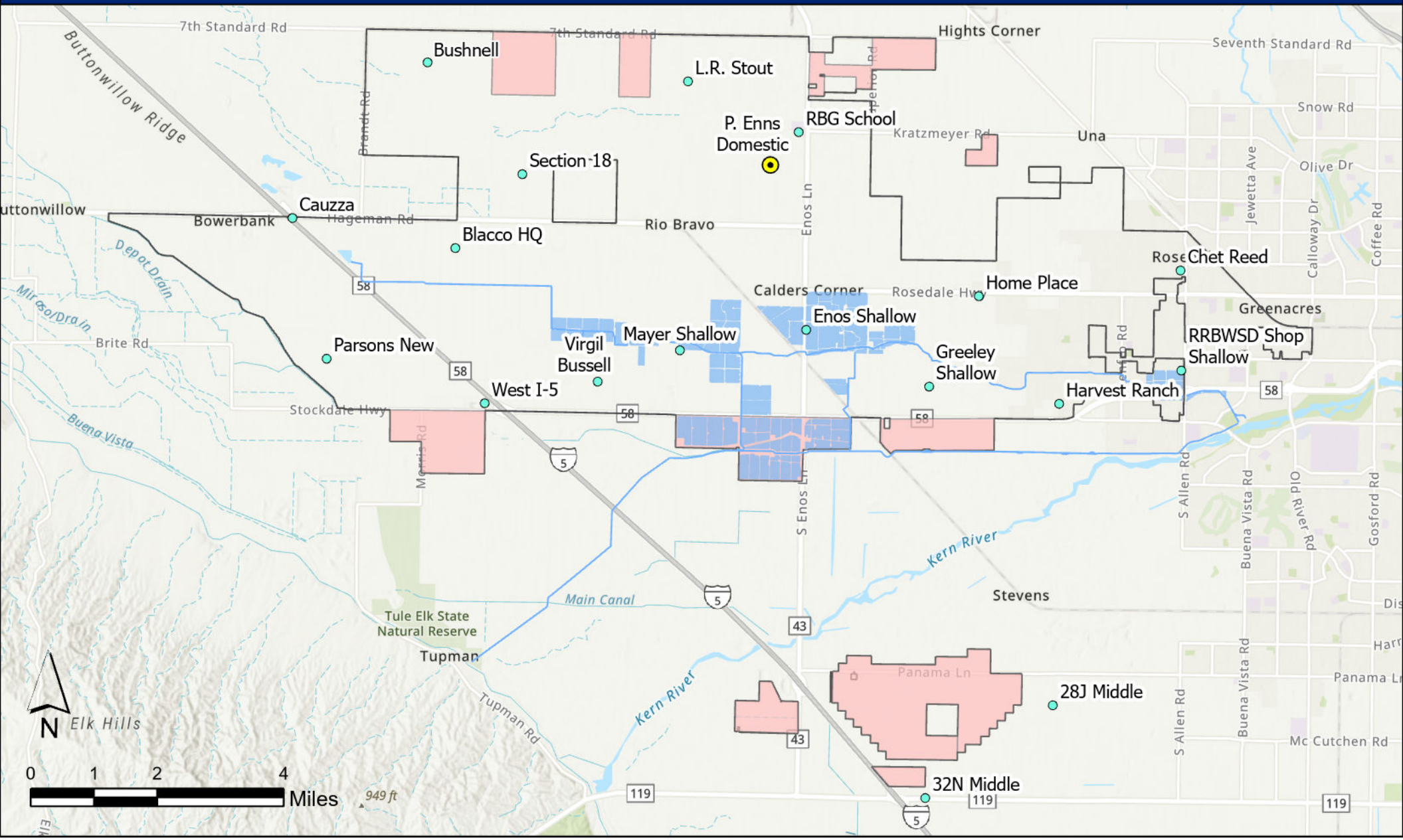
ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT

RRBWSD GSA

ROSEDALE RIO BRAVO WATER STORAGE DISTRICT GROUNDWATER SUSTAINABILITY AGENCY


Rosedale-Rio Bravo Water Storage District GSA - RBG School - 354197N1192544W001
Ground Surface Elevation: 332
Water Level
Measurable Objective: 67
Minimum Threshold: -17
Groundwater Elevation (ft., msl)
300
250
200
150
100
50
0
2012
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2026
Measurement Date

Rosedale-Rio Bravo Water Storage District GSA Groundwater Level Monitoring Network
Bakersfield, CA



Water Level Representative Monitoring Wells (RMWs)

Conveyance Facilities

Recharge Ponds

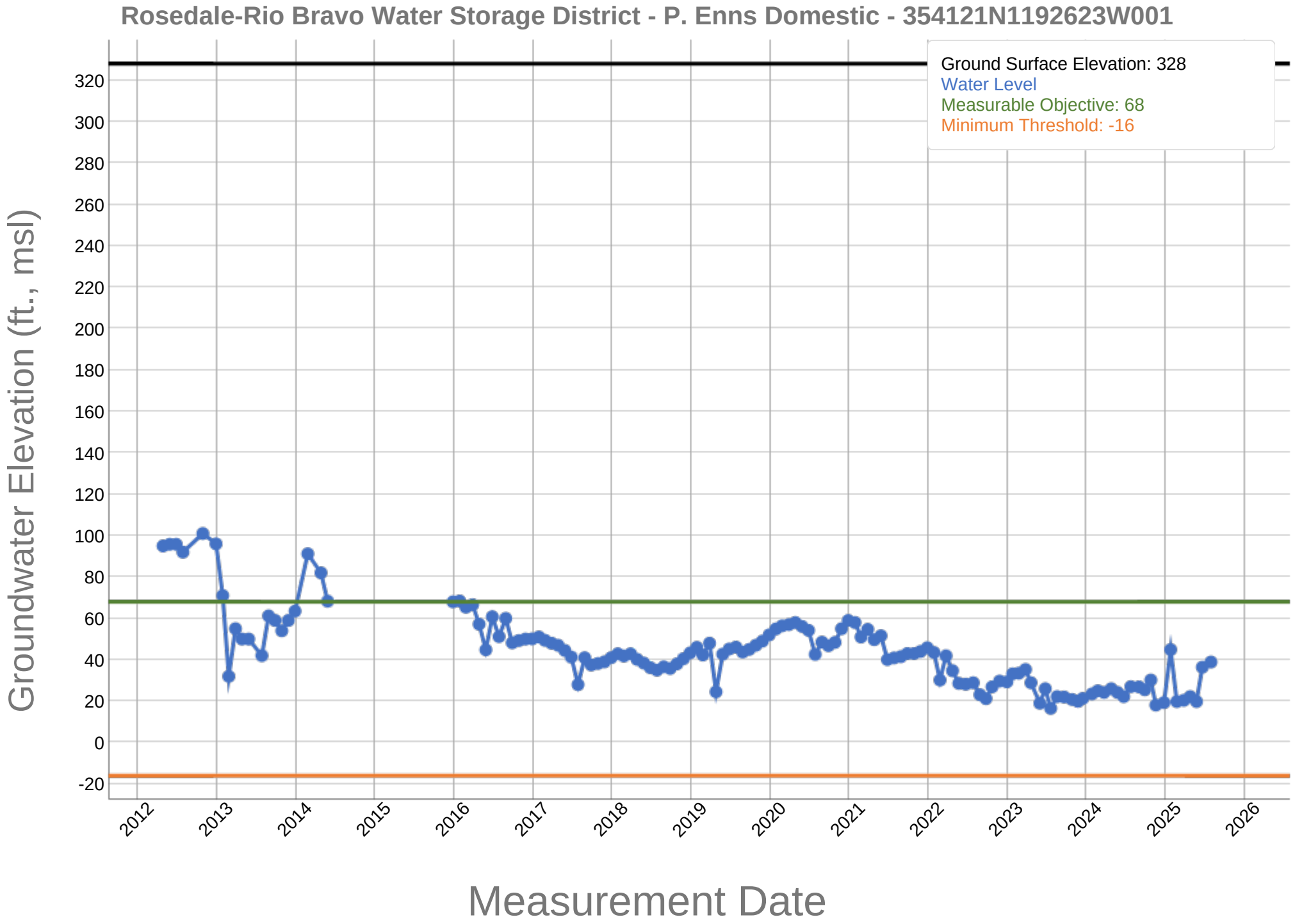
RRBWSD GSA White Lands

RRBWSD GSA Boundary

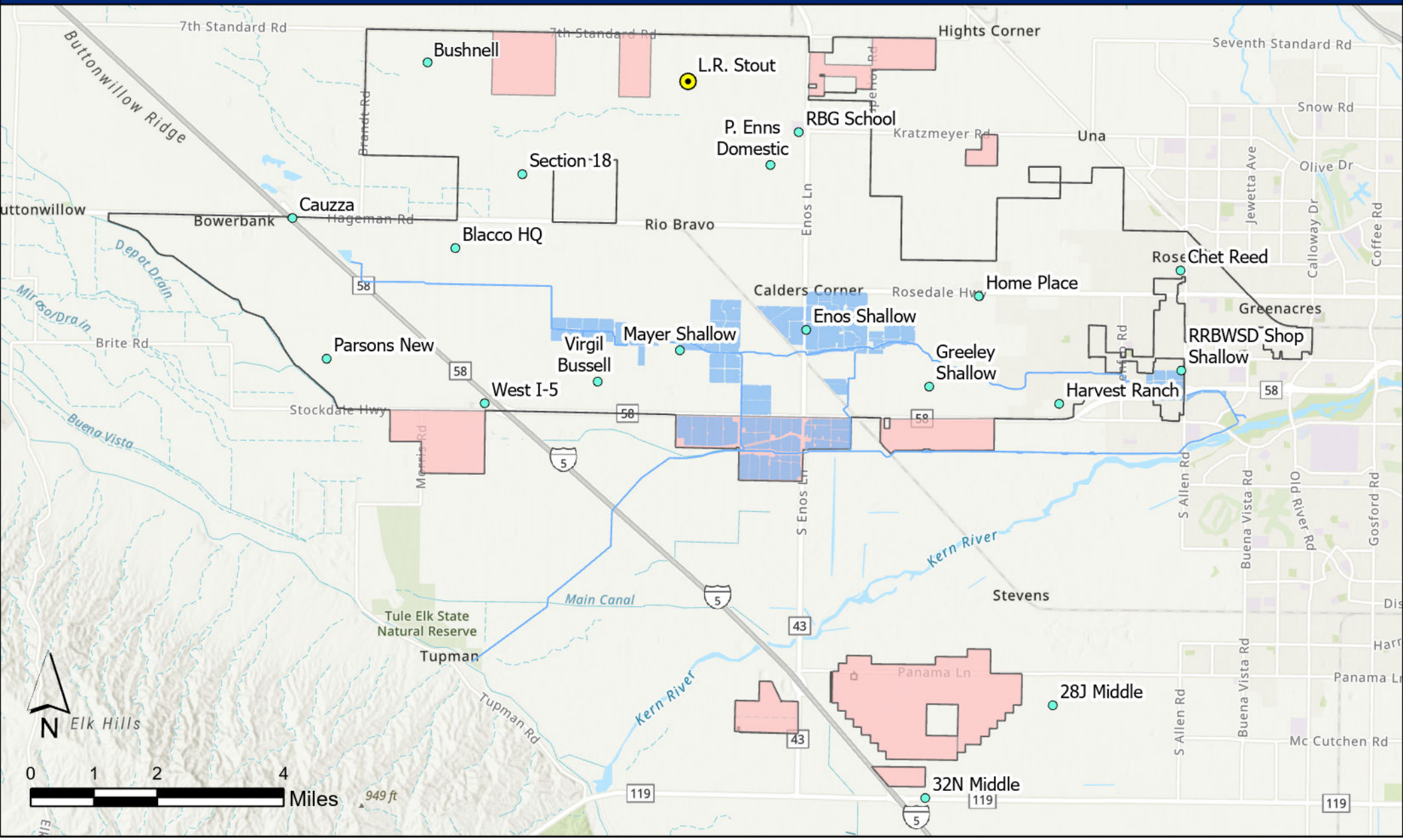
ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT

RRBWSD GSA

ROSEDALE RIO BRAVO WATER STORAGE DISTRICT GROUNDWATER SUSTAINABILITY AGENCY


Rosedale-Rio Bravo Water Storage District - P. Enns Domestic - 354121N1192623W001
Ground Surface Elevation: 328
Water Level
Measurable Objective: 68
Minimum Threshold: -16
Groundwater Elevation (ft., msl)
320
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
-20
2012
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2026
Measurement Date

Rosedale-Rio Bravo Water Storage District GSA Groundwater Level Monitoring Network
Bakersfield, CA



Water Level Representative Monitoring Wells (RMWs)

Conveyance Facilities

Recharge Ponds

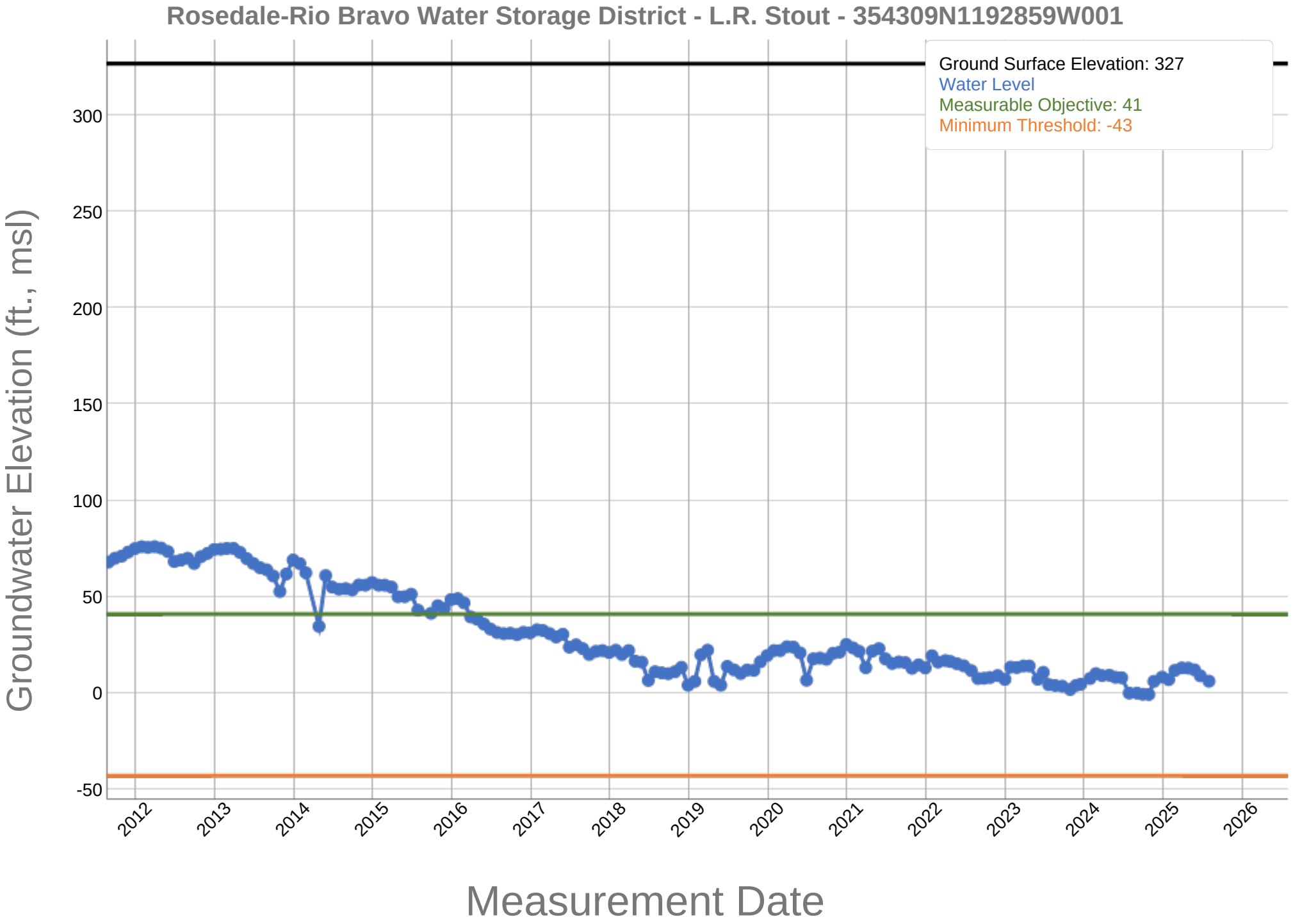
RRBWSD GSA White Lands

RRBWSD GSA Boundary

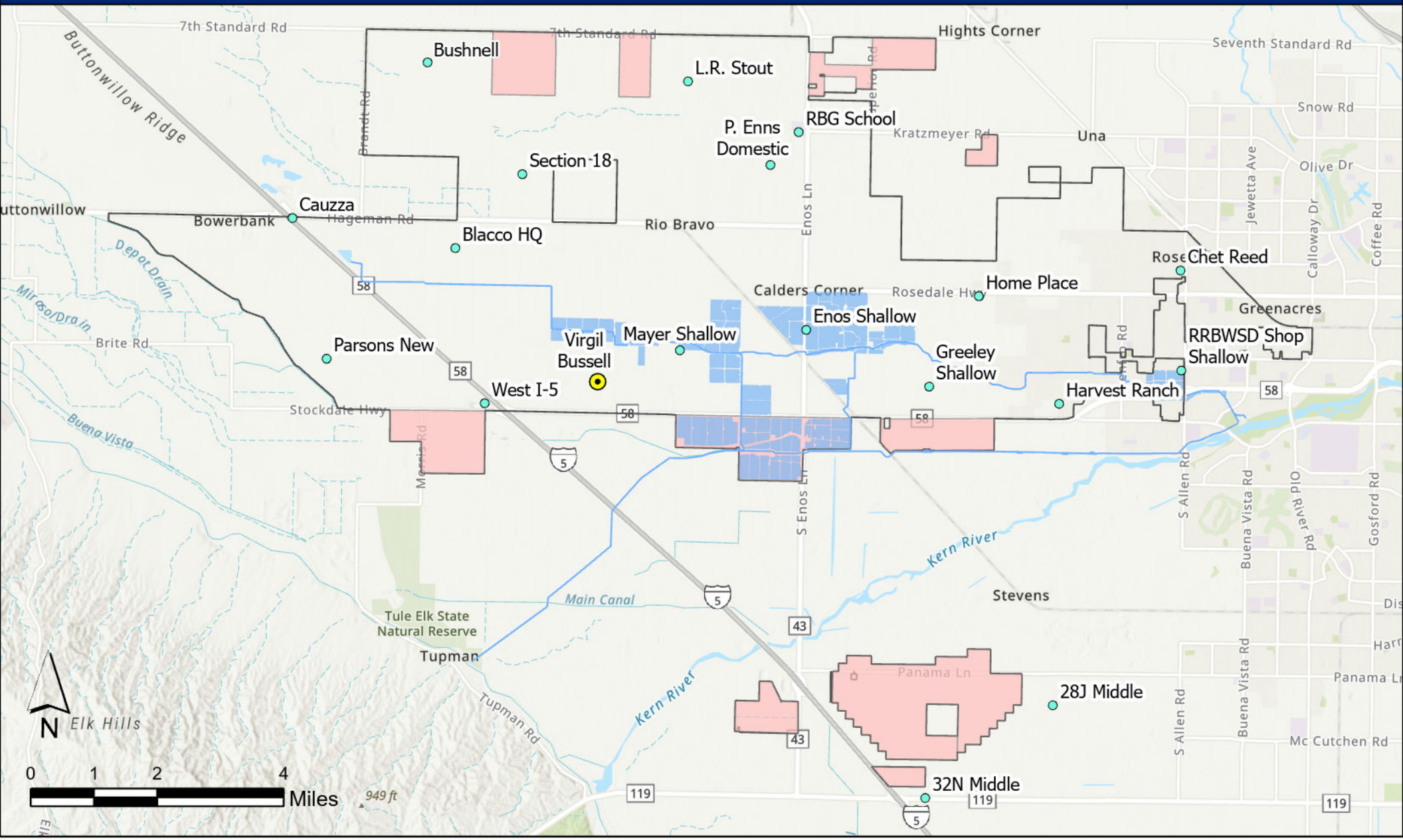
ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT

RRBWSD GSA

ROSEDALE RIO BRAVO WATER STORAGE DISTRICT GROUNDWATER SUSTAINABILITY AGENCY


Rosedale-Rio Bravo Water Storage District - L.R. Stout - 354309N1192859W001
Ground Surface Elevation: 327
Water Level
Measurable Objective: 41
Minimum Threshold: -43
Groundwater Elevation (ft., msl)
300
250
200
150
100
50
0
-50
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
2026
Measurement Date

Rosedale-Rio Bravo Water Storage District GSA Groundwater Level Monitoring Network
Bakersfield, CA



Water Level Representative Monitoring Wells (RMWs)

Conveyance Facilities

Recharge Ponds

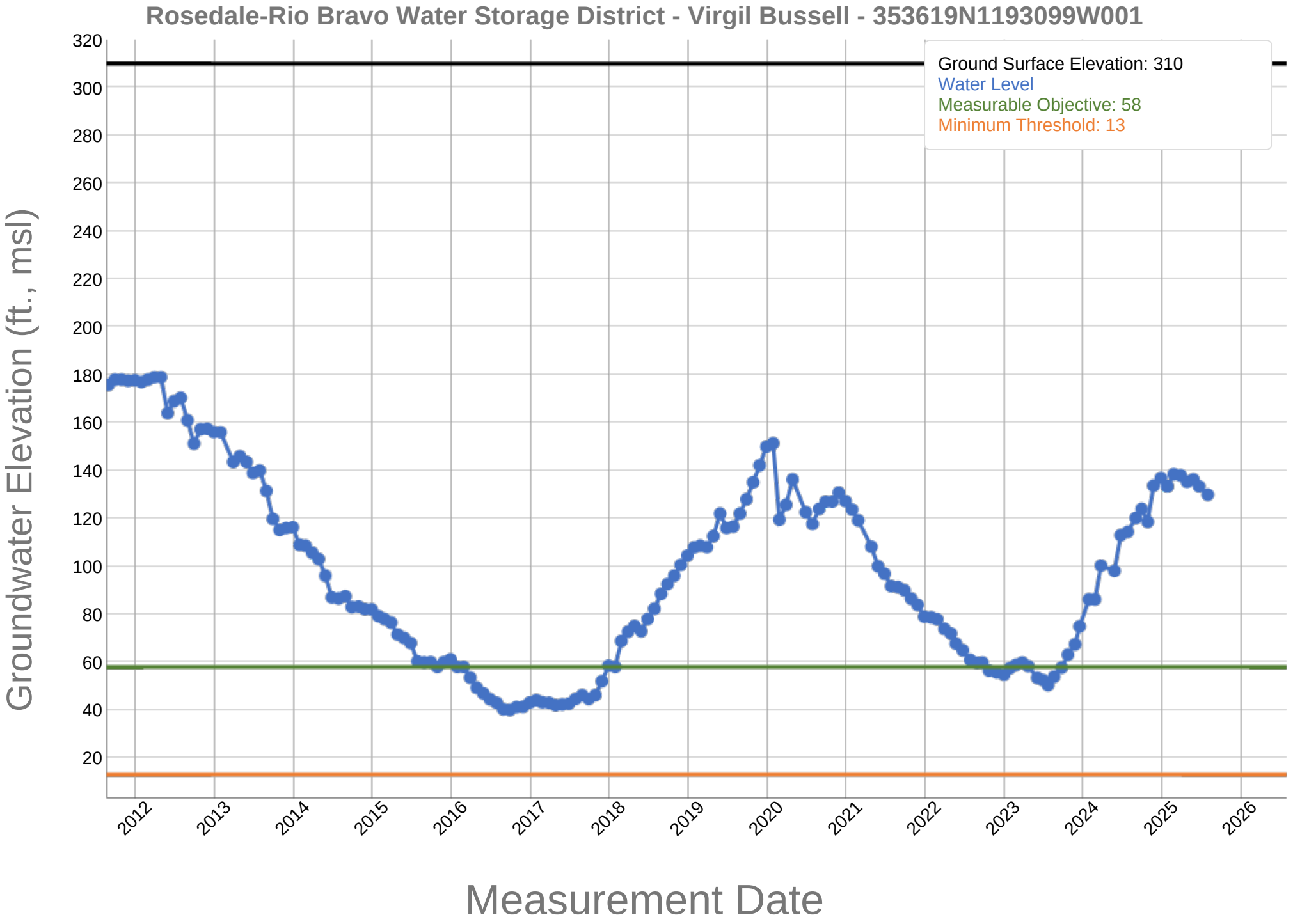
RRBWSD GSA White Lands

RRBWSD GSA Boundary

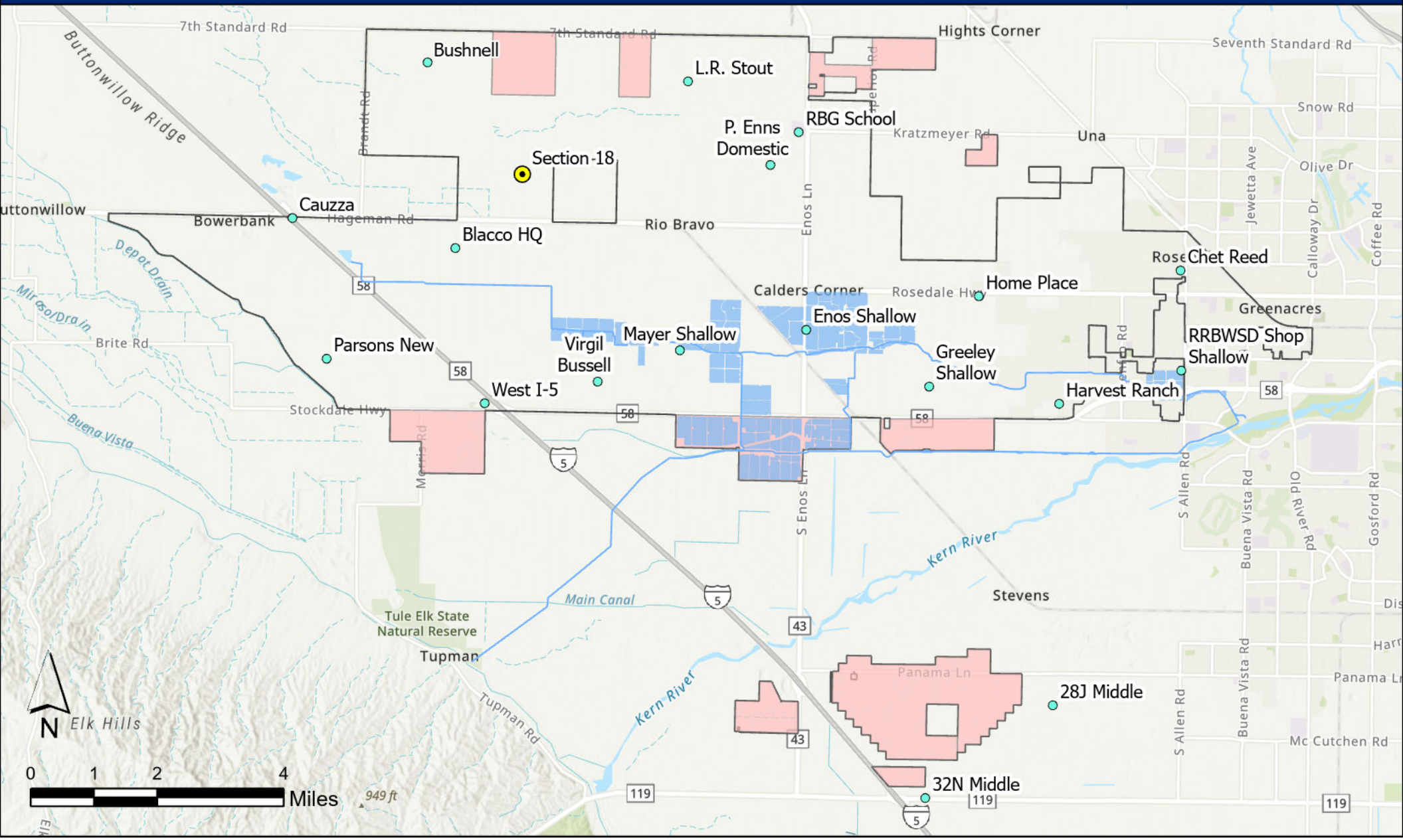
ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT

RRBWSD GSA

ROSEDALE RIO BRAVO WATER STORAGE DISTRICT GROUNDWATER SUSTAINABILITY AGENCY


Rosedale-Rio Bravo Water Storage District - Virgil Bussell - 353619N1193099W001
Ground Surface Elevation: 310
Water Level
Measurable Objective: 58
Minimum Threshold: 13
Groundwater Elevation (ft., msl)
320
300
280
260
240
220
200
180
160
140
120
100
80
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2012
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2023
2024
2025
2026
Measurement Date

Rosedale-Rio Bravo Water Storage District GSA Groundwater Level Monitoring Network
Bakersfield, CA



Water Level Representative Monitoring Wells (RMWs)

Conveyance Facilities

Recharge Ponds

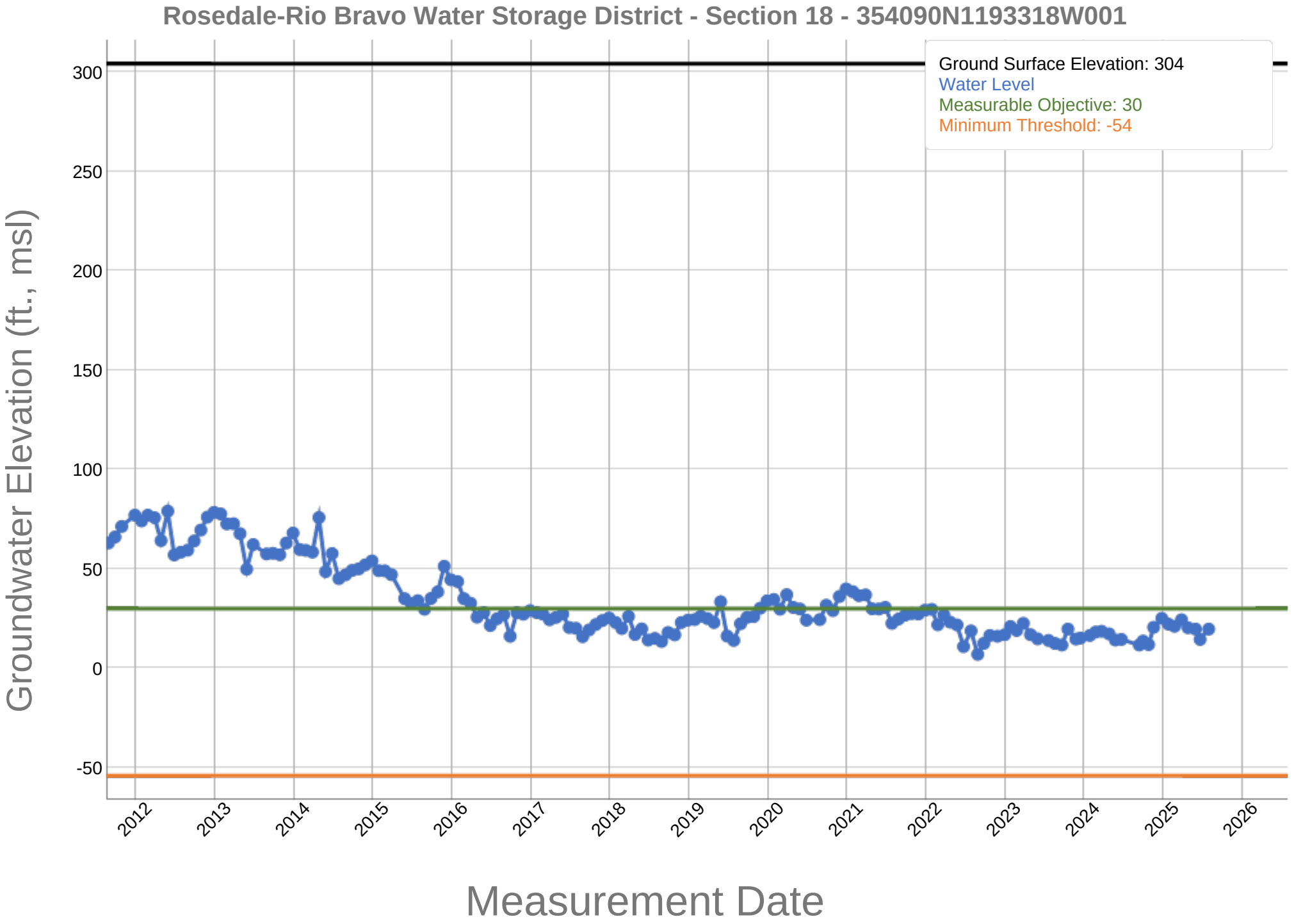
RRBWSD GSA White Lands

RRBWSD GSA Boundary

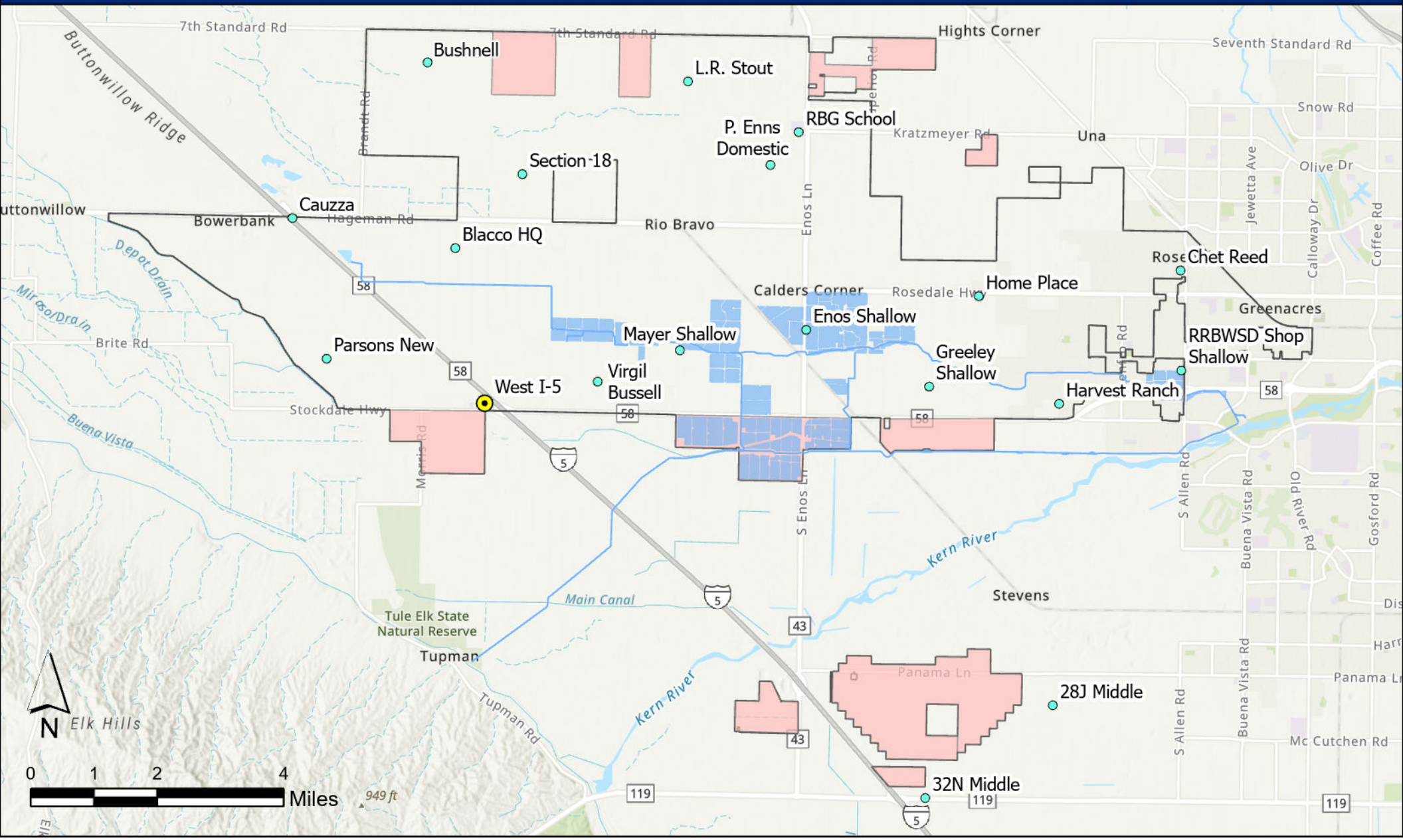
ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT

RRBWSD GSA

ROSEDALE RIO BRAVO WATER STORAGE DISTRICT GROUNDWATER SUSTAINABILITY AGENCY


Rosedale-Rio Bravo Water Storage District - Section 18 - 354090N1193318W001
Ground Surface Elevation: 304
Water Level
Measurable Objective: 30
Minimum Threshold: -54
Groundwater Elevation (ft., msl)
300
250
200
150
100
50
0
-50
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
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2023
2024
2025
2026
Measurement Date

Rosedale-Rio Bravo Water Storage District GSA Groundwater Level Monitoring Network
Bakersfield, CA



Water Level Representative Monitoring Wells (RMWs)

Conveyance Facilities

Recharge Ponds

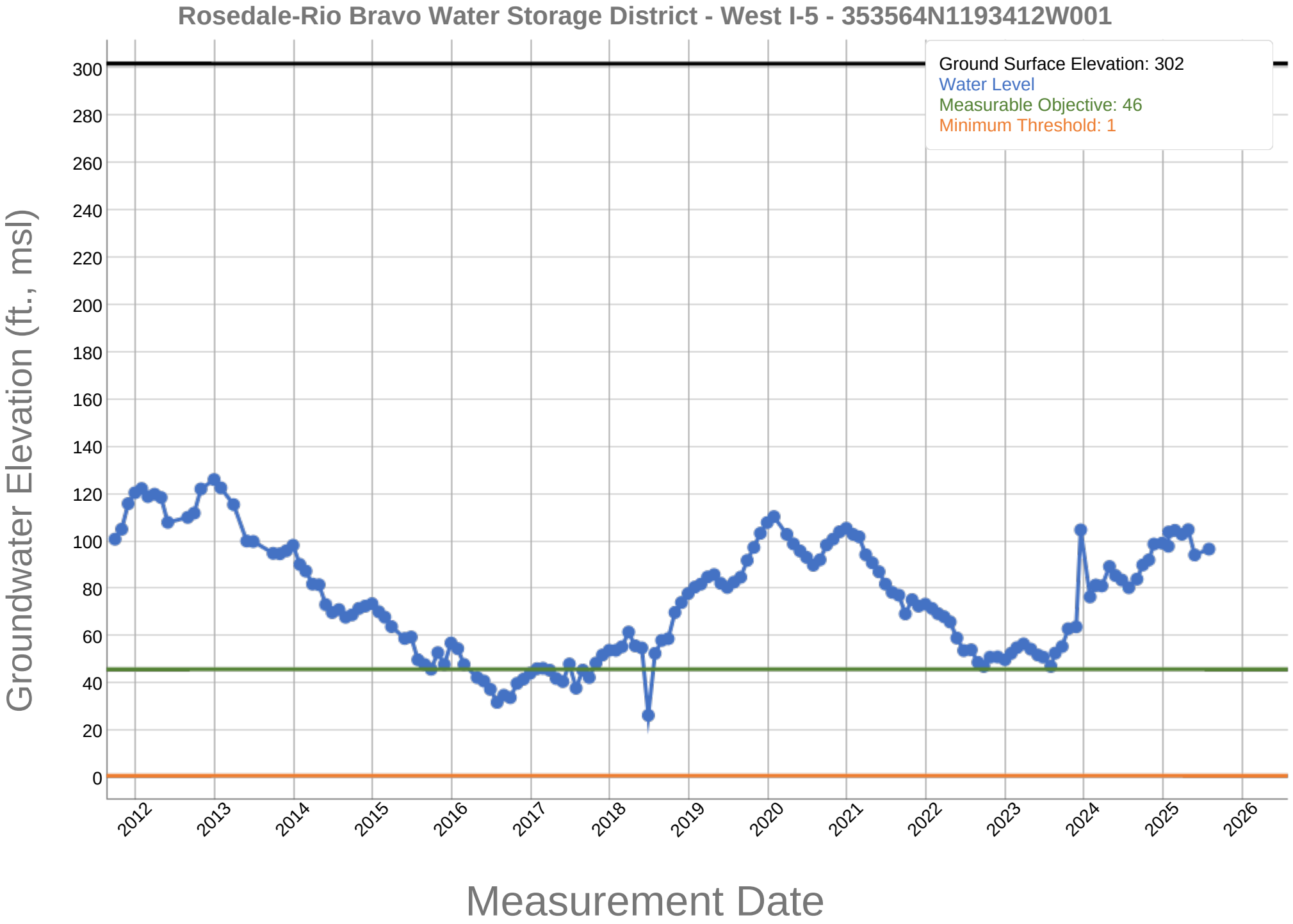
RRBWSD GSA White Lands

RRBWSD GSA Boundary

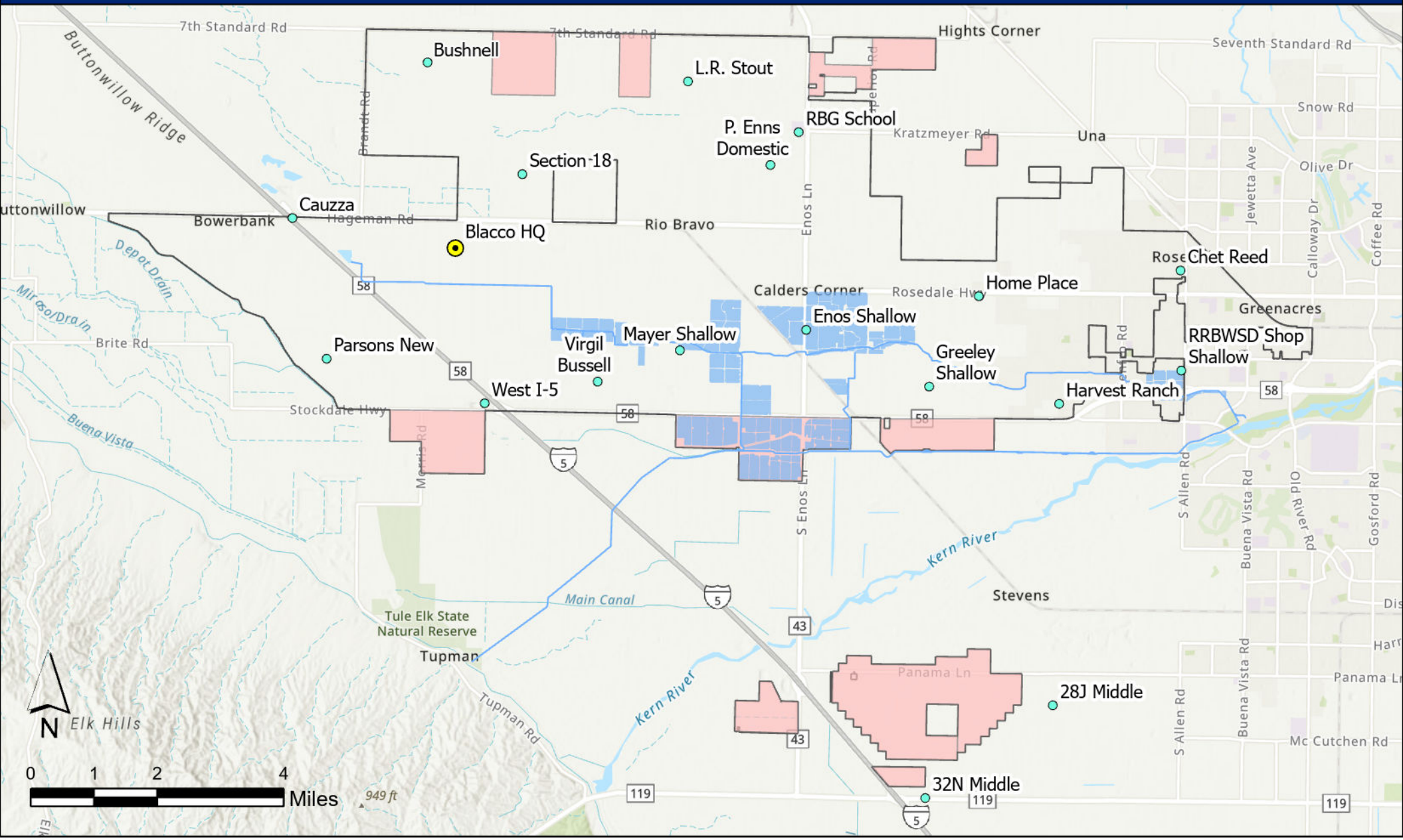
ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT

RRBWSD GSA

ROSEDALE RIO BRAVO WATER STORAGE DISTRICT GROUNDWATER SUSTAINABILITY AGENCY


Rosedale-Rio Bravo Water Storage District - West I-5 - 353564N1193412W001
Ground Surface Elevation: 302
Water Level
Measurable Objective: 46
Minimum Threshold: 1
Groundwater Elevation (ft., msl)
300
280
260
240
220
200
180
160
140
120
100
80
60
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2012
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2022
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2025
2026
Measurement Date

Rosedale-Rio Bravo Water Storage District GSA Groundwater Level Monitoring Network
Bakersfield, CA



Water Level Representative Monitoring Wells (RMWs)

Conveyance Facilities

Recharge Ponds

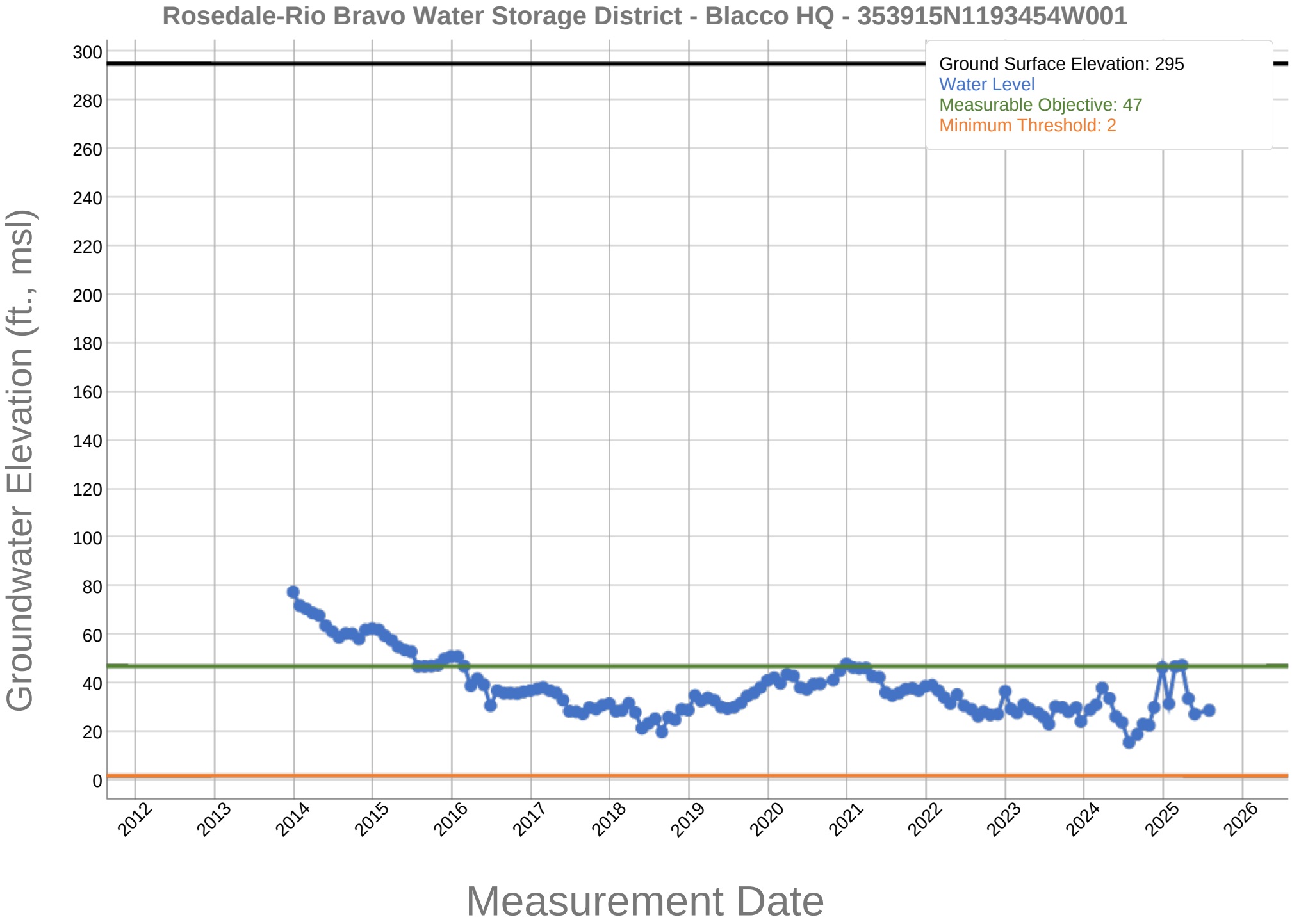
RRBWSD GSA White Lands

RRBWSD GSA Boundary

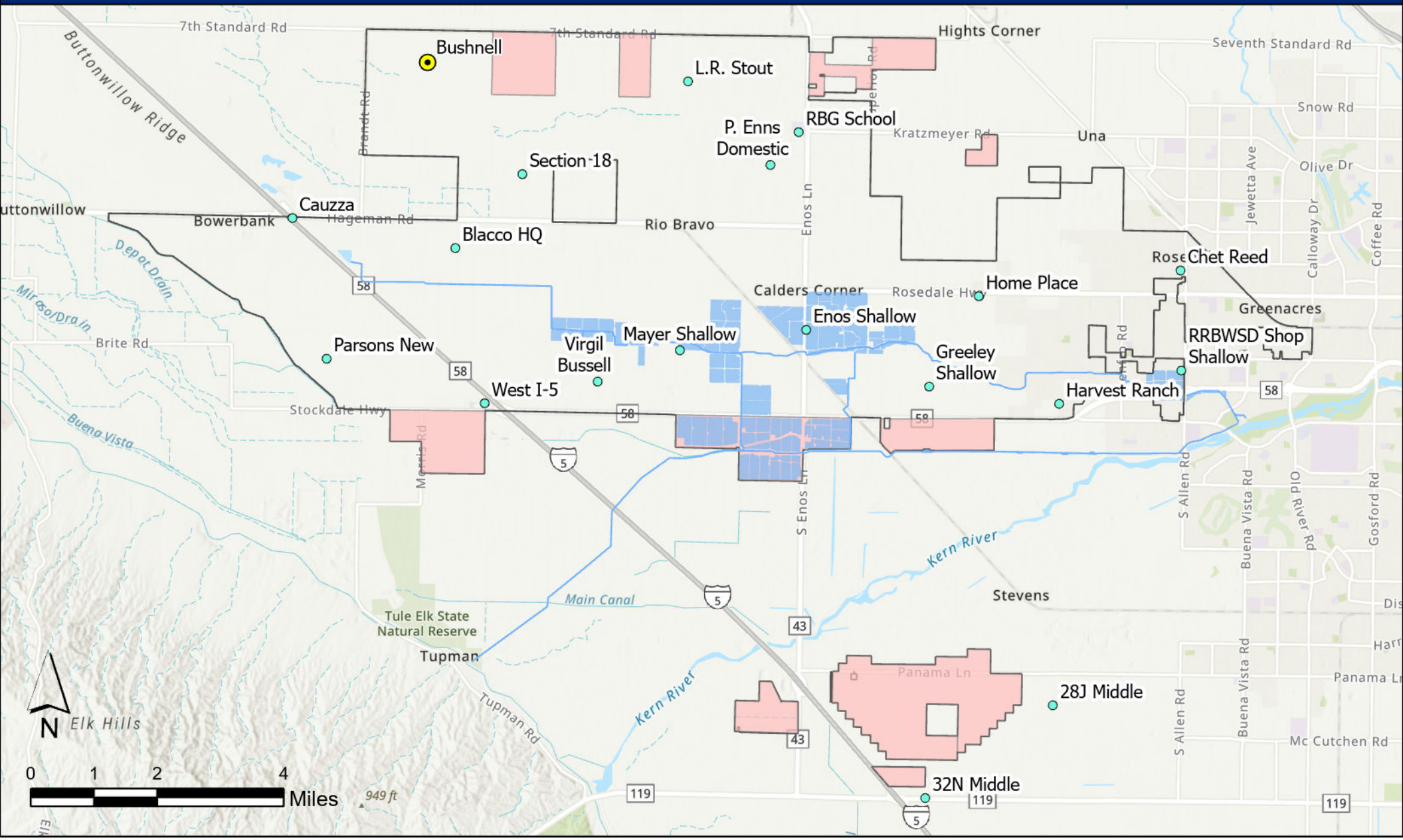
ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT

RRBWSD GSA

ROSEDALE RIO BRAVO WATER STORAGE DISTRICT GROUNDWATER SUSTAINABILITY AGENCY


Rosedale-Rio Bravo Water Storage District - Blacco HQ - 353915N1193454W001
Ground Surface Elevation: 295
Water Level
Measurable Objective: 47
Minimum Threshold: 2
Groundwater Elevation (ft., msl)
300
280
260
240
220
200
180
160
140
120
100
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2012
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2024
2025
2026
Measurement Date

Rosedale-Rio Bravo Water Storage District GSA Groundwater Level Monitoring Network
Bakersfield, CA



Water Level Representative Monitoring Wells (RMWs)

Conveyance Facilities

Recharge Ponds

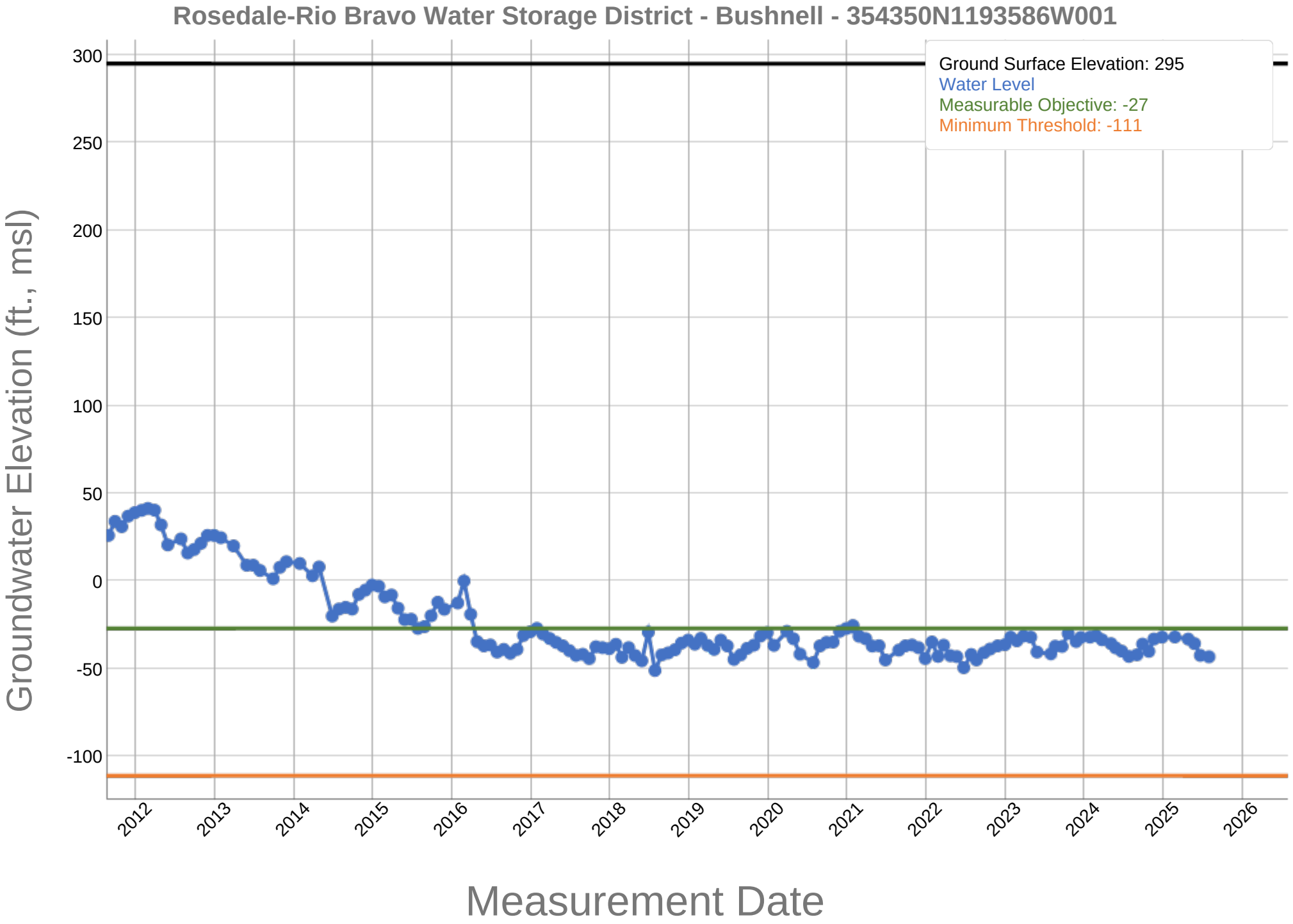
RRBWSD GSA White Lands

RRBWSD GSA Boundary

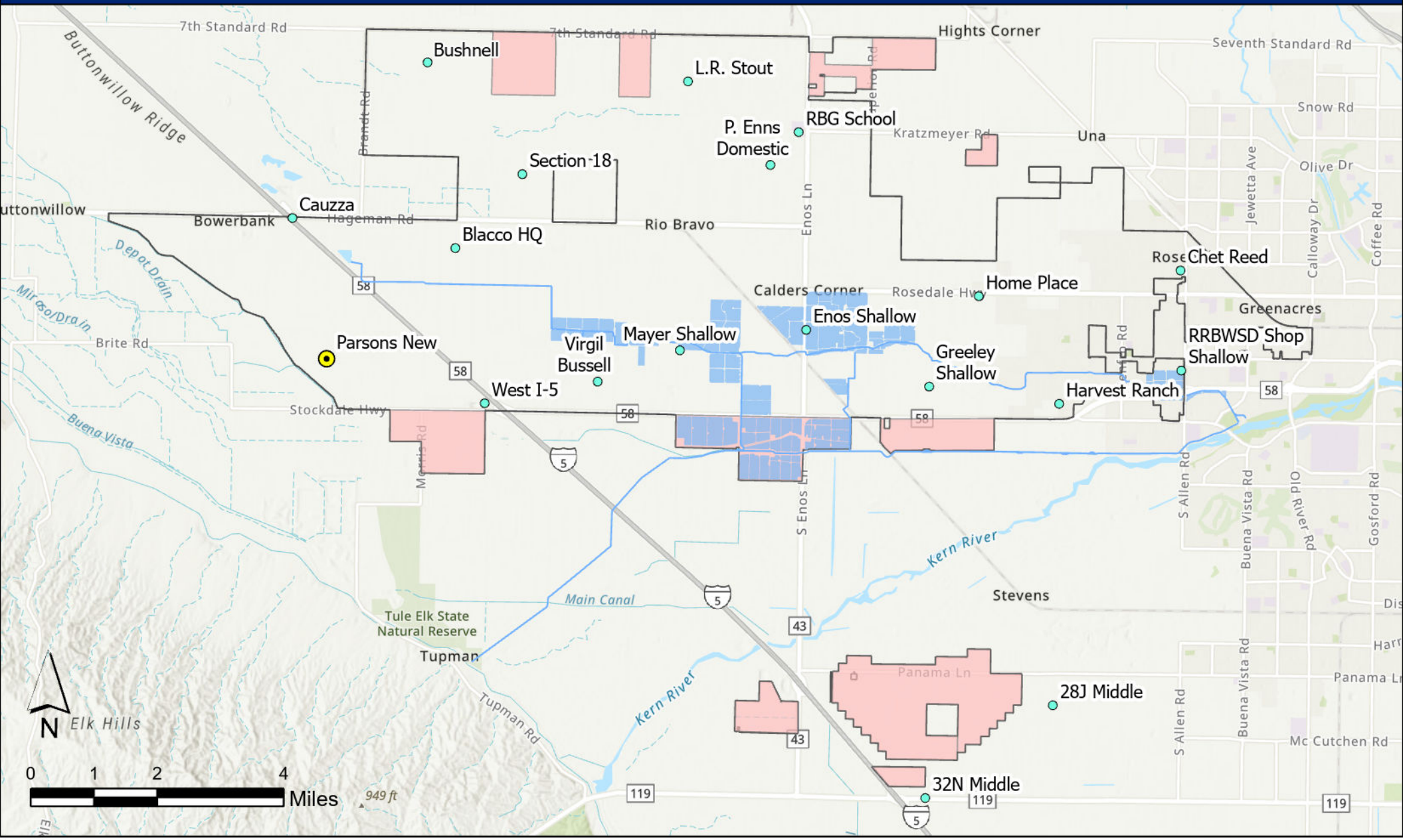
ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT

RRBWSD GSA

ROSEDALE RIO BRAVO WATER STORAGE DISTRICT GROUNDWATER SUSTAINABILITY AGENCY


Rosedale-Rio Bravo Water Storage District - Bushnell - 354350N1193586W001
Ground Surface Elevation: 295
Water Level
Measurable Objective: -27
Minimum Threshold: -111
Groundwater Elevation (ft., msl)
300
250
200
150
100
50
0
-50
-100
2012
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2016
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2026
Measurement Date

Rosedale-Rio Bravo Water Storage District GSA Groundwater Level Monitoring Network
Bakersfield, CA



Water Level Representative Monitoring Wells (RMWs)

Conveyance Facilities

Recharge Ponds

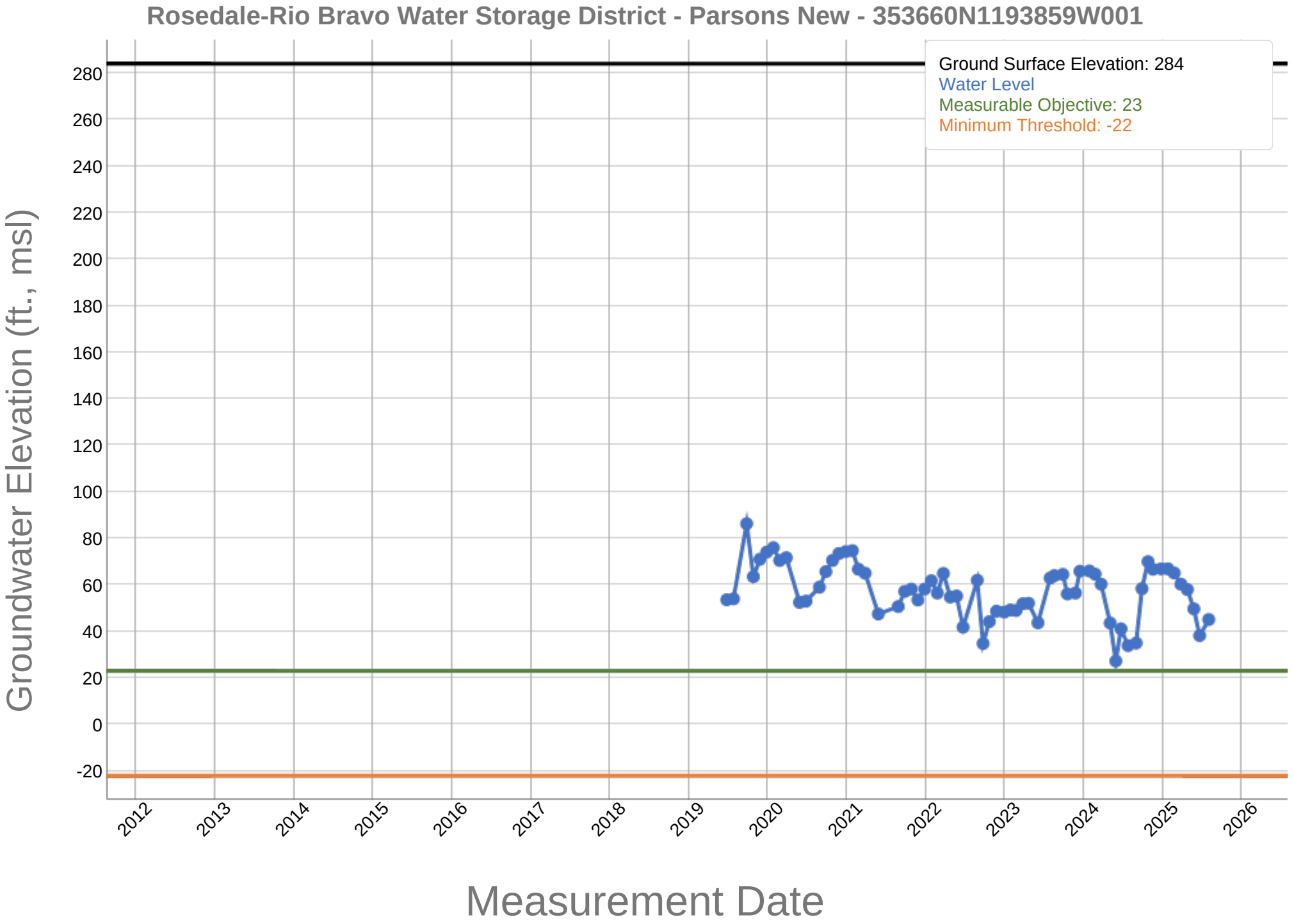
RRBWSD GSA White Lands

RRBWSD GSA Boundary

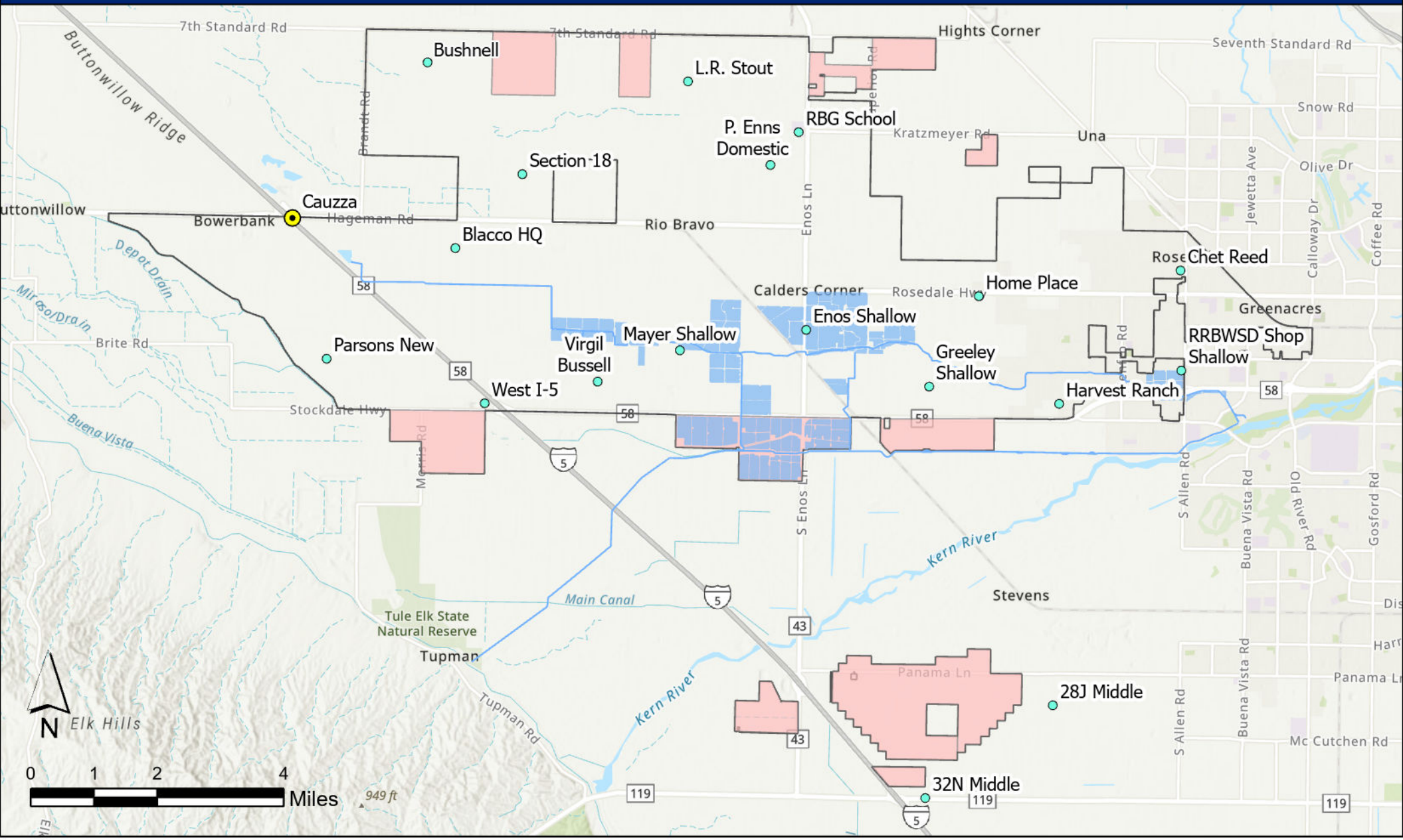
ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT

RRBWSD GSA

ROSEDALE RIO BRAVO WATER STORAGE DISTRICT GROUNDWATER SUSTAINABILITY AGENCY


Rosedale-Rio Bravo Water Storage District - Parsons New - 353660N1193859W001
Ground Surface Elevation: 284
Water Level
Measurable Objective: 23
Minimum Threshold: -22
Groundwater Elevation (ft., msl)
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
-20
2012
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2026
Measurement Date

Rosedale-Rio Bravo Water Storage District GSA Groundwater Level Monitoring Network
Bakersfield, CA



Water Level Representative Monitoring Wells (RMWs)

Conveyance Facilities

Recharge Ponds

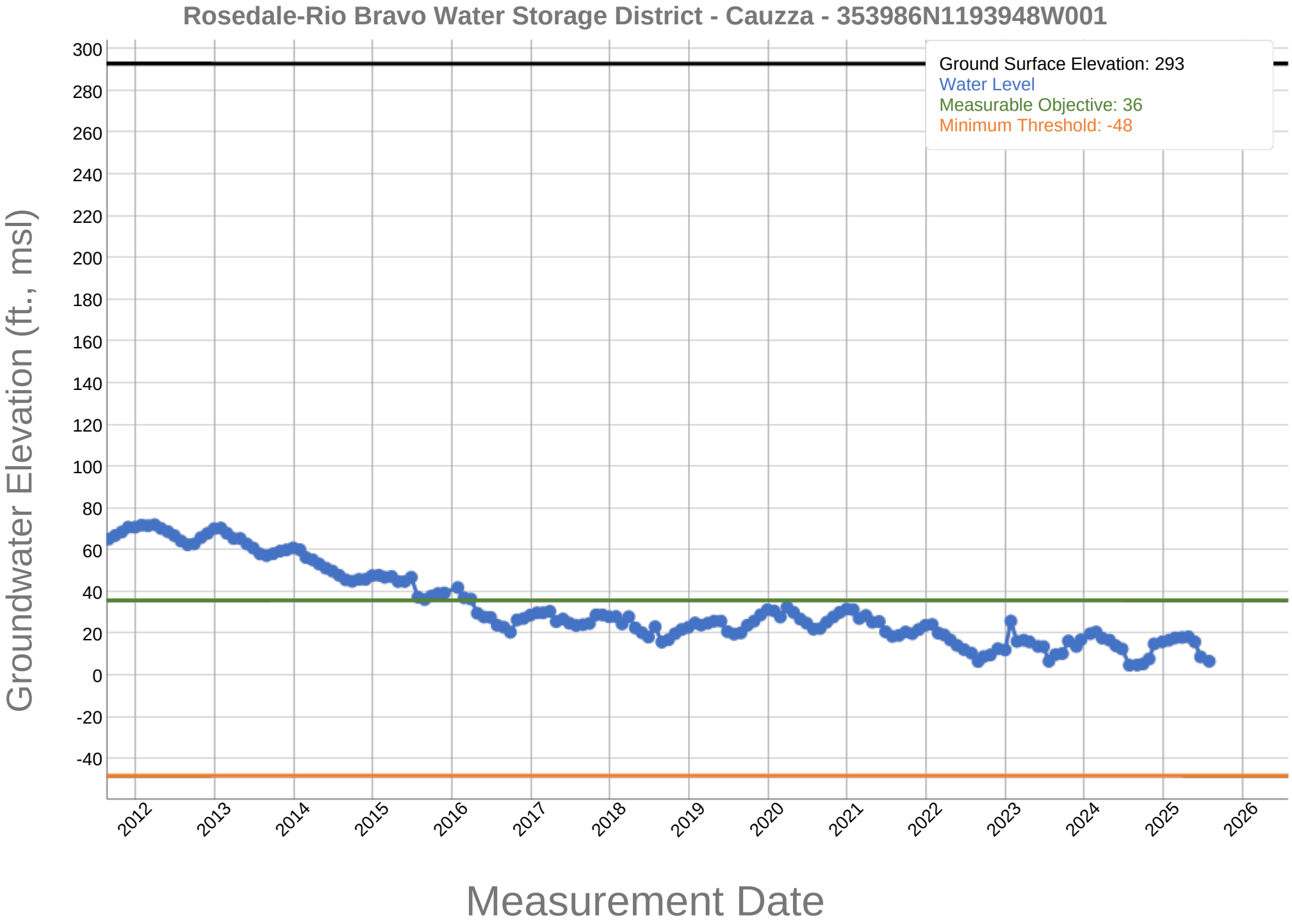
RRBWSD GSA White Lands

RRBWSD GSA Boundary

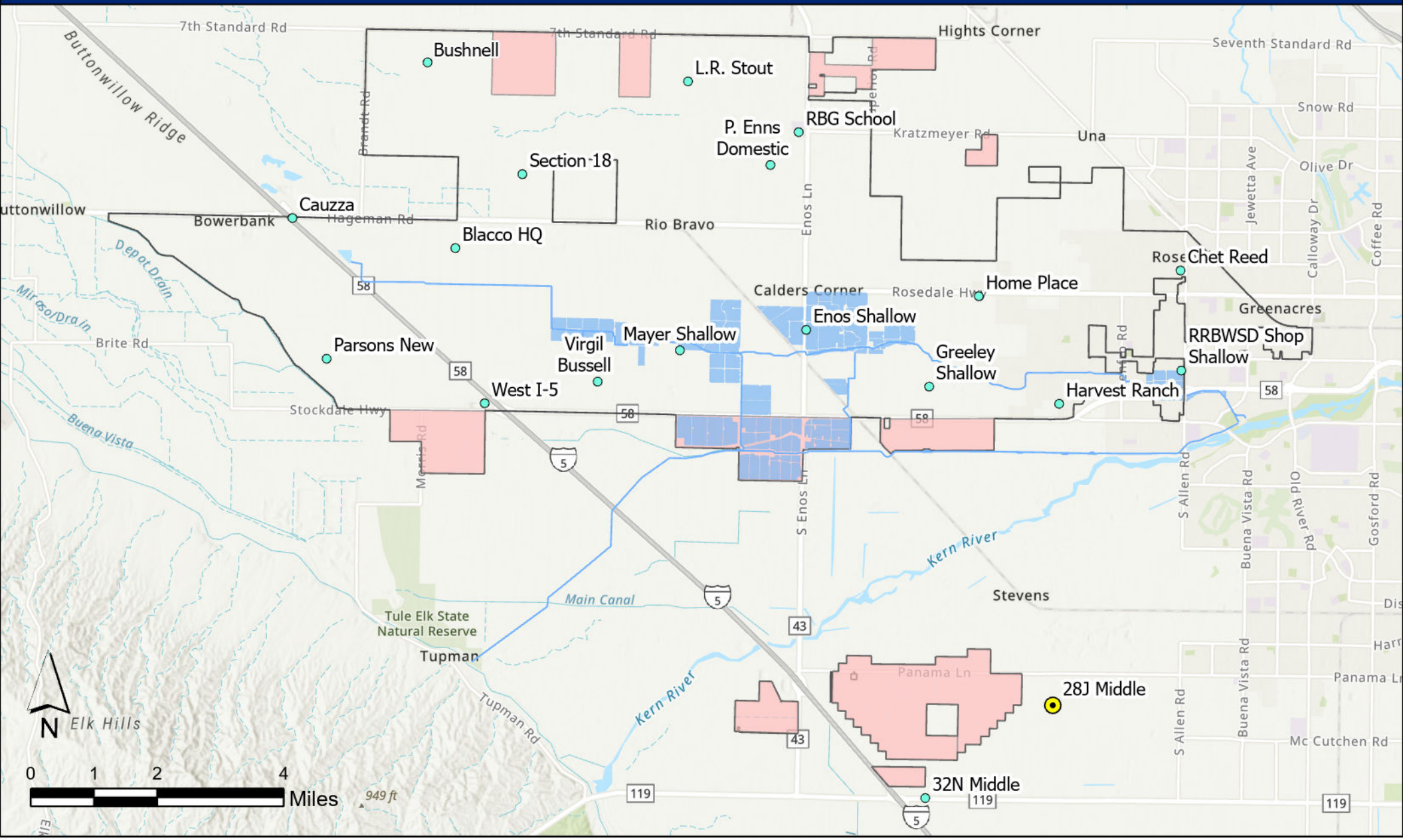
ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT

RRBWSD GSA

ROSEDALE RIO BRAVO WATER STORAGE DISTRICT GROUNDWATER SUSTAINABILITY AGENCY


Rosedale-Rio Bravo Water Storage District - Cauzza - 353986N1193948W001
Ground Surface Elevation: 293
Water Level
Measurable Objective: 36
Minimum Threshold: -48
Groundwater Elevation (ft., msl)
300
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
-20
-40
2012
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2026
Measurement Date

Rosedale-Rio Bravo Water Storage District GSA Groundwater Level Monitoring Network
Bakersfield, CA



Water Level Representative Monitoring Wells (RMWs)

Conveyance Facilities

Recharge Ponds

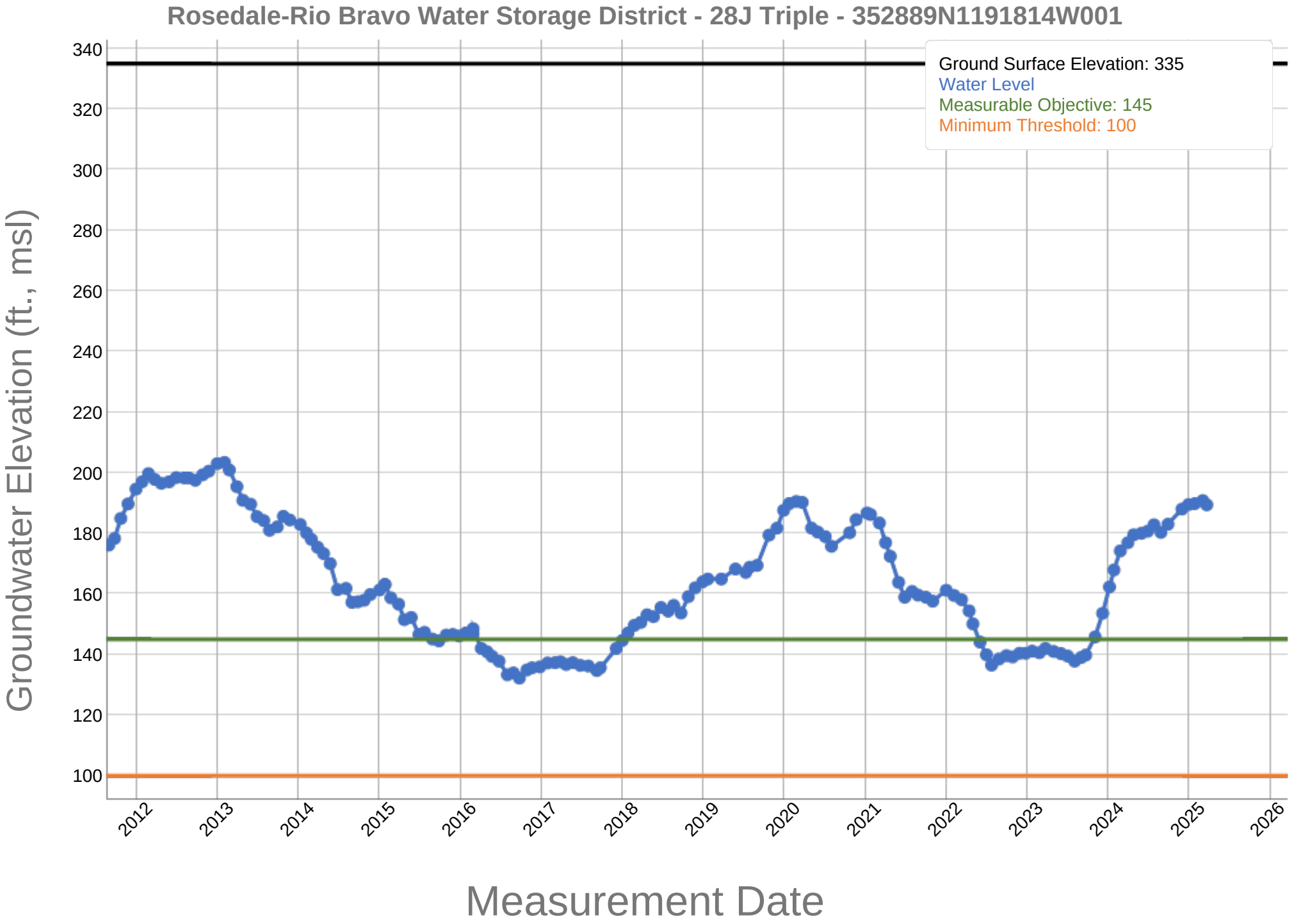
RRBWSD GSA White Lands

RRBWSD GSA Boundary

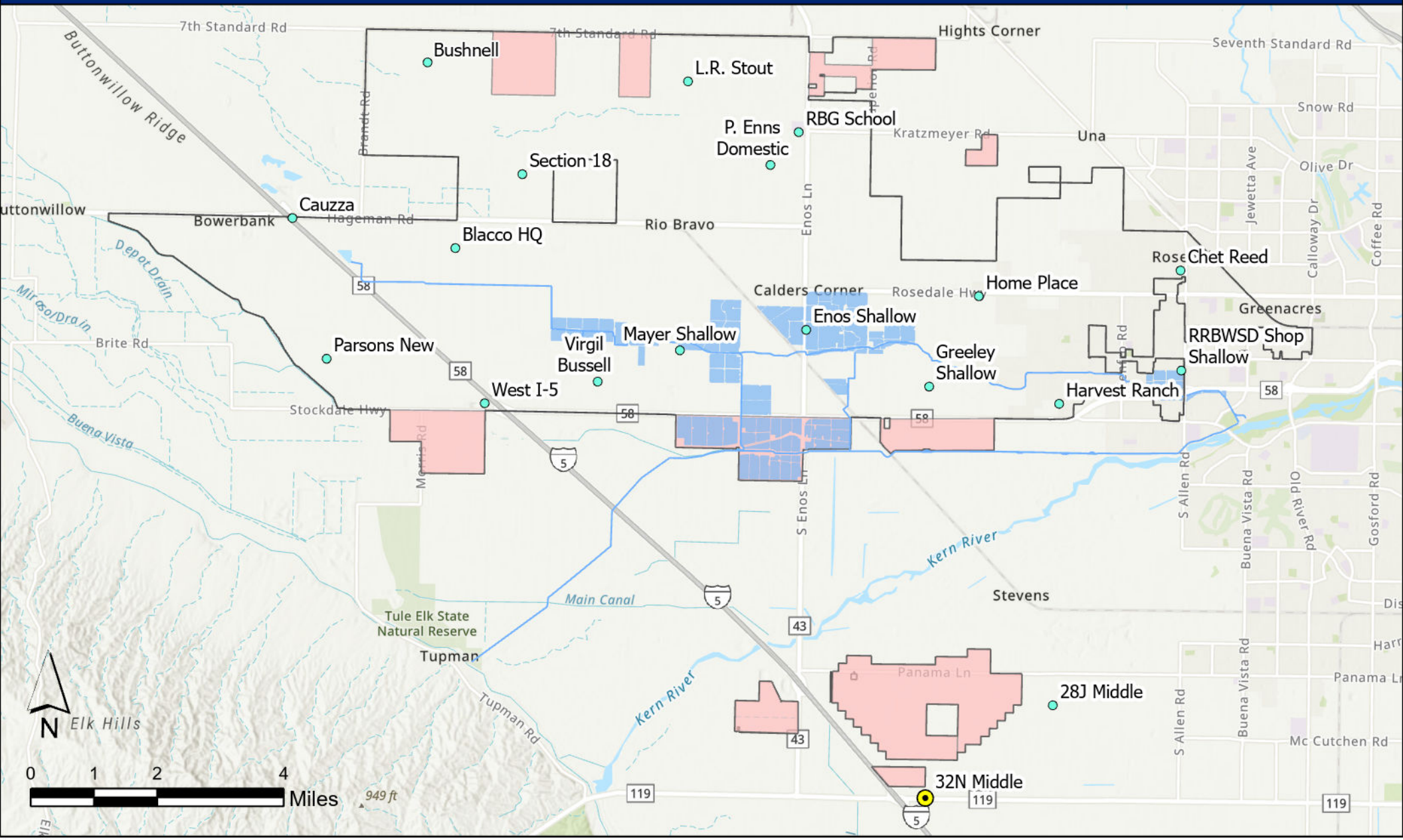
ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT

RRBWSD GSA

ROSEDALE RIO BRAVO WATER STORAGE DISTRICT GROUNDWATER SUSTAINABILITY AGENCY


Rosedale-Rio Bravo Water Storage District - 28J Triple - 352889N1191814W001
Ground Surface Elevation: 335
Water Level
Measurable Objective: 145
Minimum Threshold: 100
Groundwater Elevation (ft., msl)
340
320
300
280
260
240
220
200
180
160
140
120
100
2012
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2026
Measurement Date

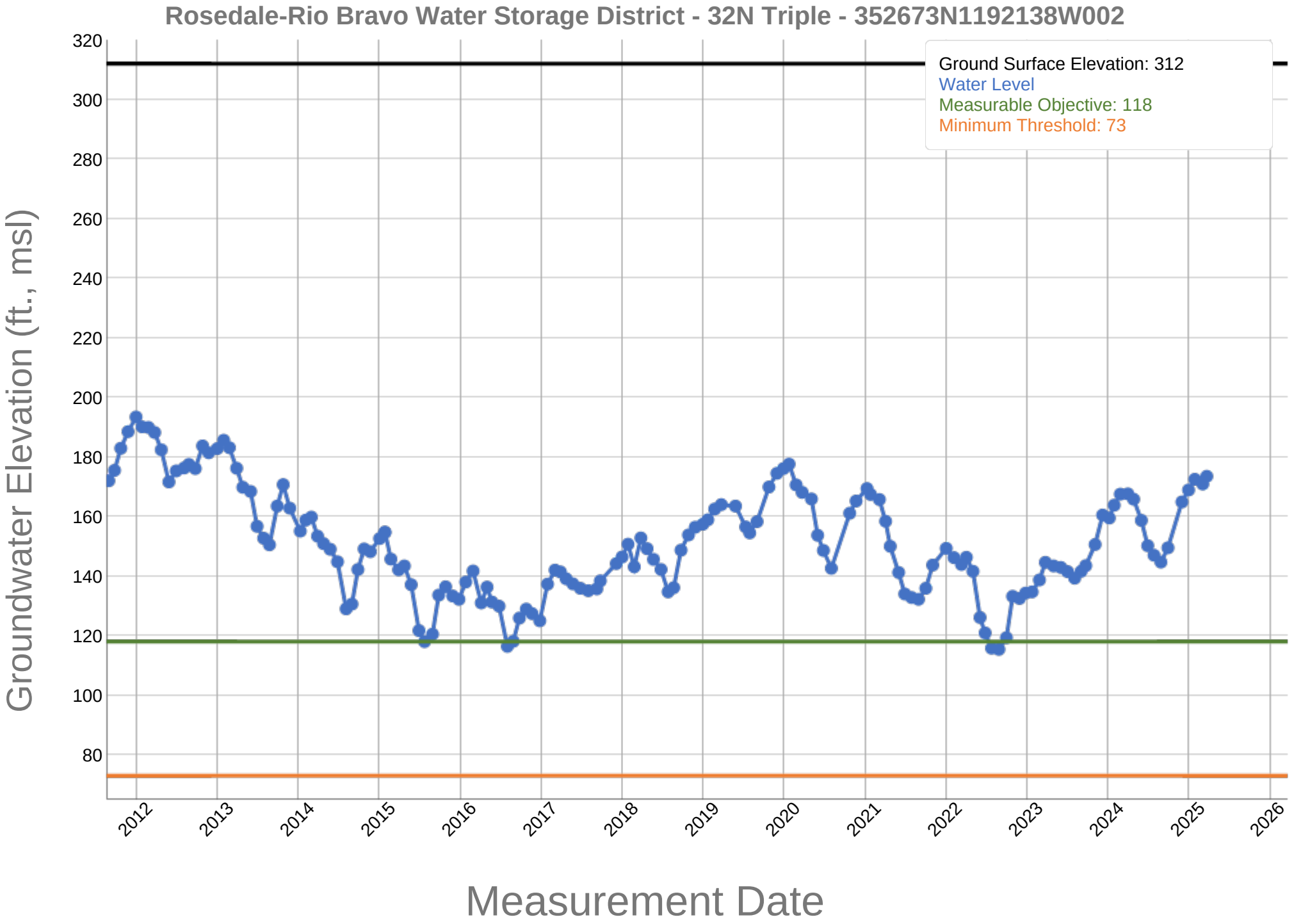
Rosedale-Rio Bravo Water Storage District GSA Groundwater Level Monitoring Network
Bakersfield, CA



- Water Level Representative Monitoring Wells (RMWs)
- Conveyance Facilities
- Recharge Ponds
- RRBWSD GSA White Lands
- RRBWSD GSA Boundary

ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT

RRBWSD GSA
ROSEDALE RIO BRAVO WATER STORAGE DISTRICT GROUNDWATER SUSTAINABILITY AGENCY


Rosedale-Rio Bravo Water Storage District - 32N Triple - 352673N1192138W002
Ground Surface Elevation: 312
Water Level
Measurable Objective: 118
Minimum Threshold: 73
Groundwater Elevation (ft., msl)
320
300
280
260
240
220
200
180
160
140
120
100
80
2012
2013
2014
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2023
2024
2025
2026
Measurement Date

ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT

DRAFT RECHARGE DELIVERIES

2025

Acre-Feet

Delivery Point	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total
Kern River Intake	0	0	0	0	0	0	0	0					0
RRB Turnout No. 2	0	0	0	0	0	0	0	0					0
Central Intake	0	0	0	0	0	0	0	0					0
RRB Turnout No. 1	0	1,444	0	1,424	571	2,430	3,993	4,462					14,324
North Strand	0	395	0	0	0	0	0	0					395
South Strand	0	397	0	0	0	0	0	0					397
Stockdale West	1,978	395	0	0	0	0	0	0					2,373
RRB Westside In-Lieu	0	0	0	0	0	0	0	0					0
Grimmway Pilot	0	0	0	0	0	0	0	0					0
Pioneer Project	0	0	0	0	0	0	0	0					0
In-Lieu to AEWSD	0	0	0	0	0	2,410	3,410	3,600					9,420
TOTALS >	**1,978**	**2,631**	**0**	**1,424**	**571**	**4,840**	**7,403**	**8,062**	**0**	**0**	**0**	**0**	**26,909**

DRAFT - Numbers subject to change.

Notes: In-District deliveries stopped on 8/29/2025.
Will run some supplies at Central Intake starting in mid-September.

TO: Rosedale-Rio Bravo Water Storage District Board of Directors
Agenda Item 4.c

FROM: Zach Smith

DATE: September 9, 2025

RE: Maintenance Report

Discussion:

Staff worked on various maintenance items throughout the District in August. Specifically:

- Spray rig active at Kern River Intake and channel from Renfro to Mayer.
- Skid steer w/mower deck used at East Superior, Goose Lake Channel, and West Enos.
- Tractor with rotary mower used to clean West Basins and McCaslin.
- Backhoe used to clear and clean channel and levee-edges in Strand and Stockdale West.
- Issued one encroachment permit for removal of sand from Wes Selvidge Basins.



East Superior Basins - Before



East Superior Basins – After





Fenceline at West Enos – Before & After

TO: Rosedale-Rio Bravo Water Storage District Board of Directors
Agenda Item 4.d

FROM: Zach Smith

DATE: September 9, 2025

RE: Consideration of Purchase of Pump Shade Cover

Discussion:
The District owns three PumpMaster Portable Pumps. The pumps are stored on an equipment pad located in the West Superior basin area. Staff would like to purchase a shade cover to keep the engines out of the sun.

Staff requested quotes from Americal Awnings (two quotes attached). Americal will furnish all labor, materials, and equipment to construct and install the shade cover.

Recommendation:
Authorize staff to purchase a shade cover for an amount not to exceed $15,000.



AMERICAL

Awnings-Patios-Carports

2122 Q Street BAKERSFIELD, CALIFORNIA 93301
Phone (661) 328-1292 Fax (661) 328-1297 Contractors Lic. # 747812
WWW.AmericalAwning.com

PROPOSAL SUBMITTED TO	PHONE	DATE
Zach Smith **Rosedale-Rio Bravo Water Storage District**	**661 333 1616**	**09-03-2025**
ADDRESS	Job Description	
Brimhall & Superior	**Custom Aluminum/Steel Cover**	
City, State, Zip	Job Location	
Bakersfield, Ca **Gate Code**	**Same**	

We Propose to Furnish All Labor, Materials and Equipment to Construct and Install the following:

Freestanding Cover

14’ Projection x 32’ Wide Solid Top Design
3”x 8” Steel 12ga Beams
Standard Posts (8) with Footings
Trim at All Sides
1 Panel at East, 1 Panel at South, Enclosed at West
Choice of Standard Colors

$14,260

Excludes: Building Permit for City/County

25% Installment to Start Project



It is understood that awnings and sun shades, and even though they may cover screen enclosures, accessory buildings and cabinets they are not intended as waterproof structures, (Title 25, California Administrative Code) This includes pre-fab room enclosures under awnings. Contractors are required by law to be licensed and regulated by the Contractor’s State License Board, Any questions concerning a contractor may be referred to the registrar of the board whose address is:
Mailing Address: P.O. Box 26000, Sacramento, CA 95826

Authorized Signature **Joe Peters**

All material is guaranteed to be as specified. All work to be completed in workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance.

Note: This proposal may be withdrawn by us if not accepted within **30** **days.**

Acceptance of Proposal ---

The above prices, specifications and conditions are satisfactory and are hereby accepted, You are authorized to do the work as specified, Payment will be made as outlined above.

Signature _____

Date of Acceptance: _____ **Signature** _____

AMERICAL

Awnings-Patios-Carports

2122 Q Street BAKERSFIELD, CALIFORNIA 93301
Phone (661) 328-1292 Fax (661) 328-1297 Contractors Lic. # 747812
WWW.AmericalAwning.com

PROPOSAL SUBMITTED TO	PHONE	DATE
Zach Smith **Rosedale-Rio Bravo Water Storage District**	**661 333 1616**	**09-04-2025**

ADDRESS	Job Description
Brimhall & Superior	**Steel Carport Cover**

City ,State ,Zip	Gate Code	Job Location
Bakersfield ,Ca		**Same**

We Propose to Furnish All Labor, Materials and Equipment to Construct and Install the following:

Steel RV Cover (Heavy Duty 14ga)

30’ Wide x 15’ Length x 9’ Posts
One Side Partial Enclosed
One Side Fully Enclosed
One Gable End
Includes All Bracing
Installed On Level Site
Choice of Standard Colors

$12,730

Excludes: Permit & Engineering

25% Installment to start Project



It is understood that awnings and sun shades, and even though they may cover screen enclosures, accessory buildings and cabinets they are not intended as waterproof structures, (Title 25, California Administrative Code) This includes pre-fab room enclosures under awnings. Contractors are required by law to be licensed and regulated by the Contractor’s State License Board, Any questions concerning a contractor may be referred to the registrar of the board whose address is:
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The above prices, specifications and conditions are satisfactory and are hereby accepted, You are authorized to do the work as specified, Payment will be made as outlined above.

Signature _____

Date of Acceptance: _____

Signature _____

AECOM

ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT

DRAFT

Rosedale-Rio Bravo Water Storage District
2024 Operations Report

Prepared by:

AECOM

Monique Y. Roberts, PE
Project Manager

60599866

September 2025

5001 E. Commercenter Dr., Suite 100, Bakersfield, CA 93309

Table of Contents

SECTION 1 - INTRODUCTION 1

SECTION 2 – DISTRICT BACKGROUND AND FACILITIES 2

SECTION 3 – CONJUNCTIVE USE PROJECT OPERATIONS FOR CALENDAR YEAR 2024 10

SECTION 4 – GROUNDWATER LEVELS 13

SECTION 5 – GROUNDWATER QUALITY 17

SECTION 6 – STATUS OF DISTRICT GROUNDWATER BALANCE AND BANKING PROGRAMS 19

SECTION 7 – SUMMARY OF ACTIONS REGARDING DISTRICT BASIN MANAGEMENT OBJECTIVES 24

SECTION 8 – SUMMARY OF RRBWSD BANKING PROGRAM CEQA DOCUMENTS 30

SECTION 9 – REFERENCES 34

FIGURES:

1 - Vicinity Map 3

2 - District Boundary and Facilities 4

3 – End of Year Water Banking Account Balances 12

4 - Existing Depth to Groundwater Monitoring Well Locations 14

5 - Estimated Average Depth to Groundwater in Wells 1952-2025 16

6 - Location of Wells Monitored for Groundwater Quality 18

7 - RRBWSD Annual Water Balances 1995-2024 21

8 - RRBWSD Cumulative Change in Groundwater Storage 1995-2024 22

9 -Surface Water Deliveries vs. Average Depth to Groundwater in Wells 1962-2024 23

APPENDICES:

Appendix 1 – Groundwater Level Hydrographs

Appendix 2 – Groundwater Model 2024 Update

Appendix 3 – Groundwater Quality Data

Appendix 4 – RRBWSD Groundwater Program Operations 1995-2024

Appendix 5 – SGMA Timeline and RRBMA Implementation Progress for Water Year 2024

SECTION 1 - INTRODUCTION

In February 2013, the Rosedale-Rio Bravo Water Storage District (RRBWSD or District) adopted an update to its Groundwater Management Plan in order to be consistent with California Water Code (CWC), Division 6, Part 2.75, Sections 10750 et seq. as amended by California Senate Bill 1938 (SB 1938). The District's Groundwater Management Plan outlines the contents of planned annual operations reports.

The Sustainable Groundwater Management Act (SGMA) was signed by the Governor on September 16, 2014 and includes requirements for the formation of local groundwater sustainability agencies (GSAs) to assess local groundwater conditions. The District is a member of the Kern Groundwater Authority GSA, which submitted a Groundwater Sustainability Plan (GSP) for review by the California Department of Water Resources (DWR) in January 2020. The KGA GSP received an Incomplete Determination from the DWR in January 2022. Revisions to the KGA GSP were submitted to the DWR in July 2022. The DWR responded with a subsequent Inadequate Status determination in March 2023.

On August 9, 2023, the District provided a Notice of Intent to Prepare a Groundwater Sustainability Plan for lands within its boundaries covering a portion of the Kern County Subbasin and formed the Rosedale-Rio Bravo Water Storage District GSA. As a part its implementation of the GSP, the District prepared a 2024 Annual Report for the RRBWSD GSA. An Amended Final Version Groundwater Sustainability Plan for the Kern County Subbasin Groundwater Sustainability Agencies was prepared in August 2025 and "outlines a coordinated, science-based approach to address DWR Deficiencies and SWRCB Potential Actions to Correct the Deficiencies to ensure the sustainability of groundwater resources for all beneficial uses and users".

This 2024 Operations Report has been prepared in accordance with the outline from its Groundwater Management Plan to summarize the District's operations for calendar year 2024. Included in this report are:

- 2024 water supplies, demands, and groundwater recharge project operations,
- Discussion of current groundwater levels and historical trends,
- Discussion of current groundwater quality and historical trends,
- Status of District's groundwater balance,
- Status of District's groundwater banking programs, and
- Summary of actions regarding Basin Management Objectives and SGMA implementation.

SECTION 2 – DISTRICT BACKGROUND AND FACILITIES

The District is located west of Bakersfield in Kern County (**Figure 1**) and contains approximately 43,000 acres of agricultural, urbanized, and undeveloped land. The District was formed in 1959 for the purpose of obtaining surface water supplies and constructing and operating a groundwater recharge project to offset declining groundwater levels. At the time of the District's formation, groundwater levels were declining at a rate of about nine feet per year.

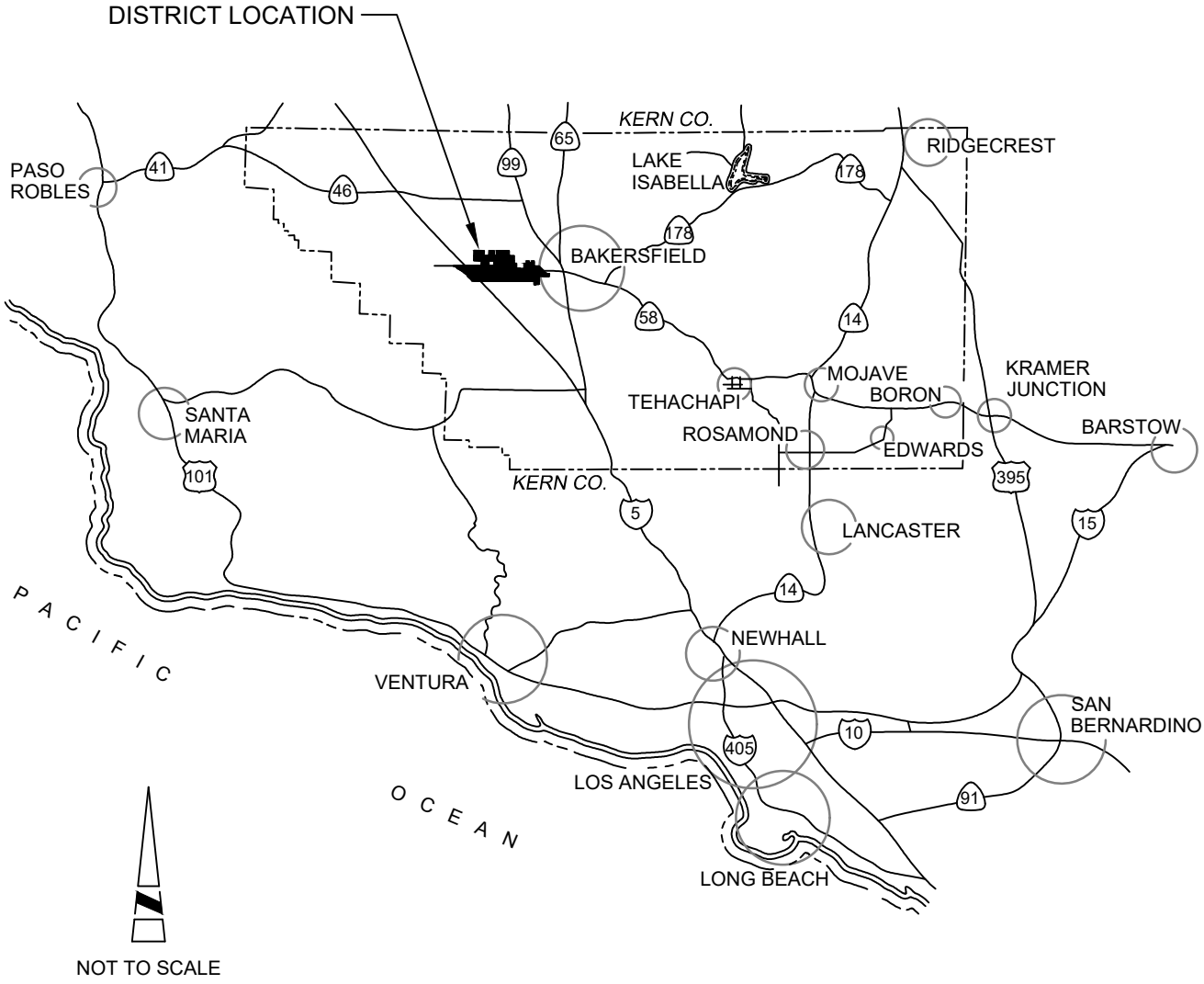
The District entered into long term contracts for delivery of surface water supplies from the Kern River and the State Water Project (SWP), as well as short term contracts for water from the Friant-Kern Canal (part of the United States Bureau of Reclamation Central Valley Project). Additional surface water supplies have been delivered to the District as a result of exchanges, groundwater banking programs, and other water purchases. The District entered into these water management programs in order to increase supplies, provide infrastructure, and offset operational and water purchase costs. From 1962 through 2024, the District has taken delivery of approximately 4.5 million acre-feet of imported surface water supplies.

The present developed area within the District is estimated to be 36,800 acres, with about 28,500 acres utilized for irrigated agriculture and about 8,300 acres dedicated to urban and industrial uses. Urban development is primarily located in the eastern end of the District and is expected to increase in the future as the City of Bakersfield expands to the west. There are approximately 1,500 acres of land in the central and western portions of the District that have never been developed, primarily due to the saline-alkali nature of the soils which limits the crops that could be produced.

The District's current boundary and recharge project facilities are shown on **Figure 2**. The District's groundwater recharge project was developed to take advantage of the Goose Lake channel, which traversed the District from east to west. Since the formation of the District, the channel has been modified for use as a water conveyance and groundwater recharge canal. The District participated in the initial construction and expansion of the Cross Valley Canal (CVC), and has constructed a network of groundwater recharge basins and channels as a part of its project that as of the end of 2024 covers approximately 2,587 net wetted acres.

In addition to groundwater recharge basins and channels, the District's facilities include recovery wells and pipelines for return of water as a part of its groundwater banking programs. The District also has the right to use groundwater recharge and recovery facilities in groundwater banking projects located to the south of the District as a part of agreements with the City of Bakersfield, Kern Water Bank, and the Kern County Water Agency (KCWA).

The District has partnered with the Irvine Ranch Water District (IRWD) in the development of the Stockdale Integrated Banking Project located along the south boundary of the District, which includes the District owned Stockdale East recharge and recovery area and the IRWD owned Strand Ranch and Stockdale West banking areas. The District is further partnering with IRWD through the Groundwater Banking Joint Powers Authority to implement the Kern Fan Groundwater Project Phase I which includes the West Enos and Stockdale North recharge basins constructed in 2024.



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2024 DISTRICT OPERATIONS REPORT
VICINITY MAP
ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT
Project No.: 60599866

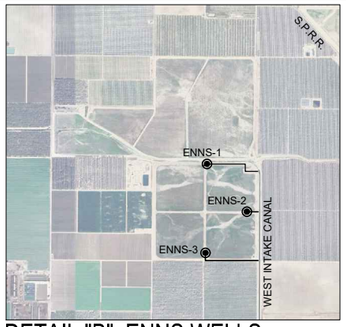
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FIGURE 1



DETAIL "A" WEST BASIN WELLS

SCALE: 1" = 2000'



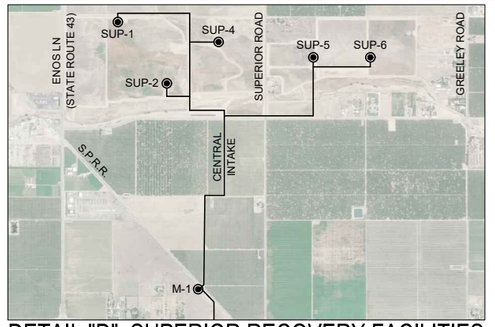
DETAIL "B" ENNS WELLS

SCALE: 1" = 2000'



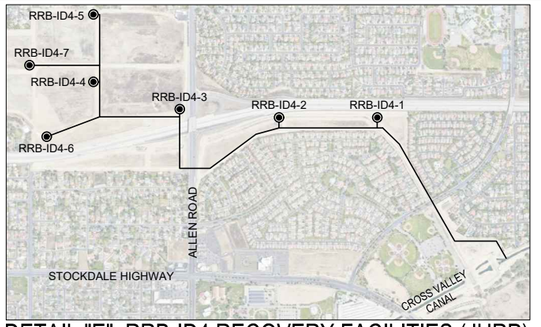
DETAIL "C" STOCKDALE EAST WELLS

SCALE: 1" = 1600'



DETAIL "D" SUPERIOR RECOVERY FACILITIES

SCALE: 1" = 2000'



DETAIL "E" RRB-ID4 RECOVERY FACILITIES (JURP)

SCALE: 1" = 2000'

T. 28 S.
T. 29 S.
T. 29 S.
T. 30 S.

SEVENTH STANDARD ROAD
SNOW ROAD
SULLIVAN ROAD
ROSEDALE HIGHWAY (HWY. 58)
STOCKDALE HIGHWAY
KRATZMEYER ROAD
OLIVE DRIVE
HAGEMAN ROAD
PALM AVE.
BRIMHALL ROAD
GOOSE LAKE SLOUGH
PANAMA LANE

ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT BOUNDARY

SANTA FE RAILROAD
SOUTHERN PACIFIC RAILROAD
INTERSTATE 5
KERN RIVER
KERN RIVER CANAL
OLD MAIN CANAL
CROSS VALLEY CANAL
OUTLET CANAL
KERN RIVER FLOOD BYPASS CHANNEL
CALLOWAY CANAL
BEARDSLEY CANAL
CARRIER CANAL
STINE CANAL
EAST SIDE CANAL
BUENA VISTA CANAL
GOSFORD CANAL
FRIANT – KERN CANAL
ARVIN – EDISON W.S.D. CANAL
B.V.W.S.D.
K.D.W.D.

Ravg=109cfs
0.6ft/day

Ravg=198cfs
0.6ft/day

Ravg=90cfs
1.2ft/day

WEST BASINS
SEE DETAIL "A"

ENNS BASINS
SEE DETAIL "B"

WEST ENOS BASINS
Ravg=54cfs

SUPERIOR BASINS
SEE DETAIL "D"

STOCKDALE
NORTH BASINS
Ravg=19cfs

Ravg=75cfs
0.5ft/day

WEST INTAKE
Qcap=120cfs

CENTRAL INTAKE Qcap=208cfs

GRIMMWAY
MULTIPURPOSE
RECHARGE PONDS

ALLEN ROAD BASINS
SEE DETAIL "E"

STOCKDALE WEST (IRWD)
Ravg=20cfs
0.2ft/day

CVC RETURN PIPELINE
Qcap=70cfs

CVC PUMP
STATION No. 2

CVC PUMP STATION No. 1

Qcap=96cfs
(RRBWSD)

STRAND RANCH (IRWD)
Ravg=41cfs
0.2ft/day

CROSS VALLEY CANAL

STOCKDALE
EAST BASINS
SEE DETAIL "C"

STOCKDALE EAST
Ravg=45cfs

CVC PUMP
STATION No. 3

CVC PUMP
STATION No. 4

Qcap=66cfs
(RRBWSD)

PIONEER
PROJECT
Ravg=50cfs

RRBWSD
HEADWORKS
Qcap=600cfs

RRBWSD EAST
CVC TURNOUT No. 2
Qcap=180cfs

CVC PUMP
STATIO No. 6

CVC PUMP STATION No. 5

Qcap=6cfs
(RRBWSD)

RIVER CANAL WEIR

4000 2000 0 4000 8000
SCALE IN FEET

LEGEND

- RECHARGE BASINS
- OTHER FACILITIES AVAILABLE TO DISTRICT
- Ravg* ESTIMATED AVERAGE RECHARGE CAPACITY
- Qcap* CAPACITY OF DISTRICT TRANSPORTATION FACILITIES
- ◉ RECOVERY WELLS
- FUTURE RECHARGE AREAS
- TEMPORARY PILOT RECHARGE AREAS
- Ravg* ESTIMATED FUTURE RECHARGE CAPACITY
- Qcap* ESTIMATED FUTURE CONVEYANCE CAPACITY
- * DOES NOT INCLUDE IN-LIEU RECHARGE CAPACITY

R. 24 E.
R. 25 E.
R. 25 E.
R. 26 E.
R. 26 E.
R. 27 E.

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FIGURE 2

2024 DISTRICT OPERATIONS REPORT
DISTRICT BOUNDARY AND FACILITIES
ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT
Project No.: 60599866

The District's recharge facility characteristics and status at the end of 2024 are presented in **Table 1**. In **Table 1**, *Flow* represents the long-term recharge rate of the facility while *Fill Rate* represents the initial recharge rate after a dry period. These facility recharge rates were developed based on the District's recharge operations during 2017 and 2023.

Table 1
RRBWSD 2024 Recharge Facility Status and Characteristics

Basin Area	SCS Soil Map Units	Drainage Class	Infiltration (ft/day)	Flow (cfs)*	Fill Rate (cfs)	Wetted Area (acres)
Stockdale West	177, 244	Well	0.2	20	30	225
Strand	174, 243, 244	Well	0.2	40	60	449
Stockdale North	244, 245	Moderate, Well	0.3	19	29	125
Stockdale East	152, 243, 245	Moderate, Well	0.5	45	68	185
West Enos	243, 244	Well	0.5	44	66	174
West Basins	245	Moderate	0.5	75	113	324
Enns	125, 244, 245, 229	Well, Somewhat Excessive	0.6	55	83	175
McCaslin	125,243, 244,245	Well, Somewhat Excessive	0.6	52	78	172
Superior	125, 127, 243, 245, 229	Well, Somewhat Excessive	0.6	160	240	605
Allen	125	Somewhat Excessive	1.2	90	135	153
Totals =				**600**	**902**	**2,587**
Weighted Average Infiltration = 0.46 ft/day						

**Based on 2017and 2023 Operations*

A timeline of construction of recent facility improvement projects is provided in **Table 2**. A brief description of the facility improvements completed during 2024 follows the table.

Table 2
RRBWSD Facility Improvement Projects

Improvement Description	Completion Year
Enns Recharge Basins (130 acres)	2002
Strand Recharge Basins (449 acres)	2009
Enns Wells (3)	2010
Strand Wells (7)	2011
Stockdale West Recharge Basins (225 acres)	2011
CVC Turnout No. 1 Return Pipeline	2012
West Basin Wells (3)	2016
Kern River Intake Improvements (600 cfs capacity)	2016
West Basin Improvement Recharge Basins (55 acres)	2016

Table 2 (Contiued)
RRBWSD Facility Improvement Projects

Improvement Description	Completion Year
Stockdale West Wells (3)	2016
Central Intake Canal and CVC Turnout (200 cfs capacity)	2018
Superior Well Field (6)	2018
Stockdale East Recharge Basins (185 acres)	2018
Superior Basins Improvement Project (addition of 50 acres)	2019
Central Intake Pump Station (200 cfs capacity)	2019
Stockdale East Well Drilling and Completion (2 new, 1 rehab)	2020
Houghton Weir Reconstruction Project	2021-22
McCaslin Recharge Ponds	2022
SCADA Project Phase 1	2022
Grimmway Multipurpose Recharge Ponds	2023
West Enos Recharge Pilot Project	2023

Facility Improvements Completed During 2024

McCaslin/Bowling Recovery Pipeline - In conjunction with the contract for the drilling and equipping of the recovery wells, collection pipelines were constructed to connect the new wells to the existing conveyance system. Approximately 7,500 feet of PVC irrigation pipe were installed to deliver future McCaslin Well recovery water to the West Intake (connecting to the Rosedale No. 1 CVC turnout). An additional 1,400 feet of PVC irrigation pipe were installed to connect the future Bowling Well to the East Superior Collection Pipeline for conveyance to the Central Intake.

The McCaslin Recharge Ponds are designed for dual use: during dry years they can be farmed, while in wet years they can be converted into recharge basins. The pipelines are part of a three-phase project. Basin development and earthwork were completed in 2021–2022, and the well drilling and equipping components are scheduled for completion in early 2025.

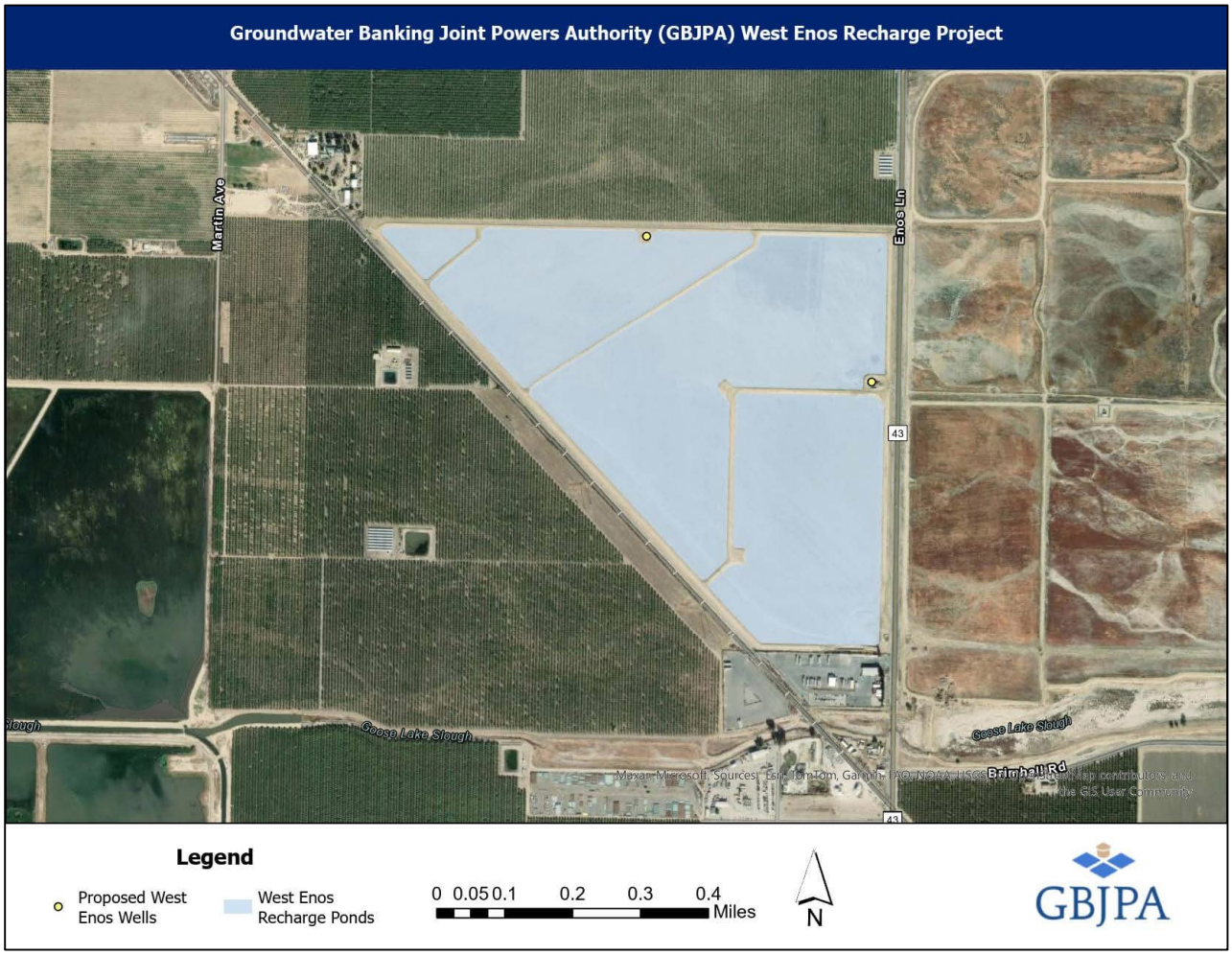
West Enos Recharge Project - This project was undertaken as part of the Groundwater Banking Joint Powers Authority and included the construction of approximately 175 acres of permanent recharge ponds located directly west of Enos Lane in the West Superior Recharge Area. The facility will be filled via three 48-inch HDPE pipes equipped with C-10 irrigation gates to control water flow. Water will be supplied to the West Enos property from the westernmost Superior Recharge Pond through the Goose Lake Channel.

To support this system, four large-diameter steel pipes were jacked beneath Enos Highway to install the HDPE siphon delivery pipes. Four interbasin transfer structures were also constructed within the West Enos Recharge Project, each fitted with wingwalls and riprap for stability. In addition, a low-flow channel was constructed through the southern end of the first two ponds to improve the fill rate of the second and third ponds. The facility is designed to deliver approximately 50–80 cfs to the West Enos Recharge Project.





Installation of McCaslin/Bowling Recovery Pipeline


Groundwater Banking Joint Powers Authority (GBJPA) West Enos Recharge Project
Martin Ave
Enos Ln
43
Goose Lake Slough
Goose Lake Slough
Brighall Rd
Maxar, Microsoft, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, and the GIS User Community
Legend
Proposed West Enos Wells
West Enos Recharge Ponds
0 0.05 0.1 0.2 0.3 0.4
Miles
N
GBJPA



Installation of 42" HDPE Pipe Underneath Enos Lane (State Route 43)



Construction of Permanent Levee Embankments

SECTION 3 – CONJUNCTIVE USE PROJECT OPERATIONS FOR CALENDAR YEAR 2024

2024 is considered a typical year with annual rainfall of 7.46 inches recorded for the Metropolitan Bakersfield area. The District received no water from its Kern River contracts and an allocation of 40 percent from the State Water Project (SWP). The District's banking partners enacted both additions to storage and return of previously stored supplies. A portion of the banking program return was from groundwater extraction.

A summary of the CEQA documentation prepared for the District's groundwater banking programs is included as **Section 8**. A brief description of the District's groundwater banking, sales, and water purchase programs with operations in 2024 follows:

Arvin-Edison Water Storage District (AEWSD) 2:1 Banking Agreement dated Oct 1, 2009
2,163 AF of water from Arvin was added to storage in 2024. 8,260 AF of water was returned by AEWSD by exchange and 1,740 AF of water was recovered from the JURP wells for return to AEWSD. At the end of 2024 AEWSD's account balance in RRBWSD is 45,145 AF.

Delano-Earlimart Irrigation District (DEID) 2:1 Banking Agreement dated Oct 1, 2009
493 AF of water from DEID was added to storage in 2024. At the end of 2024 DEID's account balance in RRBWSD is 30,499 AF.

Kern Tulare Water District (KTWD) 2:1 Banking Agreement dated July 10, 2001
8,948 AF of water from KTWD was added to storage in 2024. At the end of 2024 KTWD's account balance in RRBWSD is 37,955 AF.

Homer LLC 2:1 Banking Agreement dated May 26, 2017
The total account balance for the Homer LLC banking program in RRBWSD has been returned by exchange. The remaining account balance at the end of 2024 is 0 AF.

Buena Vista Water Storage District (BVWSD) Banking Agreement dated January 1, 2002
RRBWSD returned 8,250 AF of water to Santa Clarita Valley Water Agency (SCVWA) for BVWSD in 2024. At the end of 2024 BVWSDs account balance, for this program in RRBWSD, is 109,870 AF.

Irvine Ranch Water District (IRWD) Banking Agreement dated January 13, 2009
2,475 AF of water from IRWD was added to storage during 2024. At the end of 2024, IRWD's account balance with RRBWSD is 43,198 AF.

Castaic Lake Water Agency (now SCVWA) Banking Agreement dated November 11, 2005
6,001 AF of water from SCVWA was added to storage during 2024. At the end of 2024, SCWA's account balance in RRBWSD is 82,283 AF.

Castaic Lake Water Agency (now SCVWA) 2:1 Banking Agreement dated September 1, 2011
No deliveries or returns were made for this program in 2024. At the end of 2024, SCVWA's account balance for this program in RRBWSD remains at 5,301 AF.

Coachella Valley Water District (CVWD) Water Sale Agreement amended July 24, 2012
No water was delivered to CVWD in 2024. At the end of 2024 RRBWSD has sold 122,000 AF to CVWD under this program. There is no available exportable balance at the end of 2024.

San Joaquin River Exchange Contractors (SJREC) 2:1 Program Agreement dated October 2, 2020
4,250 AF of water from SJREC was added to storage during 2024. At the end of 2024 SJRECs account balance in RRBWSD is 16,235 AF, which includes water recharged under 2017 and 2019 program agreements.

Antelope Valley-East Kern Water Agency (AVEK) 3:1 Banking Agreement dated December 28, 2018
No water was added to storage or returned during 2024. At the end of 2024 AVEK's account balance in RRBWSD remains at 5,333 AF.

Tulare Lake Basin Water Storage District (TLBWSD) 2:1 Agreement dated September 13, 2023
2,375 AF of water from TLBWSD was added to storage in 2024. At the end of 2024 TLBWSD's account balance in RRBWSD is 4,250 AF.

The end of year water banking account balances for each of the District's programs over the period 2004 through 2024 are shown graphically in **Figure 3**. Also shown is the RRBWSD Aggregate Benefit, which is the total volume of water allocated for the District's benefit and use as a result of the operations of these water banking programs. As of the end of 2024, the RRBWSD Aggregate Benefit is approximately 382,100 AF.

Table 3 provides a summary of the District's water supplies and deliveries for 2024. The values in **Table 3** are the best available at the time of report preparation. However, these values may be revised based on final records for the various water sources.

Table 3
RRBWSD 2024 Supplies and Deliveries
(All Values in Acre-Feet)

Supplies	
SWP 2024 Entitlement	11,960
2023 Carryover	6,179
AEWSD Banking	4,325
KTWD Banking	19,038
DEID Banking	985
IRWD Banking	2,887
SCVWA Banking	7,000
SJREC Banking	10,000
TLBWSD Banking	5,589
Groundwater Recovery (JURP)	1,740
Total	**69,703**

Deliveries To	
RRBWSD Kern River Intake	3,248
RRBWSD CVC Turnout No. 1	9,606
RRBWSD CVC Turnout No. 2	6,089
Central Pump Station	5,359
Strand Project Facilities	2,360
Stockdale West	1,571
Pioneer Project	3,049
AEWSD	10,000
San Luis Reservoir (SJREC Banking)	10,000
CLWA	8,250
SWP 2024 Carryover	9,897
Total	**69,429**

Notes:
1. The difference between supplies and deliveries consists primarily of transportation losses (estimated to be about 274 AF). These are not considered losses in the District's water balance since this water is recharged to the groundwater basin.

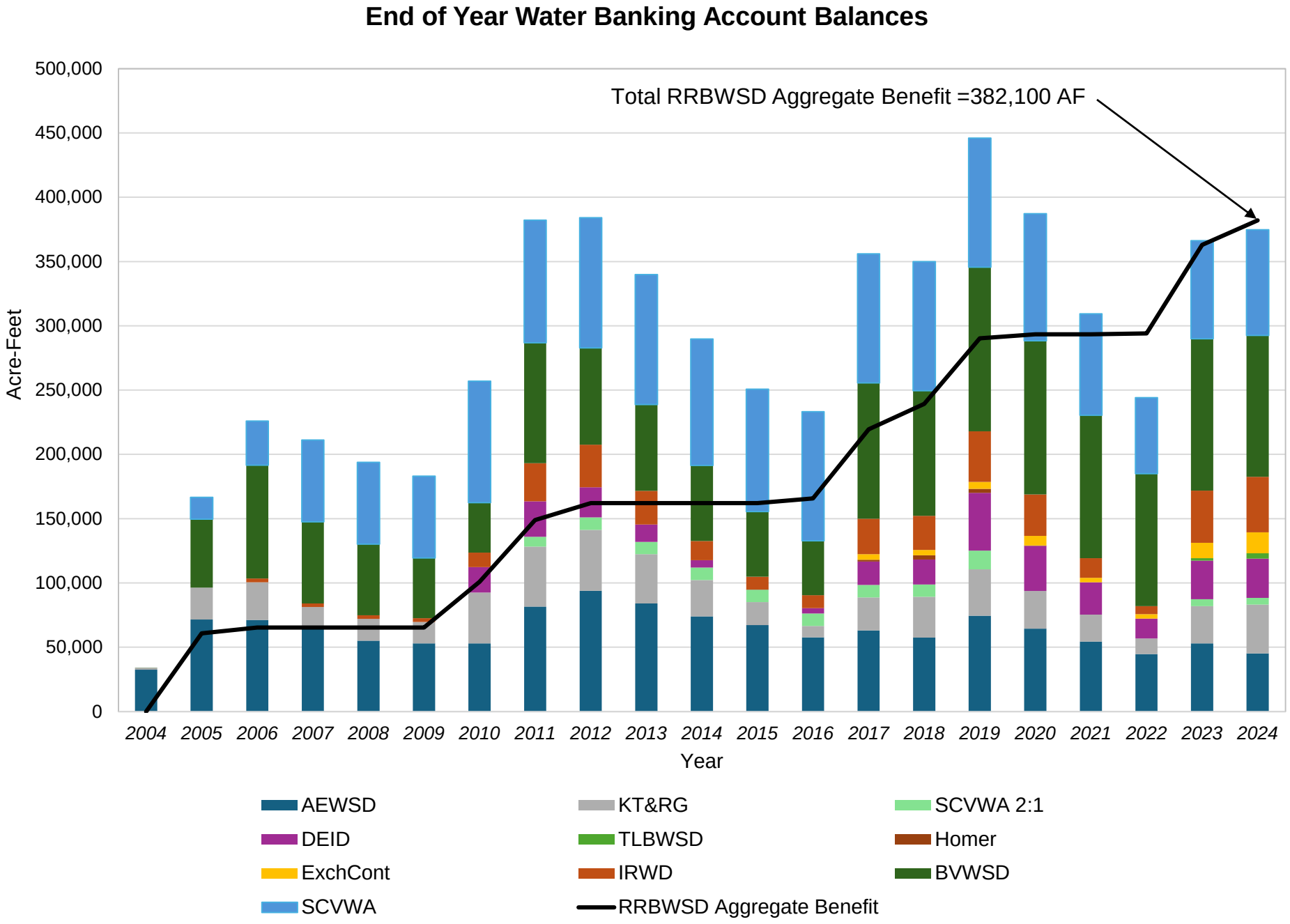

End of Year Water Banking Account Balances
Total RRBWSD Aggregate Benefit =382,100 AF
Acre-Feet
500,000
450,000
400,000
350,000
300,000
250,000
200,000
150,000
100,000
50,000
0
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
Year
AEWSD
KT&RG
SCVWA 2:1
DEID
TLBWSD
Homer
ExchCont
IRWD
BVWSD
SCVWA
RRBWSD Aggregate Benefit

Figure 3

SECTION 4 – GROUNDWATER LEVELS

The District's 2024 Groundwater Level Monitoring Network is shown on **Figure 4**. The District currently measures depth to groundwater in these 19 representative monitoring wells monthly. The wells measured by the District are a combination of District and banking program production wells, abandoned wells, agricultural production wells, municipal supply wells, and dedicated monitoring wells. Included in the network are four double-completion monitoring wells constructed by the California Department of Water Resources (DWR).

A summary of the characteristics of the wells currently in the District's Groundwater Level Monitoring Network is presented in **Table 4**. The monitoring wells outside of the District boundary and south of the river shown on **Figure 4** are not included in **Table 4** and are not part of the analysis in this District Operations Report. District production wells are monitored for groundwater levels and quality during production operations. These District production wells are also included in **Table 4**.

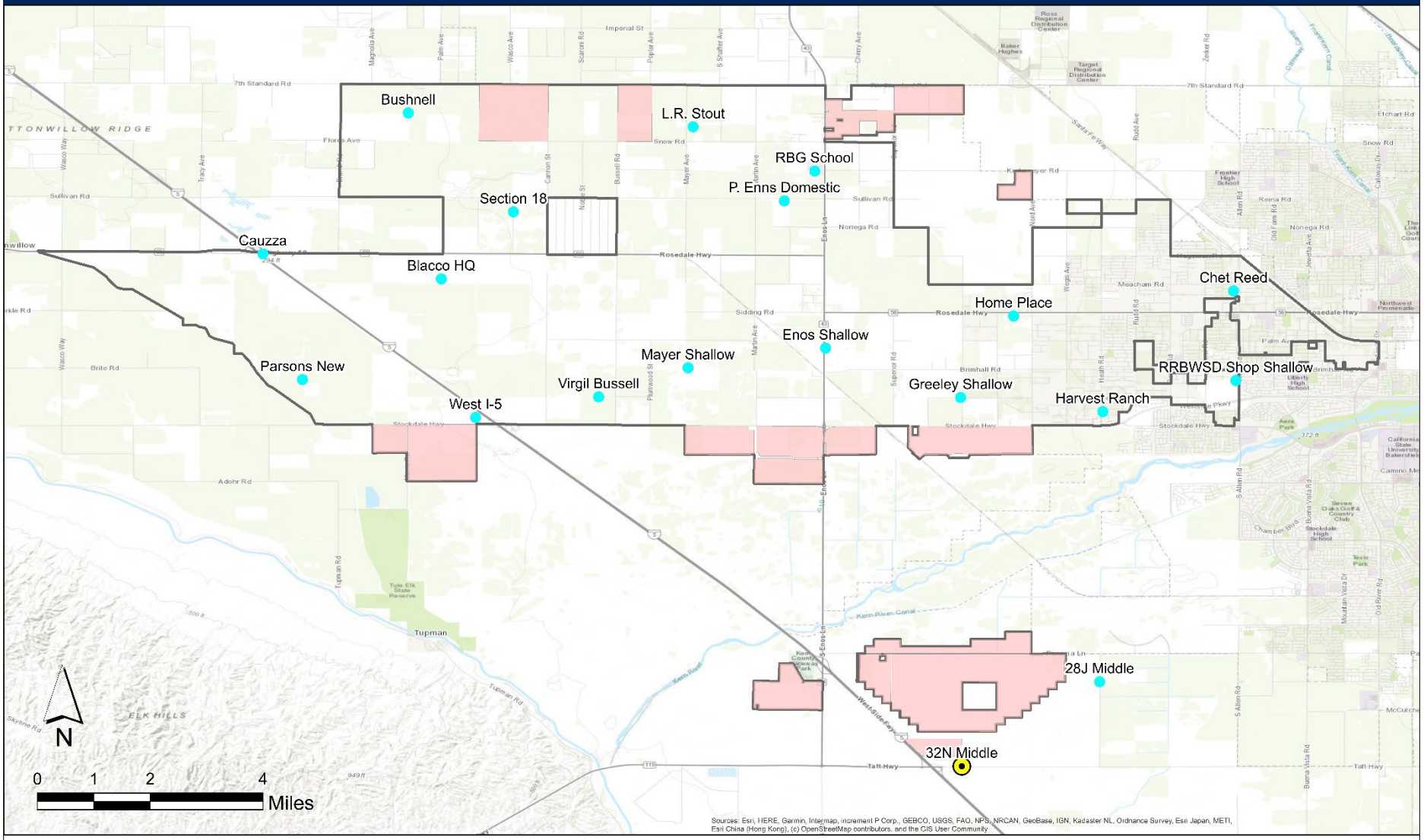
Groundwater levels measured in January 2025 ranged from about 160 feet below ground surface in the southeastern portion of the District to about 325 feet below ground surface in the northwest. The average depth to groundwater in the District in January 2024 was estimated to be 233 feet. This is approximately 21 feet higher than the estimated average groundwater elevation in January 2024.

Groundwater levels within the District are also influenced by the recharge and recovery operations for adjacent groundwater banking programs. The District has developed a groundwater model to evaluate the impacts of these groundwater banking projects and also to develop projections of water levels based on implementation of the projects and management actions anticipated in the District's proposed Groundwater Sustainability Plan. An update of the District's groundwater model was conducted in 2024 to calibrate the model to observed water levels (see **Appendix 2**).

Long term historic groundwater level hydrographs have been prepared for the monitoring wells in **Figure 4** as part of the District's SGMA reporting program (see **Appendix 1)**. Groundwater levels in monitoring wells located farther from the recharge and recovery facilities on the Kern River Fan experience a muted impact. Groundwater levels at these wells historically experienced a steady decline but have leveled out in the 2017-2025 period. Groundwater levels in monitoring wells closer to recharge and recovery operations experience significant fluctuations consistent with the large recharge and recovery cycles on the Kern River Fan. Groundwater levels in these monitoring wells at the end of 2024 are generally equal to or higher than experienced in 2014. Currently, the RRBWSD GSA is in full compliance with the Sustainable Management Criteria established in its Groundwater Sustainability Plan. See **Section 7** for more information on the District's SGMA compliance.

Figure 5 shows estimated average groundwater levels within the District in the month of January for the years 1952 through 2025. The rate of groundwater decline from 1976, when the first SWP deliveries were made to the District, to January 2025 has averaged about 1.9 foot per year. Prior to 1976, the average rate of groundwater decline was about 4.7 feet per year.

Rosedale-Rio Bravo Water Storage District GSA Groundwater Level Monitoring Network
Bakersfield, CA



Legend

- Water Level Representative Monitoring Wells (RMWs)
- RRBWSD GSA White Lands
- RRBWSD GSA Boundary

ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT

RRBWSD GSA
ROSEDALE RIO BRAVO WATER STORAGE DISTRICT
GROUNDWATER SUSTAINABILITY AGENCY

Table 4

Rosedale-Rio Bravo Water Storage District

Representative Monitoring Well Characteristics[1]

State Well Number	Well Name	Well Depth	Screen Interval	Type of Well[2]	Start Date	Water Quality	Frequency
29/24 2 J1	Bushnell			Agricultural	1997	N	--
29/25 3 N1	L. R. Stout	433	351-433	Agricultural	1998	N	--
29/25 11 H	RBG School			Domestic	2016	N	--
29/25 14 C1	P. Enns Domestic			Domestic	2014	N	--
29/25 18 B1	Section 18	701	300-701	Agricultural	1997	N	--
29/24 24 F	BLACCO HQ New			Agricultural	2013	N	--
29/24 21 A1	Cauzza	800		Abandoned	1982	N	--
29/24 28 L	Parsons New			Agricultural	2019	N	--
29/24 36 R1	West –I-5			Agricultural	1982	N	--
29/25 33 E1	Virgil Bussell			Domestic	1993	N	--
29/25 27 N1	DWR 27N Mayer Deep-W	700	610-700	Monitor Well	1995	Y	Biannual
29/25 27 N2	DWR 27N Mayer Shallow-E	310	210-310	Monitor Well	1995	Y	Biannual
29/25 25 M1	DWR 25M Enos Deep-W	700	600-700	Monitor Well	1995	Y	Biannual
29/25 25 M2	DWR 25M Enos Shallow-E	350	260-350	Monitor Well	1995	Y	Biannual
29/26 23 J1	Chet Reed			Abandoned	1995	N	--
29/26 29 B	Home Place			Domestic	2015	N	--
29/26 31 H1	DWR 31H Greeley Deep-E	630	560-630	Monitor Well	1995	Y	Biannual
29/26 31 H2	DWR 31H Greeley Shallow-W	430	360-430	Monitor Well	1995	Y	Biannual
29/26 34 M1	Manon Manor (Harvest Ranch)			Municipal	1989	N	--
29/26 35 H1	Shop	500		Domestic	1981	N	--
29/26 35 H3	DWR 35H Shop Deep-SE	680	590-680	Monitor Well	1995	Y	Biannual
29/26 35 H4	DWR 35H Shop Shallow-NW	410	310-410	Monitor Well	1995	Y	Biannual
29/25 29 Q	WB-1 Prod			District	2017	Y	During production operations
29/25 28 N	WB-2 Prod			District	2017	Y	
29/25 28 P	WB-3 Prod			District	2017	Y	
29/25 34 A	ENNS-01 Prod.	475	185-455	District	2017	Y	
29/25 34 A2	ENNS-02 Prod.	750	460-740	District	2017	Y	
29/25 34 H	ENNS-03 Prod.	440	180-420	District	2017	Y	
30/25 2 E	SREX-01 Prod.			Banking program	2017	Y	
30/25 2 D	SREX-02 Prod.			Banking program	2017	Y	
30/25 2 G	SREX-03 Prod.			Banking program	2017	Y	
30/25 2 A	SREX-04 Prod.			Banking program	2017	Y	
30/25 2 L	SREX-05 Prod.			Banking program	2017	Y	
30/25 2 J4	SREX-07 Prod.			Banking program	2017	Y	
30/25 3	SWEX-01 Prod.			Banking program	2017	Y	
30/25 3	SWEX-02 Prod.			Banking program	2017	Y	
30/25 3	SWEX-03 Prod.			Banking program	2017	Y	

Notes:

1. District water level representative monitoring wells on Figure 4 are monitored for depth to groundwater monthly. South of the river wells are not included in Table 4 and are not a part of the analysis in this District Operations Report.
2. Abandoned status indicates wells that are no longer used in production and may differ from the KC Environmental Health Division designation.

ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT

ESTIMATED AVERAGE DEPTH TO GROUNDWATER IN WELLS 1952-2025

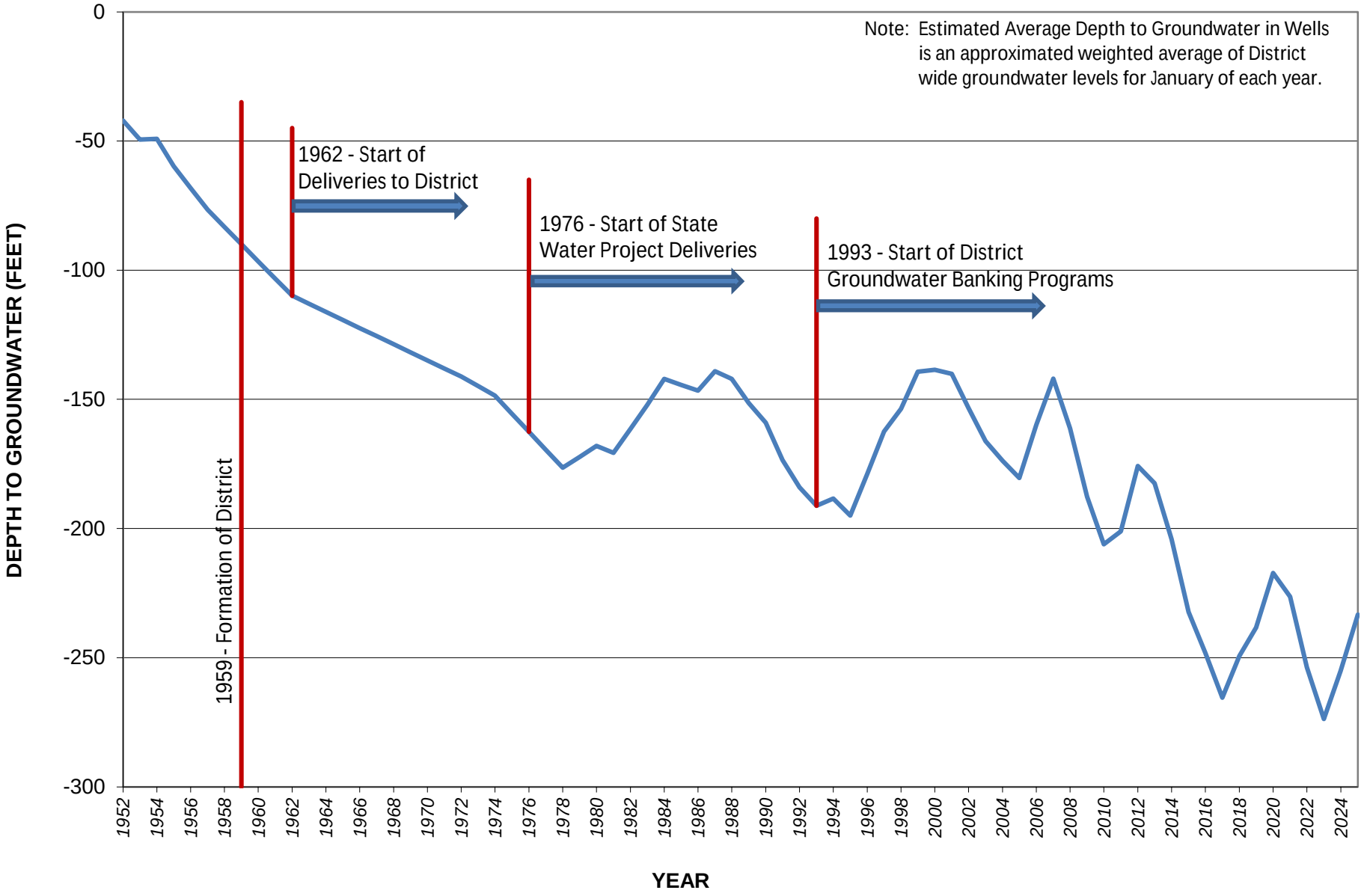


Figure 5

SECTION 5 – GROUNDWATER QUALITY

Groundwater quality in the basin underlying the District is generally of good quality for domestic and agricultural uses. However, groundwater in localized areas may not be suitable for the production of some crops and/or domestic uses. In the past, groundwater quality concerns were noted in the eastern portion of the District, where groundwater is primarily used for municipal supplies. The West Bakersfield Area Ground Water Quality Management Study (Longley, 1990) was undertaken due to concerns with groundwater quality in the study area, primarily from pesticides (EDB and DBCP), nitrates and salts (TDS). A number of wells within the District were identified with concentrations in excess of the Maximum Contaminant Level (MCL) for EDB, DBCP and nitrate. High TDS concentrations (700-1300 mg/l) were found in the vicinity of the Rio Bravo and Greeley Oil Fields. More recently, a MCL of 0.005 ug/l for 1,2,3-TCP was adopted by the California Division of Drinking Water with compliance required by January 2018. Groundwater with 1,2,3-TCP in excess of the MCL has been found in wells throughout the San Joaquin Valley due to the widespread use of soil fumigants that contained the chemical.

Groundwater quality within the District is currently monitored by the District, industrial users, numerous mutual water companies, the City of Bakersfield, the Kern Fan Monitoring Committee, and individual landowners. The District tests groundwater from the recovery wells (Enns Wells, West Basin Wells, Superior Wells, Stockdale East Wells, and Strand Wells) during pumping operations as noted in **Table 4**. Water quality data for over 30 wells located within the District is included in the State Water Resources Control Board Public Water Supply Systems online database (SDWIS), with the majority of these wells located within the urbanized area in the eastern half of the District. The Kern Fan Monitoring Committee takes samples semi-annually from the four double-completion monitoring wells within the District and tests for constituents of known concern (gross alpha, uranium, DBCP, EDB, and nitrate) and irrigation suitability analyses. The approximate locations of the wells that are monitored for water quality are shown in **Figure 6**.

The District has selected ten of these wells for monitoring as part of its SGMA reporting as noted on **Figure 6**. Water quality data for each of these wells is provided in **Appendix 3**. Since the last measured concentrations of EDB and DBCP greater than the MCL in these wells were in the late 1990s and early 2000s, these constituents are not included in the current reporting. The District's SGMA reporting for 2024 includes the following constituents:

- Arsenic (ug/l)
- TDS (mg/l)
- Nitrate as NO3 (mg/l)
- Chloride (mg/l)

The District has defined Minimum Thresholds (MTs) for their monitoring wells as the MCL or a 10% increase over the 2015-2020 measured concentrations for wells with historically high constituent concentrations. The established MTs for each well are shown on the long-term water quality graphs provided in **Appendix 3**.

In 2024, no exceedance of the established water quality MTs were observed in the RRBWSD GSA.

AECOM

FIGURE 6

ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT BOUNDARY

DISTRICT RECHARGE & TRANSPORTATION FACILITIES

DWR 25M

DWR 27N

ENNS WELLS

DWR 31H

DWR 35H

JURP WELLS

STRAND WELLS

RRBWSD WEST CVC TURNOUT No. 1

RRBWSD EAST CVC TURNOUT No. 2

RRBWSD HEADWORKS

RIVER CANAL WEIR

LEGEND

- WELLS FROM SDWIS DATABASE
- DOUBLE-COMPLETION MONITORING WELLS
- PRODUCTION WELLS
- WELLS MONITORED AS PART OF DISTRICT'S SGMA REPORTING

4,000 2,000 0 4,000 8,000

SCALE IN FEET

2024 DISTRICT OPERATIONS REPORT
LOCATION OF WELLS MONITORED FOR GROUNDWATER QUALITY
ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT
Project No.: 60599866

DWG: L:\Legacy\Work\R01\60599866 — 2019 General Services\CAD district operations report figures\2024\FIG-06.dwg USER: Ghilarducci0
DATE: Aug 25, 2025 2:41pm XREFS:

SECTION 6 – STATUS OF DISTRICT GROUNDWATER BALANCE AND BANKING PROGRAMS

The District calculates its balance of water supplies versus demands annually and cumulatively over time in order to assess the progress toward meeting its goal of eliminating groundwater overdraft within the District and progress towards sustainability. The period from 1995 to 2024 is used for analysis in this report per the terms of the agreement with the Kern Water Bank Authority and the Kern County Water Agency. This time period captures varying hydrologic cycles sufficient to understand long-term trends. Included in **Appendix 4** are tables indicating the District's water supplies, demands, water banking activities, and water balance for the years 1995 through 2024. The tables in **Appendix 4** generally follow the methodology developed by the Kern County Water Agency as a part of the groundwater mediation process. The District's settlement with the City of Bakersfield regarding its contract water supplies has been incorporated in the District's water balance accounting through 2024.

For 2024, consumptive use demands for the District were based on a surface energy balance using satellite thermal imaging (data from Land IQ). This data is available on the District's Water Accounting Platform to allow its landowners to effectively and efficiently make informed decisions regarding water supply and land use. Further discussion of the District's Water Accounting Platform is provided in **Section 7**.

The main components of the water balance and the average annual quantities in acre-feet for the period 1995-2024 are summarized below.

Average Water Supplies

Surface water supplies (contract supplies and water purchases)	52,600
Purchased groundwater supplies	5,700
District share of groundwater recharge program supplies	15,600
Flood flows	3,400
Natural inflow from precipitation and share of basin safe yield	31,300
Total Supplies	**108,600 AF**

Average Water Demands

District Consumptive Use	92,800
Water transfers	1,600
Assessed banking program losses	3,000
Total Demands	**97,400 AF**

The District's cumulative water balance over the period is a positive change in groundwater storage of approximately 213,200 acre-feet (see **Appendix 4**). This quantity does not include water in storage as a part of groundwater banking programs for third parties. As of the end of 2024, about 374,700 acre-feet was in storage for the District's banking partners. Therefore, the total increase in groundwater storage for the period 1995-2024 due to the District's operations is approximately 587,900 acre-feet.

The District calculates an exportable water supply balance annually (based on the period January 2004 to date) as agreed to in the District's MOU for its groundwater exchange program with GLC. The exportable water balance as of January 1, 2025 has been calculated to be a deficit of 10,203 acre-feet. The estimated balance for overdraft correction (ODC) is about 223,400 acre-feet.

The District's annual water balances for the period 1995 through 2024 are shown on **Figure 7**. The District's cumulative change in groundwater storage for the same time period (not including groundwater banking operations for third parties) is presented graphically in **Figure 8**.

Graphs of depth to groundwater and total deliveries to the District for the years 1962 (when the first deliveries were made) through 2024 are shown on **Figure 9**. The Estimated Average Depth to Groundwater on **Figure 9 i**s calculated as a weighted average of District wide groundwater levels in January in order to reflect the groundwater operations from the previous year.

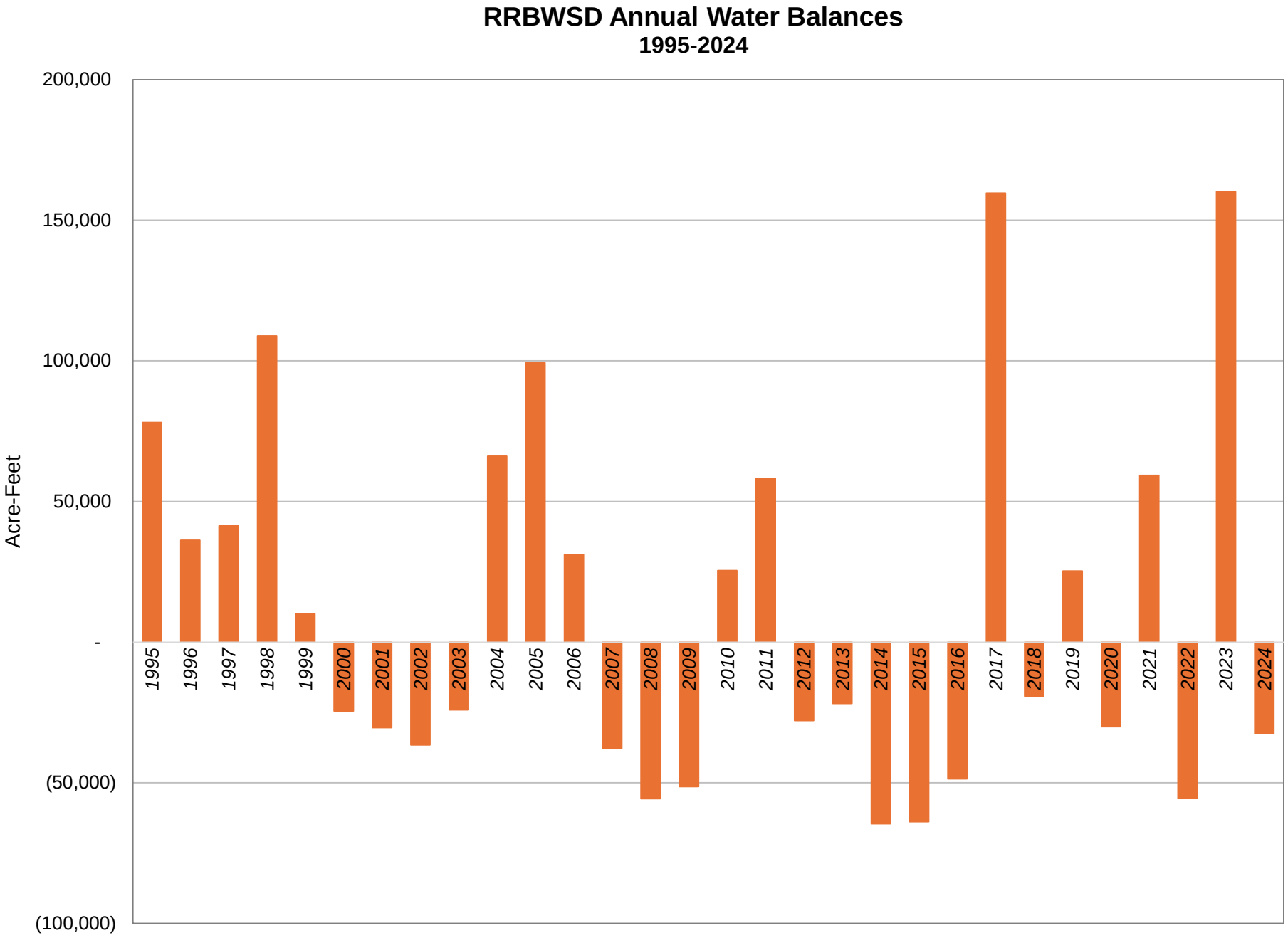

RRBWSD Annual Water Balances
1995-2024
Acre-Feet
200,000
150,000
100,000
50,000
-
(50,000)
(100,000)
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
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2020
2021
2022
2023
2024

Figure 7

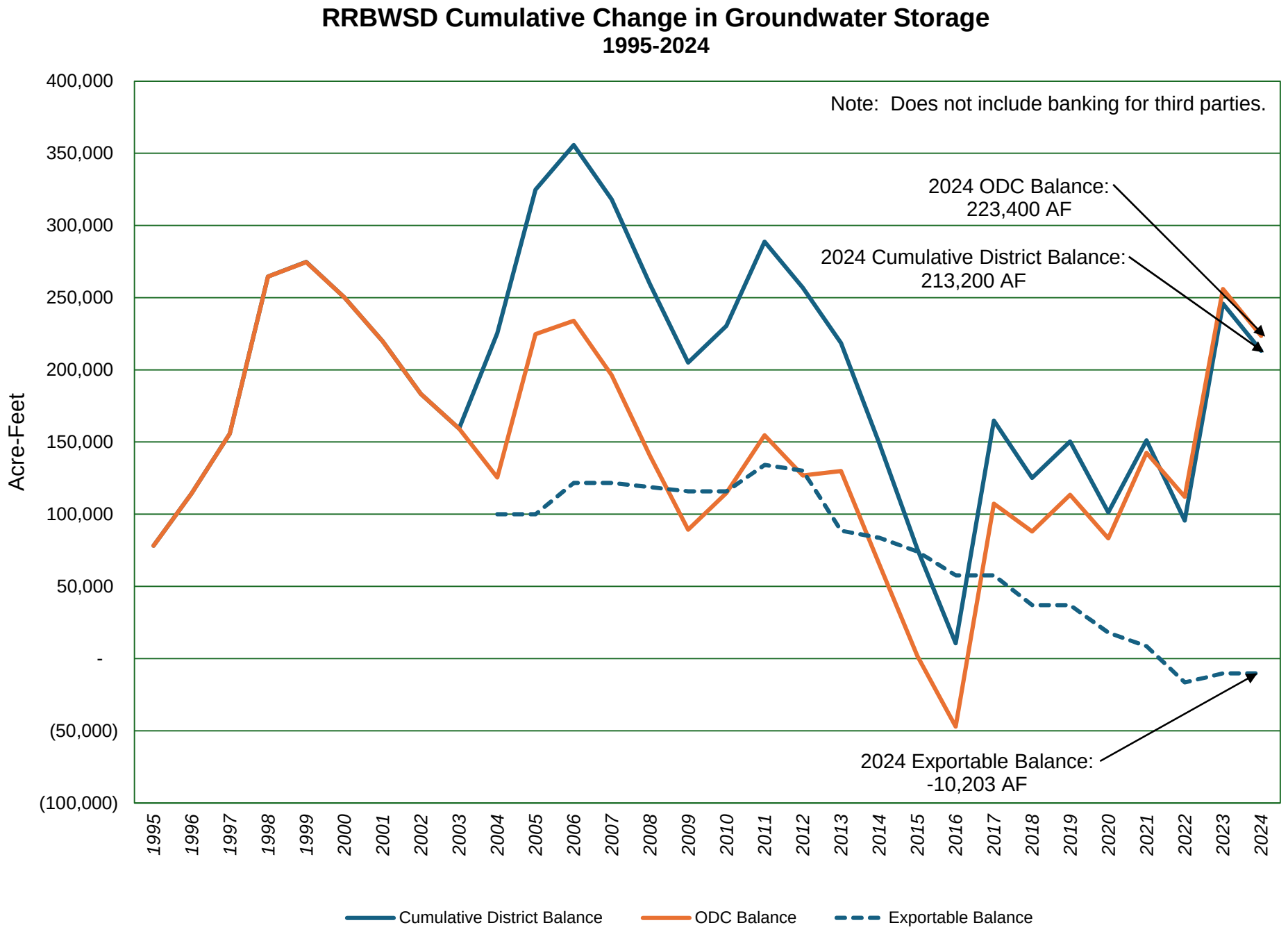

RRBWSD Cumulative Change in Groundwater Storage
1995-2024
Note: Does not include banking for third parties.
2024 ODC Balance:
223,400 AF
2024 Cumulative District Balance:
213,200 AF
2024 Exportable Balance:
-10,203 AF
Acre-Feet
400,000
350,000
300,000
250,000
200,000
150,000
100,000
50,000
-
(50,000)
(100,000)
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
Cumulative District Balance
ODC Balance
Exportable Balance

Figure 8

ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT
SURFACE WATER DELIVERIES AND
AVERAGE DEPTH TO GROUNDWATER IN WELLS (1962-2025)

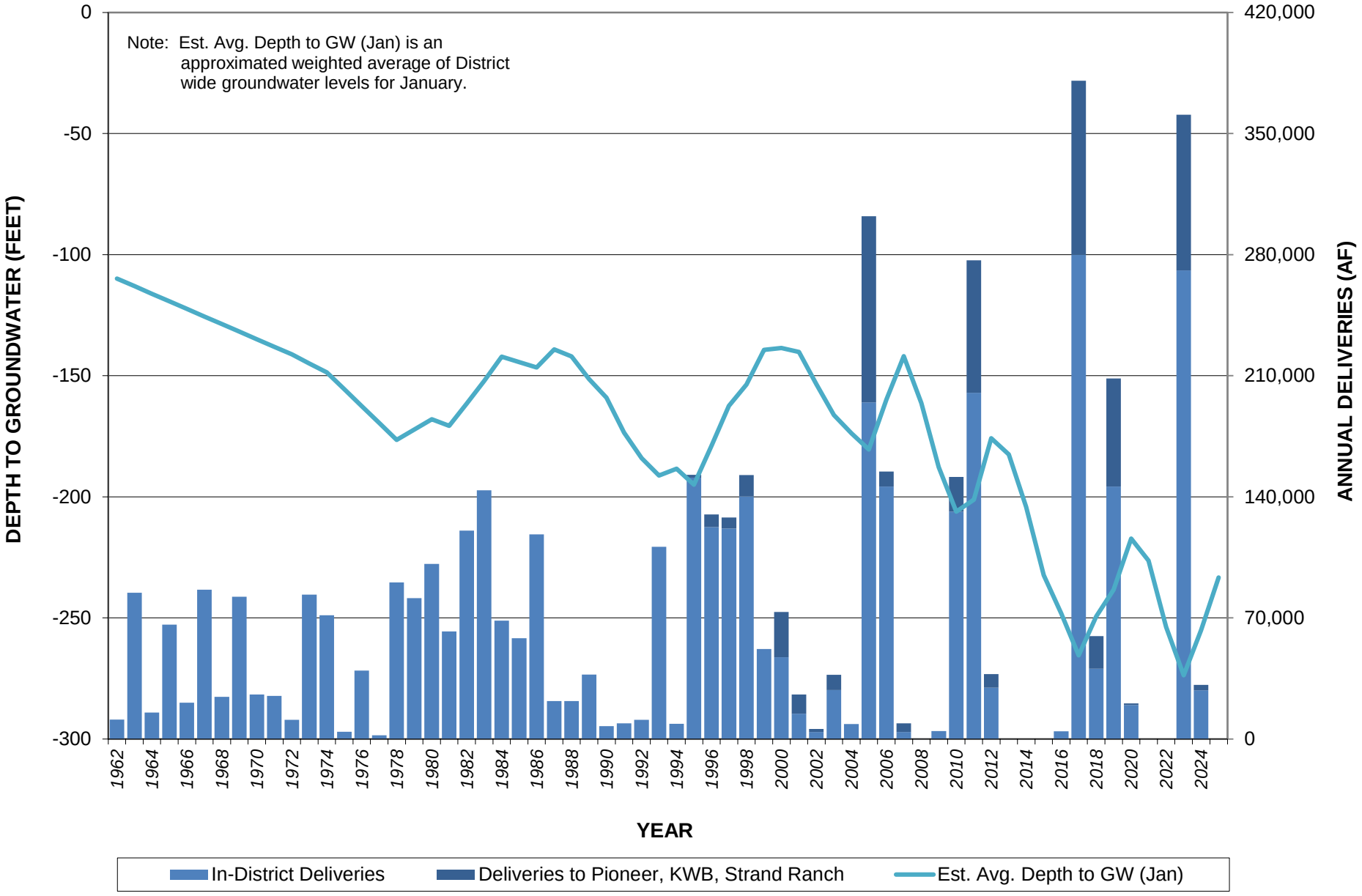


Figure 9

SECTION 7 – SUMMARY OF ACTIONS REGARDING DISTRICT BASIN MANAGEMENT OBJECTIVES

The District's Basin Management Objectives include:

- Maintaining a positive water supply balance for its landowners,
- Working cooperatively with landowners and other water agencies overlying the Kern County Subbasin on groundwater issues,
- Protecting groundwater quality, and
- Maintaining groundwater levels.

The Sustainable Groundwater Management Act (SGMA) was signed by the Governor on September 16, 2014 and includes requirements for the formation of local groundwater sustainability agencies (GSAs) that will assess local groundwater conditions.

The SGMA:

- Establishes a definition of sustainable groundwater management,
- Provides a framework for local agencies to develop and implement strategies to sustainably manage groundwater resources,
- Requires the prioritization of groundwater basins (with the most critical ranked as high priority),
- And sets a twenty-year timeline for implementation.

Sustainable groundwater management is defined in the SGMA as the "management and use of groundwater in a manner that can be maintained during the planning and implementation horizon without causing undesirable results."

Undesirable results include any of the following:

- Chronic lowering of groundwater levels, but excludes reductions in groundwater levels during a drought if they are offset by increases in groundwater levels during other periods,
- Significant and unreasonable reductions in groundwater storage,
- Significant and unreasonable seawater intrusion,
- Significant and unreasonable degradation of water quality,
- Significant and unreasonable land subsidence, and
- Surface water depletions that have significant and unreasonable adverse impacts on beneficial uses.

The District was a founding member of the Kern Groundwater Authority (Authority) which was formed (prior to the adoption of the SGMA) pursuant to the Groundwater Management Act (AB3030) with the purpose of developing a groundwater management plan for the Kern County Subbasin. The Authority worked with its members to develop a GSA in conformance with SGMA requirements including implementation measures to achieve groundwater sustainability. The Kern County Subbasin is shown as being a high priority basin in the June 2014 CASGEM Basin Prioritization.

The District prepared the Groundwater Sustainability Plan (GSP) Chapter for the Rosedale-Rio Bravo Management Area (RRBMA) which was included in the Kern Groundwater Authority Groundwater Sustainability Plan (KGA GSP) submitted to the DWR in January 2020. The KGA GSP received an Incomplete Determination from the DWR in January 2022. Revisions to the KGA GSP were submitted to the DWR in July 2022. The DWR responded with a subsequent Inadequate Status determination in March 2023. On August 9, 2023, the District provided a Notice of Intent to Prepare a Groundwater Sustainability Plan for lands within its boundaries covering a portion of the Kern County Subbasin and formed the RRBWSD GSA. As a part its implementation of the GSP, the District prepared a 2024 Annual

Report for the RRBWSD GSA and engaged in significant GSP related studies in 2024. An amended Final Groundwater Sustainability Plan for the Kern County Subbasin Groundwater Sustainability Agencies was submitted to DWR in August 2025.

The District's GSP Chapter for the RRBMA included measurable objectives and milestones to achieve sustainability by 2040 in accordance with the timeline established for SGMA milestones (from the Water Education Foundation Handbook, 2015) provided in **Appendix 5**. Also provided in **Appendix 5** are excerpts from the Kern County Subbasin Groundwater Sustainability Plans Sixth Annual Report Water Year 2024 relative to implementation progress for the RRBWSD GSA. GSP implementation status through Water Year 2024 is summarized below.

RRBWSD GSA groundwater levels trends sloped generally upwards because of the historical wet year in 2023. Water levels in the District's monitoring well network increased by an average of about 25 feet from Fall 2023 to Fall 2024. No exceedances occurred in 2024 within the RRBWSD GSA.

The District monitored eleven groundwater wells within the RRBWSD GSA for groundwater quality as part of its SGMA reporting. For 2024, the constituents of concern included Total Dissolved Solids (TDS), Chloride, Nitrate (as NO3), and Arsenic. Groundwater quality data is sourced from publicly available data from the Groundwater Ambient Monitoring and Assessment (GAMA) Program, Kern Fan Monitoring Committee's winter and spring sampling events, and RRBWSD GSA's in-house monitoring efforts (see **Appendix 3**). Minimum Thresholds were defined as levels exceeding the current MLC or a 10% increase over the 2015-2020 values for wells with historically high constituent concentrations. No exceedances were reported in the 2024 reporting period.

Looking ahead, as part of the revised Subbasin GSP, the RRBWSD GSA will transition to a network of four representative monitoring wells: Enos Shallo, Greeley Shallow, RRBWSD Shop Shallow, and Frito Lay #1. The list of constituents of concern for this monitoring network will be expanded to include 1,2,3,-TCP, Arsenic, Nitrate (as NO3 and NO2), TDS, and Uranium.

The RRBMA has continued to make progress towards implementing several of its planned GSP Projects and Management Actions during 2024 including:

- Enns Basin Improvement Project (McCaslin Ponds)
- Onyx Ranch Project
- Kern Fan Groundwater Storage Project
- Western Rosedale Lands In-Lieu Service Area Project
- Ten Section Project
- Water Charge Demand Reduction
- RRBWL (White Land) Water Supplies and Demand Imbalance Reduction
- RRBWSD 3rd Party Recharge and Storage Program.

The District is committed to maintaining sustainable groundwater conditions for its landowners. The District continues to pursue options to reduce water demands, obtain additional water supplies, and protect its groundwater resources.

The District's ongoing existing activities and planned actions regarding groundwater management are summarized in **Table 5**.

Table 5

Rosedale-Rio Bravo Water Storage District
Management Action Summary – 2024 District Operations Report

Existing Management Actions	GMP Component Area(s)	Comments
Maintain District Website	• Stakeholder Involvement • Groundwater Sustainability and Operations	Website updated regularly.
Conduct Landowner Meetings	• Stakeholder Involvement • Groundwater Sustainability and Operations	Three Stakeholder Advisory Committee meetings were held during 2023 as a part of the GSP management actions.
District Groundwater Advisory Committee	• Stakeholder Involvement • Groundwater Sustainability and Operations	Established as Committee of the board at meeting on November 13, 2012.
Participation in Kern Fan and Semitropic Monitoring Committees	• Stakeholder Involvement • Monitoring Programs • Groundwater Resource Protection • Groundwater Planning and Management	Committee meetings are held on a regular basis.
KCWA Participation	• Stakeholder Involvement • Monitoring Programs • Groundwater Sustainability and Operations • Groundwater Planning and Management	Ongoing participation in KCWA activities.
Cooperation with Banking Partners	• Stakeholder Involvement • Monitoring Programs • Groundwater Sustainability and Operations • Groundwater Planning and Management	Coordination of operations to maximize use of available water supplies.
Cooperation with Kern County Environmental Health, DWR, RWQCB and other regulatory agencies	• Stakeholder Involvement • Monitoring Programs • Groundwater Resource Protection	Work with Kern County Environmental Health to convert abandoned wells to monitoring wells. Provide water level information to DWR and KCWA.
Participation in Kern Groundwater Authority, Kern River Watershed Coalition Authority, Kern County Groundwater Management Committee, Kern IRWMG, Kern River Fan Group and other similar agencies	• Stakeholder Involvement • Groundwater Resource Protection • Groundwater Sustainability and Operations • Groundwater Planning and Management	Ongoing work to address issues of common concern for the groundwater basin and for the development of a GSP in accordance with SGMA requirements.
Cooperation with Urban Water Purveyors	• Stakeholder Involvement • Monitoring Programs • Groundwater Resource Protection • Groundwater Sustainability and Operations	Review of groundwater quality and groundwater level data. Review of Urban Water Management Plans. Evaluated purveyor and private water system consolidations.

Existing Management Actions	GMP Component Area(s)	Comments
Monitor groundwater levels in District.	• Monitoring Programs	Measured groundwater levels in 17 wells monthly.
Use of District Groundwater Model	• Monitoring Programs	Model is being used to analyze proposed recharge and recovery programs, predict water levels, and evaluate and mitigate impacts.
Review of groundwater level monitoring network	• Monitoring Programs	Monitoring well network is reviewed and updated as data gap locations are identified.
Add new wells to network	• Monitoring Programs	New monitoring wells are added to the network to replace wells that are lost.
Review of available groundwater quality data	• Monitoring Programs • Groundwater Resource Protection	Review of groundwater quality data was conducted during 2024.
Groundwater level monitoring protocols	• Monitoring Programs	Followed when monitoring groundwater levels in wells.
Flow measurement in District facilities	• Monitoring Programs	Surface and return water flows are measured into and through the District's facilities daily.
Review of surface water quality data	• Monitoring Programs • Groundwater Resource Protection	Surface water quality is monitored by the DWR, City of Bakersfield, and KCWA.
Encourage landowner compliance with water well standards	• Groundwater Resource Protection • Groundwater Sustainability and Operations	Work with Kern County Environmental Health to provide information to landowners on proper abandonment of wells.
Maintenance of channels and basins	• Groundwater Resource Protection • Groundwater Sustainability and Operations	Routine maintenance operations were conducted during 2024.
Review of development plans, land use plans, and environmental documents	• Groundwater Resource Protection • Groundwater Planning and Management	Comments are made to planning agencies as appropriate.
Require fencing with development	• Groundwater Resource Protection	Comments are made to planning agencies as land development occurs.
Protect facilities from urban and agricultural storm water runoff	• Groundwater Resource Protection	Performed ongoing maintenance of channel and basin levees.

Existing Management Actions	GMP Component Area(s)	Comments
Participate in Irrigated Lands Regulatory Program	• Groundwater Resource Protection • Groundwater Sustainability and Operations	Active in development of the Kern Watershed Coalition Authority. Encouraged landowner involvement in process
Encourage proper design and operation of storm drain, septic and wastewater systems	• Groundwater Resource Protection	Comments are made to planning agencies as appropriate.
Encourage proper use of pesticides, herbicides and fertilizers	• Groundwater Resource Protection • Groundwater Sustainability and Operations	Continued support of Mobile Lab and other educational efforts.
Operate project facilities to maximize conjunctive use of available water supplies	• Groundwater Sustainability and Operations	Made use of operational exchanges and coordination with other water agencies.
Encourage water conservation measures	• Stakeholder Involvement • Groundwater Sustainability and Operations	Continued support of Mobile Lab and other educational efforts.
Protect potential recharge areas from development	• Groundwater Resource Protection • Groundwater Planning and Management	Recharge areas are protected from development.
Notice availability of Groundwater Reports	• Stakeholder Involvement • Groundwater Planning and Management	Reports are available on the District's website.
Monitoring programs for groundwater banking program operations	• Monitoring Programs • Groundwater Resource Protection	Monitoring programs were followed for banking program operations.
Groundwater quality monitoring program protocols	• Monitoring Programs	Followed standard groundwater quality test methods and procedures.
Program funding	• Groundwater Planning and Management	Service charges and banking program proceeds are used to fund management actions.
District Operations Report	• Groundwater Planning and Management	Report prepared for 2024.
Groundwater Advisory Committee meetings	• Stakeholder Involvement • Groundwater Sustainability and Operations • Groundwater Planning and Management	Conduct annual meeting to discuss District Operations Report.
Update of Groundwater Model	• Monitoring Programs	Update model as necessary to include new facilities and programs.
Add Shallow Depth Piezometers	• Monitoring Programs	Shallow depth piezometers are planned adjacent to Allen Road basins.

Existing Management Actions	GMP Component Area(s)	Comments
District Wellhead protection	• Groundwater Resource Protection	Protect wellhead during operations and maintenance of District wells.
Prevention of Saline Water Intrusion	• Groundwater Resource Protection	Monitor saline water intrusion in adjacent areas.
Acquire additional recharge land	• Groundwater Sustainability and Operations • Groundwater Planning and Management	Identify potential recharge land for possible purchase.
Investigate future use of reclaimed water	• Groundwater Sustainability and Operations	Work with NORSD to investigate potential recharge of reclaimed water.
GSP Plan Chapter for the RRBMA	• Groundwater Planning and Management	Annual Report for 2024 prepared for RRBMA
Investigate grant funding options	• Groundwater Planning and Management	Applied for Water Storage Investment Program Grant funding in conjunction with IRWD for Kern Fan Groundwater Storage Project

SECTION 8 – SUMMARY OF RRBWSD BANKING PROGRAM CEQA DOCUMENTS

Groundwater Storage, Banking, Exchange, Extraction and Conjunctive use Program Master EIR (2000) SCH#2000101059

- Up to 100,000 AFY recharge and over 300,000 AF of groundwater storage volume used for programs.
- Construction of 15 to 20 wells, extraction capacity of 35,000 to 45,000 AFY.
- Recharge in advance of extraction. Water supplies from SWP, Kern River, Friant-Kern Canal, or other sources.
- Program goal that for each acre foot of water extracted, one acre foot would remain in District (2:1 program).
- Expects that a MOU will be entered into and a monitoring committee will be established.
- States that as details of each project are defined, site specific environmental reviews per CEQA will be conducted.

Master EIR Addendum No. 1

- The program consists of proposed projects that will increase groundwater supply within the Rosedale-Rio Bravo Water Storage District. Future projects include wells and pipelines to extract and convey banked water from the District's Goose Lake Slough area and recharge basins to the Cross Valley Canal.
- Sources of water include the Kern River, State Water Project, and Friant-Kern Canal water.
- Available storage capacity underlying the District is 930,000 AF (per “Determination of Aquifer Storage Capacity” by Sierra Scientific Services, January 20, 2003).

Master EIR Addendum No. 2

- Addendum No. 2 is intended to update the Master FEIR with respect to available storage capacity (1,756,900 AF) and maximum recharge capacity (234,549 AFY) available to Rosedale for Project and other purposes as of the date hereof.
- The extraction capacity described in the Master FEIR has been fully subscribed by one or more projects relying thereon. The Master FEIR contemplated construction of up to 20 wells to provide extraction recovery capacity of up to 45,000 AFY. The extraction recovery capacity identified in the Master FEIR has been fully subscribed as follows: Kern-Tulare/Rag Gulch project (7,500 AFY); Arvin-Edison/Delano-Earlimart project (10,000 AFY); GLC sale project/Castaic Lake Water Agency Banking project (20,000 AFY); Rosedale/Buena Vista Project (8,250 AFY).

Master EIR Addendum No. 3 “Master Integrated”

- Within the confines of the broad parameters described in Addendum No. 3, Rosedale is free to make operational decisions based on best management practices. This includes the interim use of surplus capacity in existing facilities to accommodate emergency programs, short-term (five years or less) programs, and spot market opportunities. Any such operational decision instituted under the auspices of the Master FEIR would not infringe upon existing contractual commitments, would not expand the annual limits for storage, recharge or recovery, and would comply with the following stipulations:
    - A contractor wanting to transfer, store or exchange water would negotiate and execute a contract for the delivery of water with Rosedale for recharge in the Rosedale facilities.
    - The participant would negotiate and execute an exchange/water supply agreement with Rosedale that would provide for the delivery of the water and for the extraction or exchange of the water when the water is returned to the participating entity.
    - Water would be returned to the contractors via the CVC, SWP, or a combination of the two using Rosedale's entitlement or other capacities available for the proposed projects. Actual operations would be defined as individual projects are developed.
    - The entity receiving water would put that water to beneficial use. Water stored in the groundwater aquifer underlying Rosedale would be extracted for delivery to the participants through wells, pipelines and canals to the CVC. Alternatively, Rosedale could agree to a transfer of its SWP entitlement, or other water supplies available to Rosedale, and transfer the banked water to Rosedale's account underground thereby eliminating the need for any direct extraction within Rosedale.

BVWSD/RRBWSD Water Banking and Recovery Program EIR (2002) SCH#2002041044

- 25% of groundwater banking from existing accounts in BVWSD.
- 75% from accounts developed primarily from recharge of BVWSD Kern River high flow water in RRBWSD.
- 100% of recovery for first two years will be from previously banked water in BVWSD. Thereafter, recovery will be made jointly by RRBWSD and BVWSD from the previously banked accounts and the accounts to be developed through recharge within RRBWSD.
- More than 80,000 AFY could be recharged in RRBWSD. Recovery/delivery may be more than 20,000 AFY.
- Primary method of recovery/delivery will be via SWP exchange. RRBWSD to construct three additional extraction wells, and possibly replace two existing wells (Westside Well Field).
- Maximum program storage of 200,000 AF in RRBWSD.
- New recharge basins to be constructed for 200-300 cfs additional capacity (includes Paul Enns and Fanucchi basins).

Banking Partner	Type	Max Recharge[1] (AFY)	Max Extraction[2] (AFY)	# of Wells	Max Storage[3] (AF)
BVWSD (SCVWA)	Sale	80,000	15,000	3	200,000

[1]Maximum recharge from BVWSD in RRBWSD.

[2]Maximum return from RRBWSD (primarily from SWP exchange). SCVWA recovery by contract is 8,250 AFY.

[3]Maximum storage in RRBWSD.

GLC Banking and Recovery Program Negative Declaration (2003) SCH#2003091083

- Development of recharge areas for total District capacity of 600 cfs
- Sale of total of 220,000 AF to GLC according to buildup schedule, maximum delivery of 9,500 AFY.
- Maximum delivery of 20, 000 AFY with MWD exchange.
- 10 additional extraction wells to be constructed (8 new and replacement, Westside Well Field).

GLC Program Addendum No. 1 to Negative Declaration

- Increases the total sale quantity to 262,500 AF if sufficient water supplies are available.

Kern Tulare and Rag Gulch Groundwater Banking- Allen Road Wellfield (AEWSD) Negative Declarations (2001) SCH#2001111160

- Construction of a total of 7 extraction wells (20,500 AFY).
- 2:1 Groundwater Banking Programs
- Provides for the construction of a monitoring well.

Banking Partner	Type	Max Recharge (AFY)	Max Extraction (AFY)	# of Wells	Max Storage[5] (AF)
Kern-Tulare/Rag Gulch WD	2:1 Banking	20,000	10,000	3	50,000
Arvin-Edison WSD	2:1 Banking	30,000	10.500	4	90,000
Castaic Lake WA (SCVWA)	Banking	20,000	20,000	8	100,000
GLC (CVWD)	Sale	N/A	9,500[4]	3	N/A
Total		70,000	50,000	18	240,000

[4] Water will be sent to GLC at RRBWSD's discretion. Deliveries will be made to GLC by exchange of SWP supplies in above normal years for high flow Kern River water previously brought to RRBWSD. Pumping would not occur if a positive balance did not exist within the RRBWSD. Pumping would also be limited to keep the total pumping for the programs covered by the Master EIR under 45,000 AF in any one year (pumping in excess of 45,000 AFY would require additional CEQA).

[5] Maximum storage for Kern-Tulare and Arvin Edison estimated based on operations studies.

Note: Negative Declarations were prepared for the Kern-Tulare, Arvin-Edison, and GLC programs. The facilities needed for the Castaic Lake Program were included in these previous environmental reviews. The Negative Declaration for the GLC program included the construction of approximately 10 wells (20,000 AFY) and the acquisition and improvement of additional recharge lands (to bring RRBWSD recharge capacity to 600 cfs).

Delano-Earlimart Irrigation District's Water Banking Program with Rosedale-Rio Bravo Water Storage District Negative Declaration (2009) SCH#2009071108

- 2:1 Groundwater Banking Program
- No construction of new facilities

Banking Partner	Type	Max Recharge (AFY)	Max Recovery (AFY)	# of Wells	Max Storage (AF)
Delano-Earlimart ID (DEID)	2:1 Banking	80,000	10,000	0	100,000

Western Rosedale In-Lieu Service Area Recharge Ponds Expansion Mitigated Negative Declaration (2014) SCH#2014101016

- Construction and operation of up to ten (10) miles of water conveyance pipelines; the pipelines would extend from the East Side Canal to various locations within the In-Lieu Service Area.
- Construction and operation of two recharge ponds, totaling approximately 55 acres.
- The maximum recharge under the Master FEIR shall be increased by up to 15,000 AFY through the operation of the Project. This includes approximately 10,000 AF through in-lieu recharge and direct recharge in the existing sump, and 5,000 AF through direct recharge in the two proposed groundwater recharge ponds adjacent to the existing Westside Recharge Area.

Strand Ranch Integrated Banking Project EIR (Not Tiered from Master EIR) (2007) SCH#2007041080

- Rosedale and IRWD propose to develop groundwater banking facilities on the Strand Ranch for use by both districts.
- Facilities would be constructed to recharge and recover up to 17,500 AFY for IRWD. When not in use by IRWD, the facilities could also be used by Rosedale to serve its existing commitments.
- IRWD would be provided a cumulative maximum banking allotment (maximum storage capacity) within Rosedale's Conjunctive Use Program of 50,000 AF.
- All groundwater banking facilities on the Strand Ranch would be owned by IRWD and operated and maintained by Rosedale for the duration of the proposed project.

Stockdale Integrated Banking Project EIR (Not Tiered from Master EIR) (2015) SCH#2013091076

- Construction of Stockdale East, Stockdale West and the Central Intake Pipeline.
- Establishes storage for Stockdale West of approximately 26,000 AF and Stockdale East of approximately 18,400 AF.
- IRWD would have access to an additional 50,000 AF of storage in Rosedale's Conjunctive Use Program.
- Recharge capacities for the Stockdale Properties is approximately 27,100 AFY for Stockdale West and approximately 19,000 AFY for Stockdale East.
- Recovery of approximately 11,250 AFY at Stockdale West and 7,500 AFY at Stockdale East.
- A third proximate site of up to 640 acres may have recharge capacities of approximately 52,200 AFY and recovery of approximately 22,500 AFY was covered as programmatic.
- Central Intake Pipeline would connect the Goose Lake Slough to the CVC and recharge water to Stockdale East and the existing Superior Basins, and for delivery of water pumped from Stockdale East and Superior Basins to the CVC.

Addendum No. 1 to Stockdale Integrated Banking Project EIR (2020)

- Construction and operation of recharge ponds on four parcels totaling approximately 315 acres.

These facilities expand the District's maximum annual recharge by 61,000 AFY to 290,000 AFY and increase the maximum banking capacity to 700,000 AF (Note: the referenced maximum annual recharge and maximum banking capacity did not include the DEID banking program Negative Declaration).

Addendum No. 2 to the Stockdale Integrated Banking Project EIR (2022)

- This Addendum clarifies Addendum No. 1 and amends construction and operation of recharge ponds down to 285 acres.
- Includes the construction and operation of 3 new wells and pipelines adding about 7,500 AF of annual recovery on these properties.

A “Fallow Transfer Program” was also included in the project which takes the water savings resulting from conversion of the McCaslin property from an almond orchard to recharge facilities and allows the District to make Third Party Exchanges for water supply and/or financial payments.

Kern Fan Groundwater Storage Project EIR (2020) SCH#2020049019

- Construction of recharge ponds in two phases totaling approximately 1,300 acres. Project recharge capacity of approximately 100,000 AFY.
- Project storage available to RRBWSD and IRWD is estimated to be a minimum of 37,500 AF each.
- Twenty-five percent storage allocation (25,000 AF) to Ecosystem Benefit Pool (1:1 Exchange).
- Construction of up to 12 recovery wells on Kern Fan Project Properties with an anticipated annual recovery capacity of up to 50,000 AF.
- Construction of Kern Fan Conveyance Facilities consisting of canals and/or pipelines, pump stations, and a new turnout at the California Aqueduct with a target capacity of up to 500 cfs.

Banking Partner/Project	Type	Max Recharge (AFY)	Max Extraction (AFY)	# of Wells	Max Storage (AF)
IRWD Strand	Banking	17,500	17,500	8	50,000
IRWD Stockdale West	Banking	27,100	11,250	3	76,000
RRBWSD Stockdale East	Banking	19,000	7,500	2	18,400
RRBWSD Western Rosedale	Banking	15,000			
Addenda to Stockdale Integrated Banking Project EIR	Banking	61,000	7,500	3	115,600
Kern Fan Groundwater Storage Project	Banking	100,000	50,000	12	100,000
Total		239,600	93,750	28	360,000
Maximums per All Project Level CEQA		**469,600**	**168,750**	**49**	**900,000**

Onyx Ranch South Fork Valley Water Project (2020) SCH#2018021061

- Change in points of diversion of pre-1914 appropriative water rights from the South Fork Valley to or near the RRBWSD service area.
- Fields would be converted from intensive irrigated agriculture to non-irrigated pasture or native vegetation.
- Water supplies intended to mitigate for shortages experienced on contracted SWP supplies from the State of California.

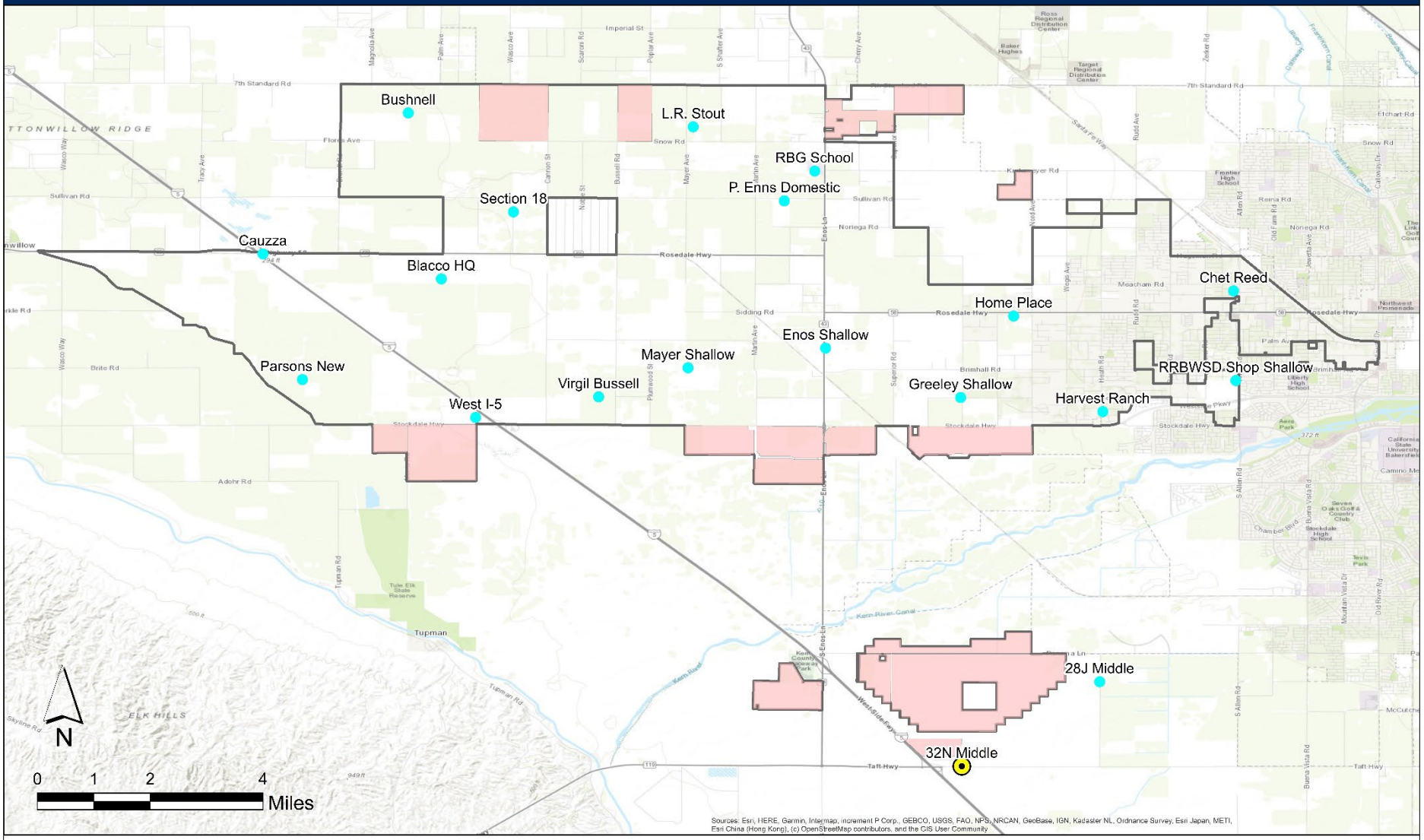
SECTION 9 – REFERENCES

1. AECOM, *Rosedale-Rio Bravo Water Storage District Groundwater Management Plan,* February 2013.
2. Boyle Engineering Corporation, *Final Master Environmental Impact Report Groundwater Storage, Banking, Exchange, Extraction & Conjunctive Use Program Rosedale-Rio Bravo Water Storage District*, July 2001.
3. Boyle Engineering Corporation, *Rosedale-Rio Bravo Water Storage District Report on Groundwater Recharge Project*, June 1988.
4. ESA, *Rosedale-Rio Bravo Water Storage District Environmental Compliance Summary of District Operations Including Groundwater Banking and Sales Programs,* April 2011.
5. ESA, *Kern Fan Groundwater Storage Project Final Environmental Impact Report,* December 2020.
6. Longley, K. E., *West Bakersfield Area Ground Water Quality Management Study Final Report*, August 1990.
7. Kern County Subbasin Groundwater Sustainability Agencies, *Kern County Subbasin Groundwater Sustainability Plan 2025 Amended Final Version,* August 2025.
8. Rosedale-Rio Bravo Water Storage District, *Groundwater Sustainability Plan Chapter for the Rosedale-Rio Bravo Management Area, Kern Groundwater Authority Groundwater Sustainability Agency,* December 12, 2019.
9. Rosedale-Rio Bravo Water Storage District, *2020 Revision Groundwater Sustainability Plan Chapter for the Rosedale-Rio Bravo Management Area, Kern Groundwater Authority Groundwater Sustainability Agency,* July 12, 2022.
10. State of California Water Resources Control Board, California Public Water Systems online database (SDWIS), https://sdwis.waterboards.ca.gov/PDWW/.
11. Todd Groundwater, *Kern Subbasin Groundwater Sustainability Plans Sixth Annual Report Water Year 2024,* March 31, 2025.
12. Water Education Foundation, *The 2014 Sustainable Groundwater Management Act: A Handbook to Understanding and Implementing the Law*, 2015.

Appendix 1

Groundwater Level Hydrographs

Rosedale-Rio Bravo Water Storage District GSA Groundwater Level Monitoring Network
Bakersfield, CA



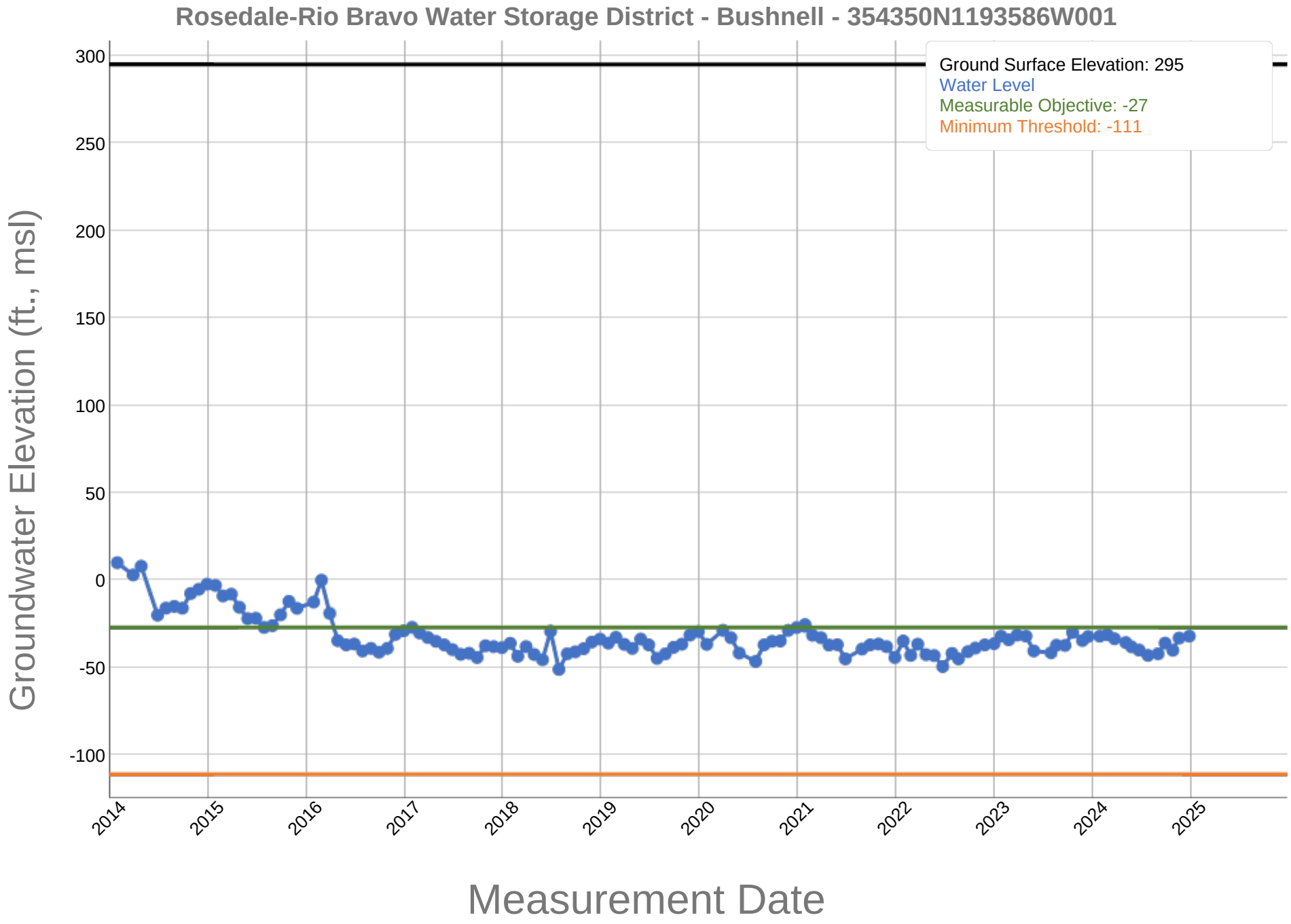
Legend

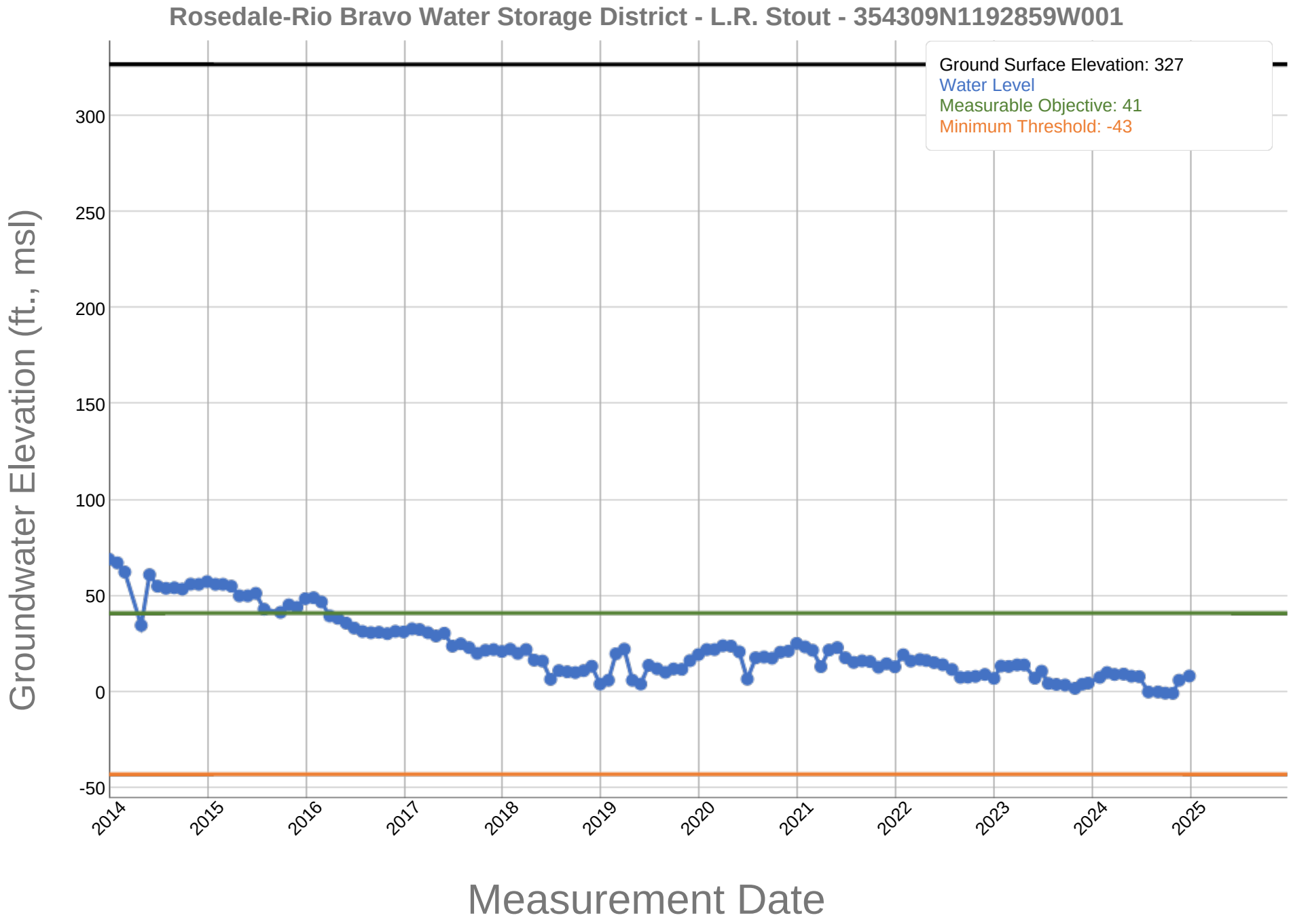
- Water Level Representative Monitoring Wells (RMWs)
- RRBWSD GSA White Lands
- RRBWSD GSA Boundary

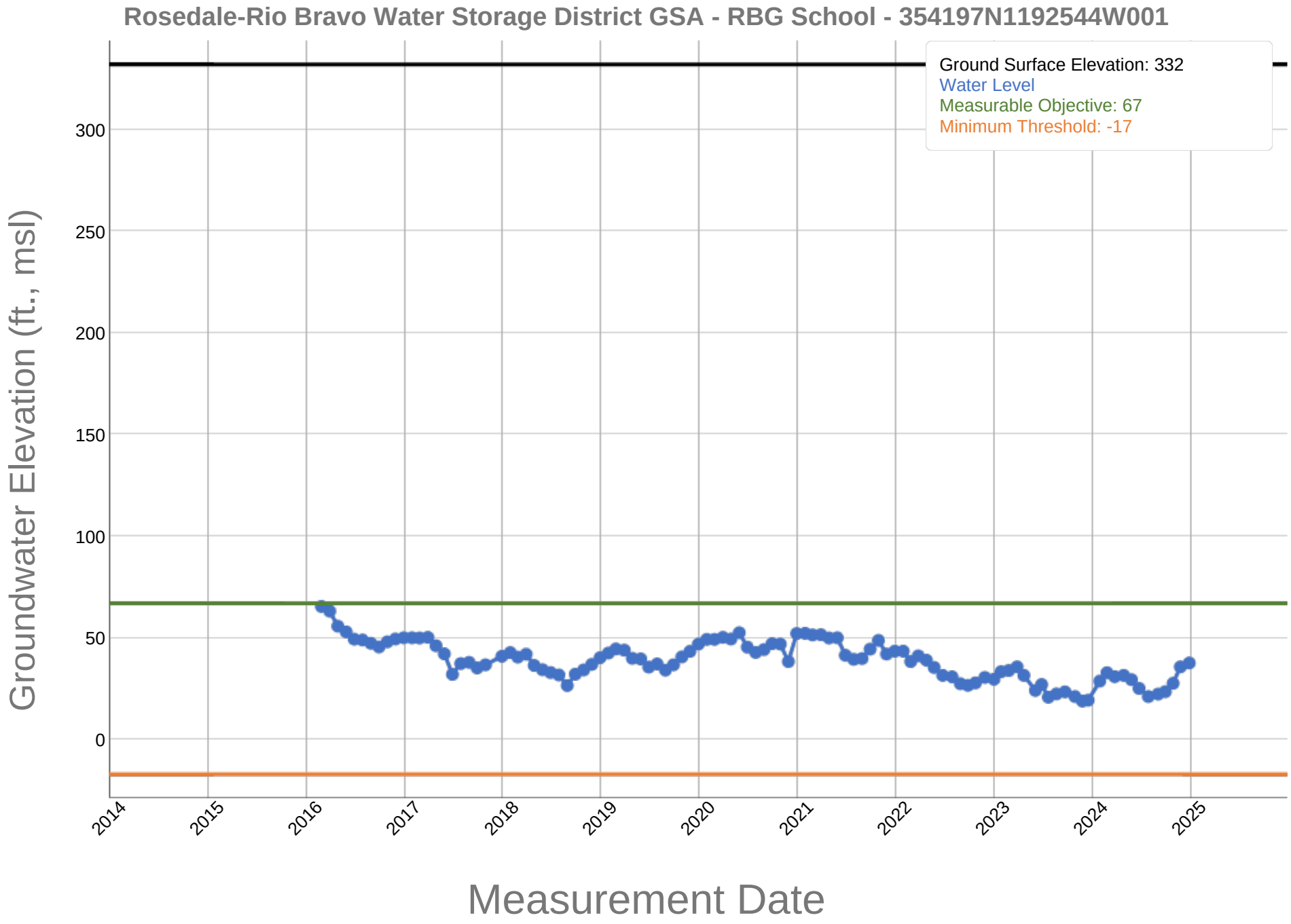
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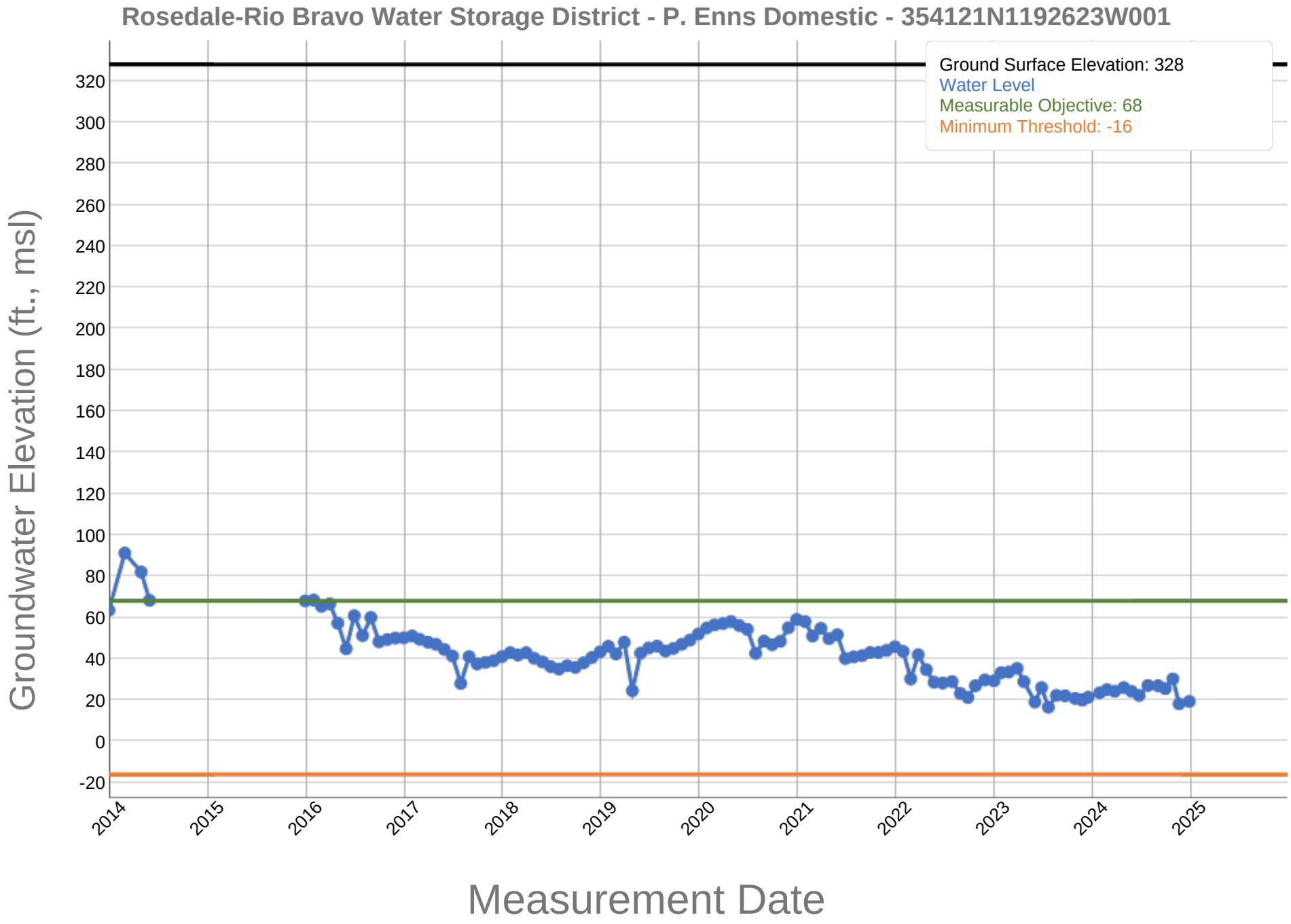
RRBWSD GSA

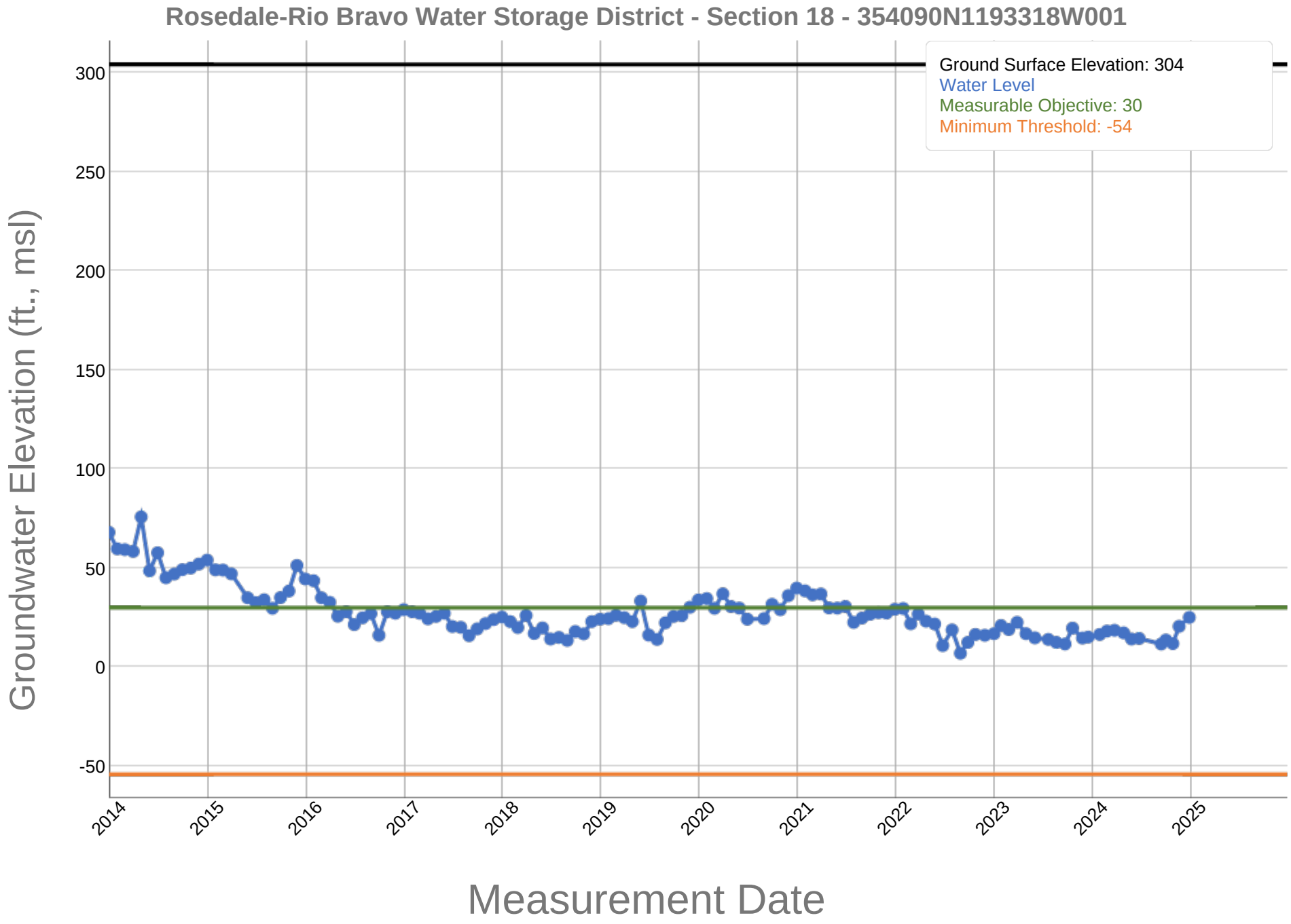
ROSEDALE RIO BRAVO WATER STORAGE DISTRICT
GROUNDWATER SUSTAINABILITY AGENCY

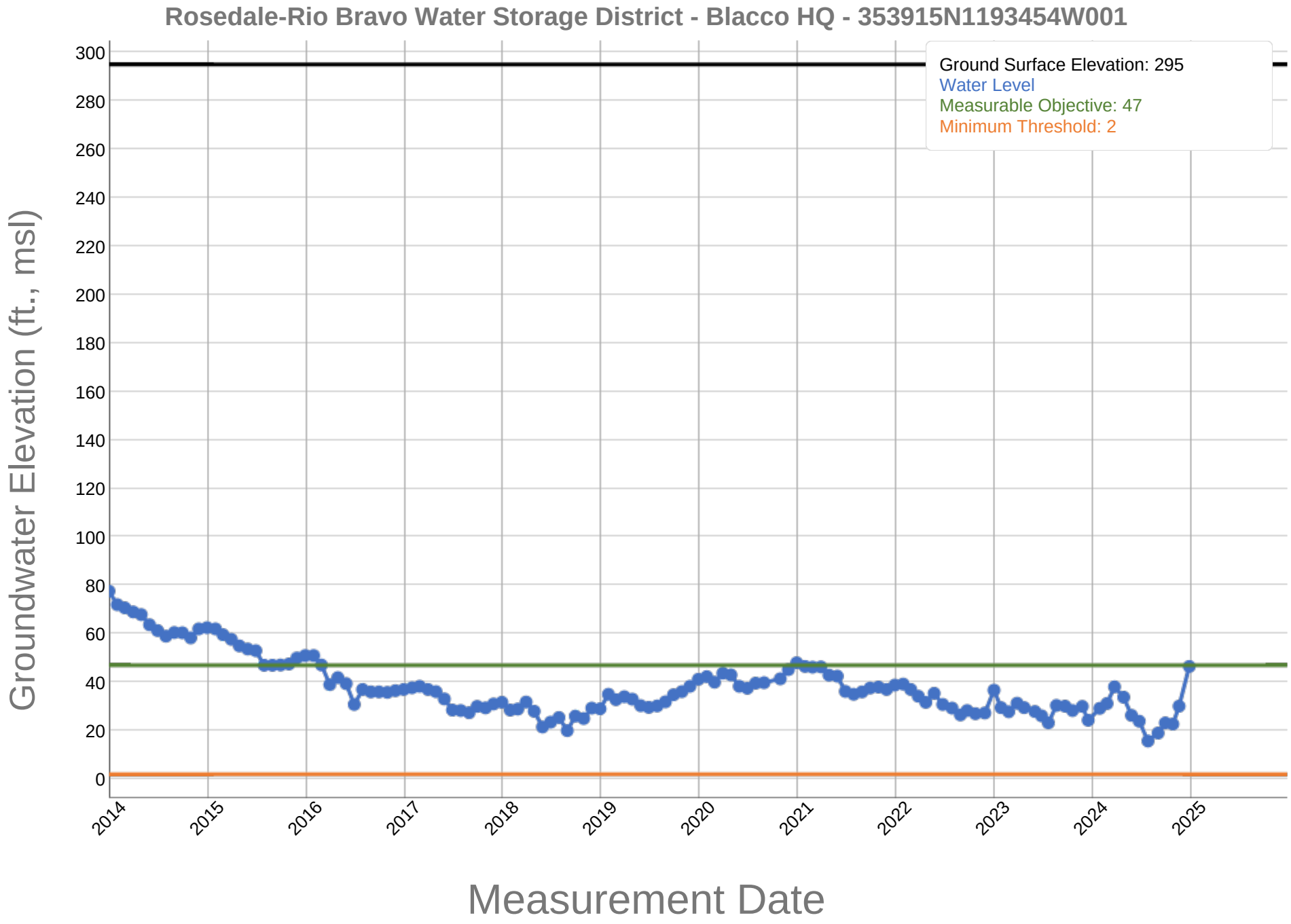

Rosedale-Rio Bravo Water Storage District - Bushnell - 354350N1193586W001
Ground Surface Elevation: 295
Water Level
Measurable Objective: -27
Minimum Threshold: -111
Groundwater Elevation (ft., msl)
300
250
200
150
100
50
0
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-100
2014
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Measurement Date

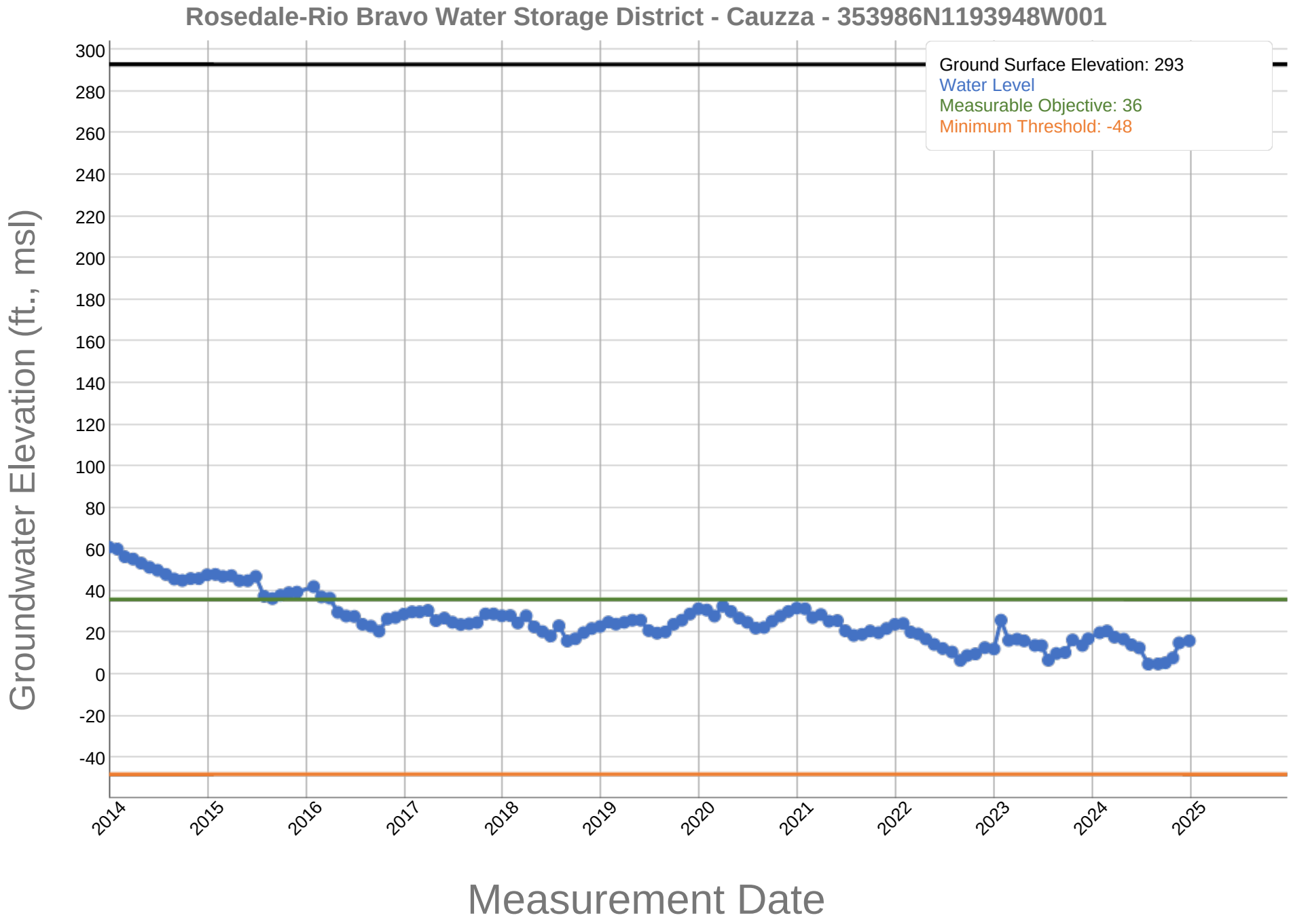

Rosedale-Rio Bravo Water Storage District - L.R. Stout - 354309N1192859W001
Ground Surface Elevation: 327
Water Level
Measurable Objective: 41
Minimum Threshold: -43
Groundwater Elevation (ft., msl)
300
250
200
150
100
50
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-50
2014
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Measurement Date

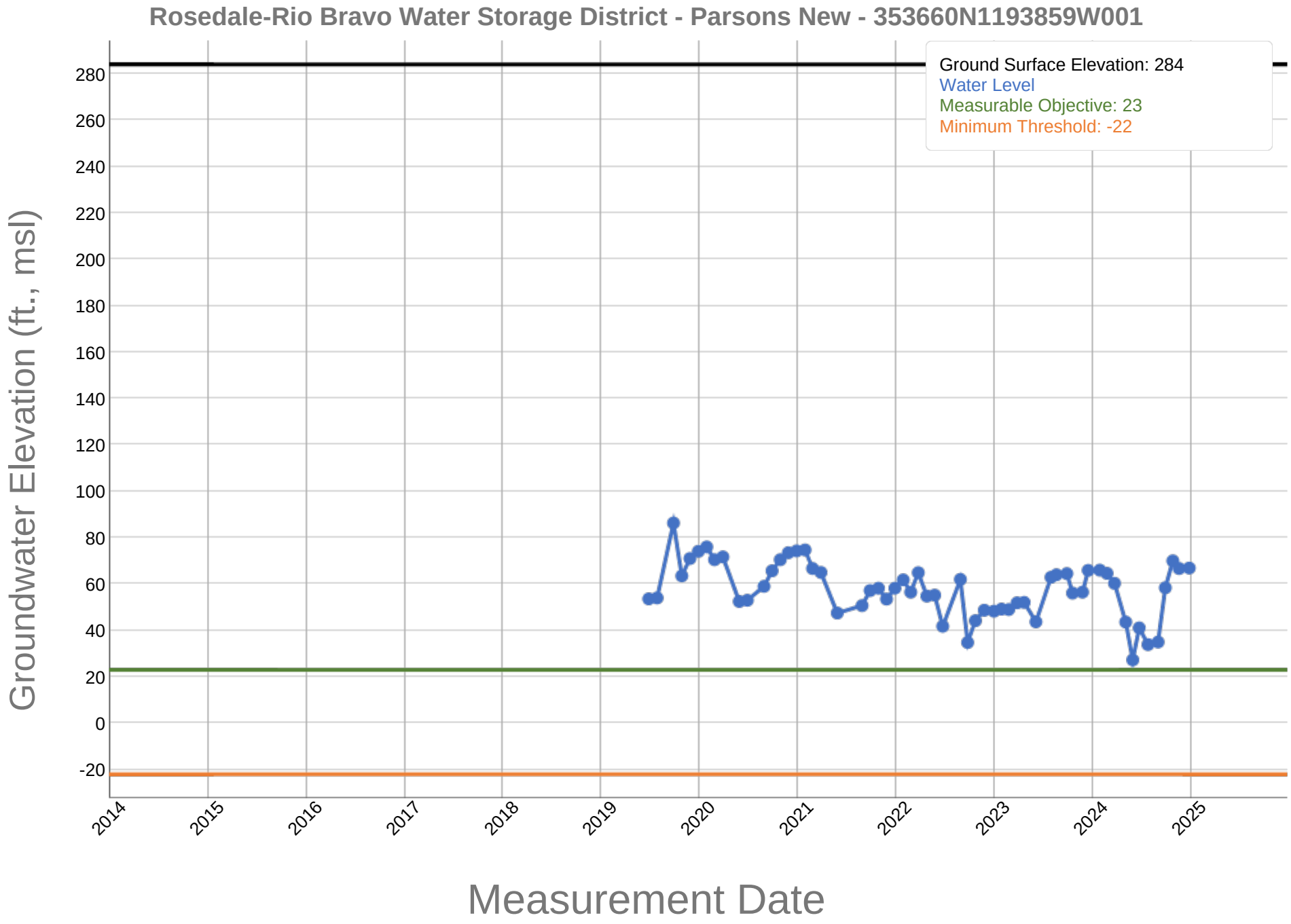

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Water Level
Measurable Objective: 67
Minimum Threshold: -17
Groundwater Elevation (ft., msl)
300
250
200
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100
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Measurement Date

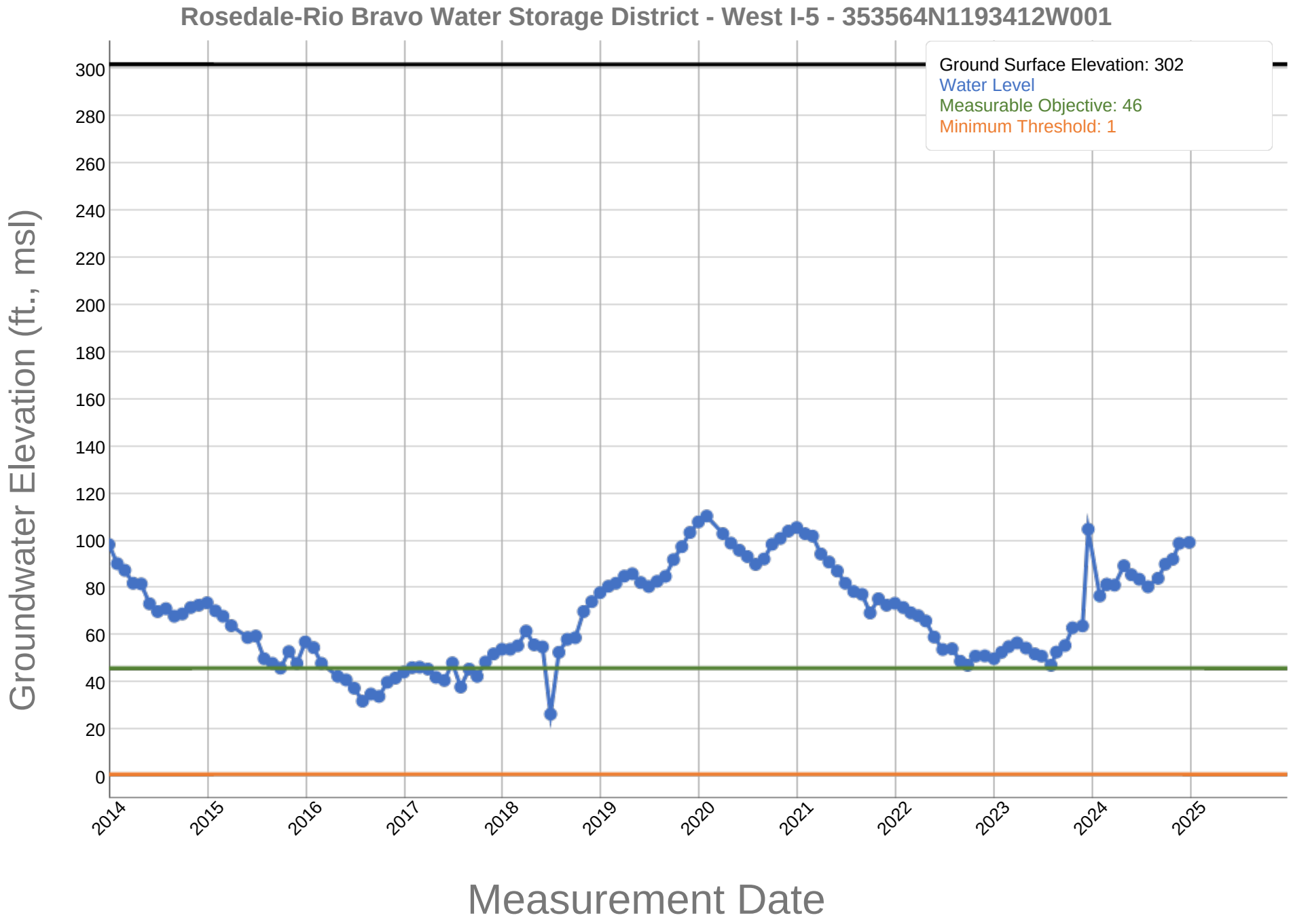

Rosedale-Rio Bravo Water Storage District - P. Enns Domestic - 354121N1192623W001
Ground Surface Elevation: 328
Water Level
Measurable Objective: 68
Minimum Threshold: -16
Groundwater Elevation (ft., msl)
320
300
280
260
240
220
200
180
160
140
120
100
80
60
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Measurement Date

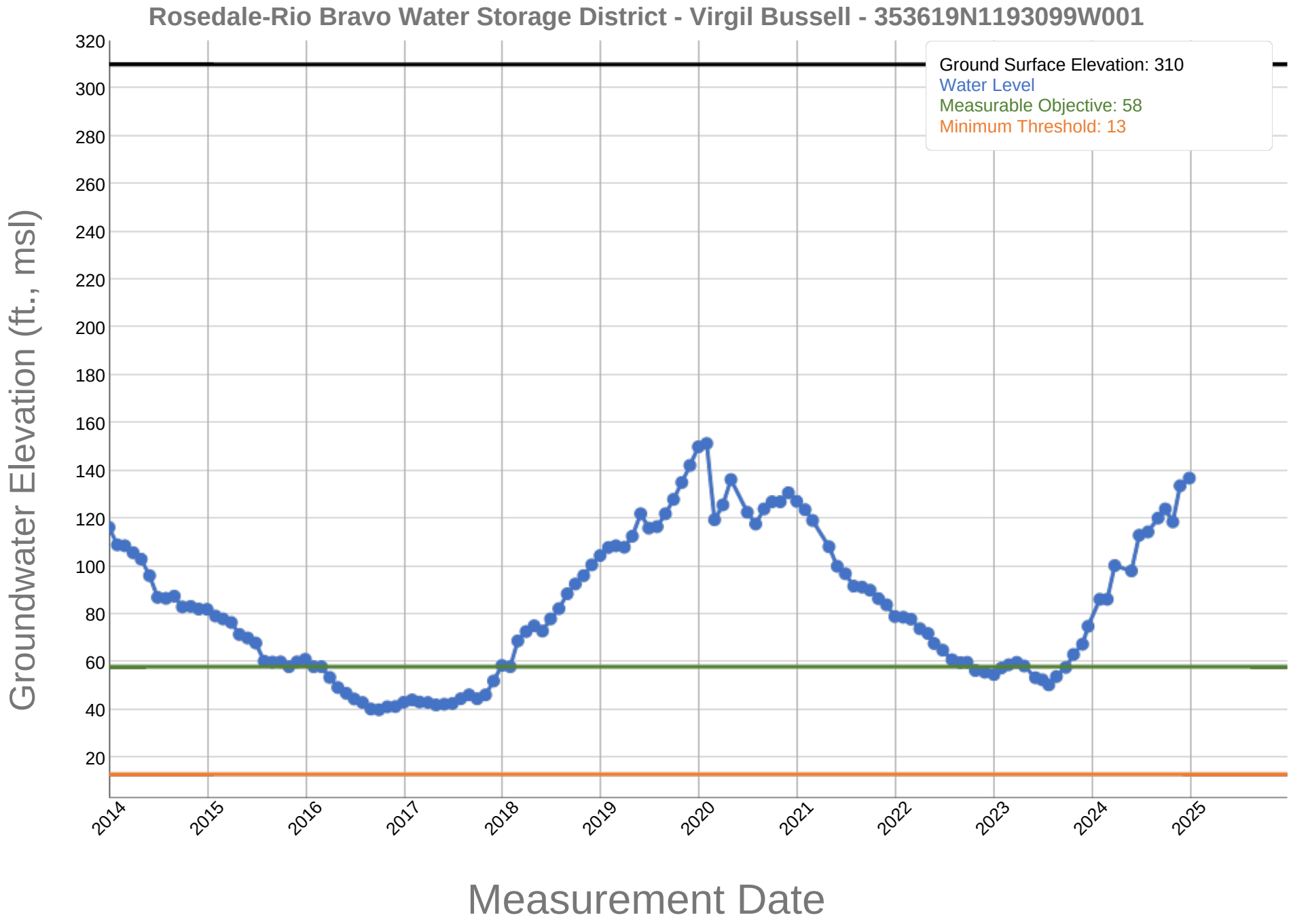

Rosedale-Rio Bravo Water Storage District - Section 18 - 354090N1193318W001
Ground Surface Elevation: 304
Water Level
Measurable Objective: 30
Minimum Threshold: -54
Groundwater Elevation (ft., msl)
300
250
200
150
100
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-50
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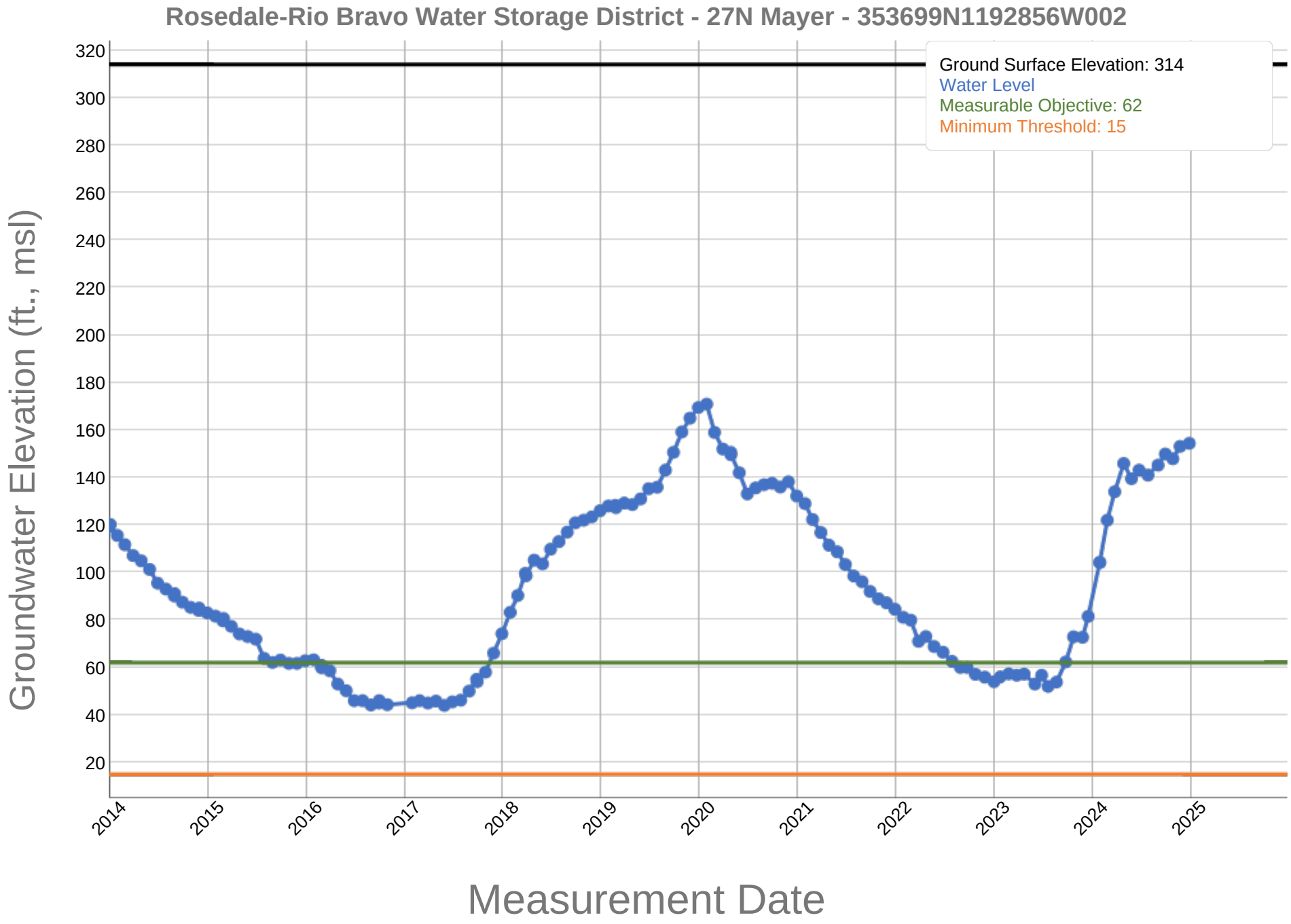

Rosedale-Rio Bravo Water Storage District - Blacco HQ - 353915N1193454W001
Ground Surface Elevation: 295
Water Level
Measurable Objective: 47
Minimum Threshold: 2
Groundwater Elevation (ft., msl)
300
280
260
240
220
200
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160
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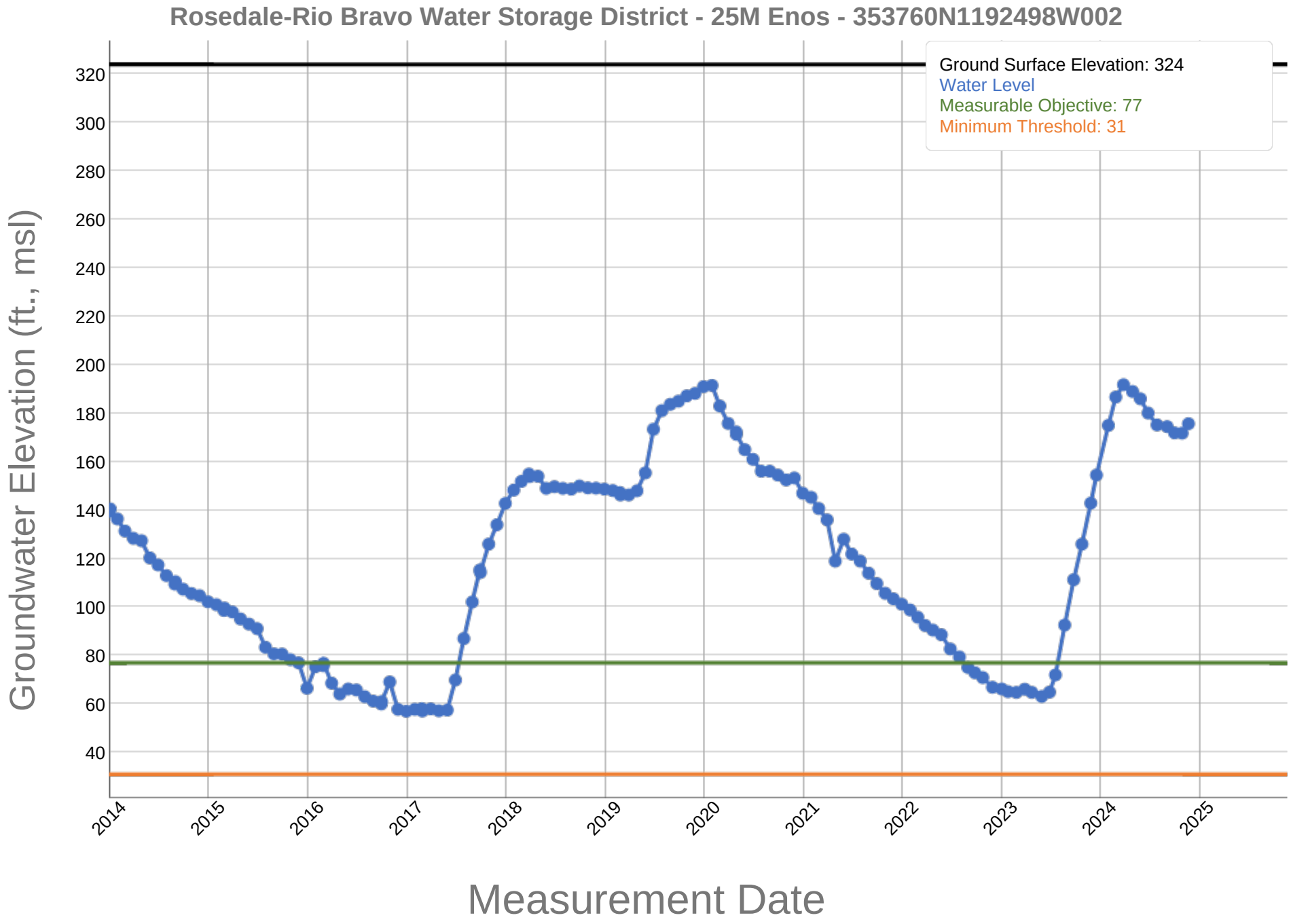

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Ground Surface Elevation: 293
Water Level
Measurable Objective: 36
Minimum Threshold: -48
Groundwater Elevation (ft., msl)
300
280
260
240
220
200
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160
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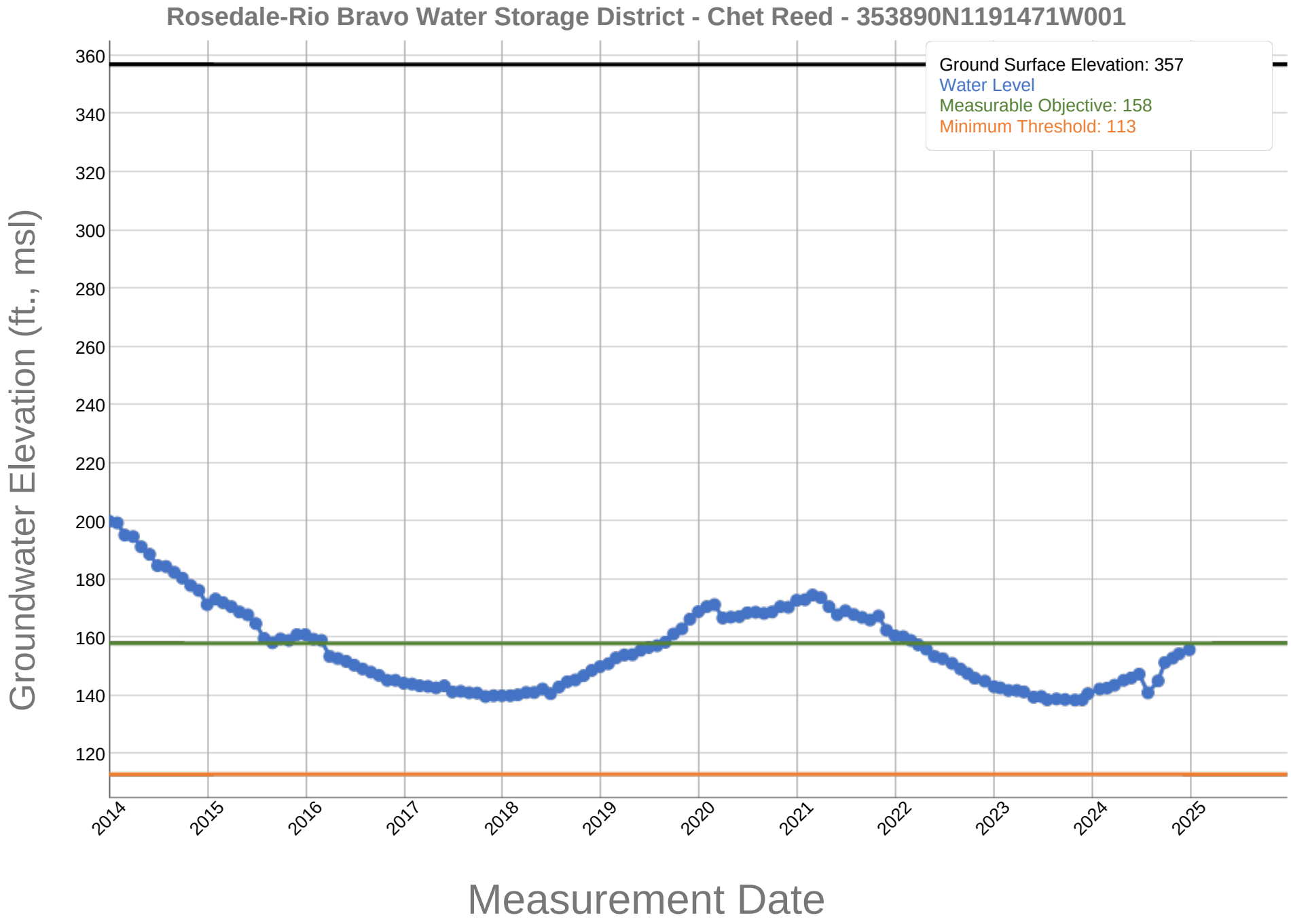

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Ground Surface Elevation: 284
Water Level
Measurable Objective: 23
Minimum Threshold: -22
Groundwater Elevation (ft., msl)
280
260
240
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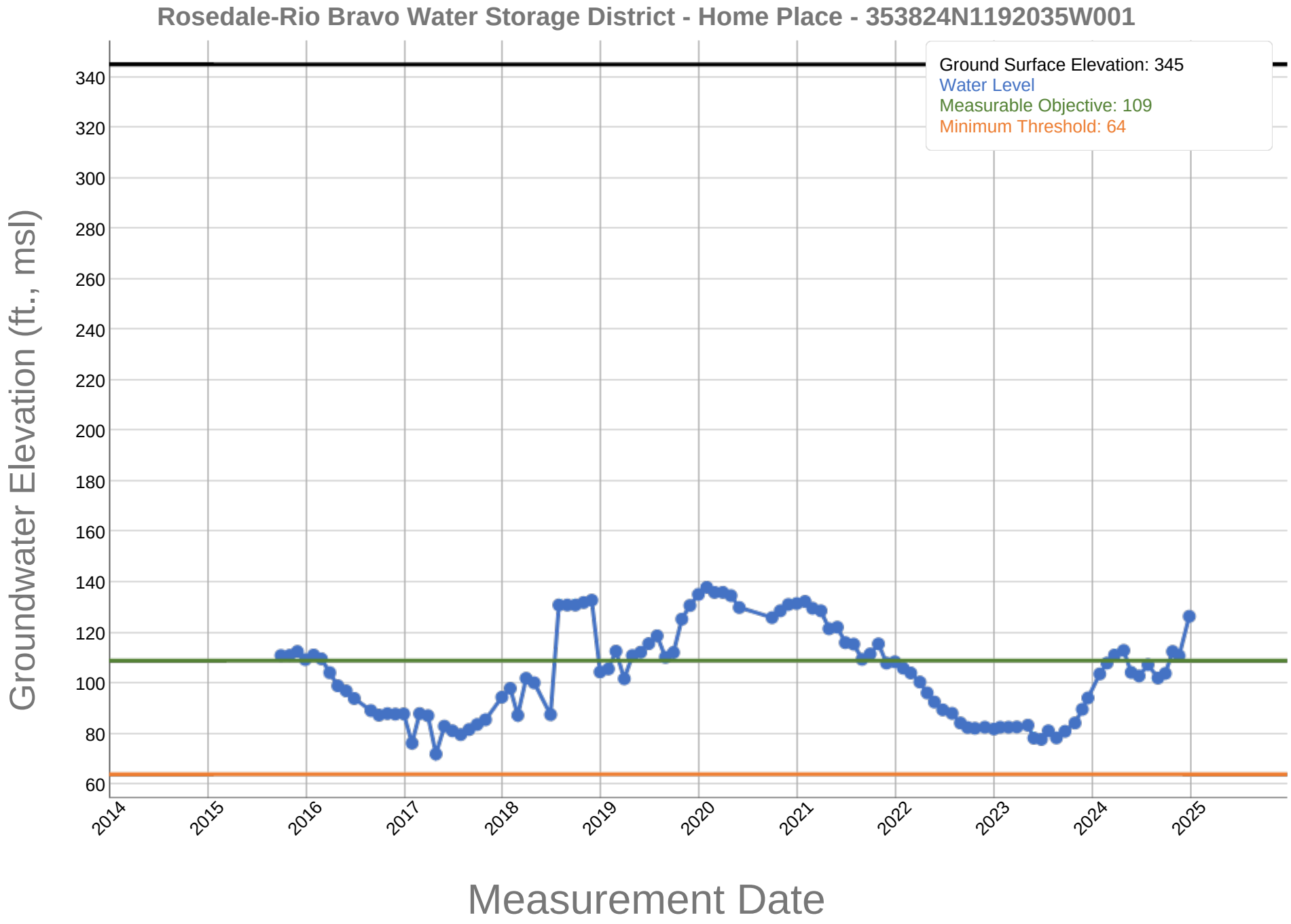

Rosedale-Rio Bravo Water Storage District - West I-5 - 353564N1193412W001
Ground Surface Elevation: 302
Water Level
Measurable Objective: 46
Minimum Threshold: 1
Groundwater Elevation (ft., msl)
300
280
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200
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160
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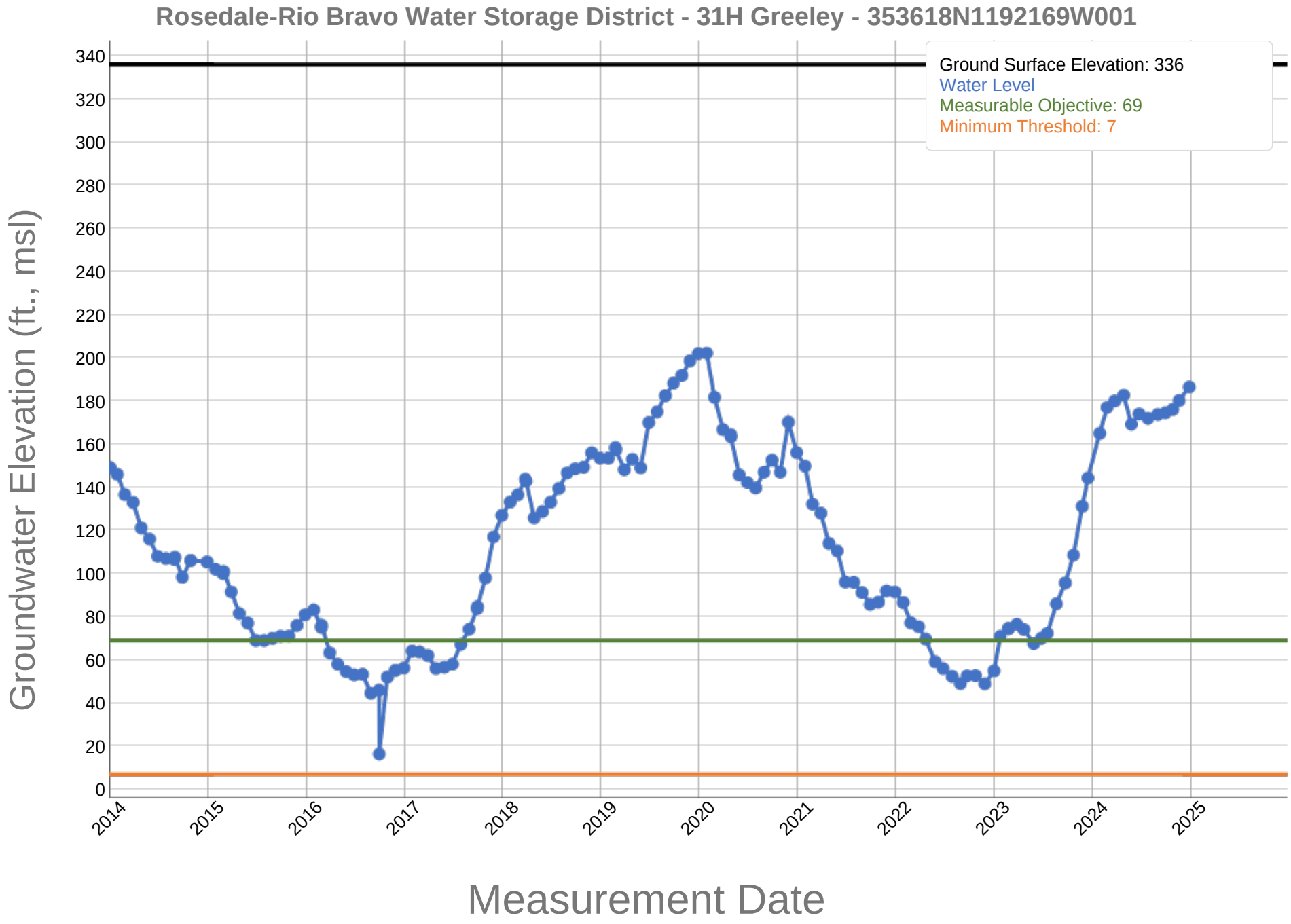

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Ground Surface Elevation: 310
Water Level
Measurable Objective: 58
Minimum Threshold: 13
Groundwater Elevation (ft., msl)
320
300
280
260
240
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180
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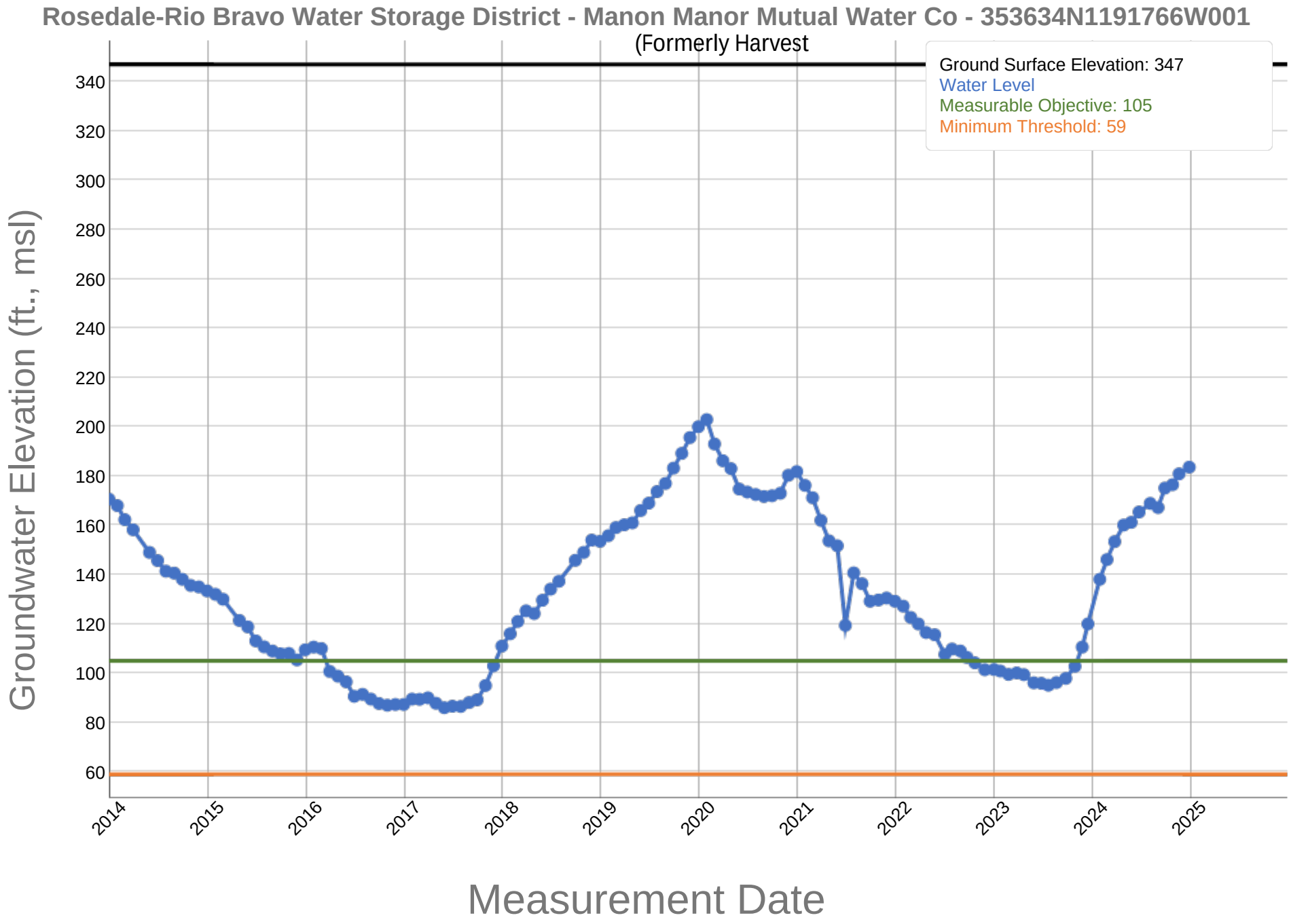

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Ground Surface Elevation: 314
Water Level
Measurable Objective: 62
Minimum Threshold: 15
Groundwater Elevation (ft., msl)
320
300
280
260
240
220
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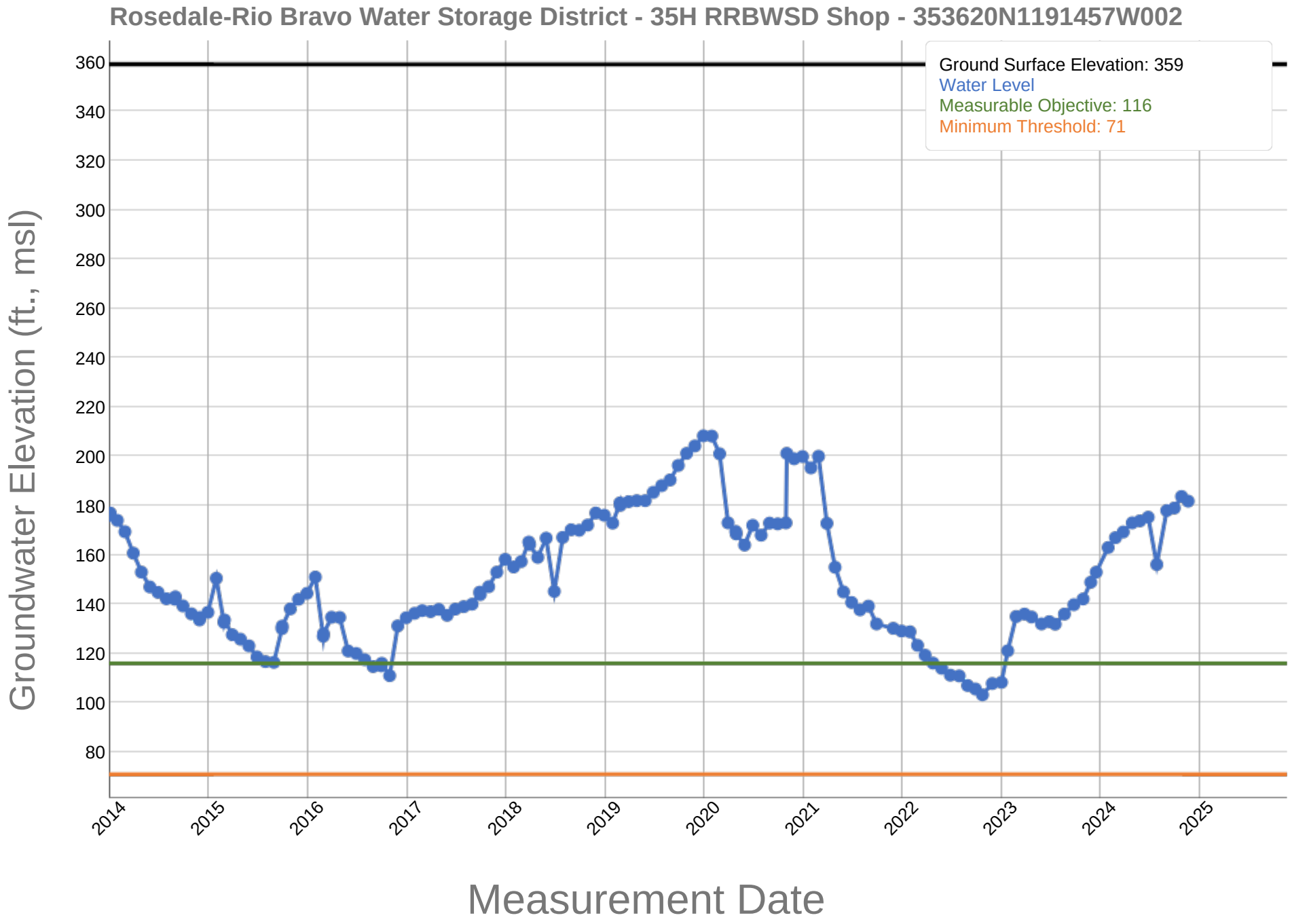

Rosedale-Rio Bravo Water Storage District - 25M Enos - 353760N1192498W002
Ground Surface Elevation: 324
Water Level
Measurable Objective: 77
Minimum Threshold: 31
Groundwater Elevation (ft., msl)
320
300
280
260
240
220
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180
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Measurement Date


Rosedale-Rio Bravo Water Storage District - Chet Reed - 353890N1191471W001
Ground Surface Elevation: 357
Water Level
Measurable Objective: 158
Minimum Threshold: 113
Groundwater Elevation (ft., msl)
360
340
320
300
280
260
240
220
200
180
160
140
120
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Measurement Date


Rosedale-Rio Bravo Water Storage District - Home Place - 353824N1192035W001
Ground Surface Elevation: 345
Water Level
Measurable Objective: 109
Minimum Threshold: 64
Groundwater Elevation (ft., msl)
340
320
300
280
260
240
220
200
180
160
140
120
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Measurement Date


Rosedale-Rio Bravo Water Storage District - 31H Greeley - 353618N1192169W001
Ground Surface Elevation: 336
Water Level
Measurable Objective: 69
Minimum Threshold: 7
Groundwater Elevation (ft., msl)
340
320
300
280
260
240
220
200
180
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140
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Measurement Date


Rosedale-Rio Bravo Water Storage District - Manon Manor Mutual Water Co - 353634N1191766W001
(Formerly Harvest
Ground Surface Elevation: 347
Water Level
Measurable Objective: 105
Minimum Threshold: 59
Groundwater Elevation (ft., msl)
340
320
300
280
260
240
220
200
180
160
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Measurement Date

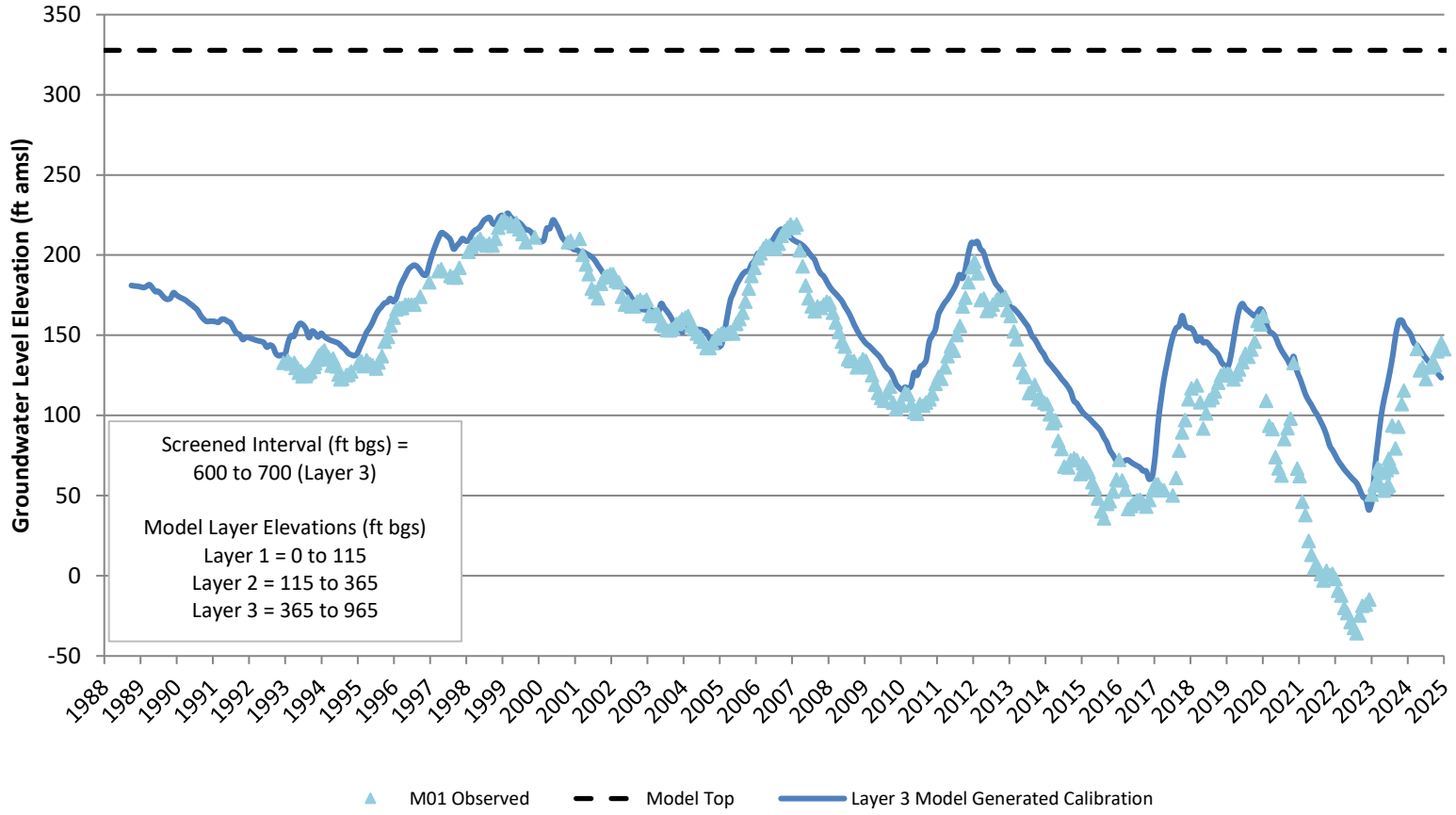

Rosedale-Rio Bravo Water Storage District - 35H RRBWSD Shop - 353620N1191457W002
Ground Surface Elevation: 359
Water Level
Measurable Objective: 116
Minimum Threshold: 71
Groundwater Elevation (ft., msl)
360
340
320
300
280
260
240
220
200
180
160
140
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2014
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Measurement Date

Appendix 2

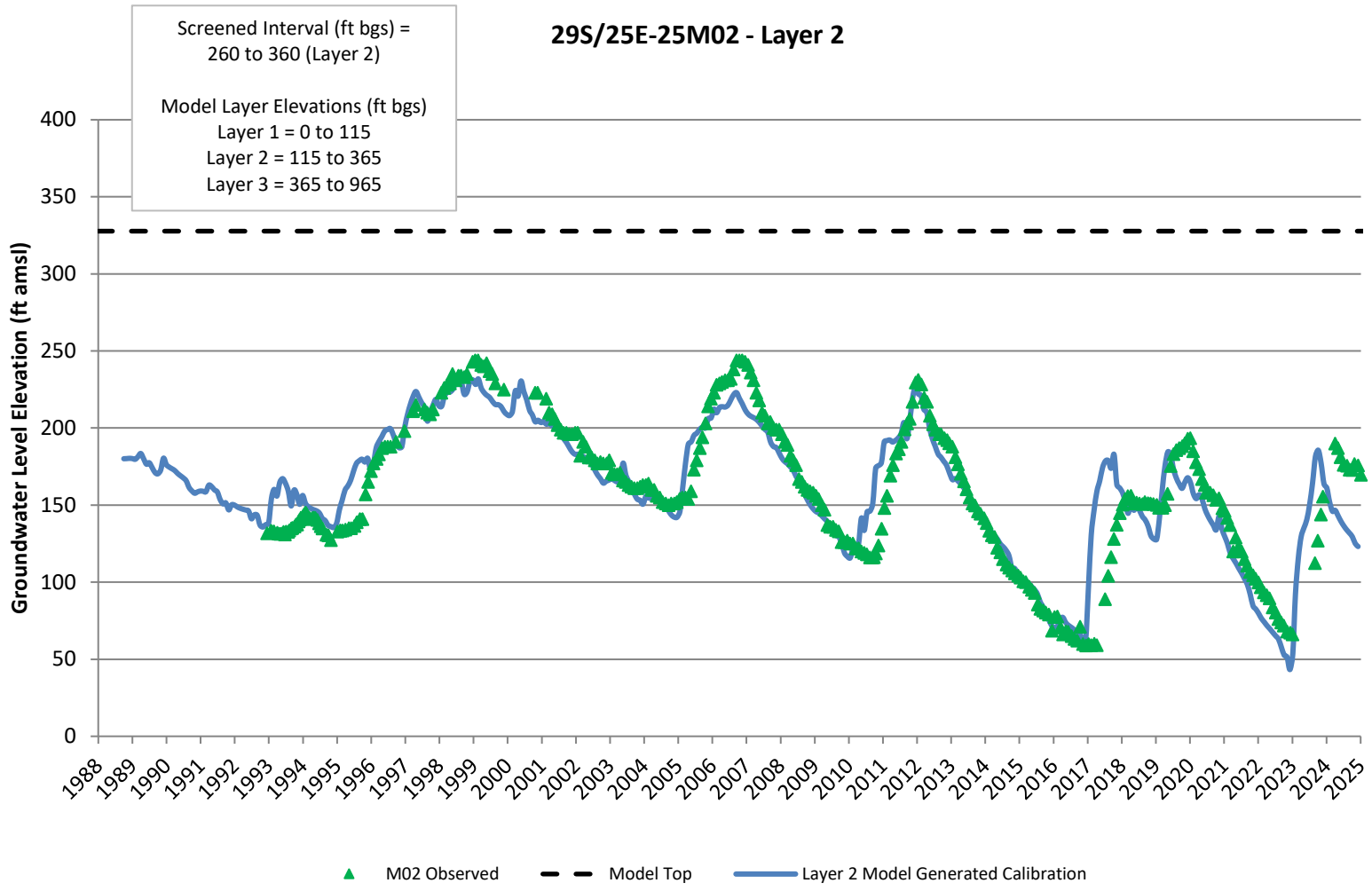
Groundwater Model 2024 Update

Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update

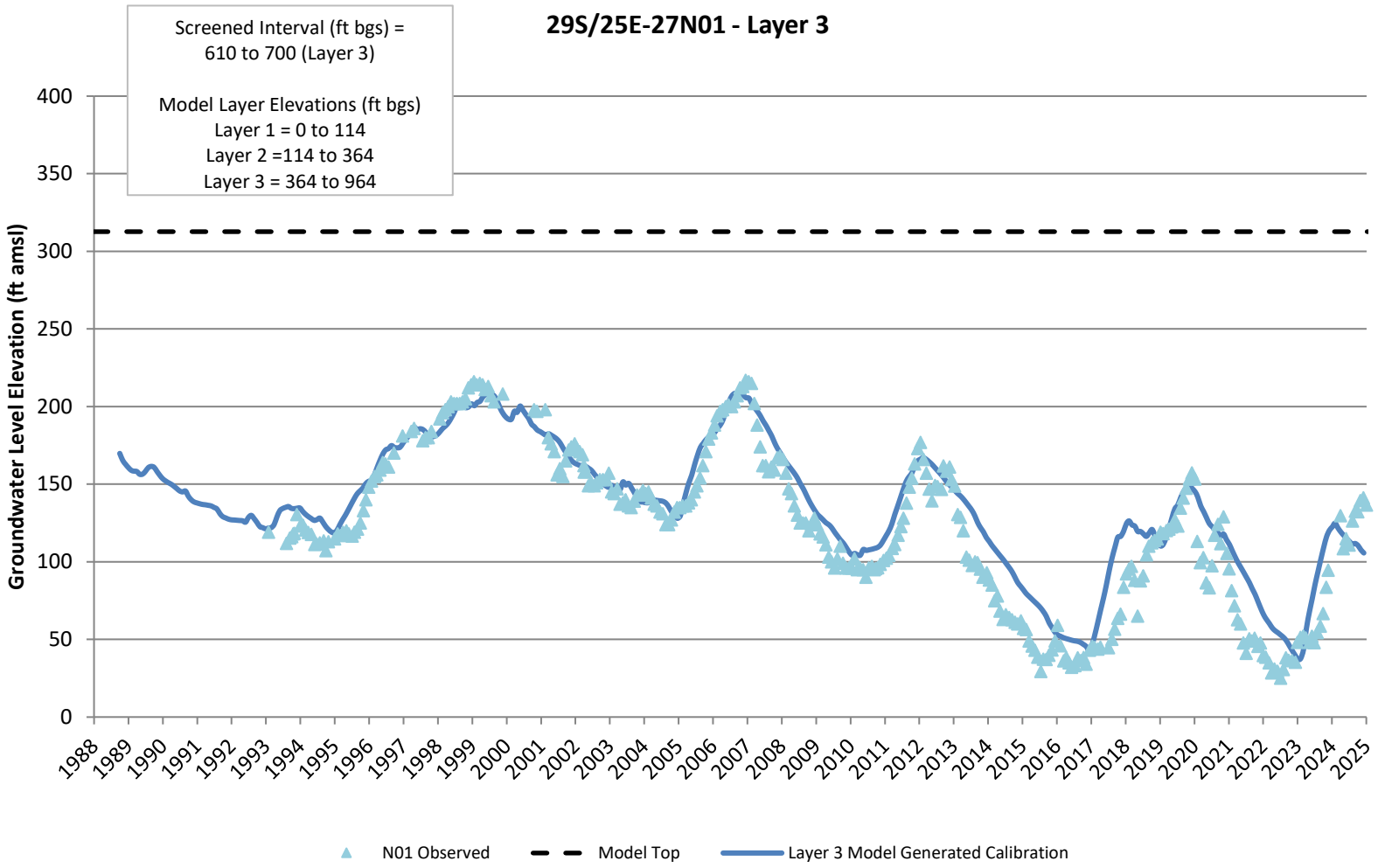
29S/25E-25M01 - Layer 3



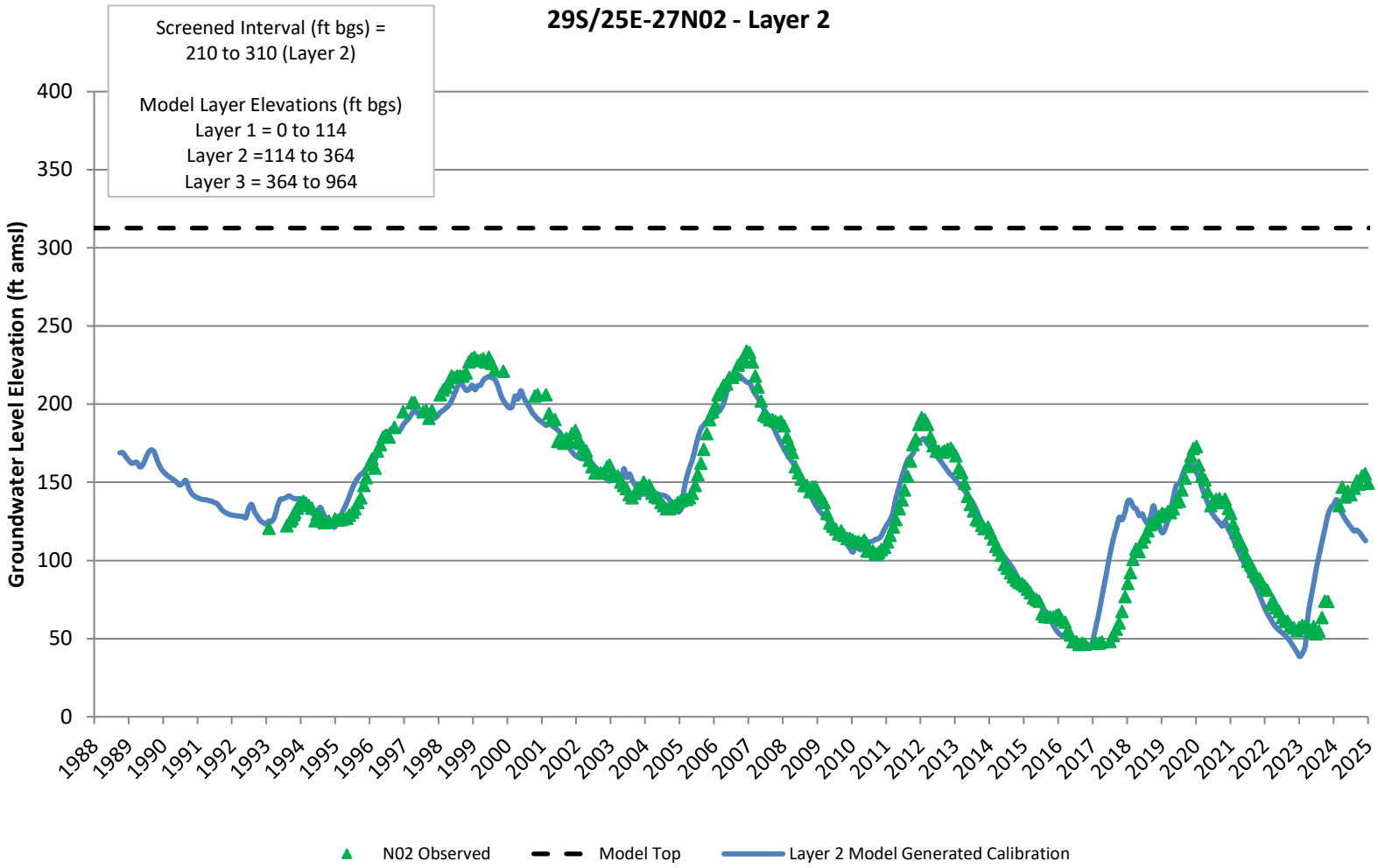
Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update



Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update

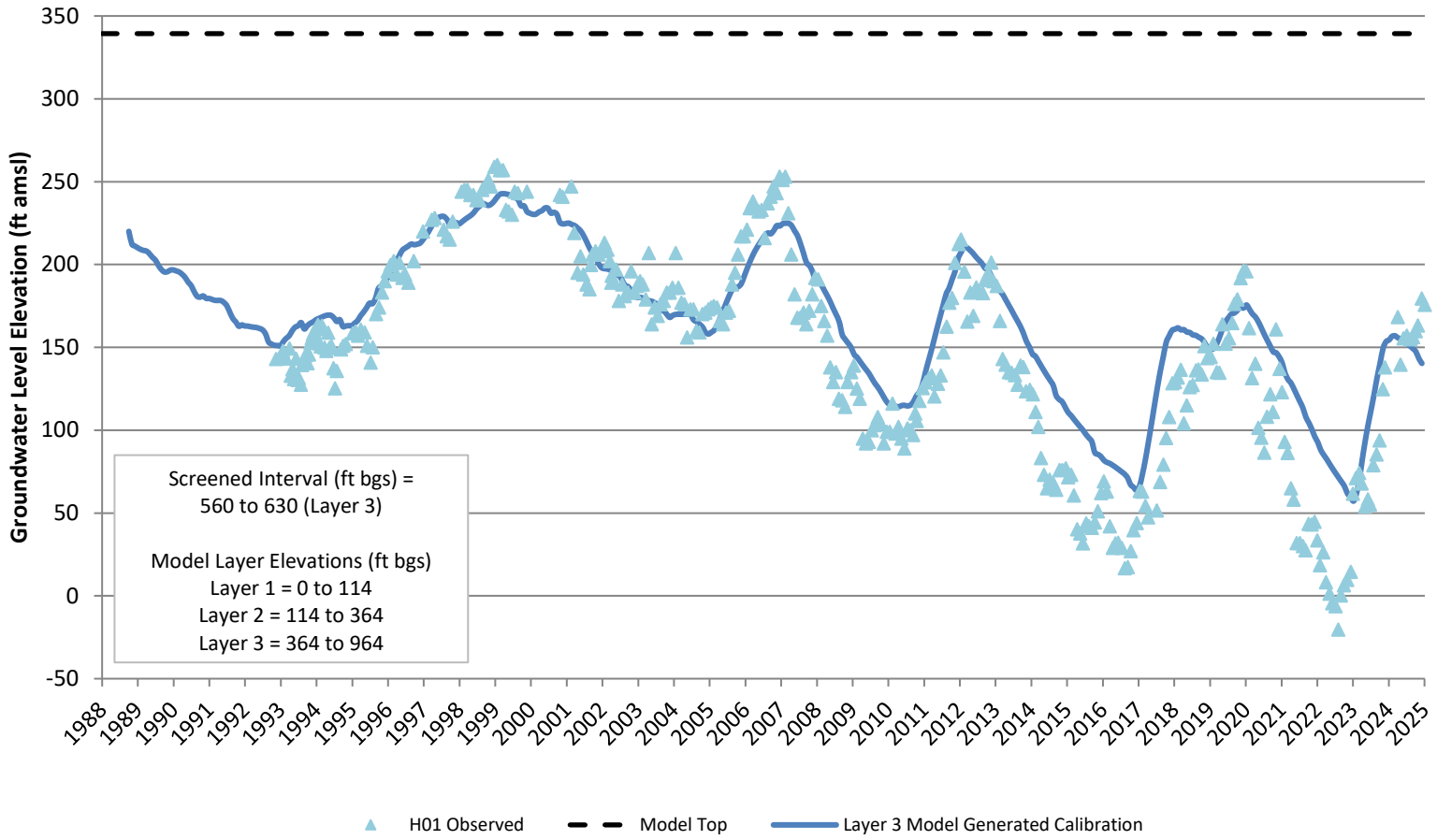


Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update



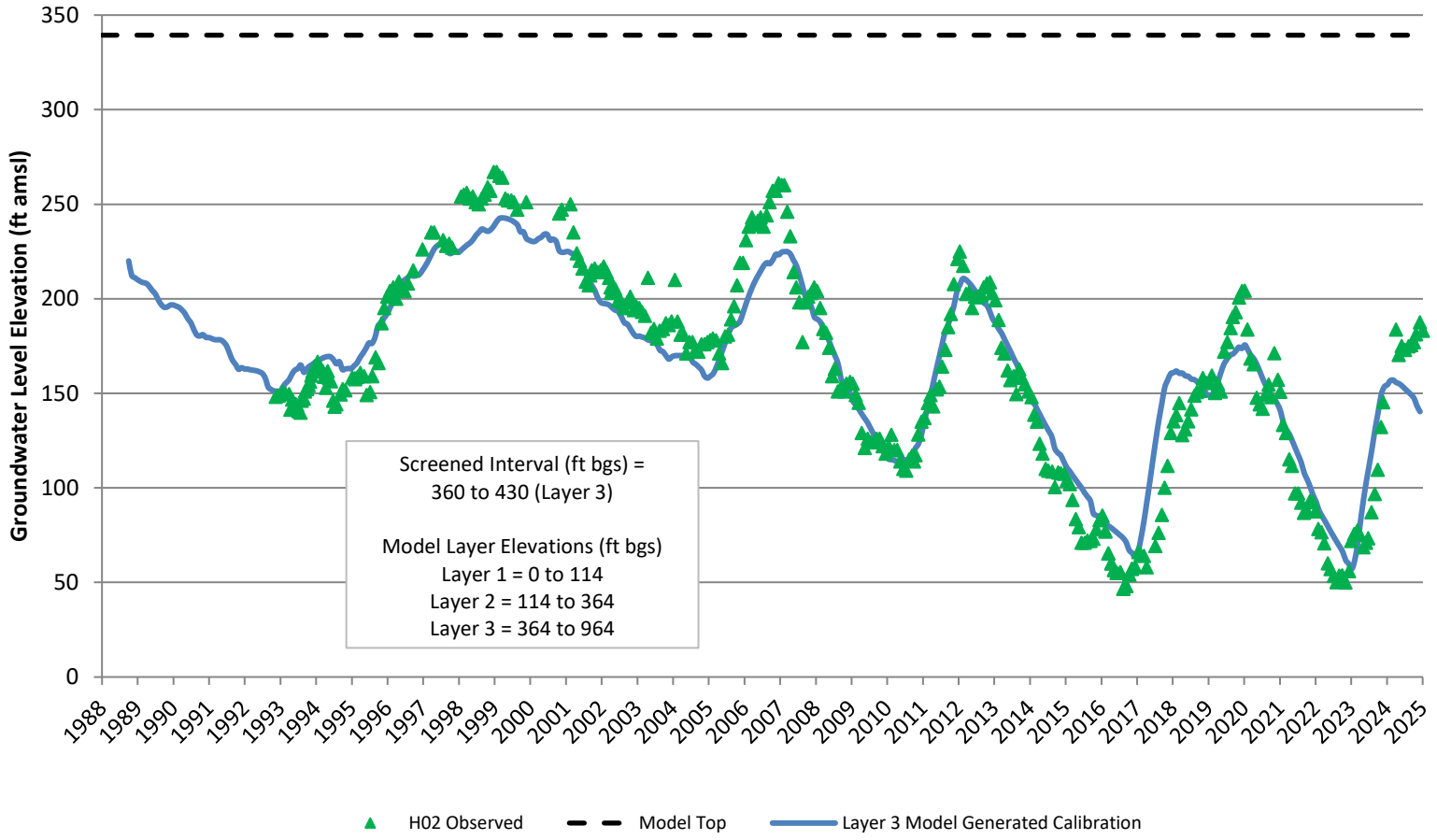
Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update

29S/26E-31H01 - Layer 3



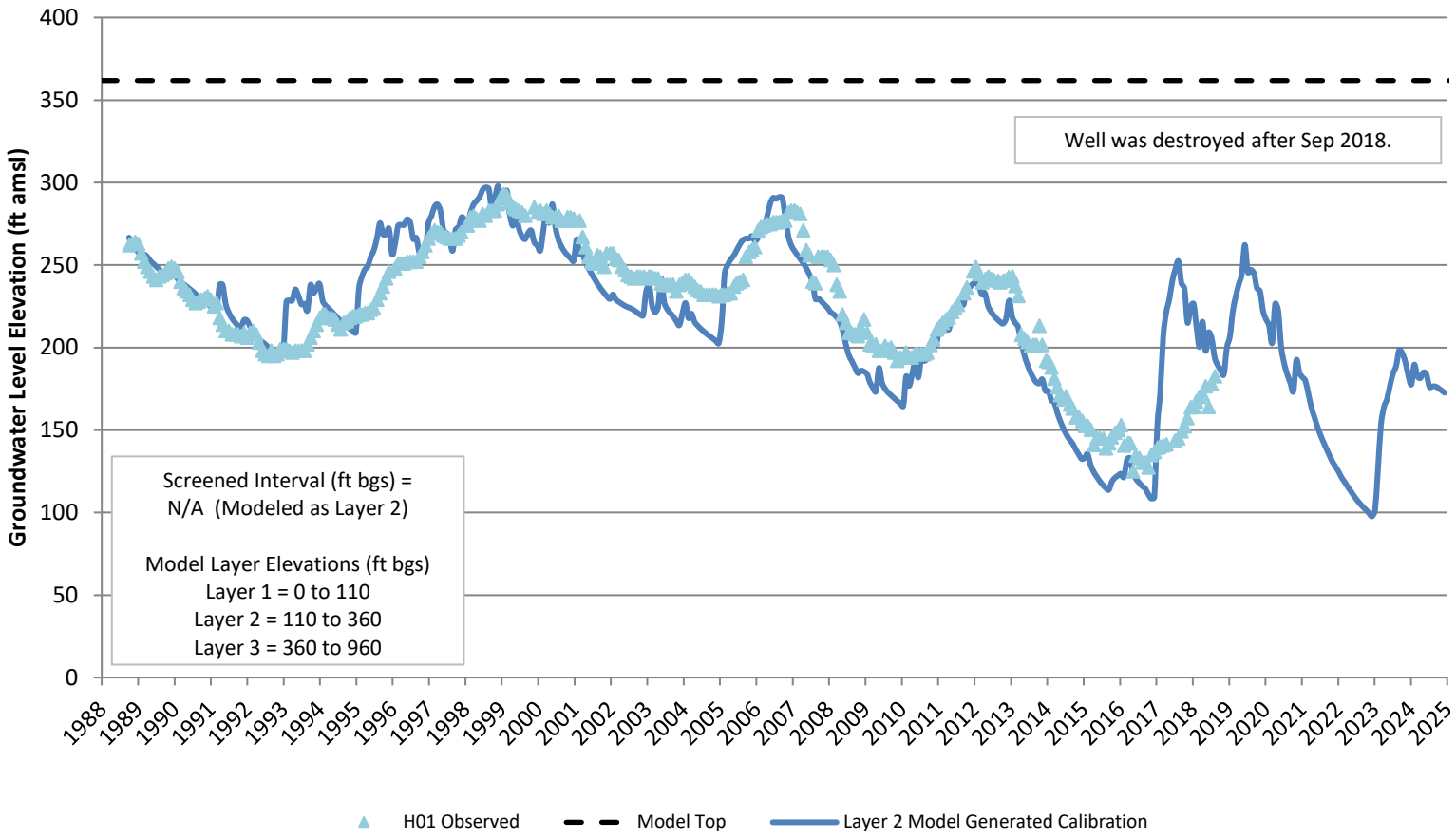
Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update

29S/26E-31H02 - Layer 3



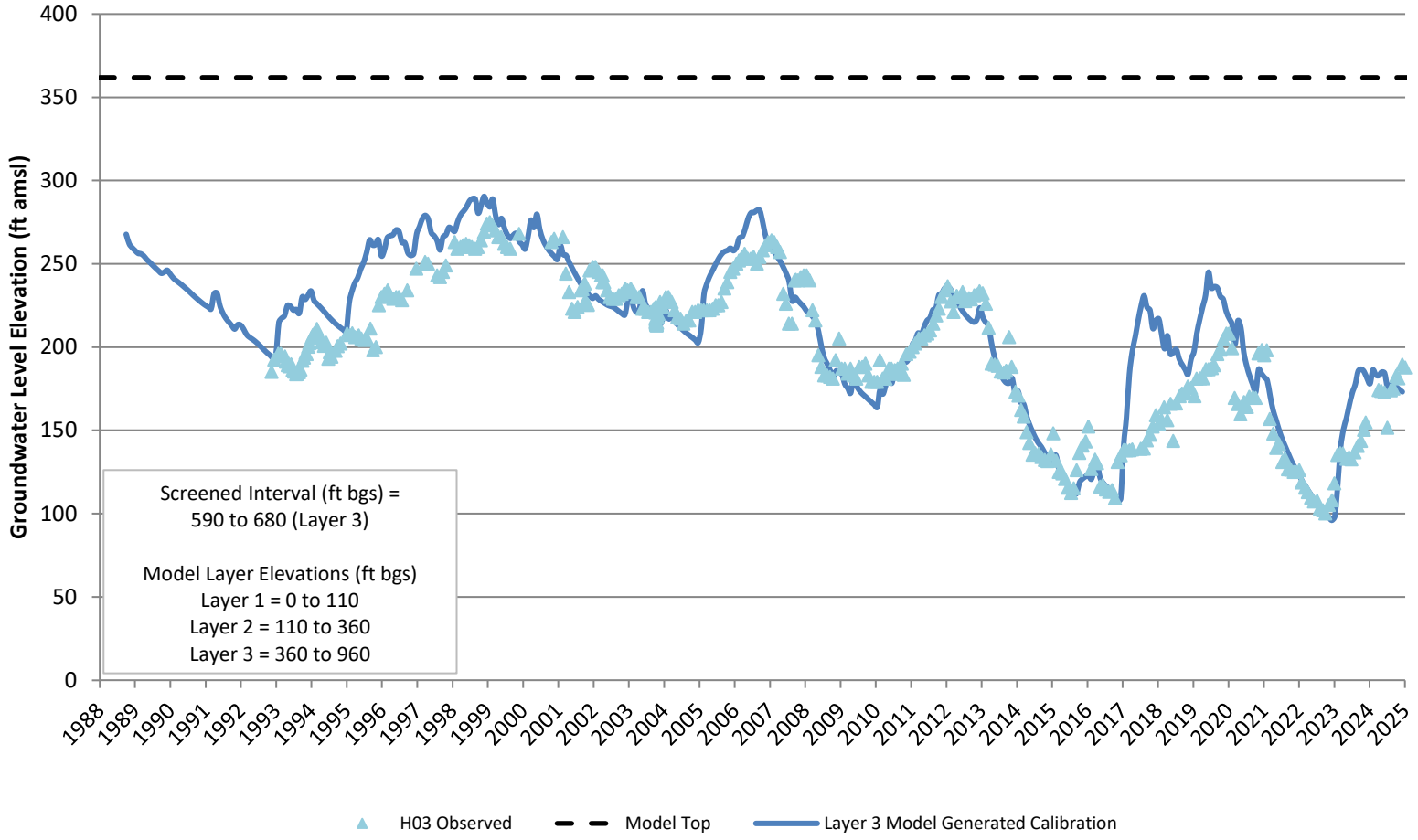
Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update

29S/26E-35H01 - Layer 2



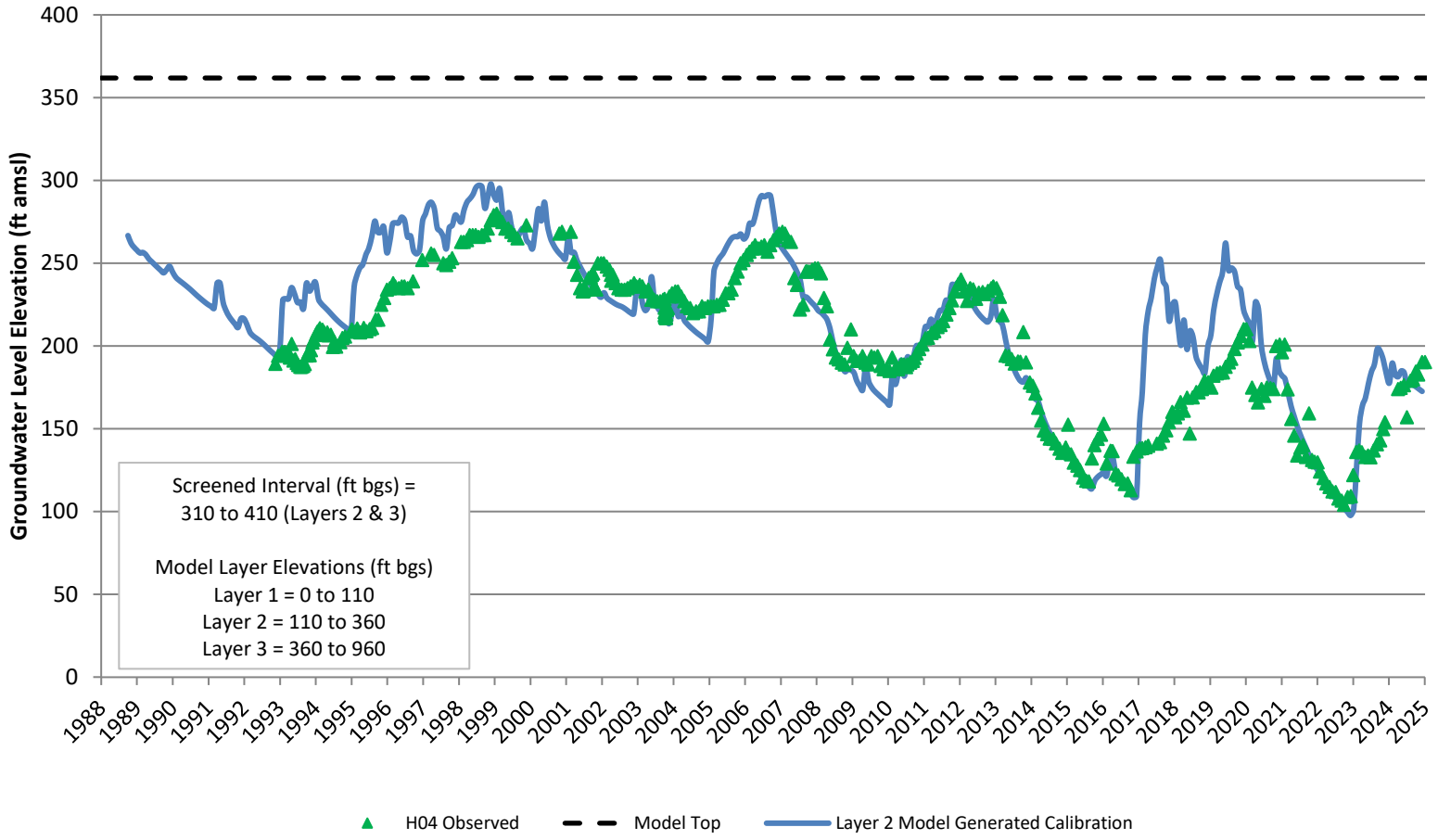
Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update

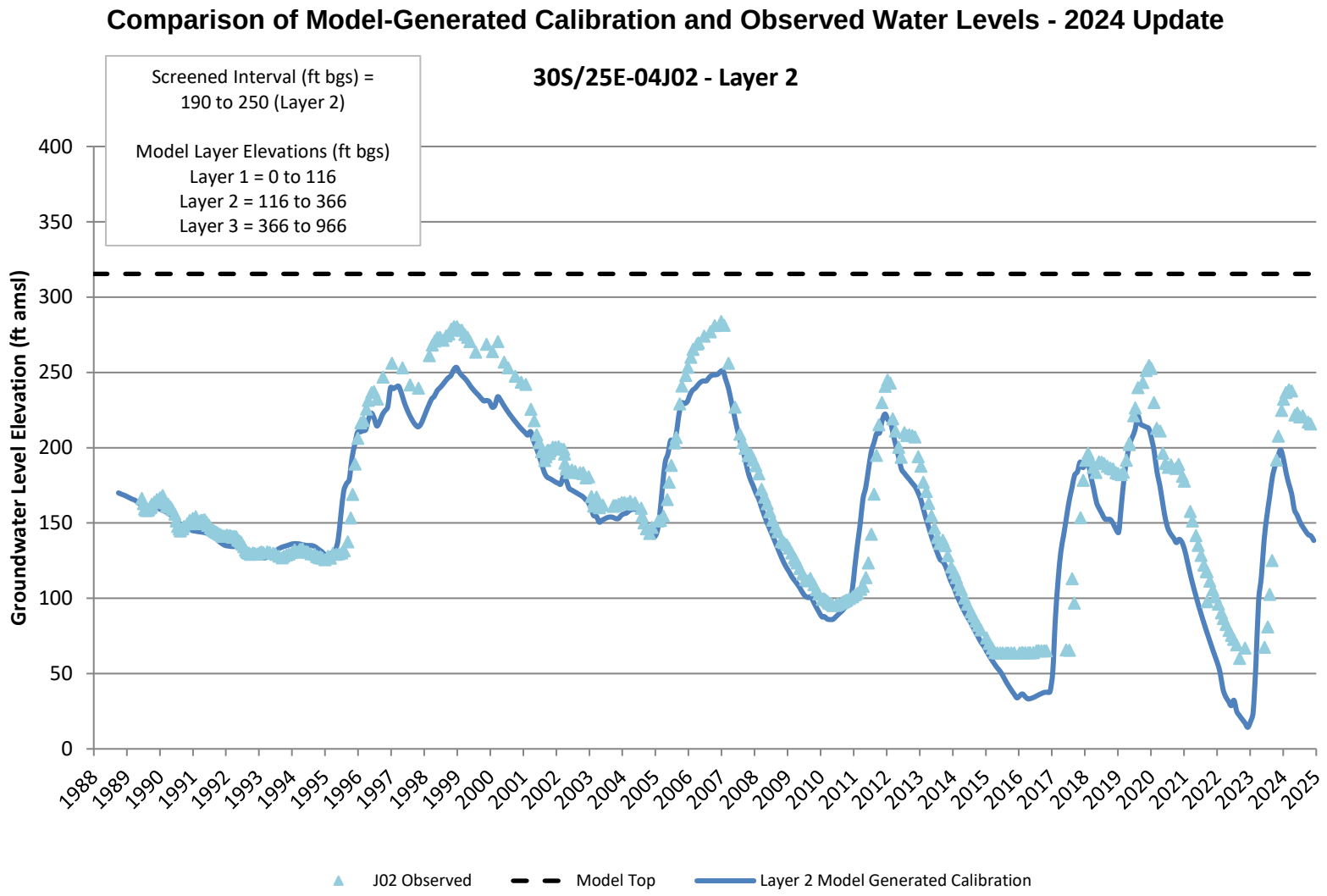
29S/26E-35H03 - Layer 3



Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update

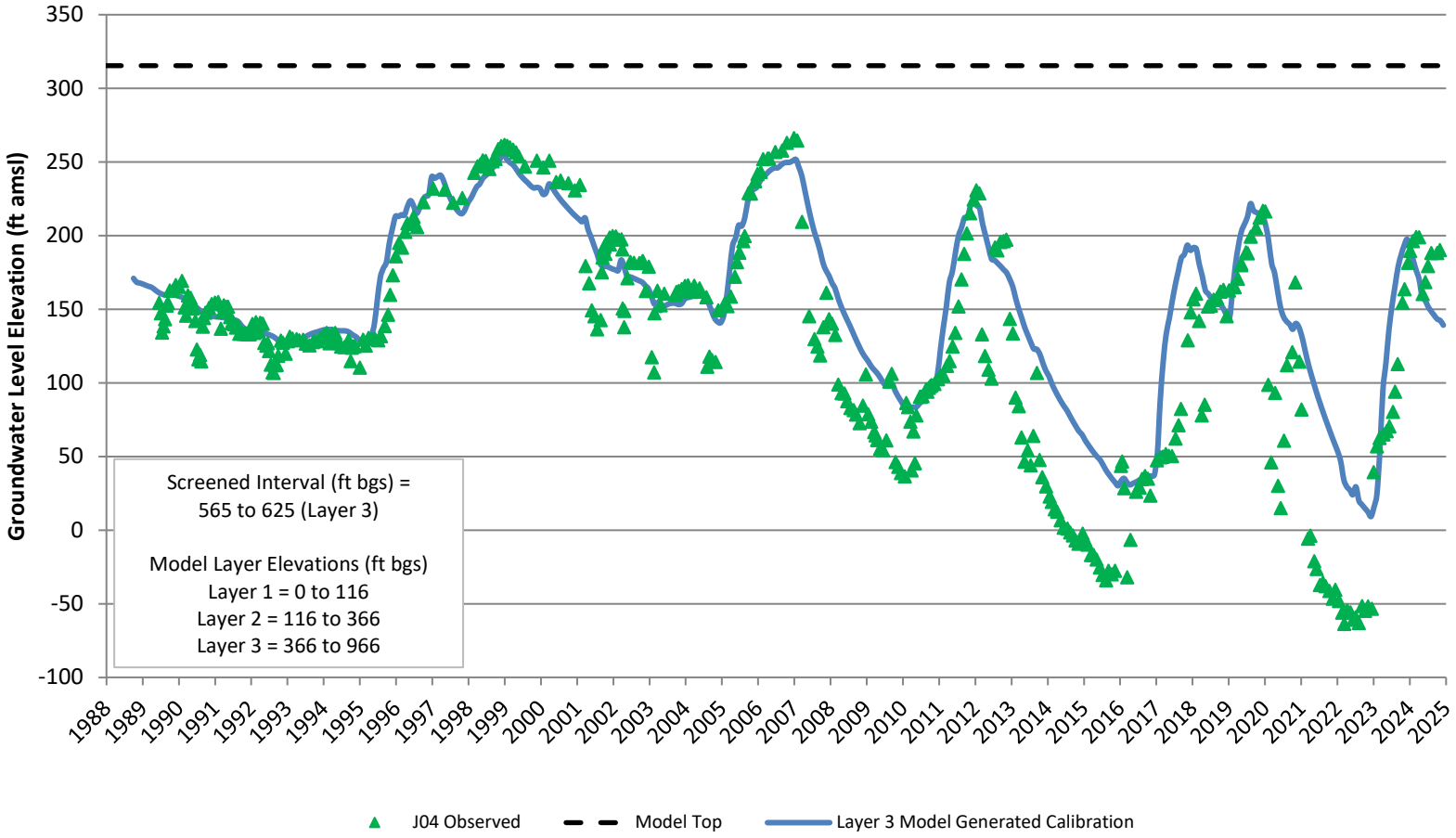
29S/26E-35H04 - Layer 2




Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update
30S/25E-04J02 - Layer 2
Screened Interval (ft bgs) = 190 to 250 (Layer 2)
Model Layer Elevations (ft bgs)
Layer 1 = 0 to 116
Layer 2 = 116 to 366
Layer 3 = 366 to 966
Groundwater Level Elevation (ft amsl)
400
350
300
250
200
150
100
50
0
1988
1989
1990
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
2019
2020
2021
2022
2023
2024
2025
J02 Observed
Model Top
Layer 2 Model Generated Calibration

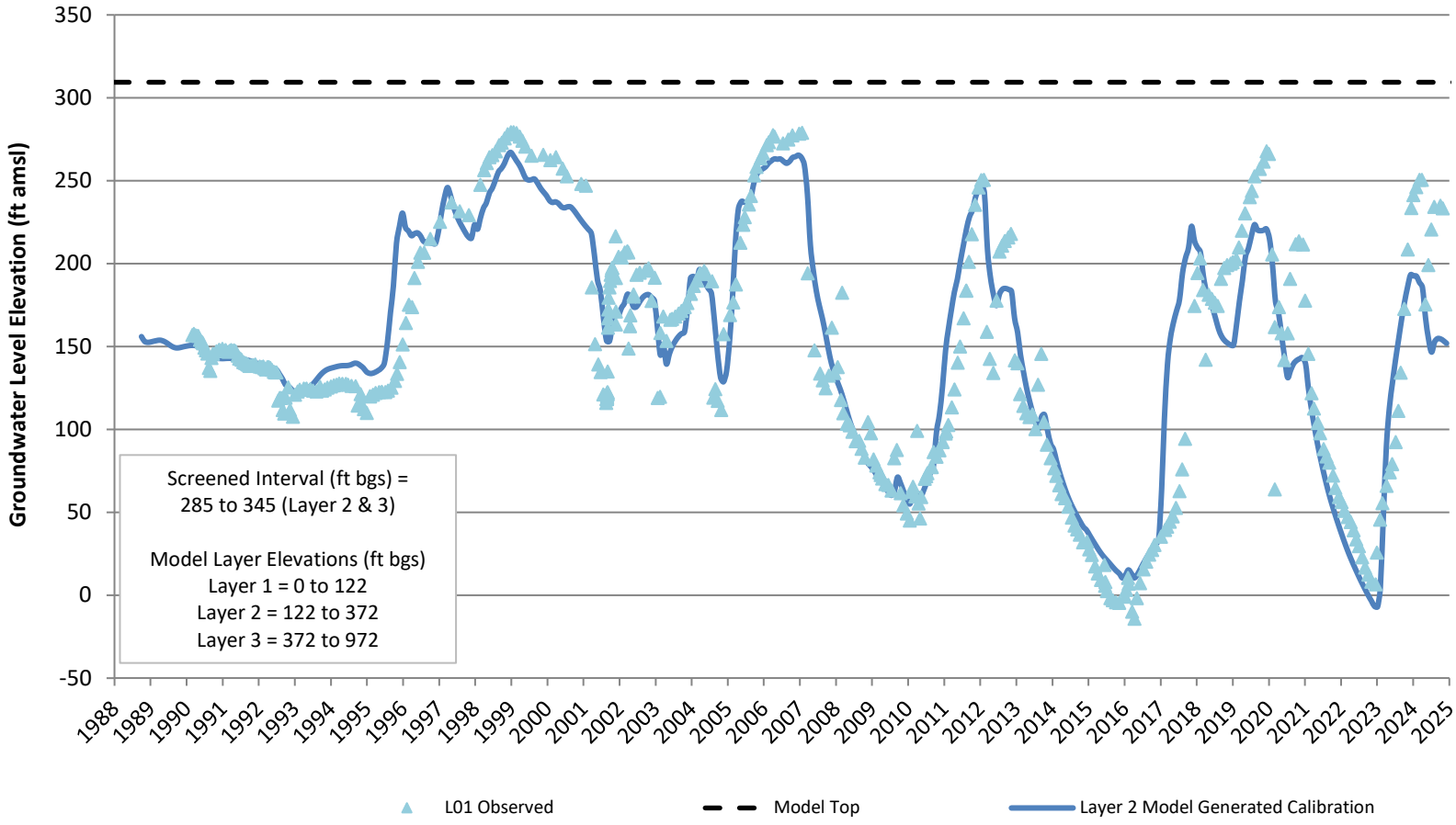
Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update

30S/25E-04J04 - Layer 3



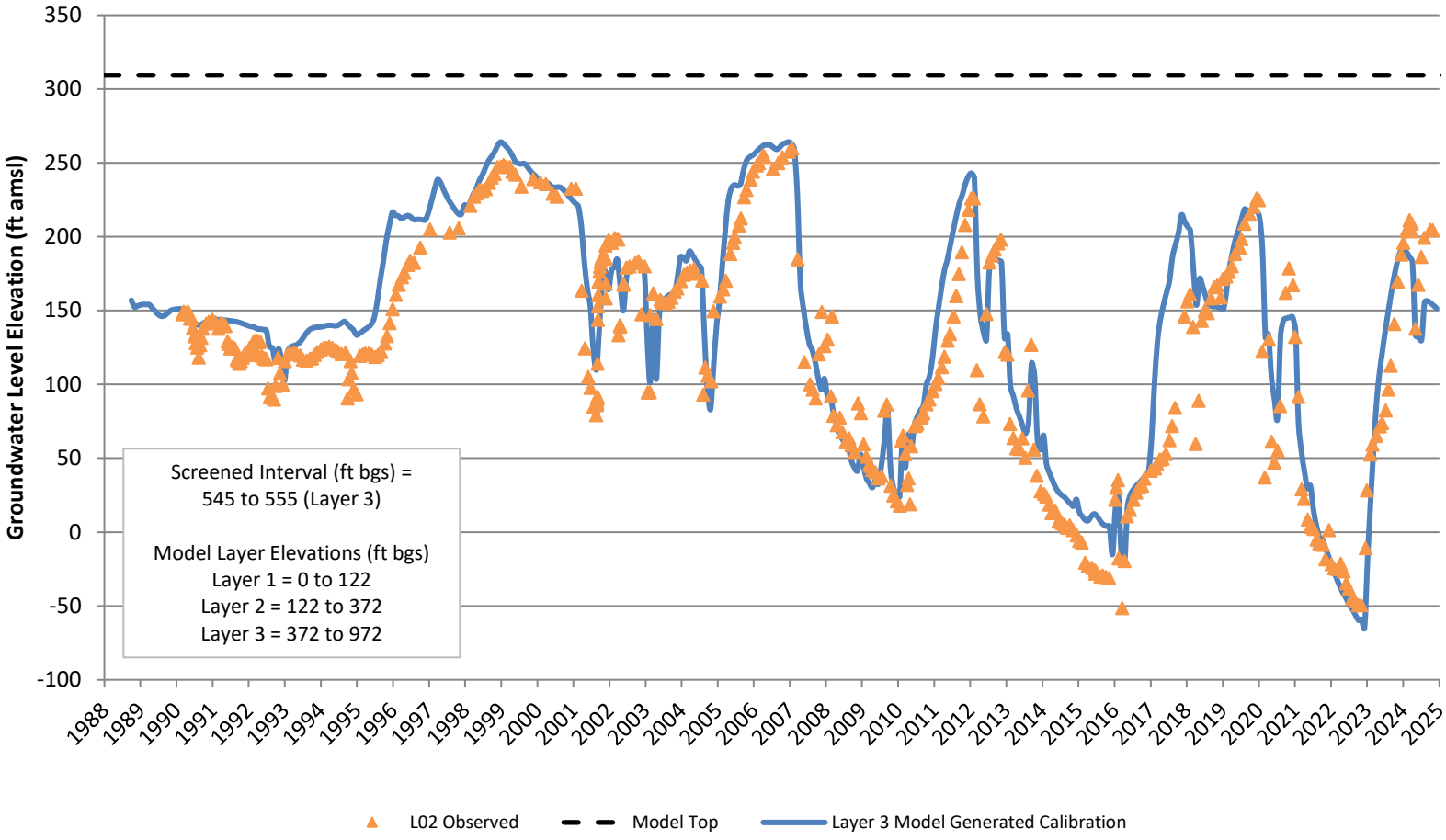
Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update

30S/25E-16L01 - Layer 2



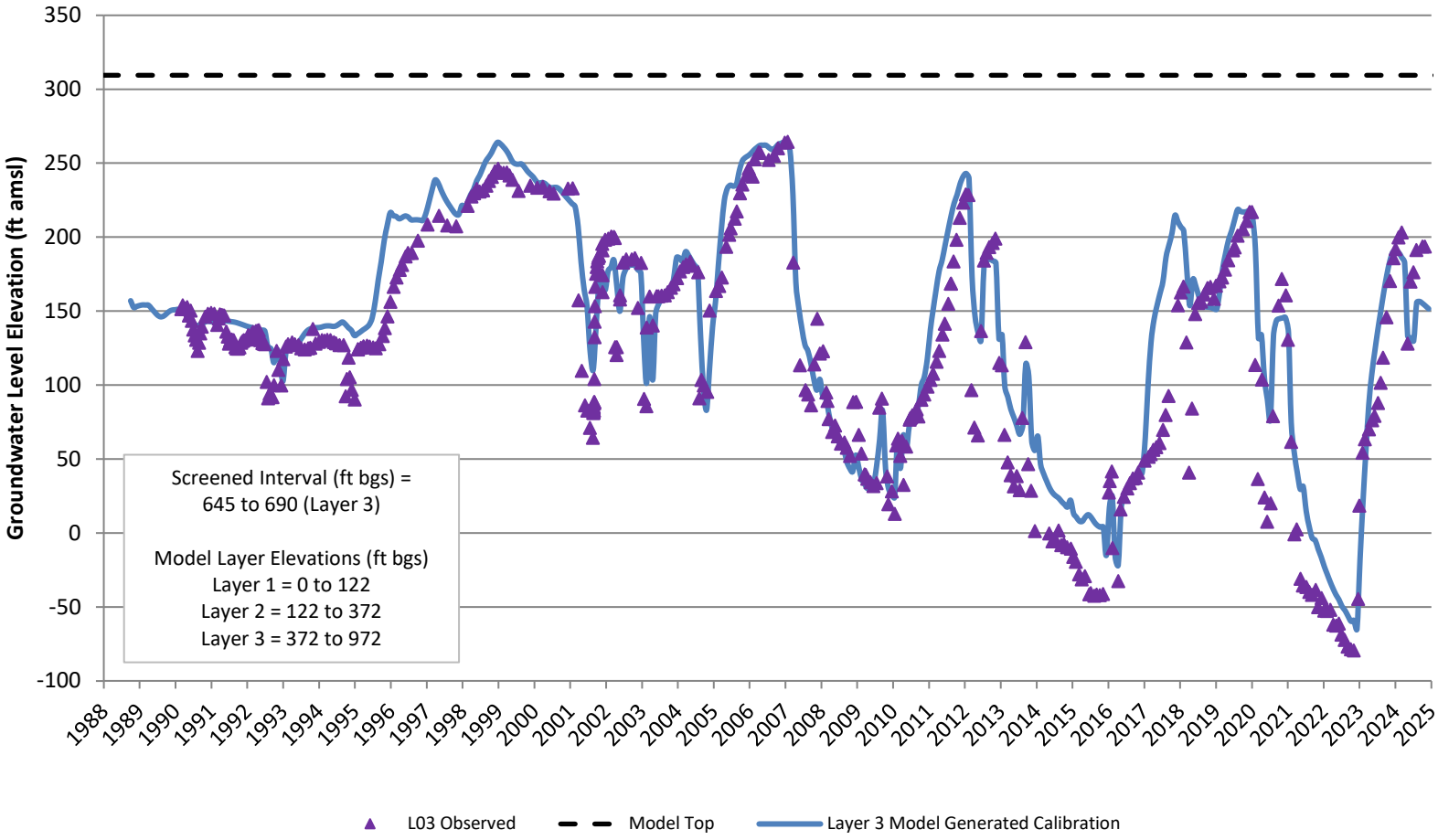
Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update

30S/25E-16L02 - Layer 3



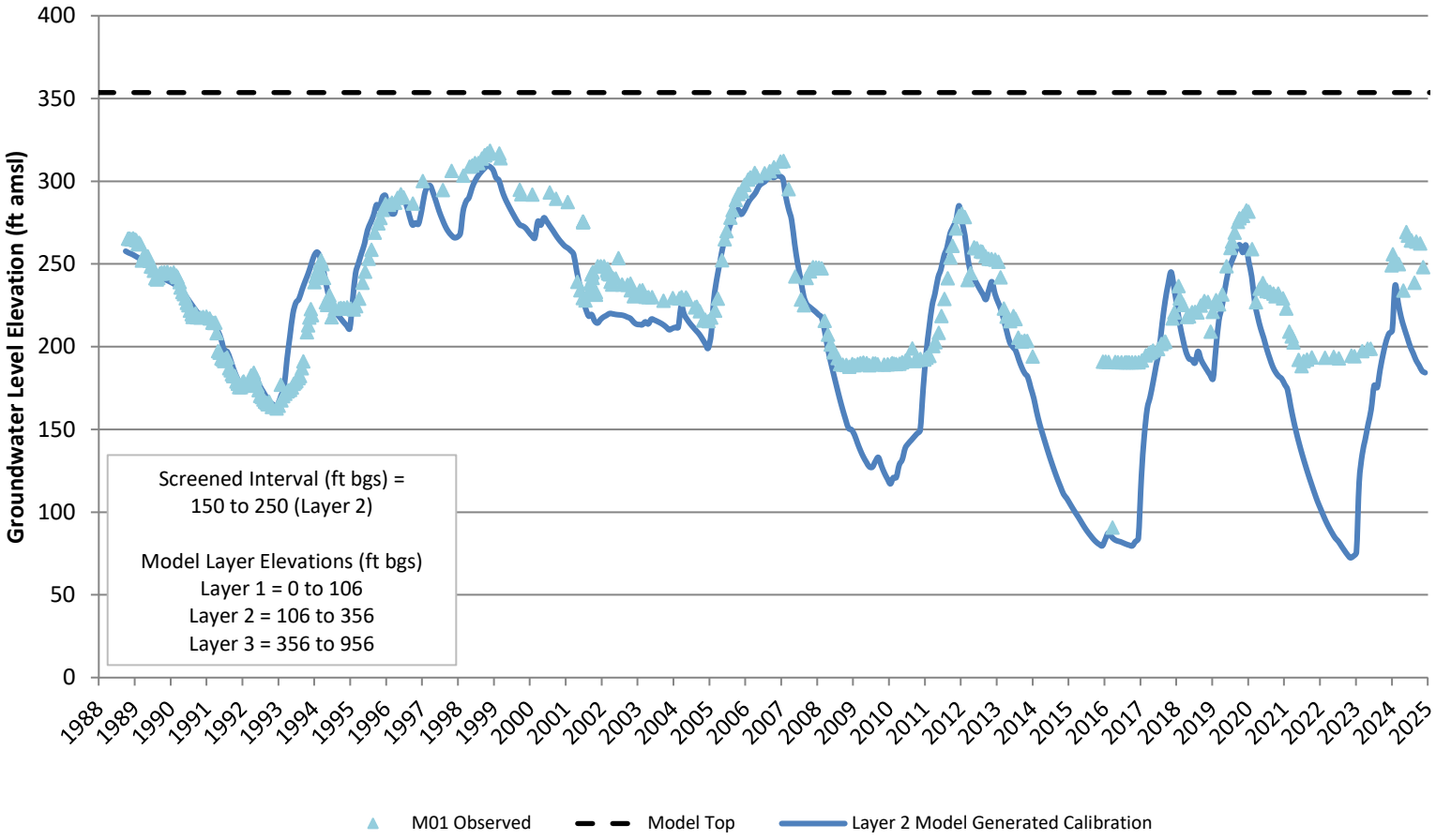
Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update

30S/25E-16L03 - Layer 3



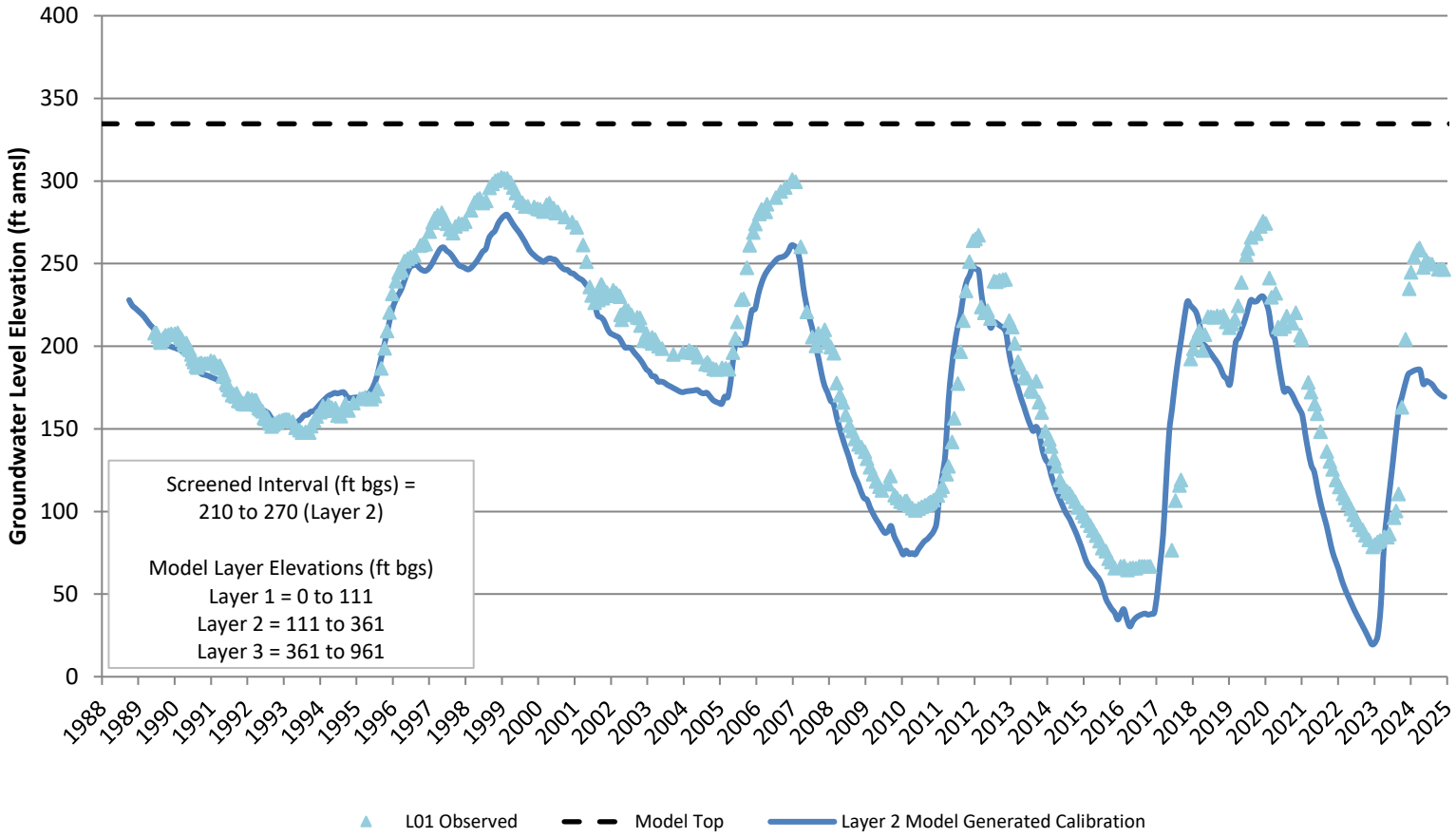
Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update

30S/26E-02M01 - Layer 2



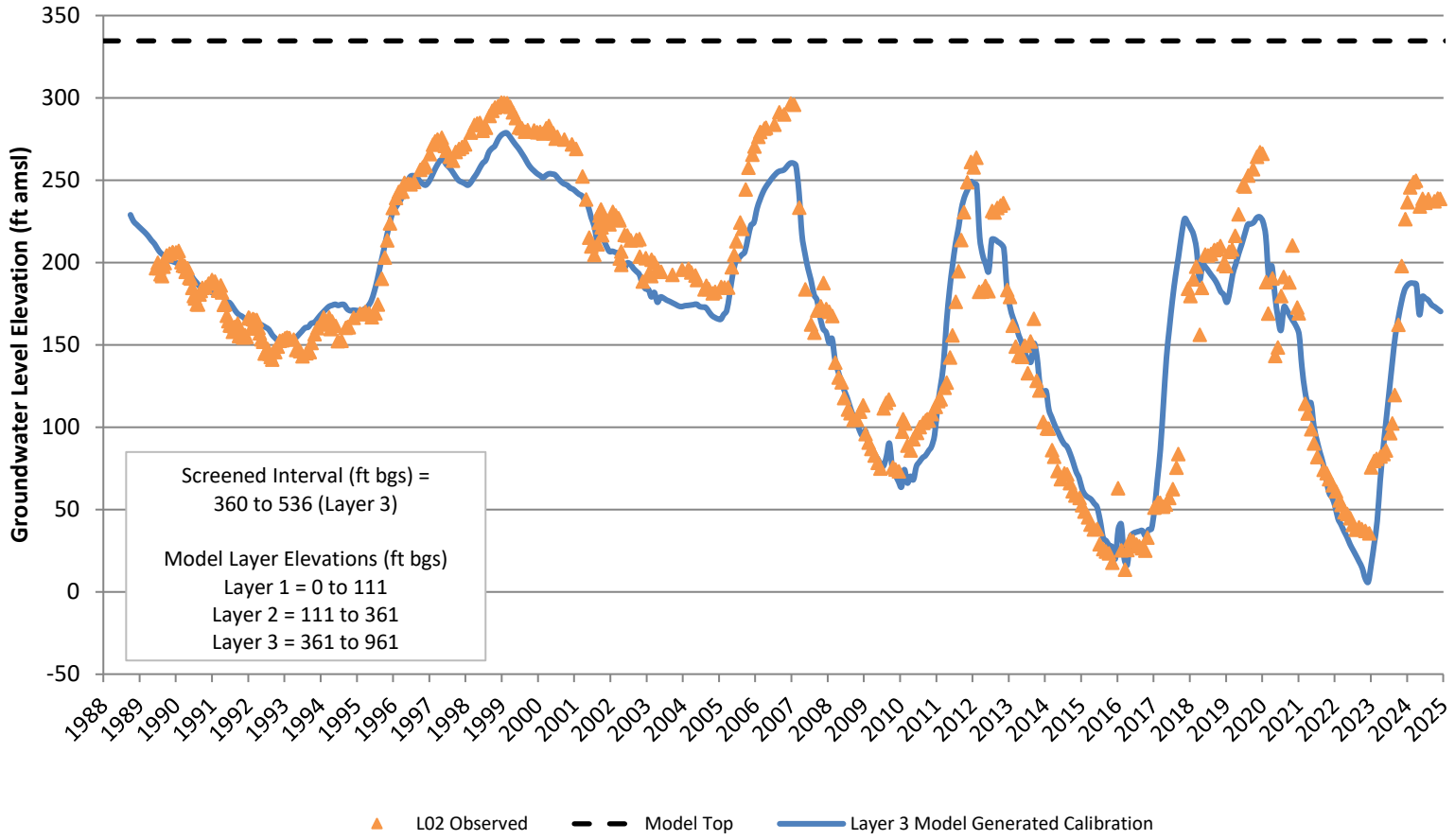
Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update

30S/26E-06L01 - Layer 2



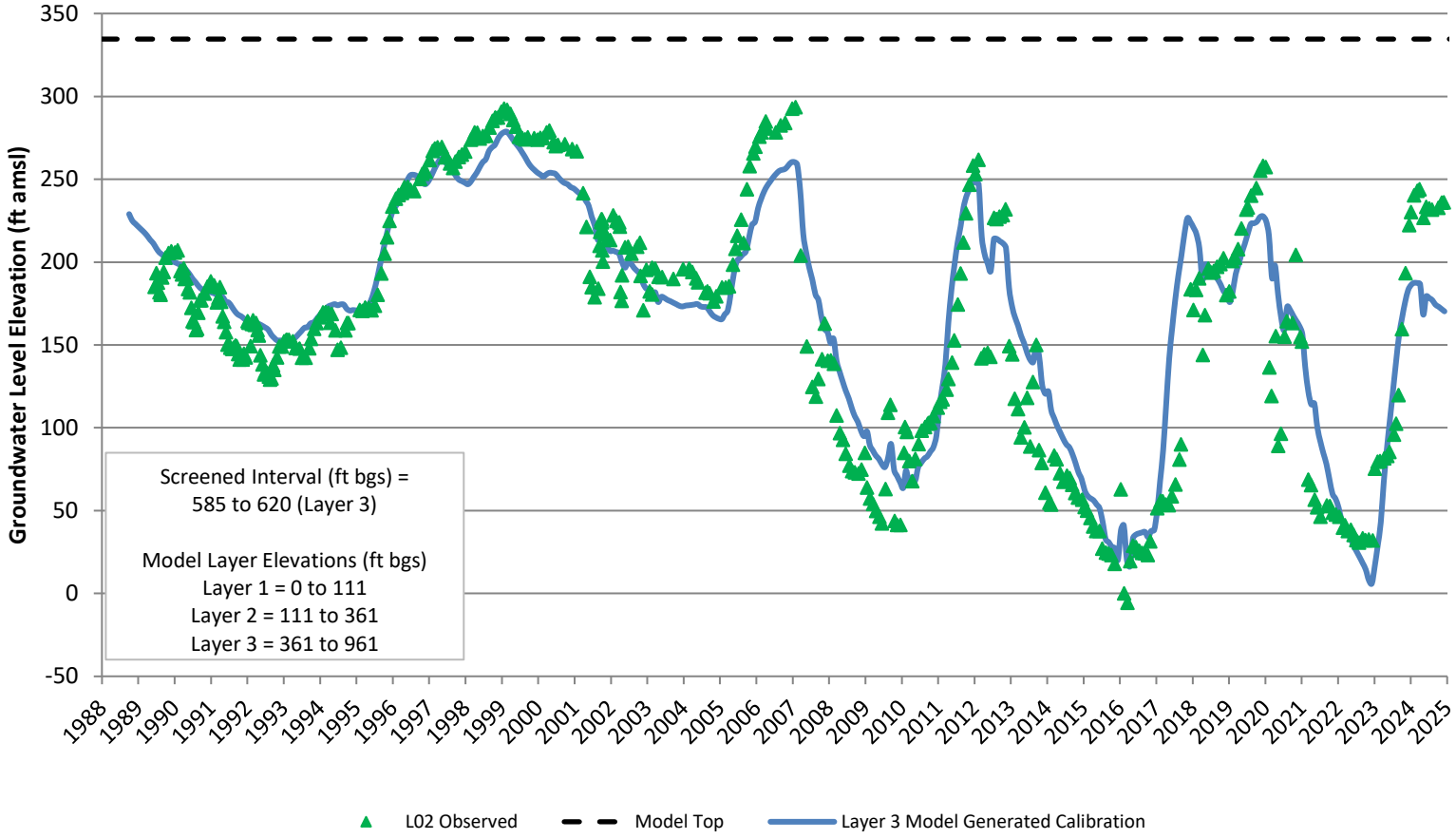
Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update

30S/26E-06L02 - Layer 3



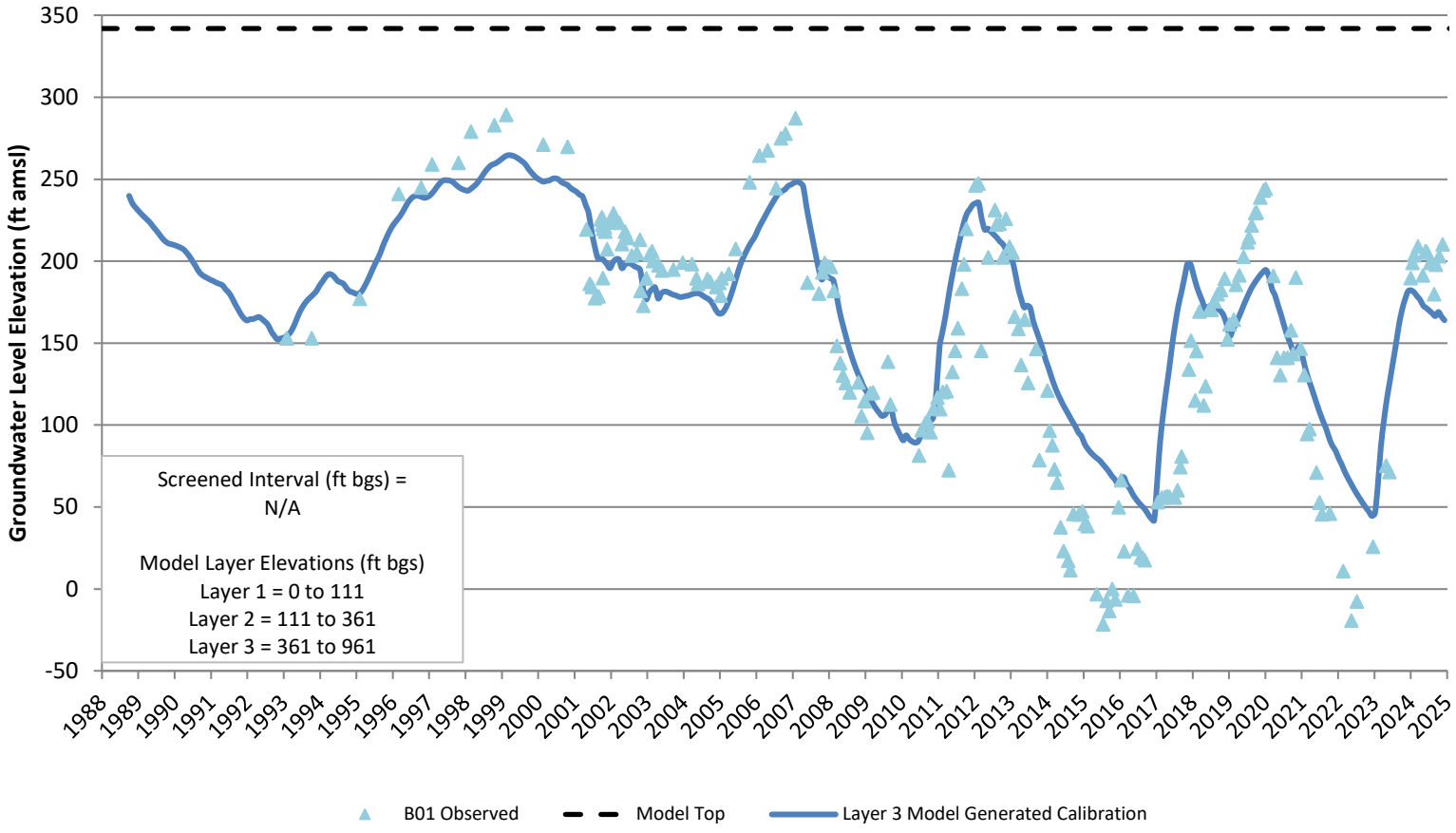
Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update

30S/26E-06L03 - Layer 3



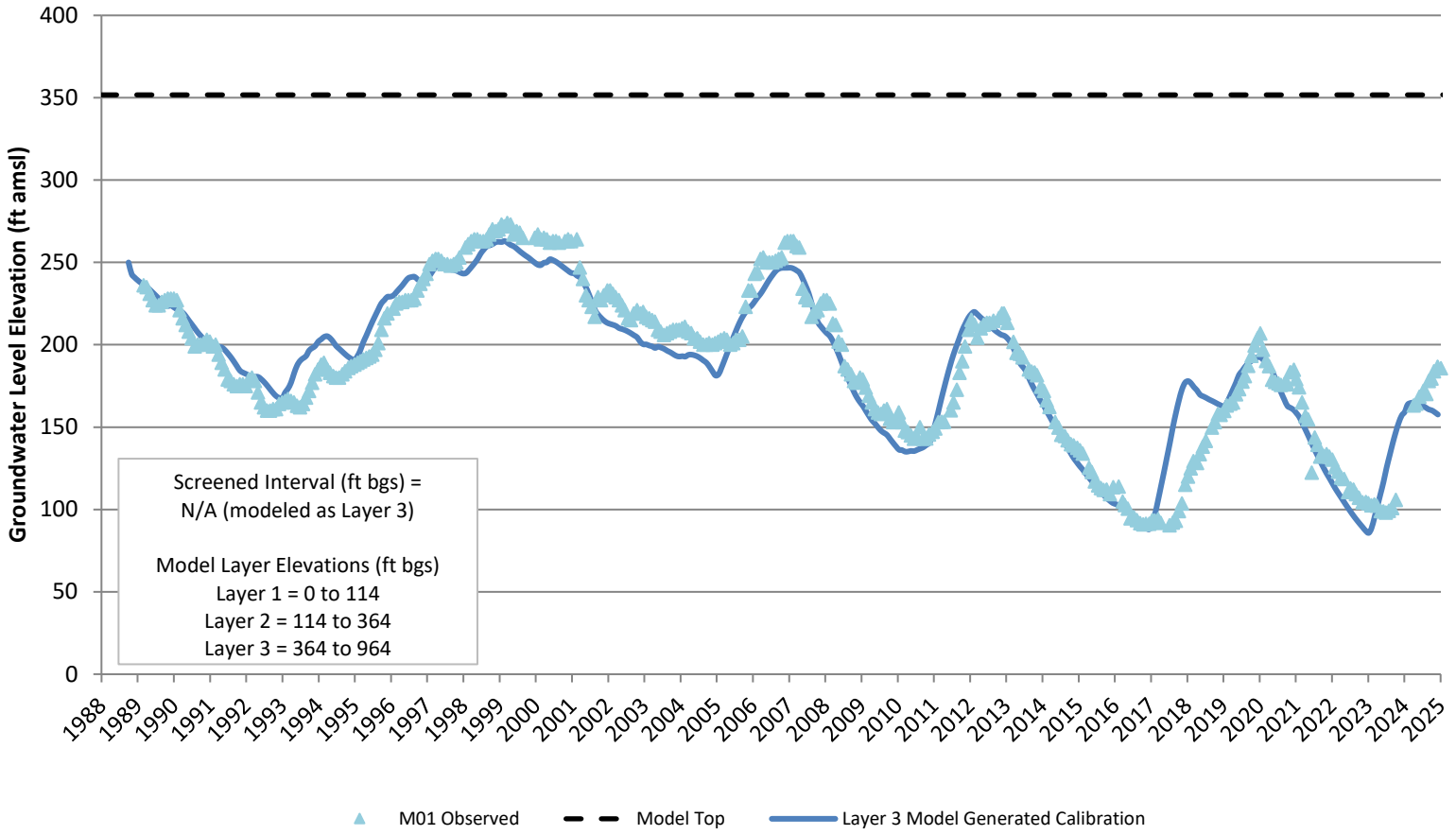
Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update

30S/26E-05B01 - Layer 3



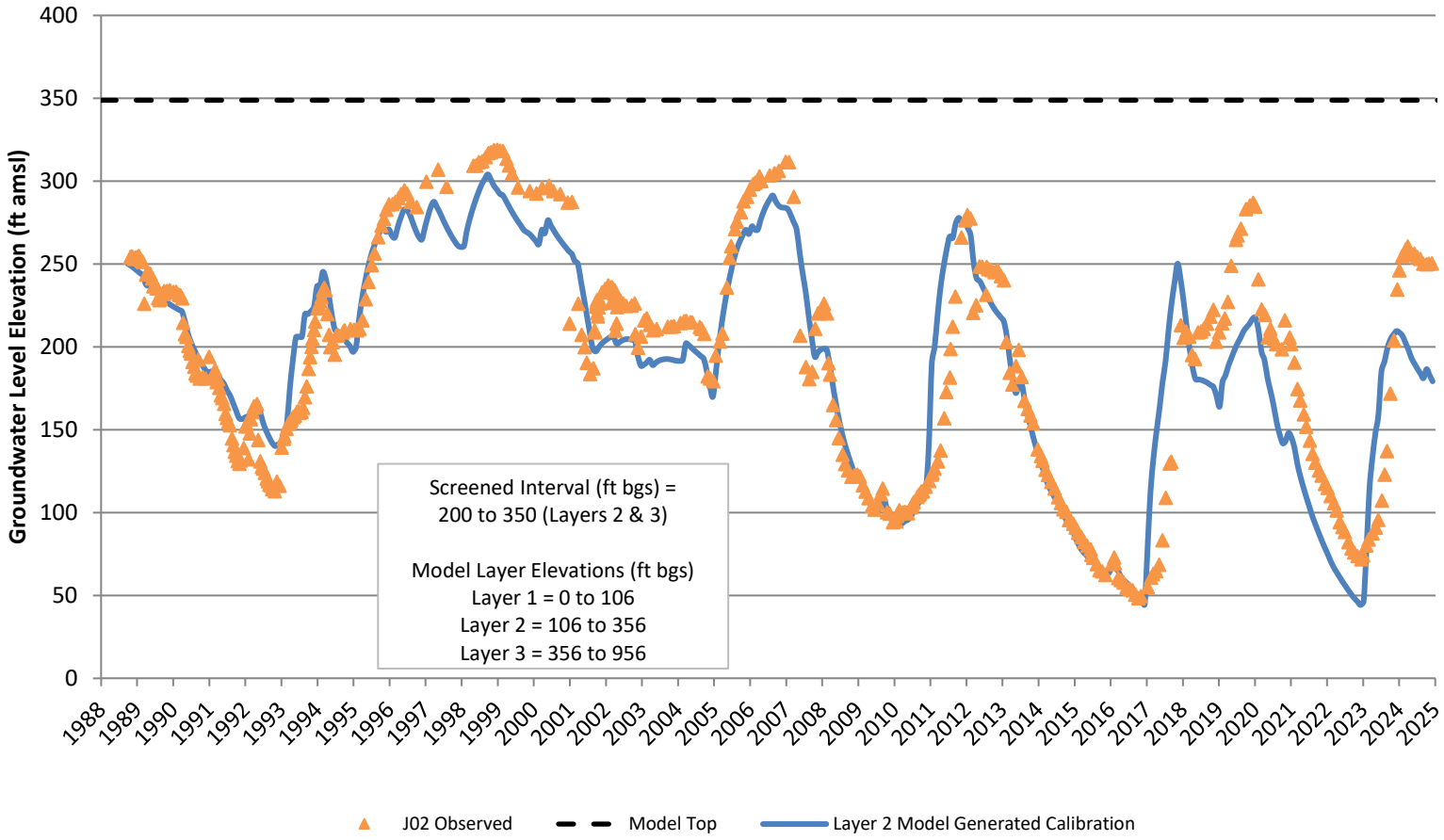
Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update

29S/26E-34M01 - Layer 3



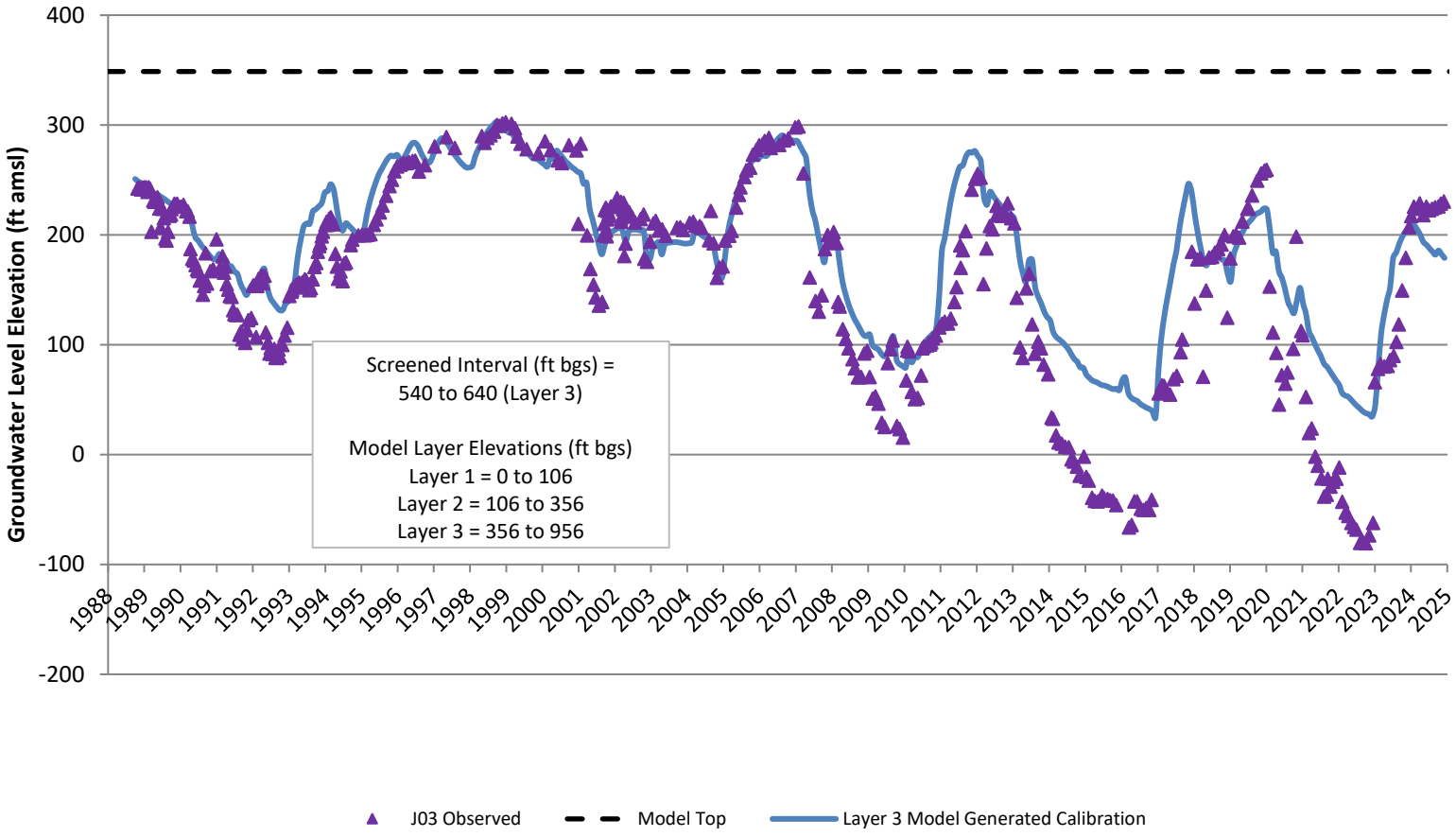
Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update

30S/26E-04J02 - Layer 2

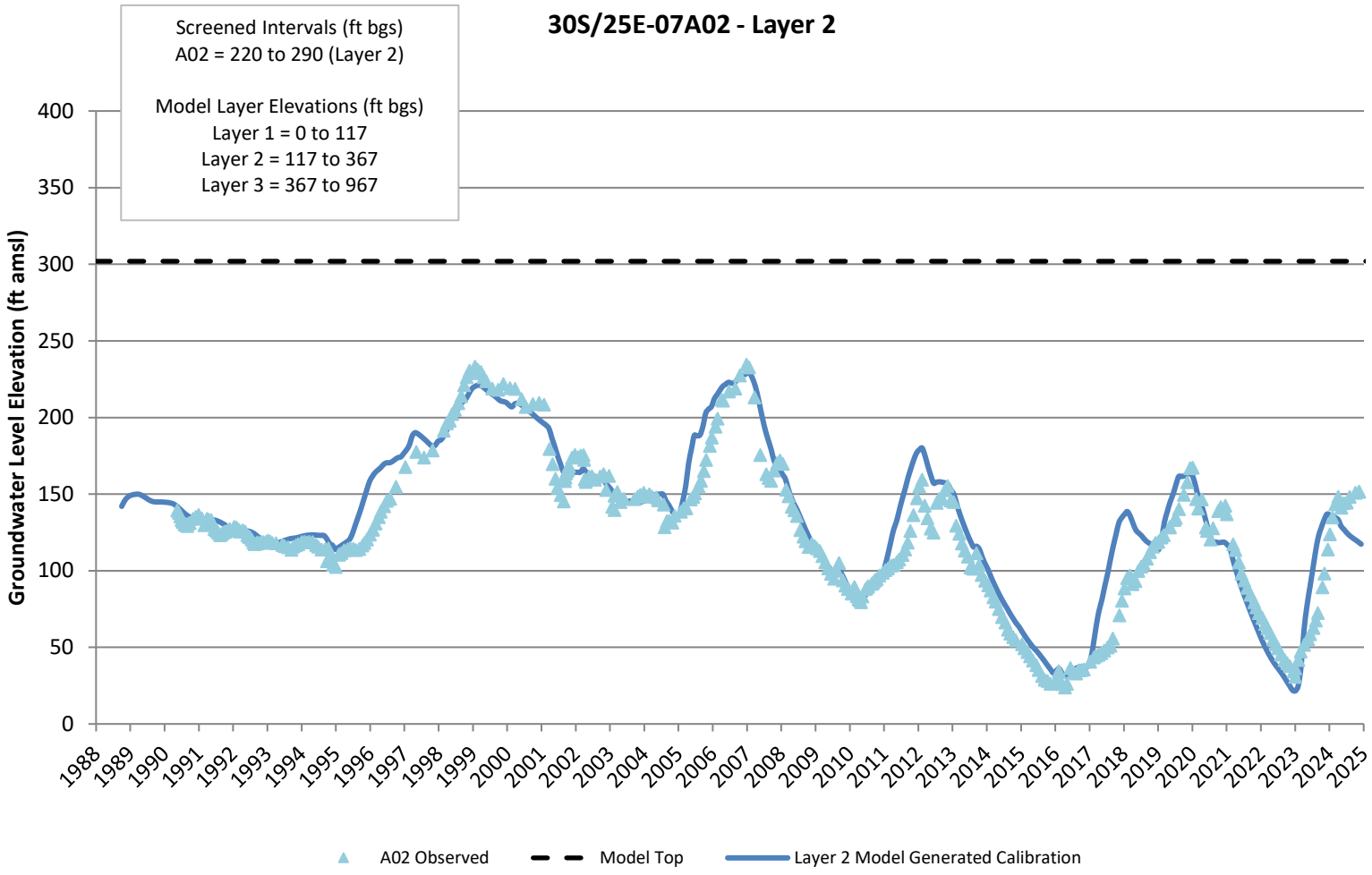


Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update

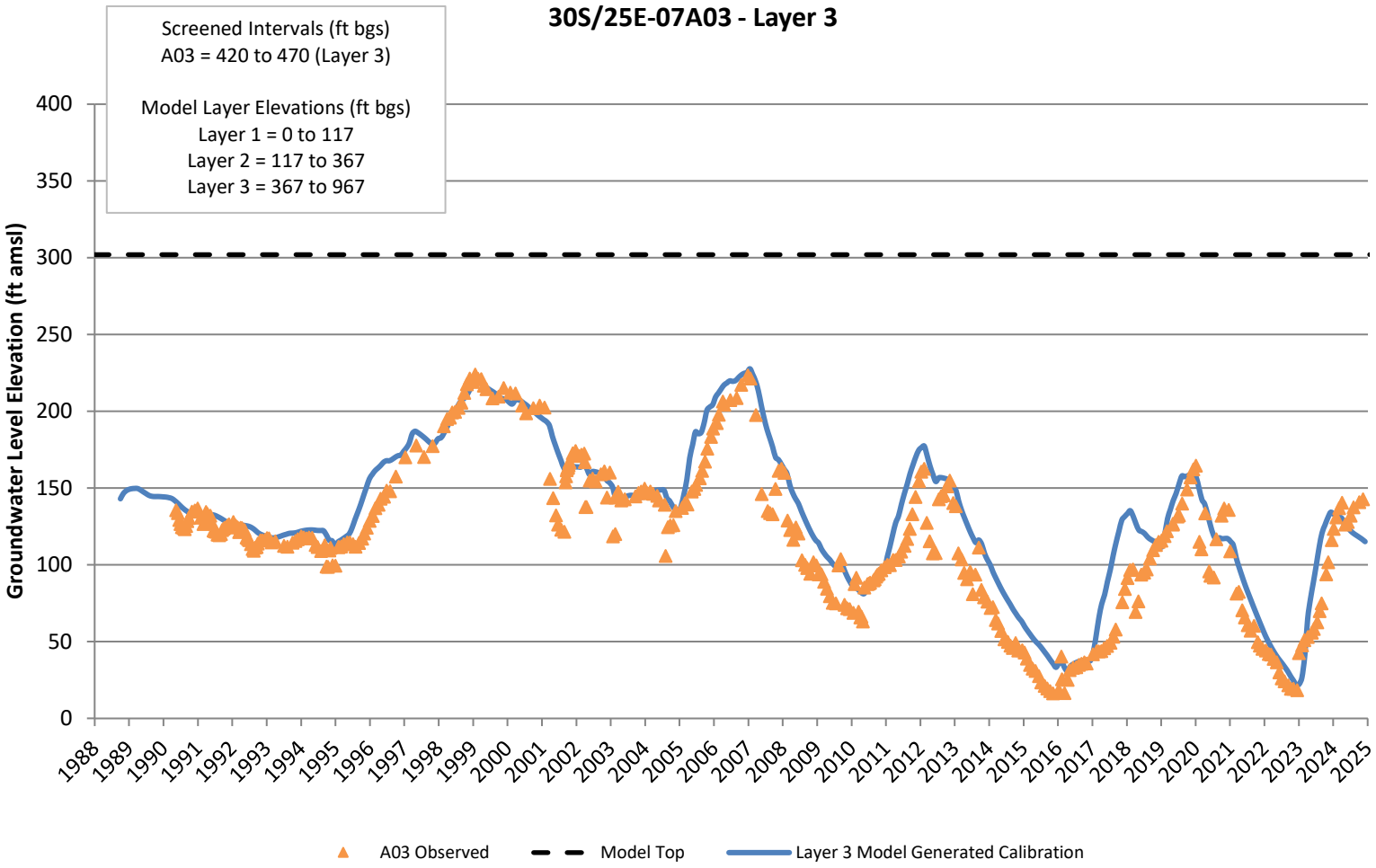
30S/26E-04J03 - Layer 3



Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update

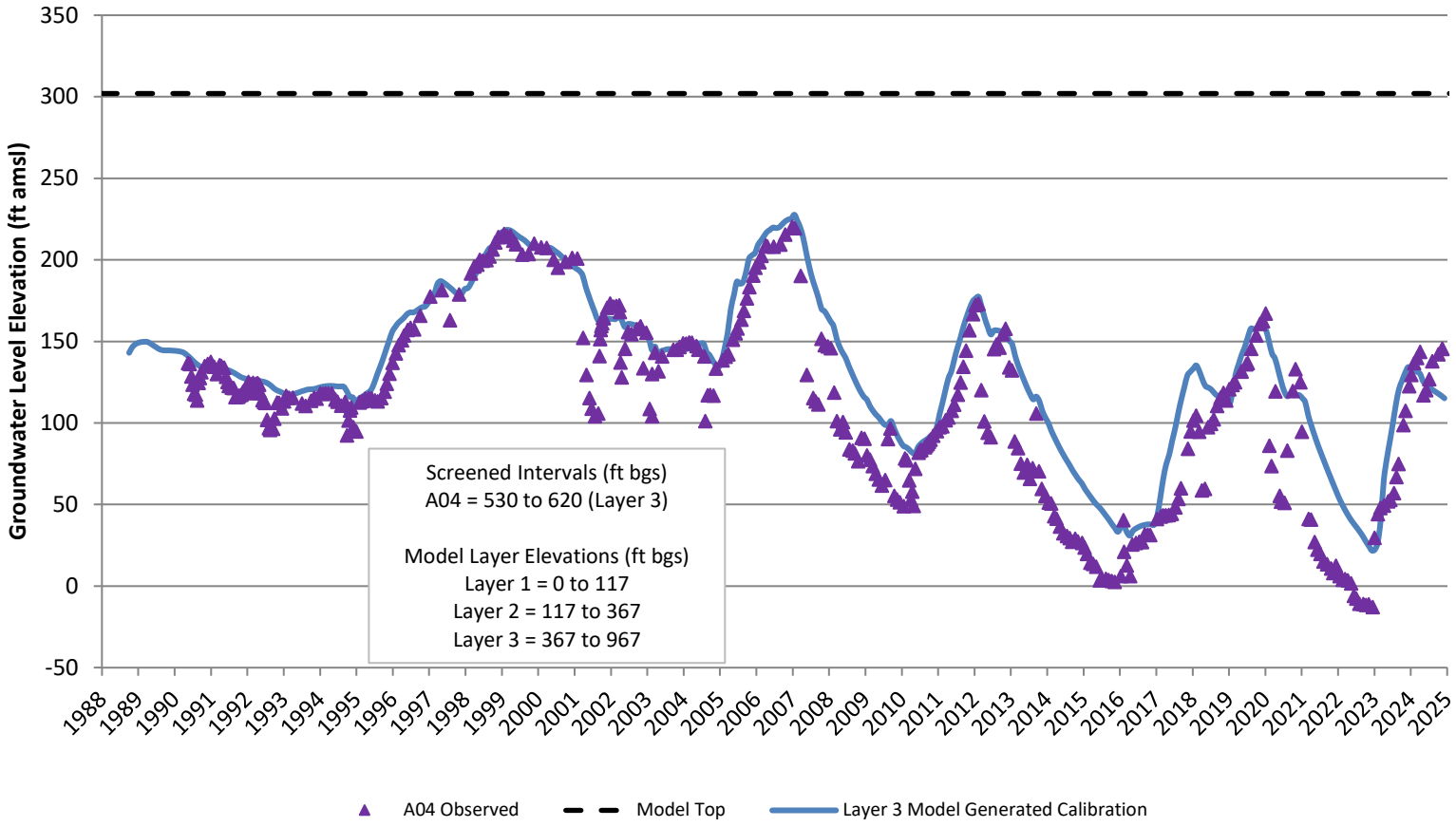


Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update



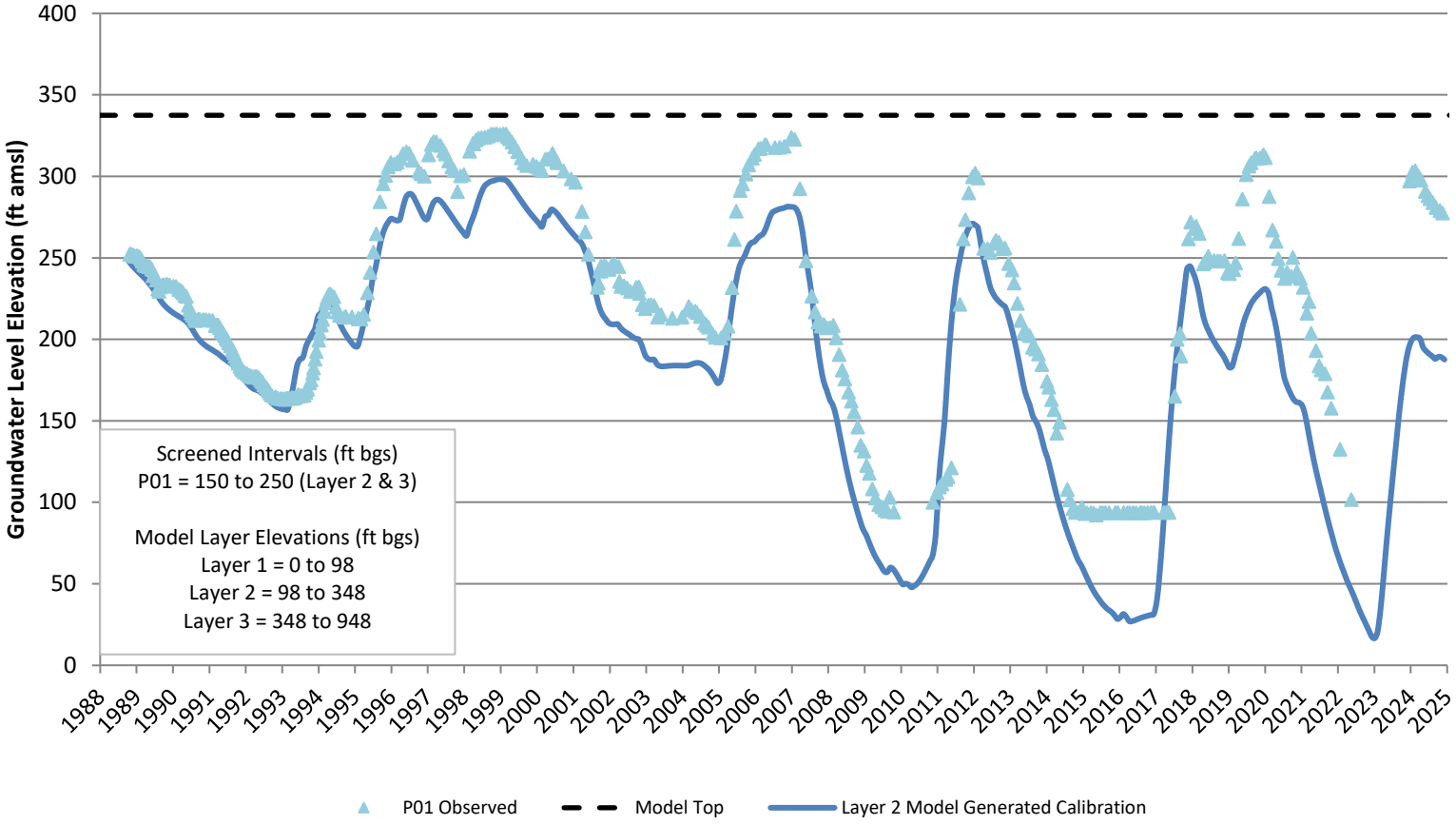
Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update

30S/25E-07A04 - Layer 3



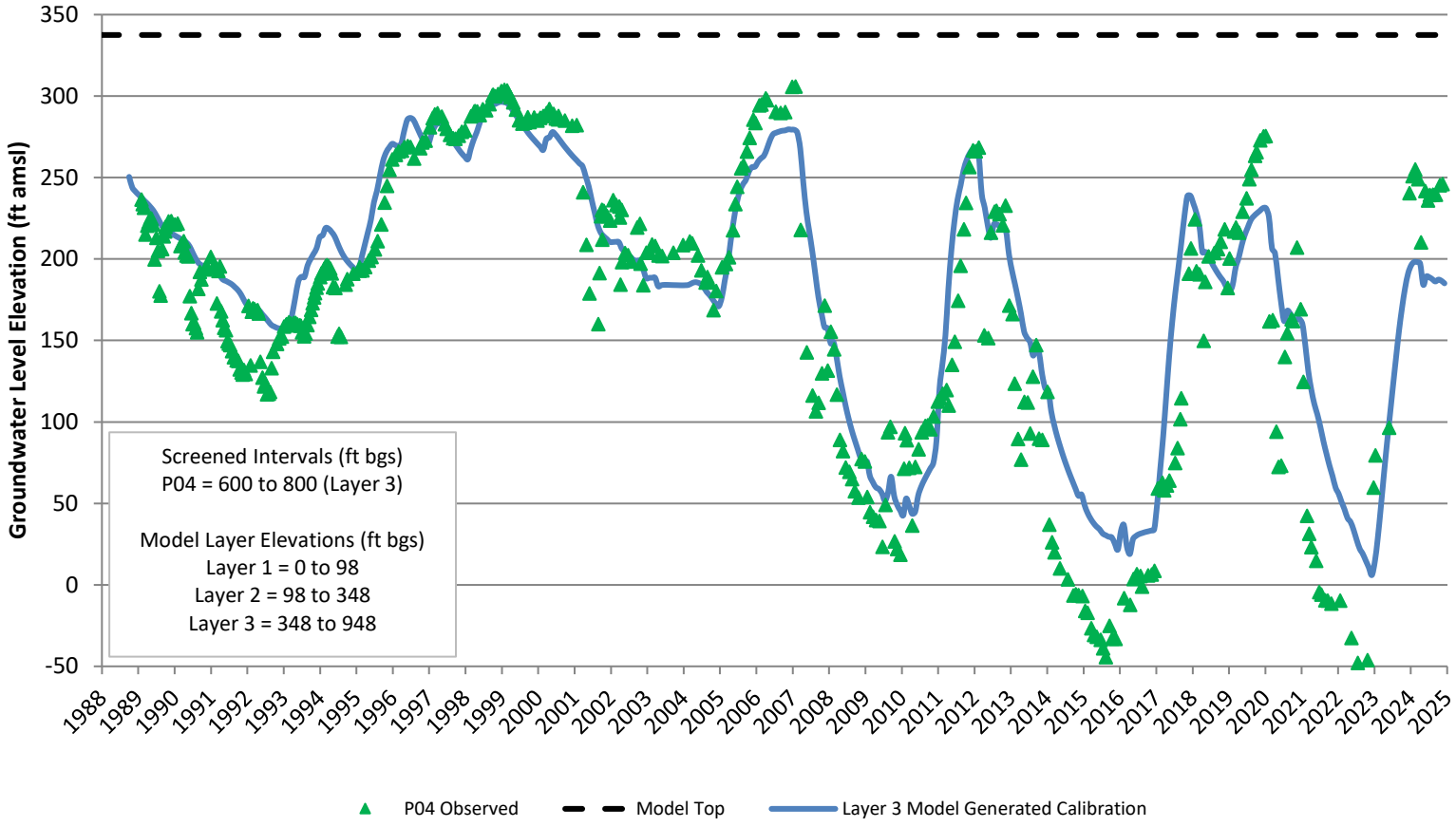
Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update

30S/26E-08P01 - Layer 2

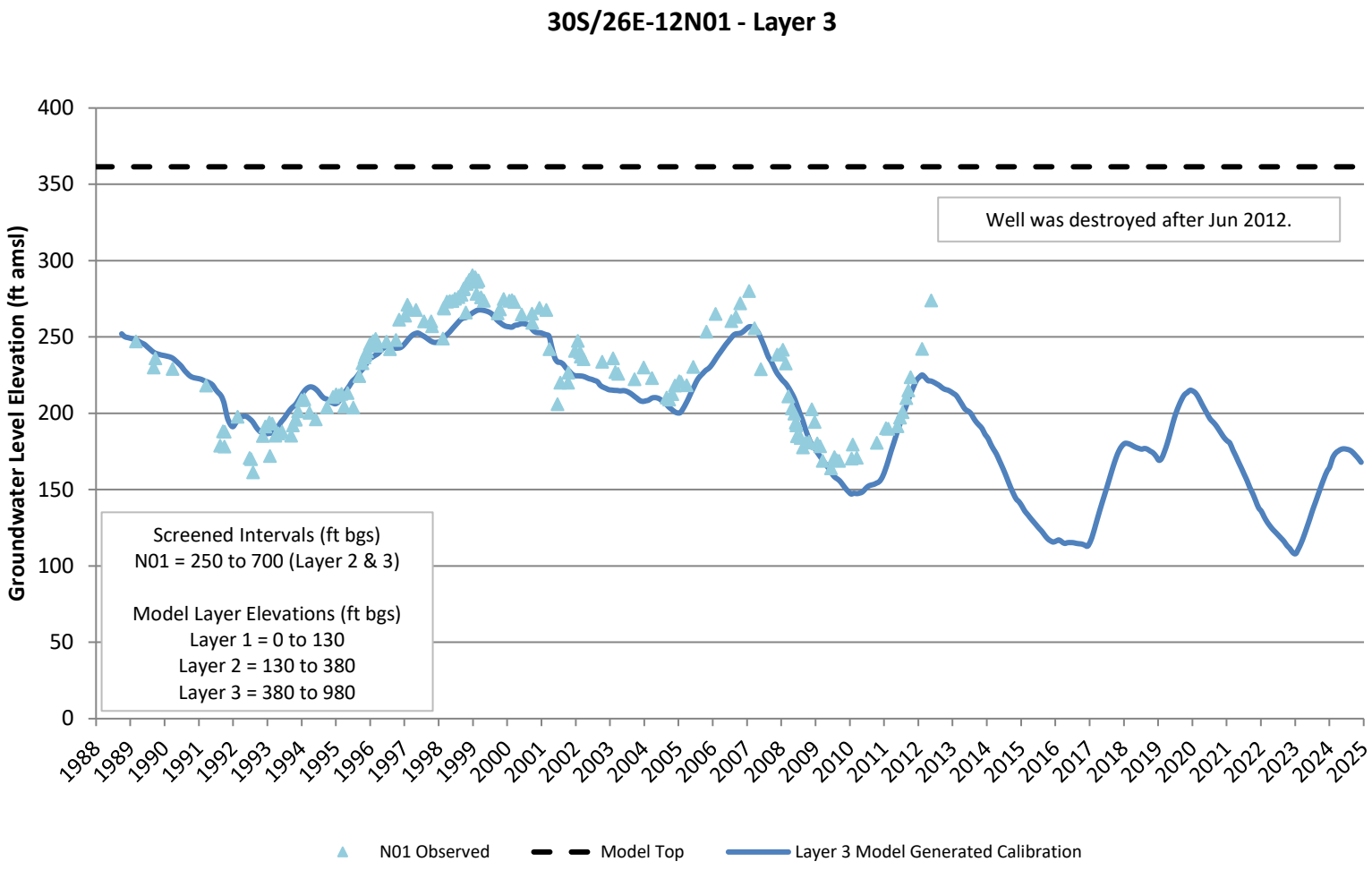


Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update

30S/26E-08P04 - Layer 3

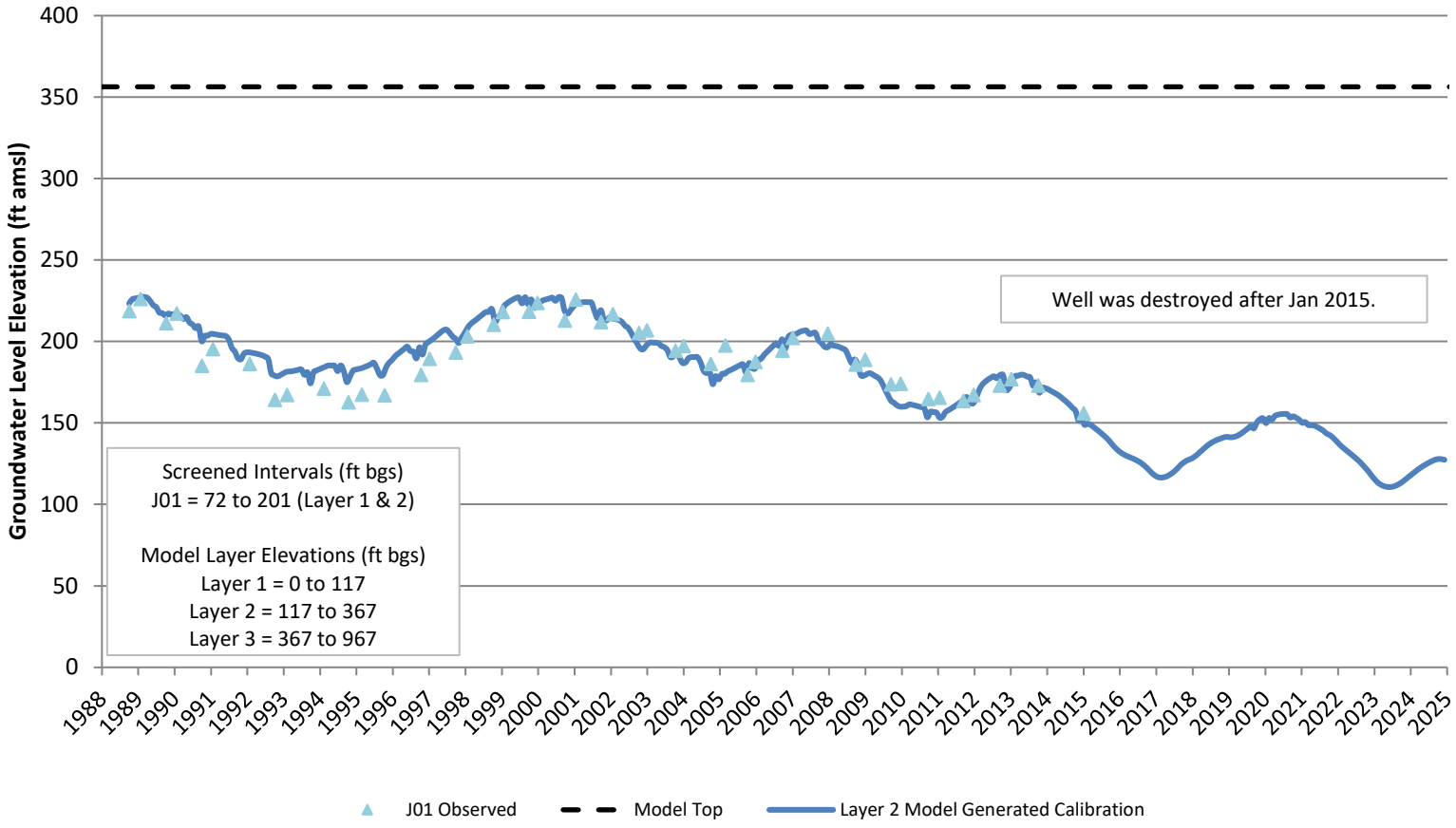


Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update



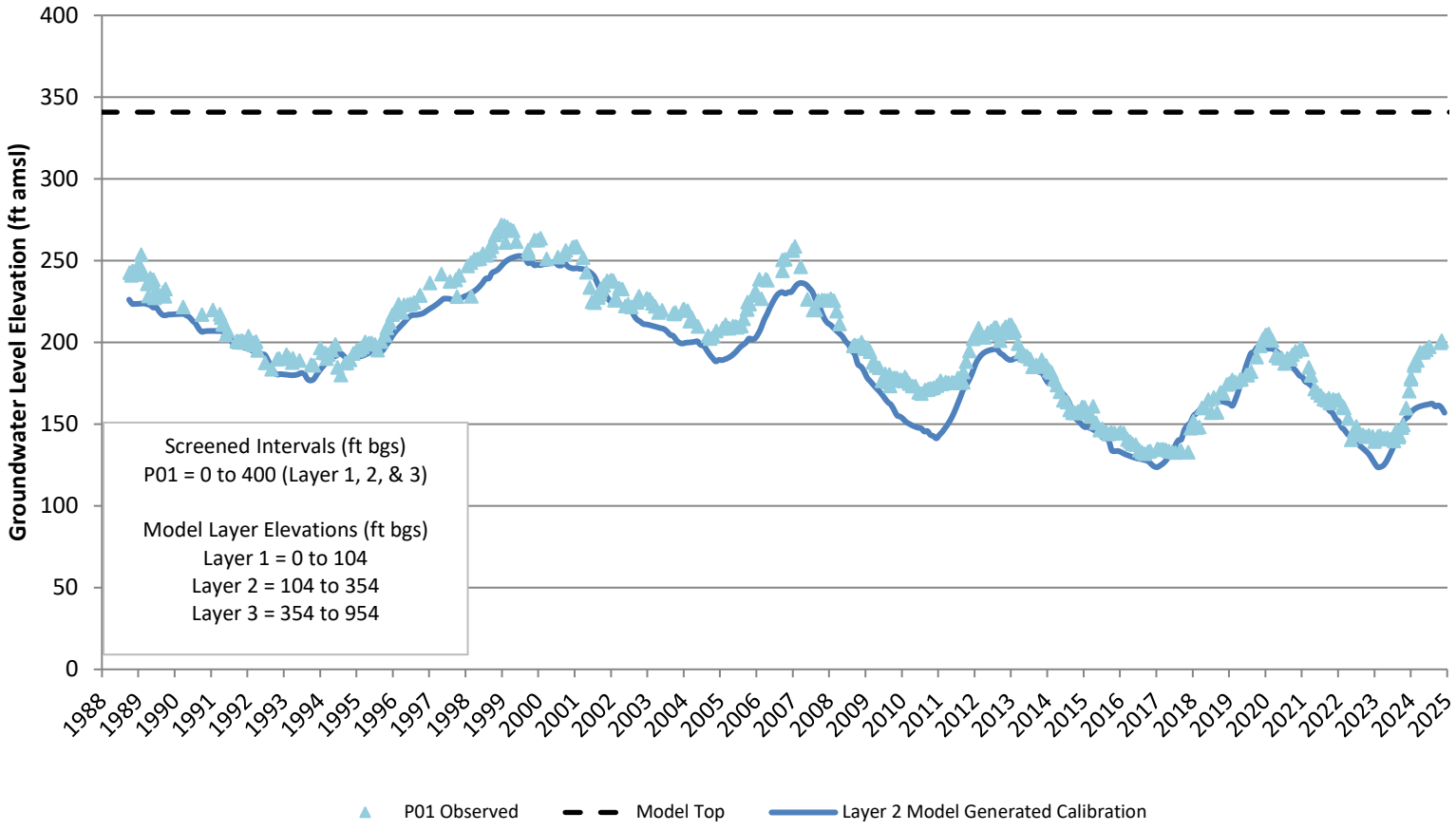
Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update

29S/26E-15J01 - Layer 2



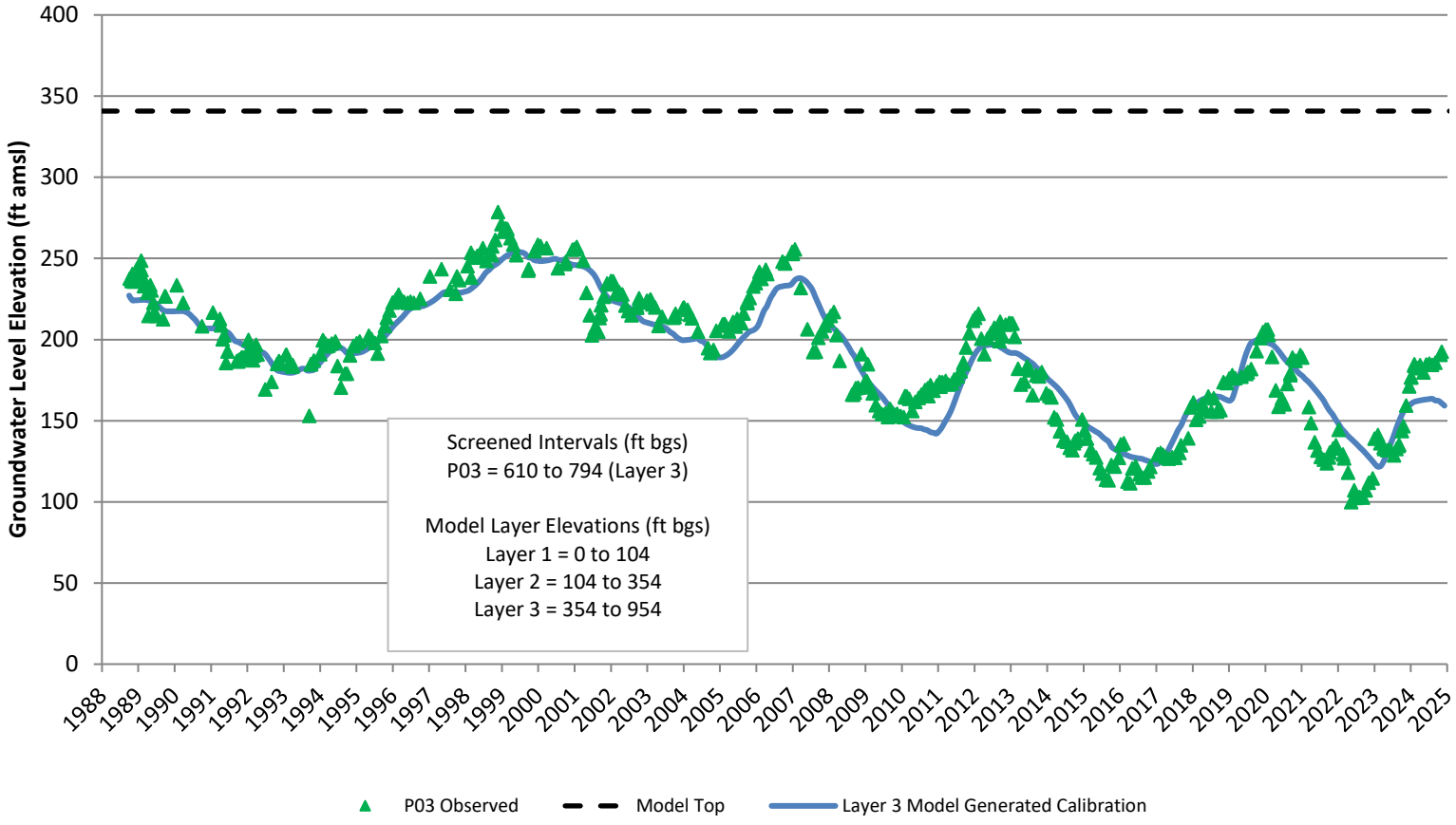
Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update

30S/26E-22P01 - Layer 2



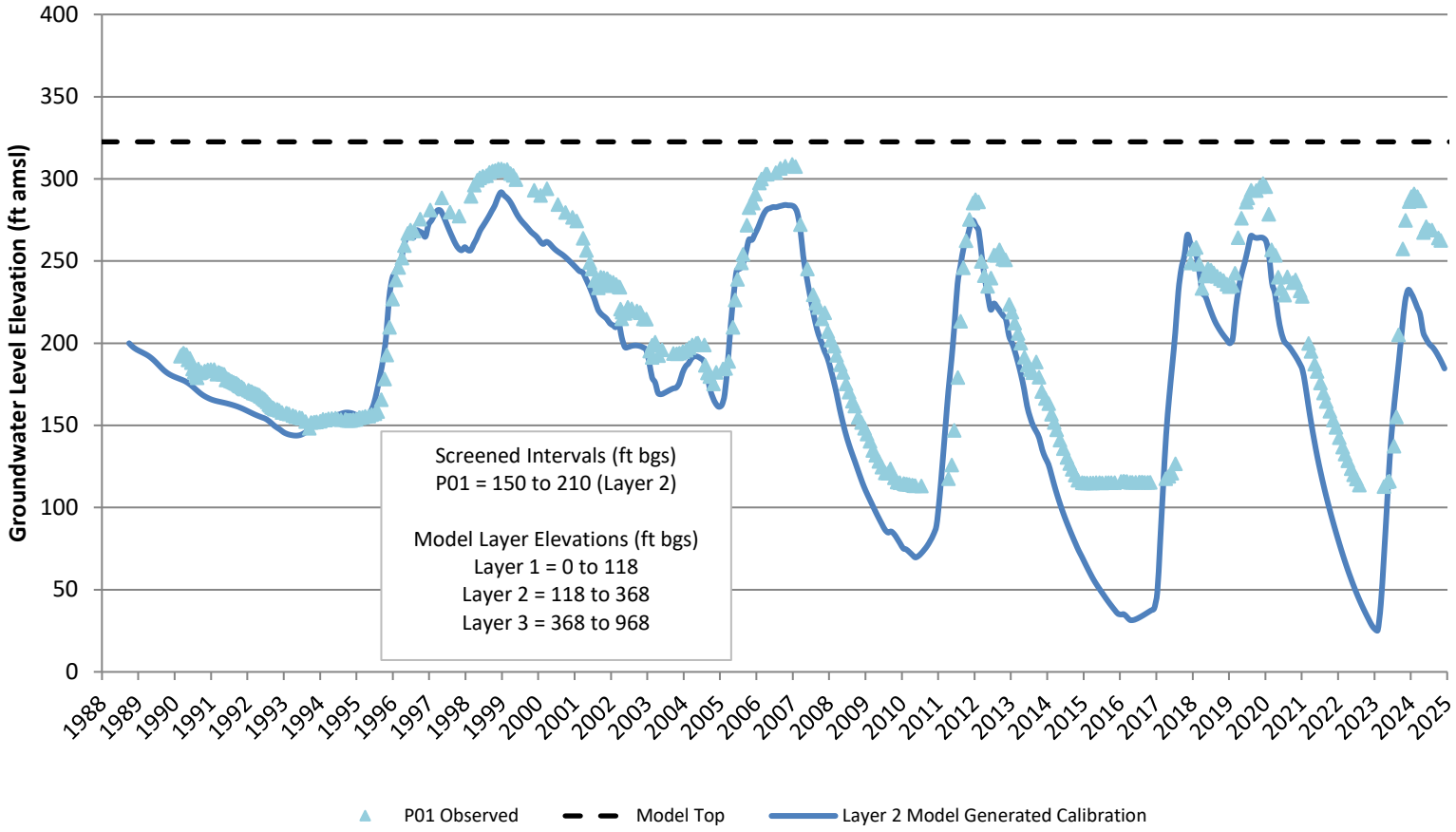
Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update

30S/26E-22P03 - Layer 3

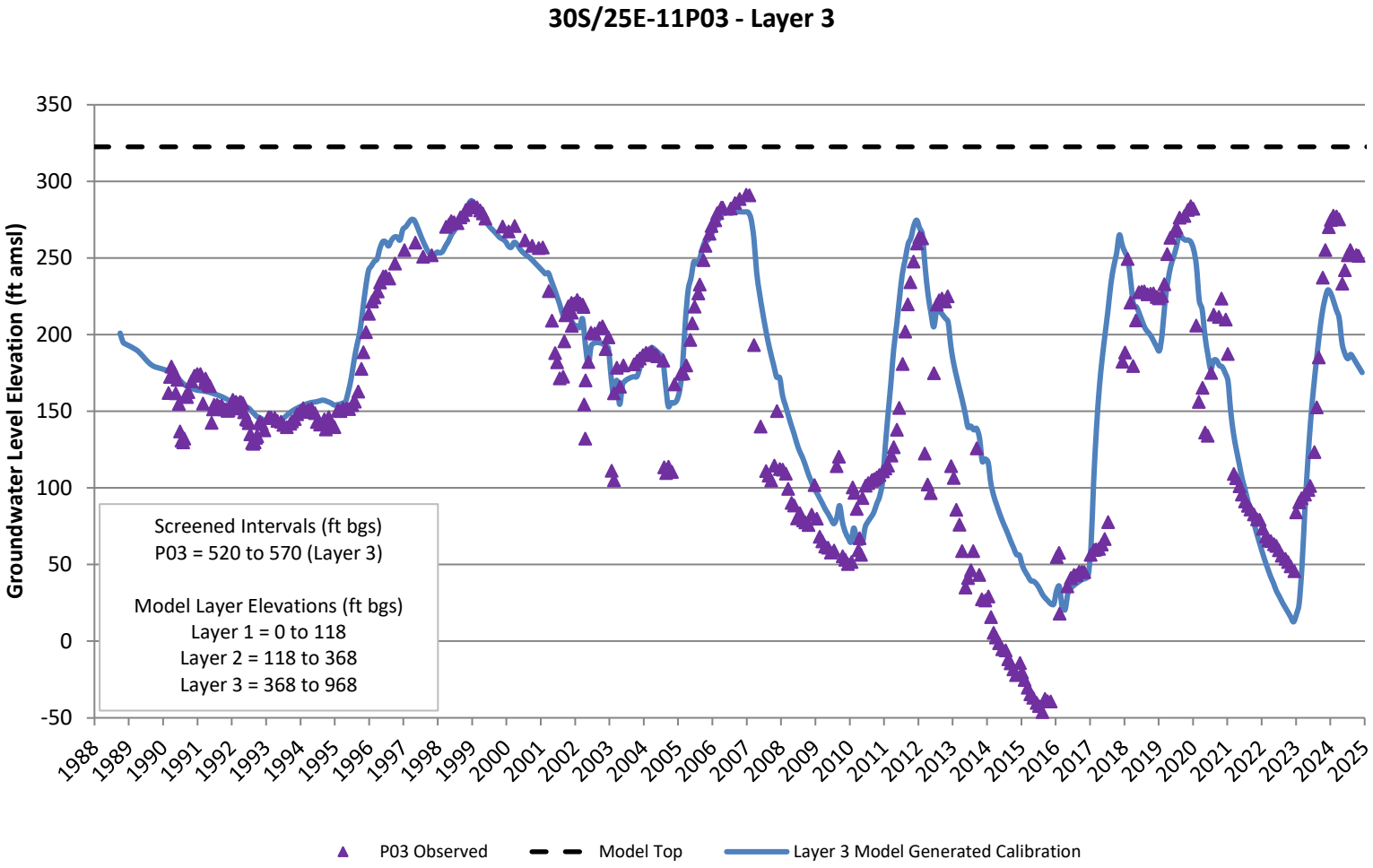


Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update

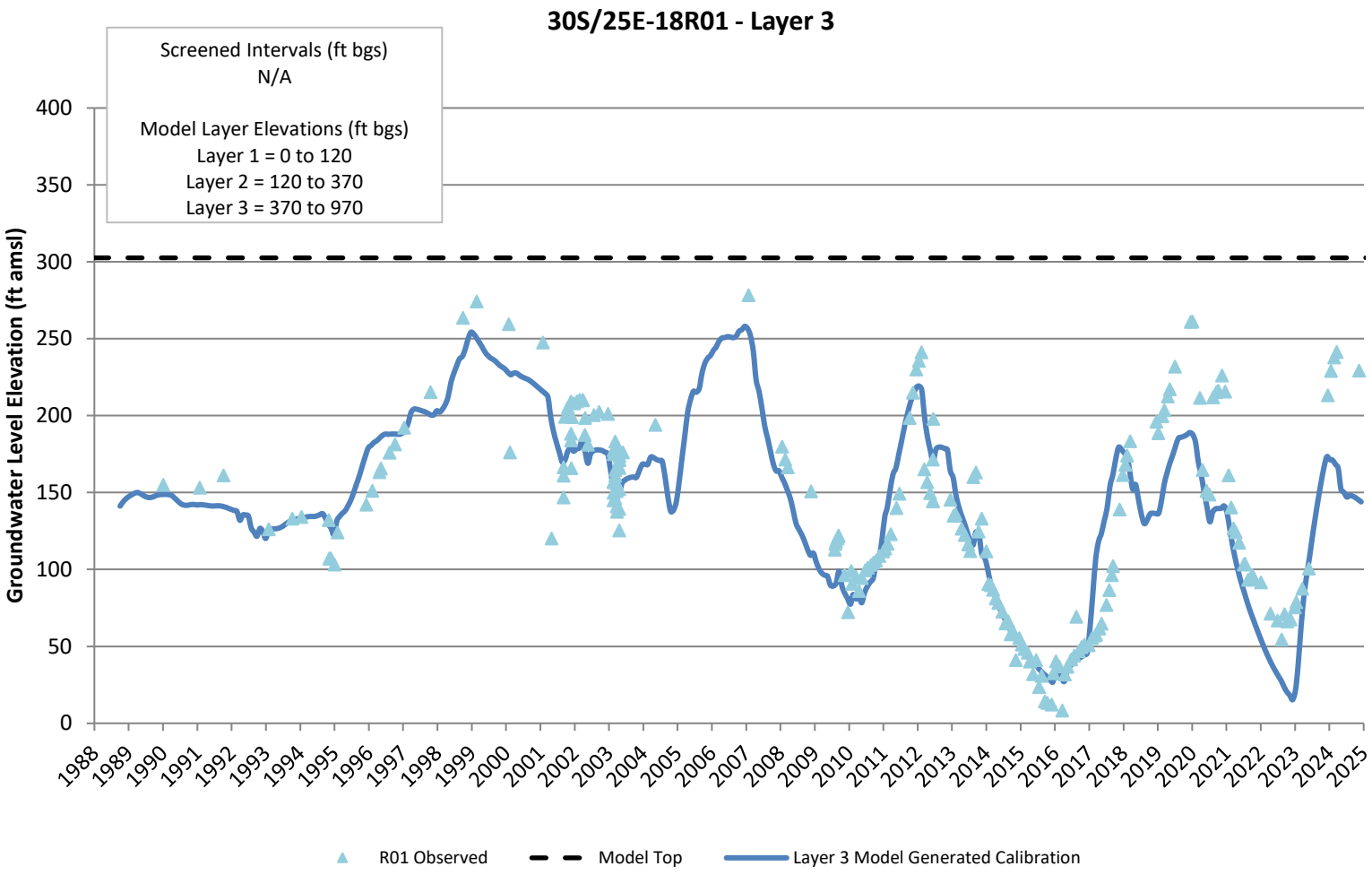
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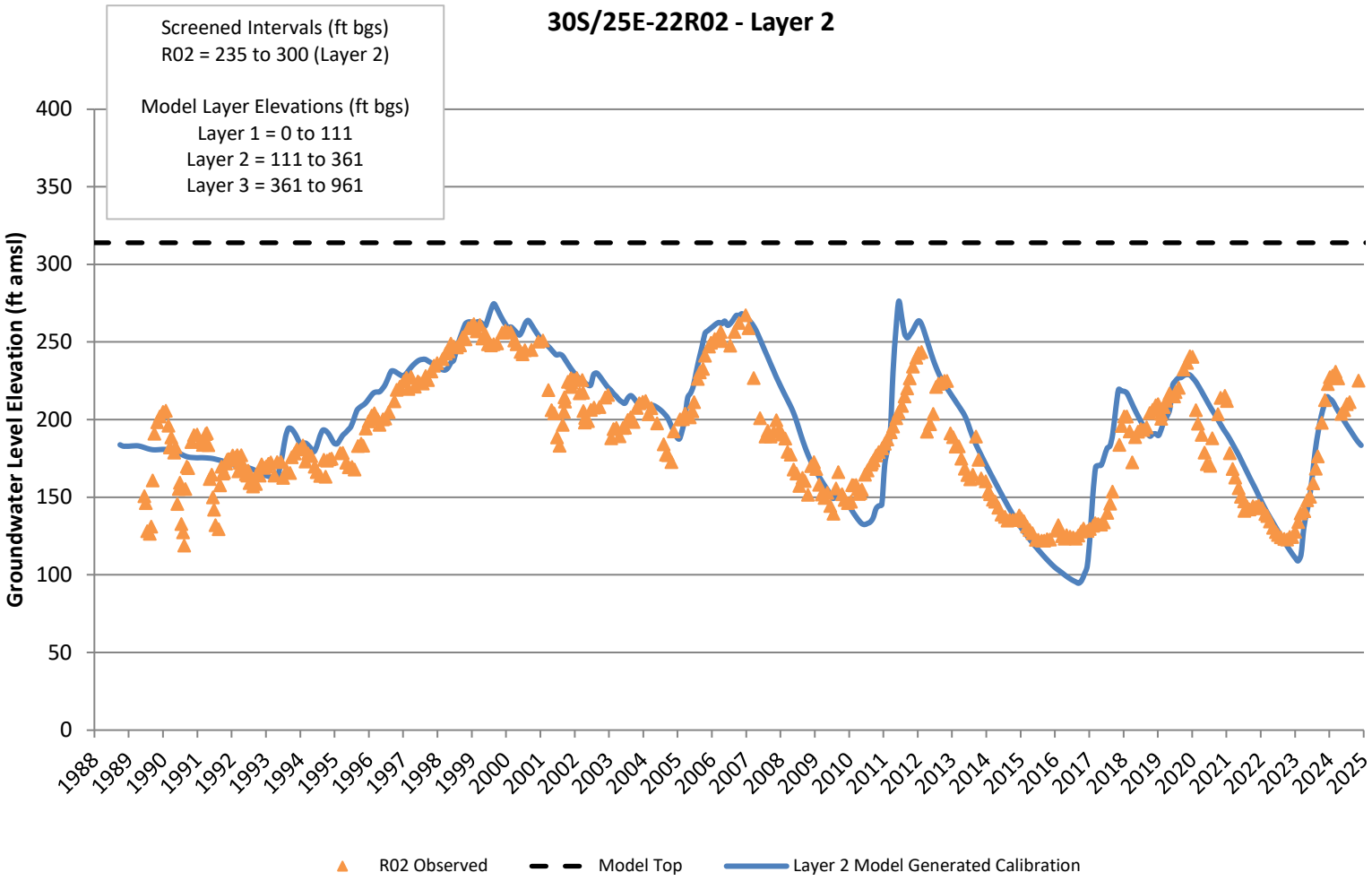
Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update



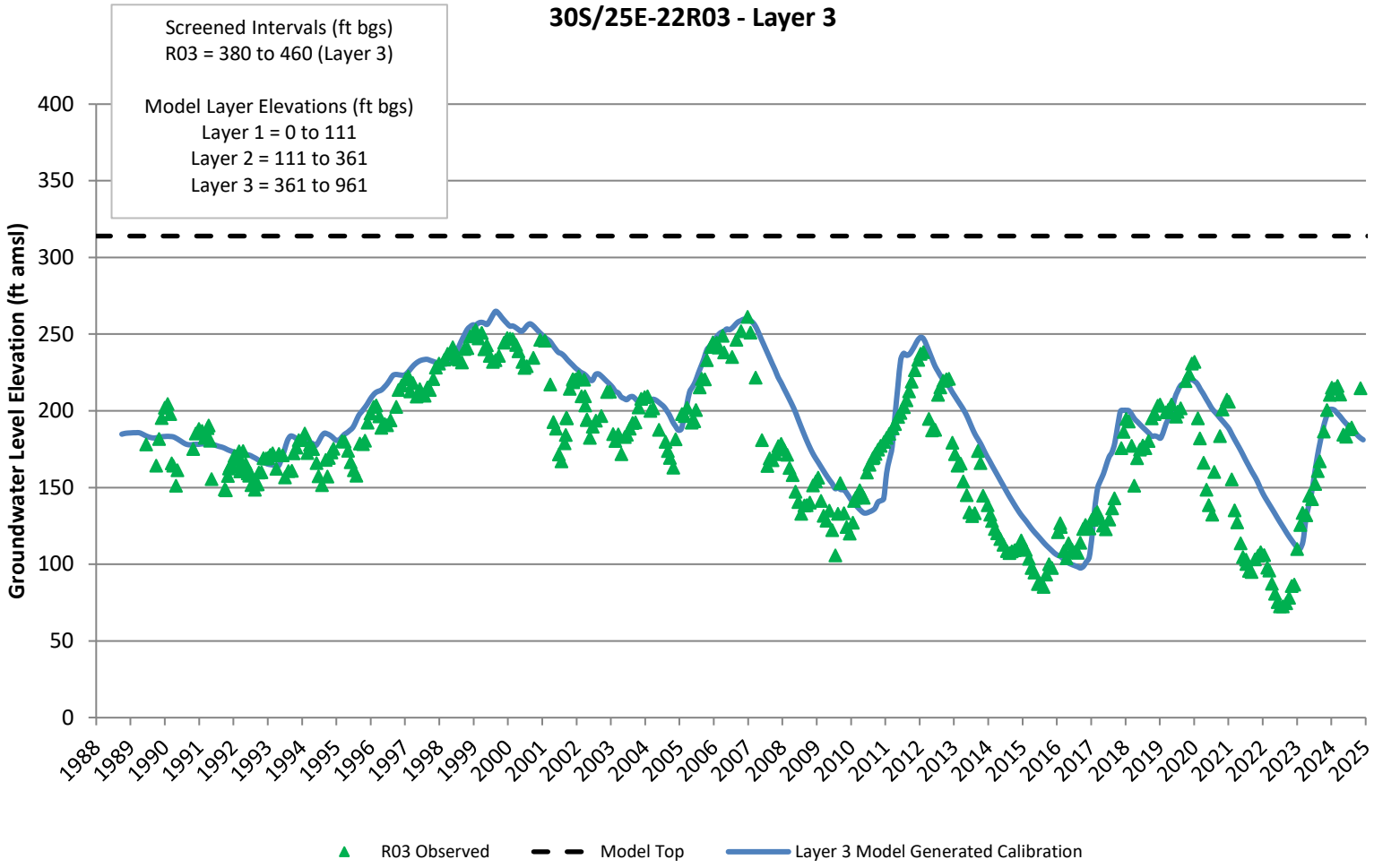
Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update



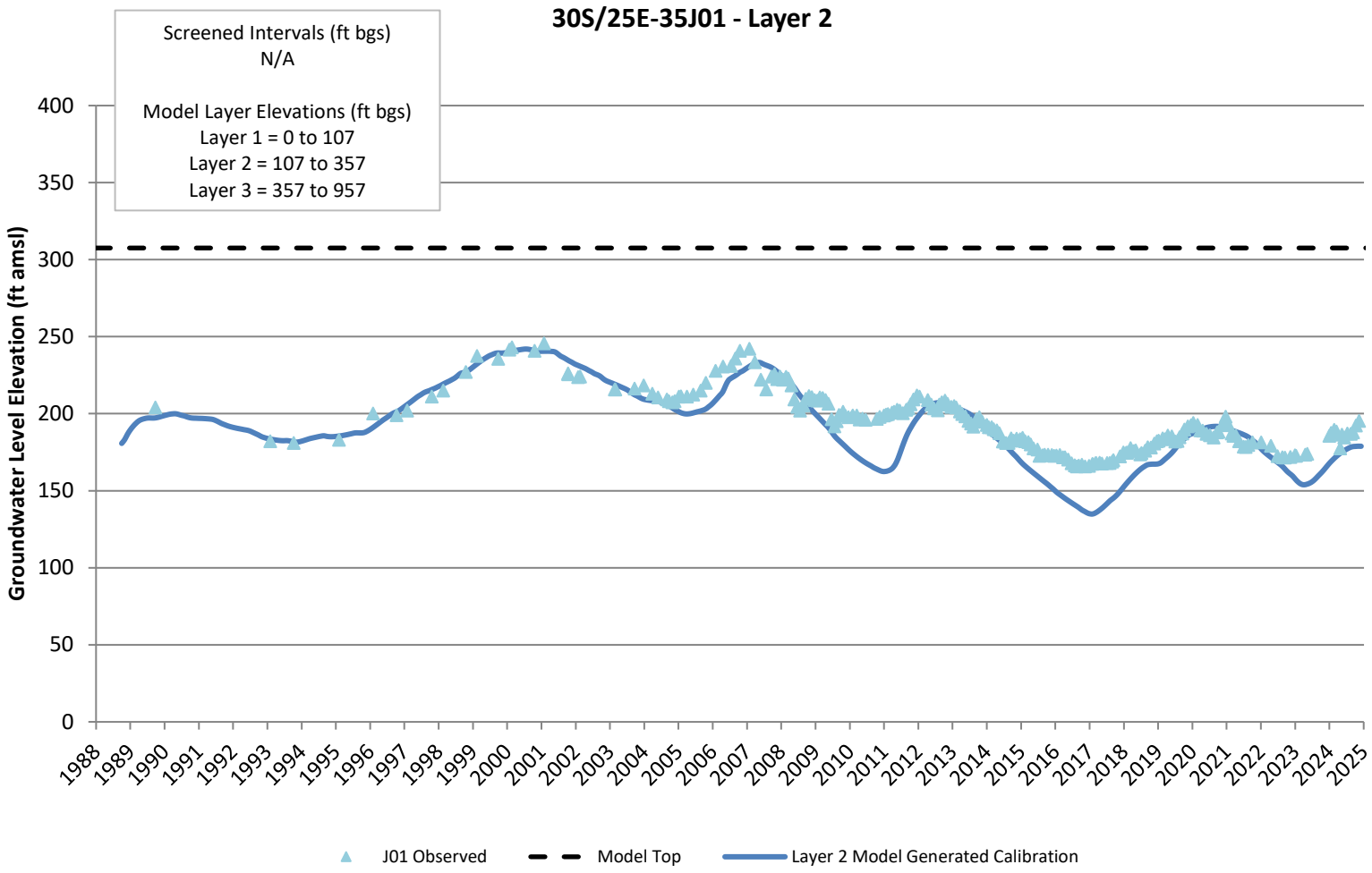
Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update



Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update

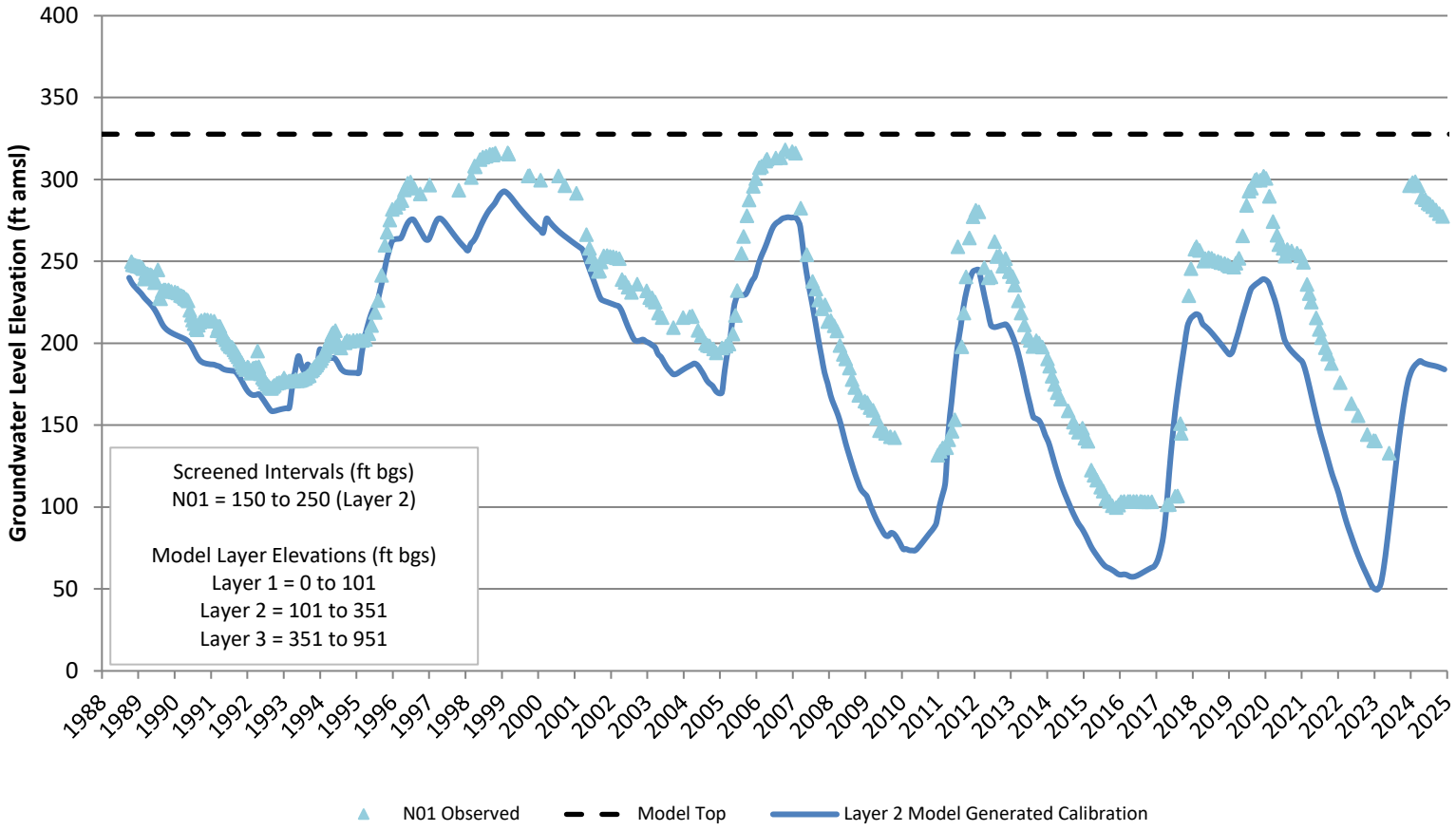


Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update



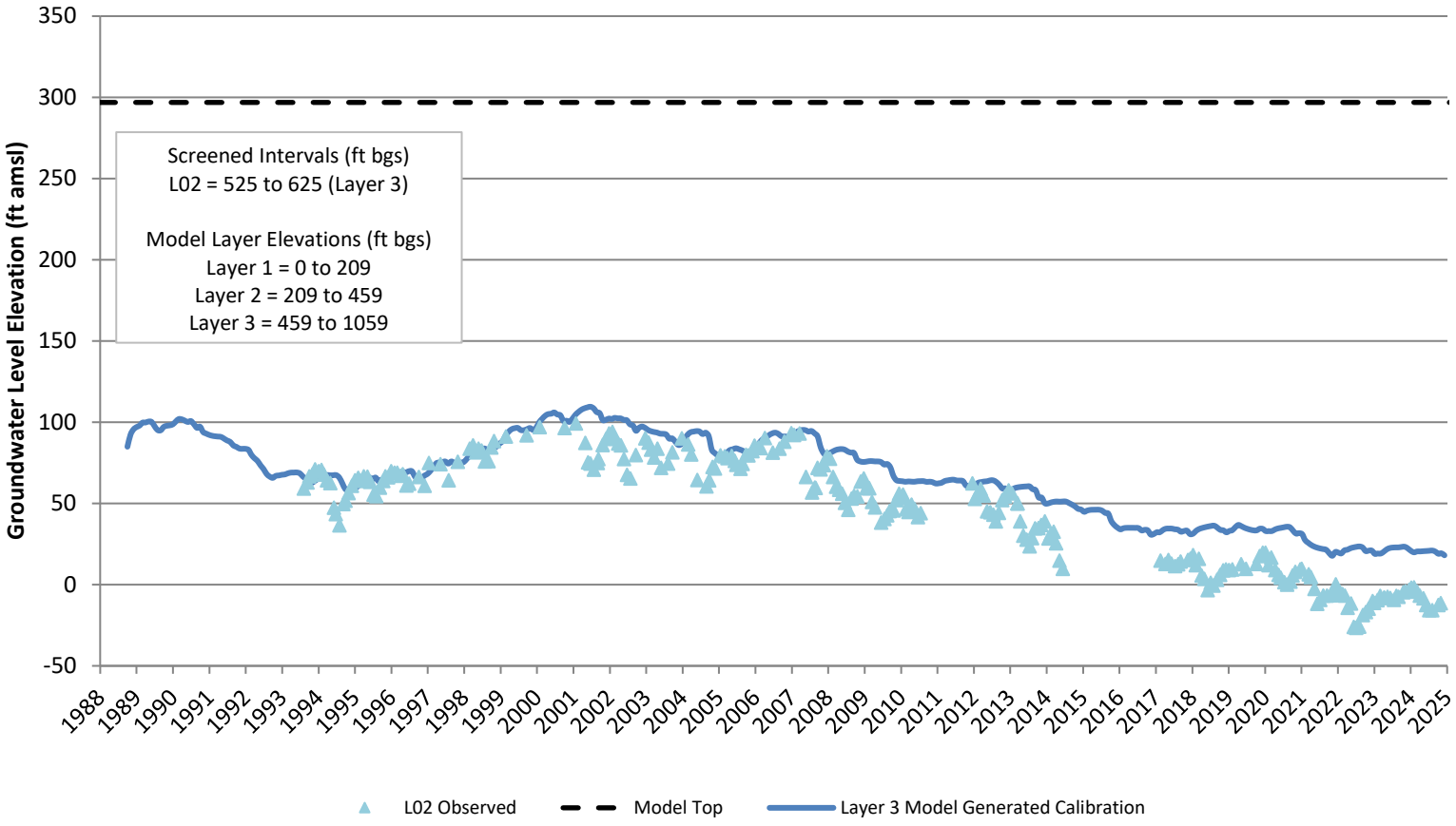
Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update

30S/26E-18N01 - Layer 2



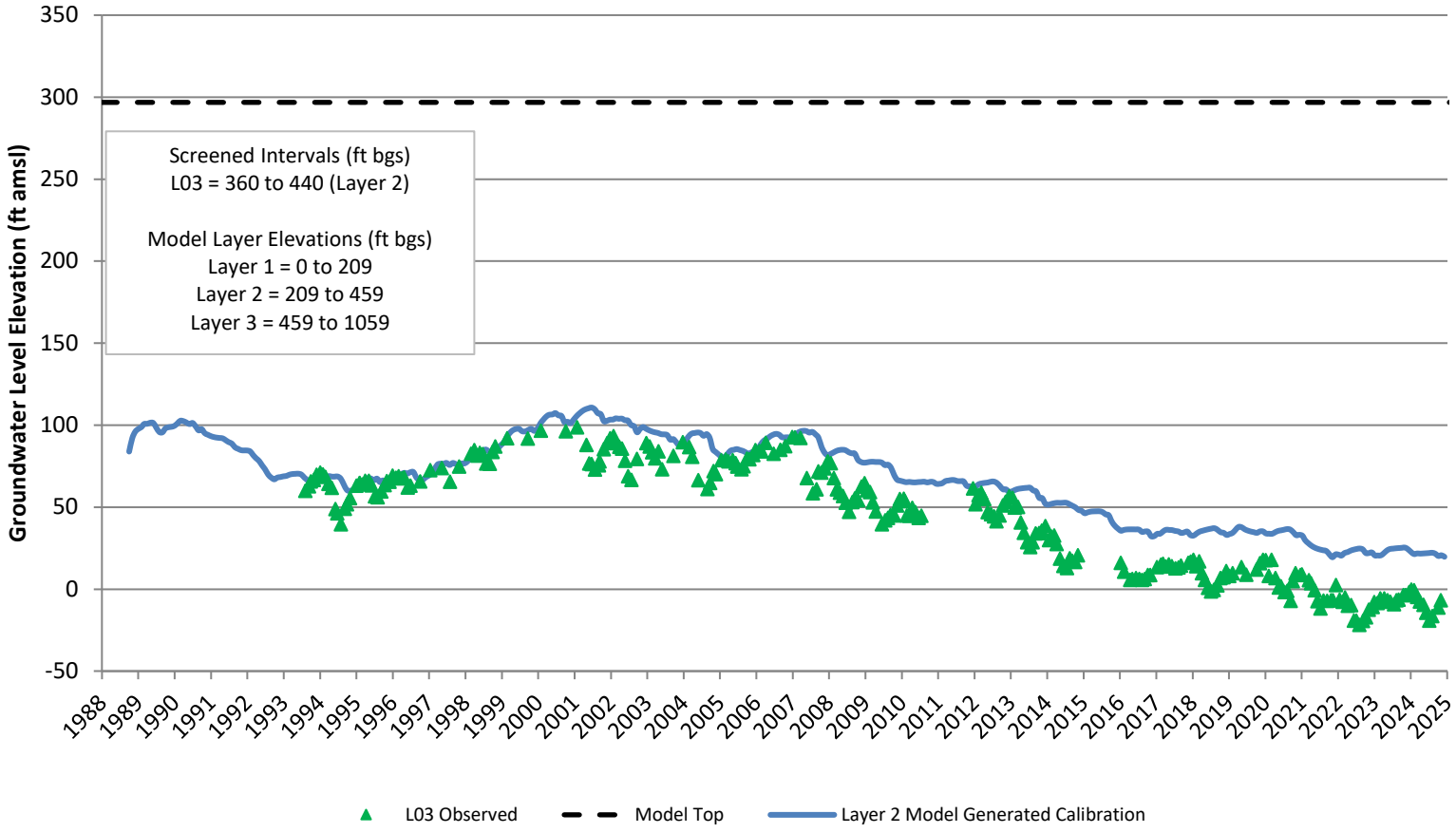
Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update

29S/24E-08L02 - Layer 3

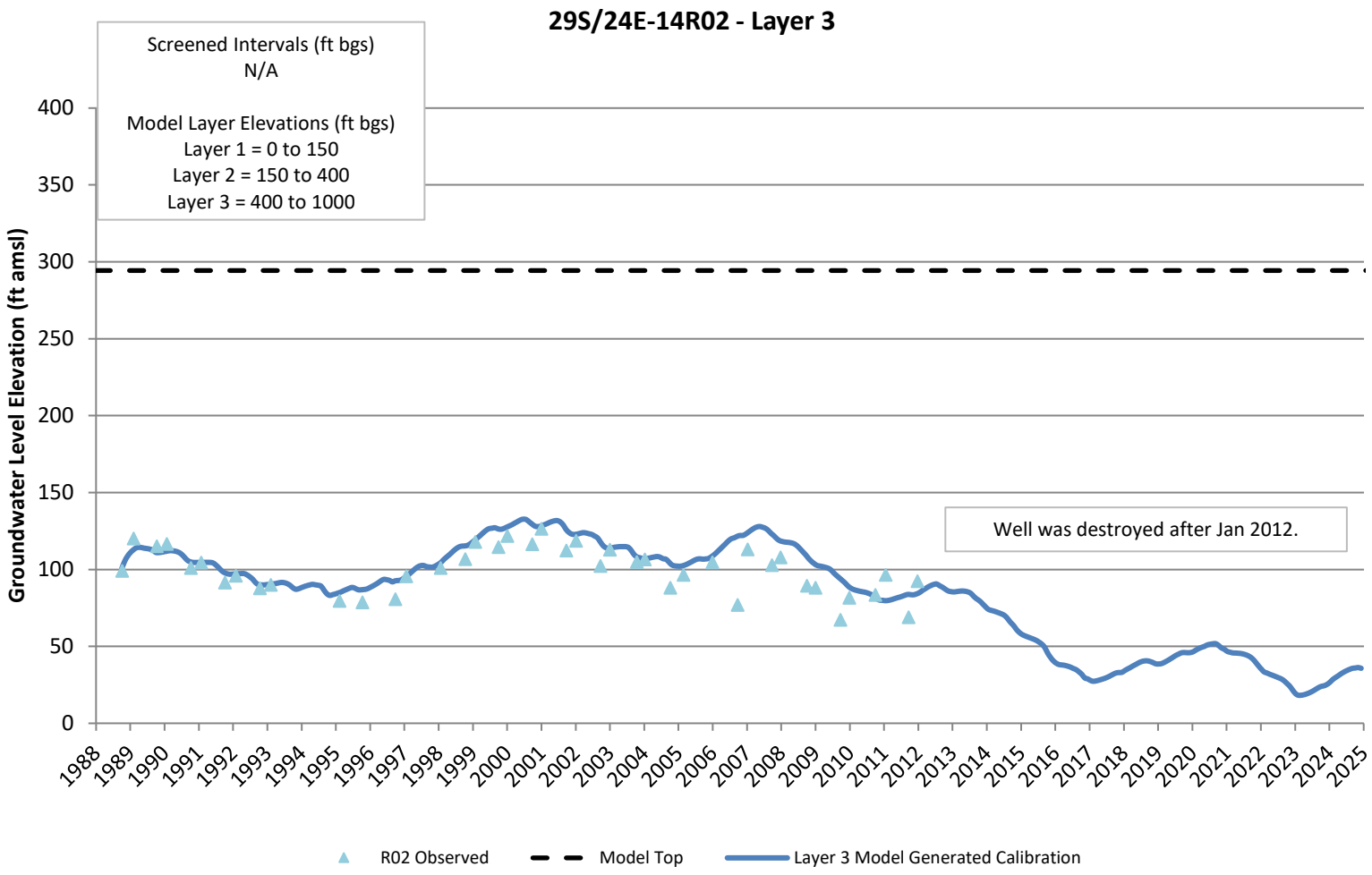


Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update

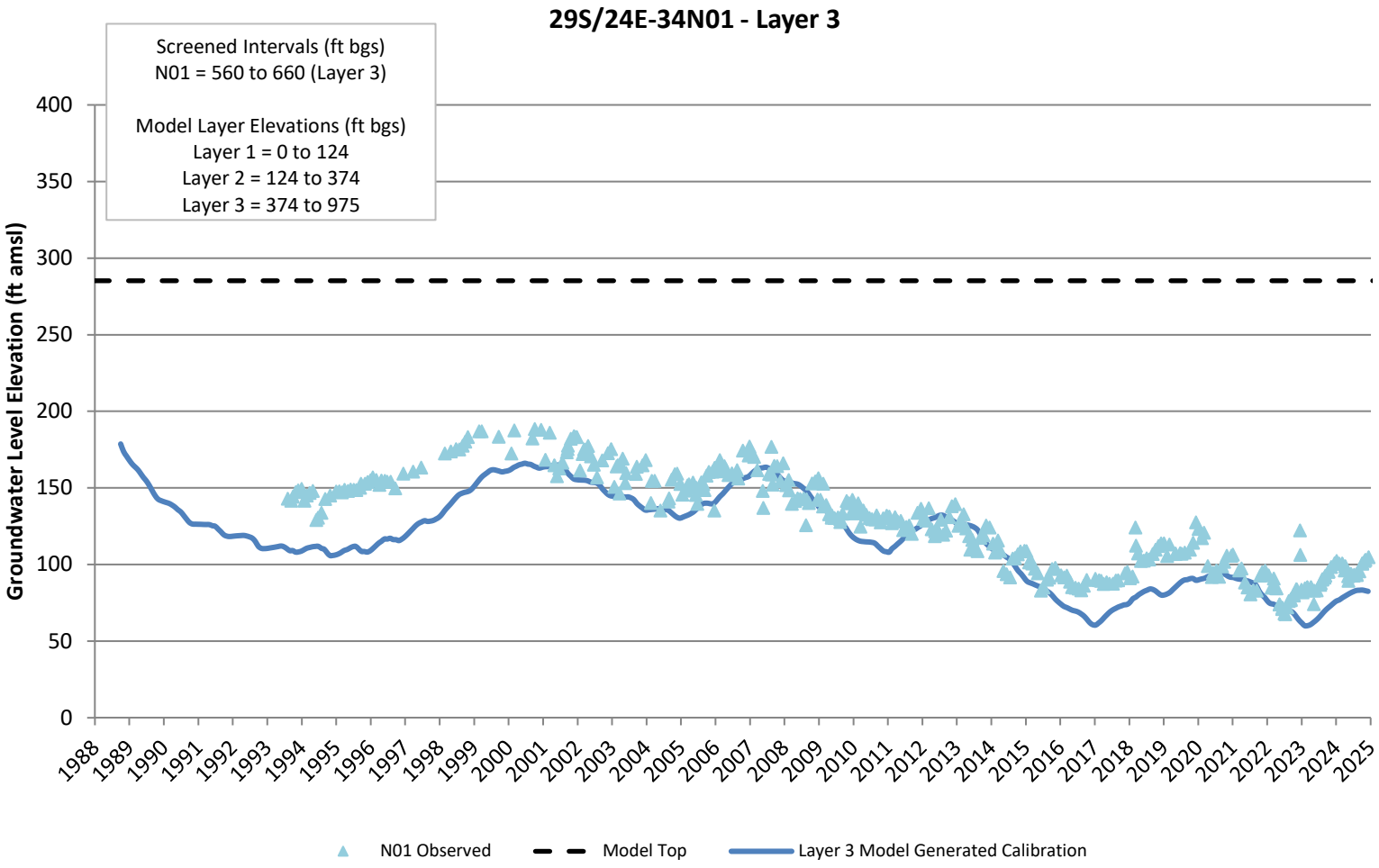
29S24E-08L03 - Layer 2



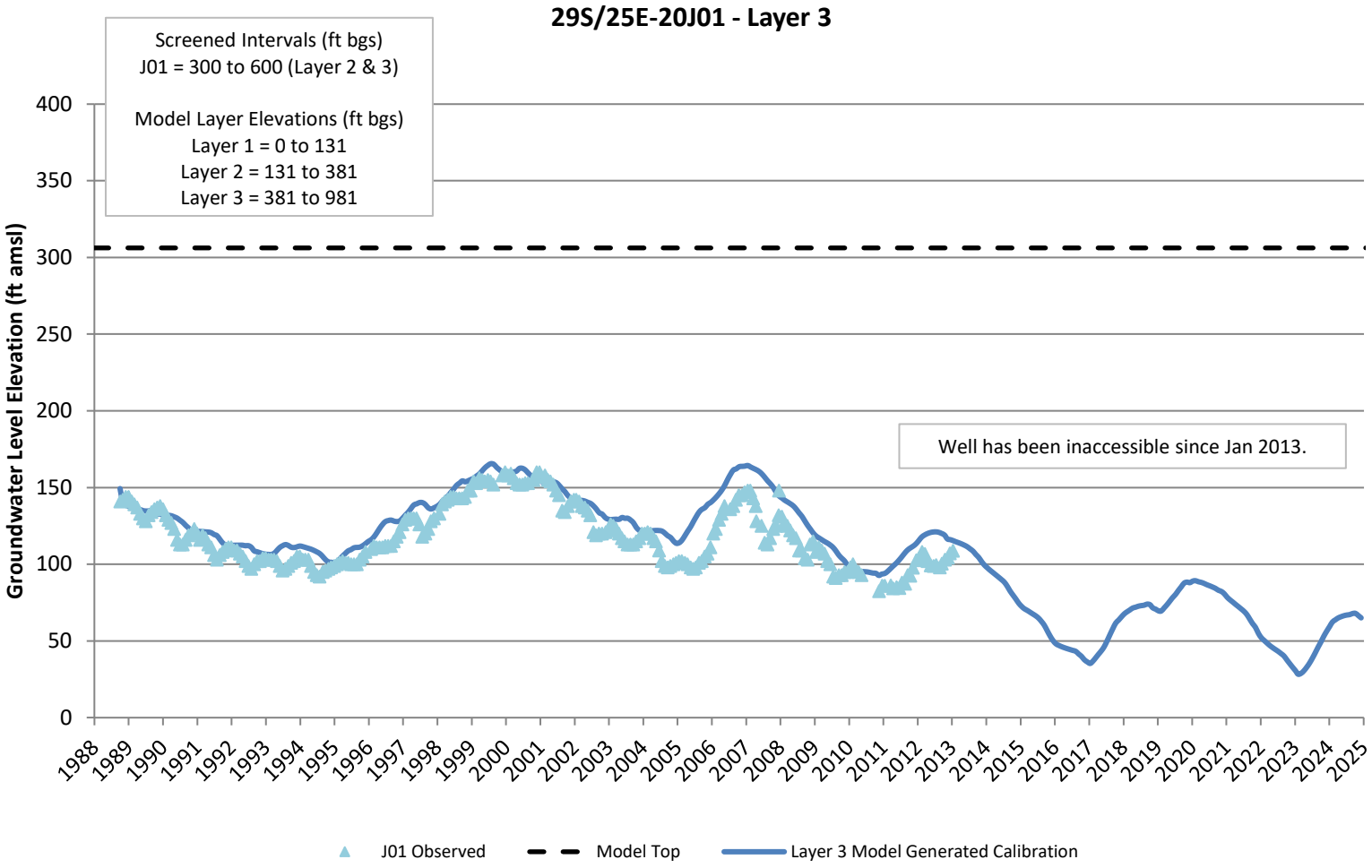
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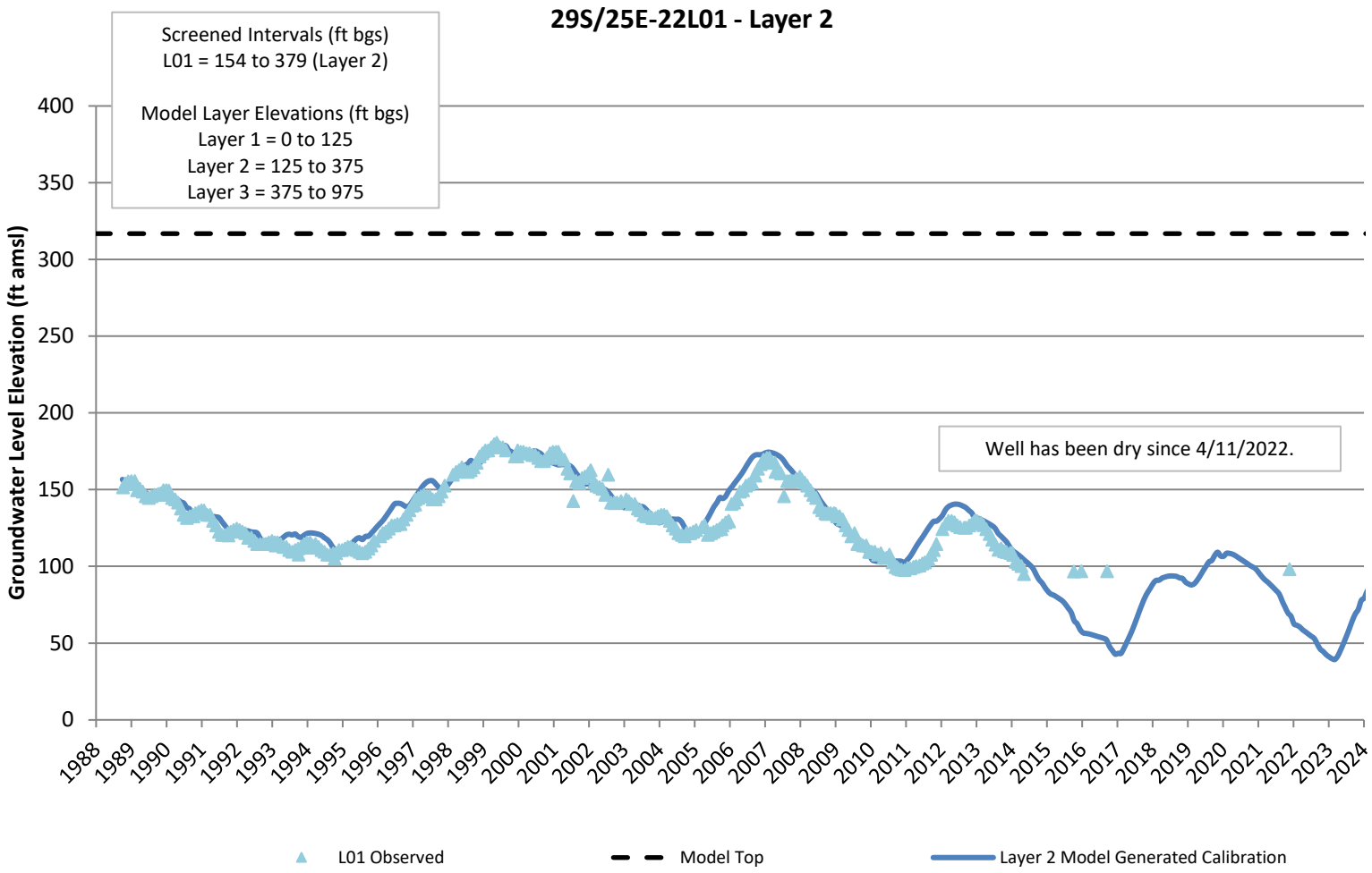
Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update



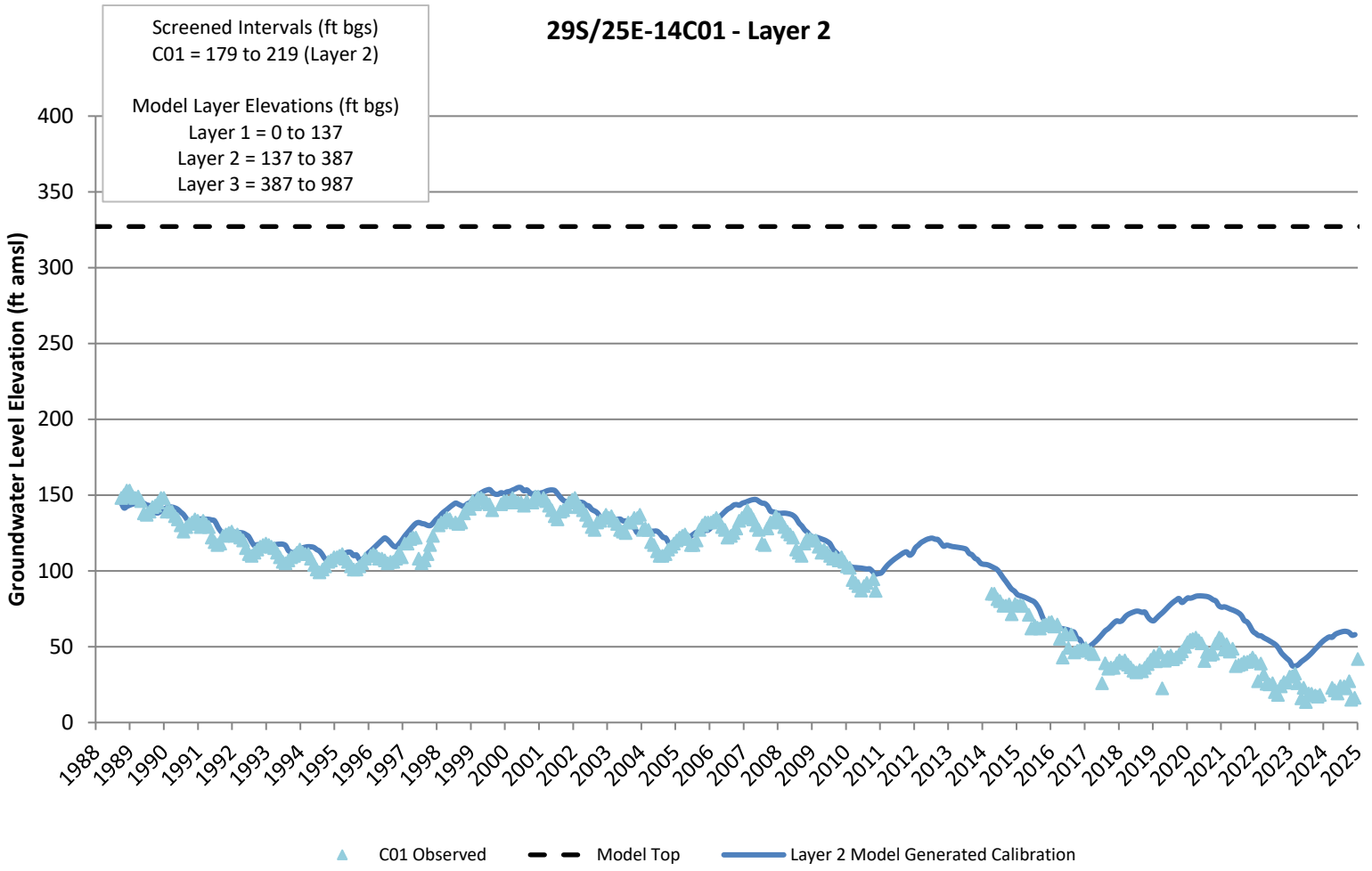
Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update



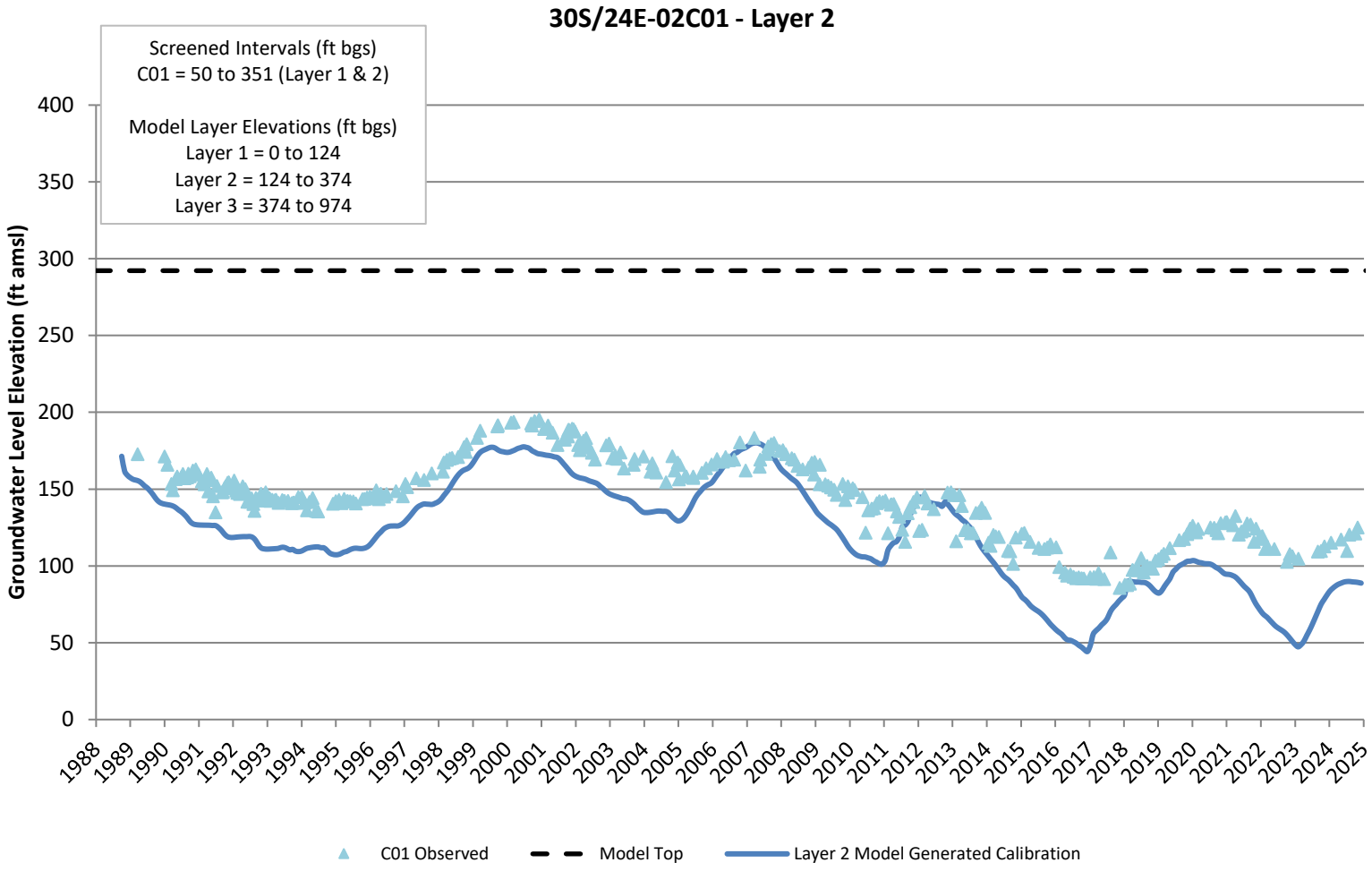
Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update



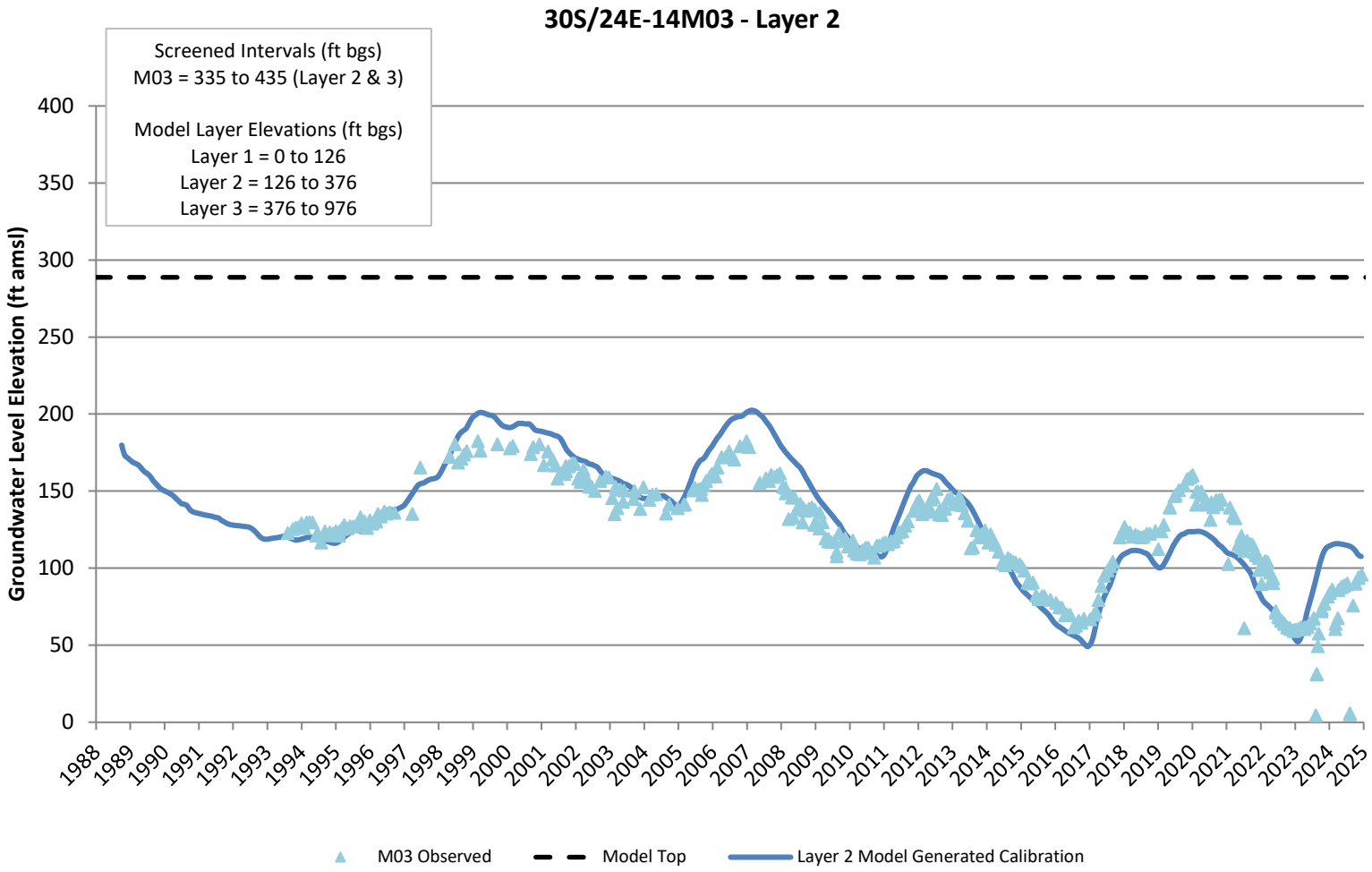
Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update



Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update



Comparison of Model-Generated Calibration and Observed Water Levels - 2024 Update

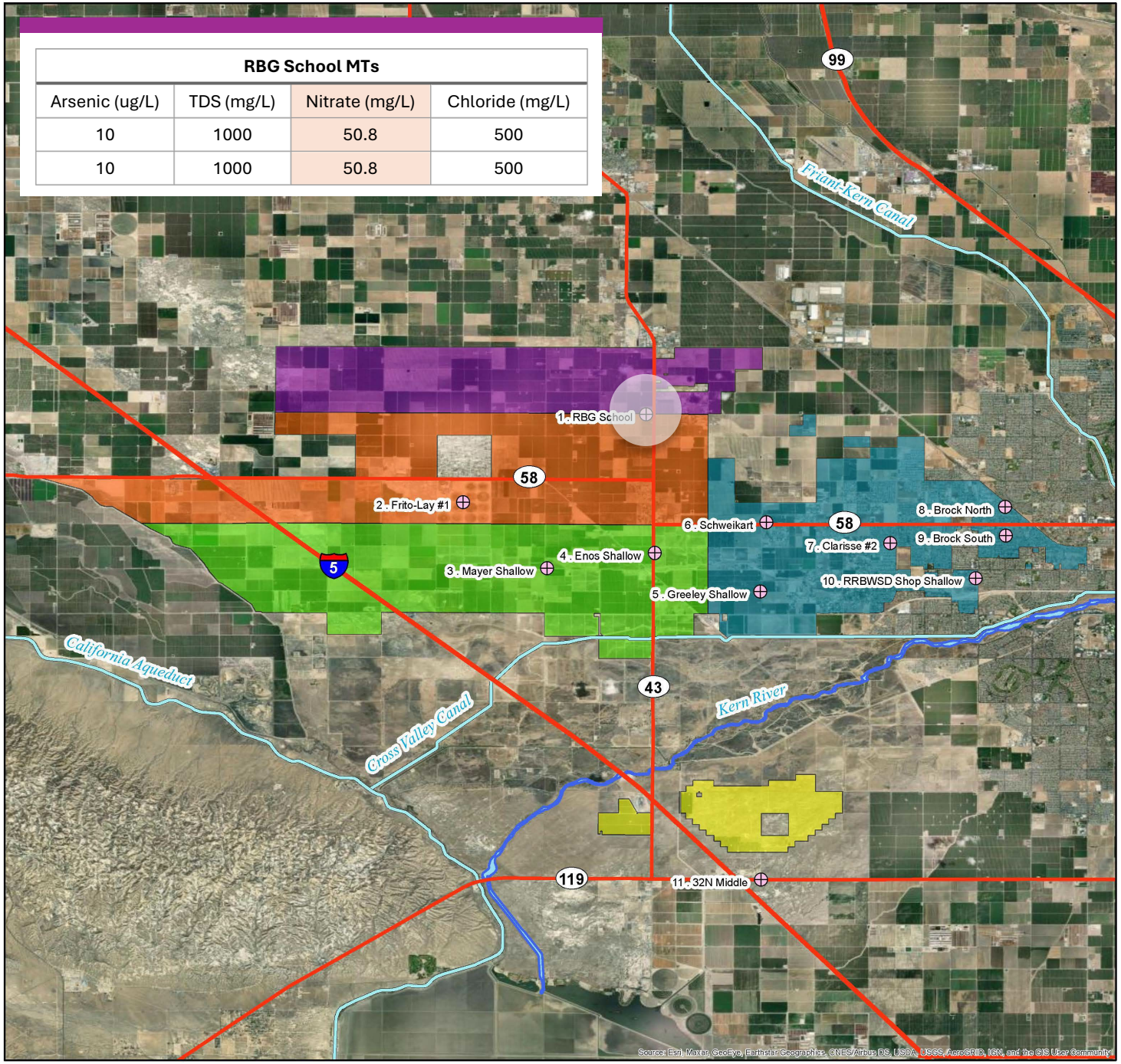


Appendix 3

Groundwater Quality Data

RRBMA Monitoring Areas - Water Quality Wells

RBG School MTs			
Arsenic (ug/L)	TDS (mg/L)	Nitrate (mg/L)	Chloride (mg/L)
10	1000	50.8	500
10	1000	50.8	500



Legend

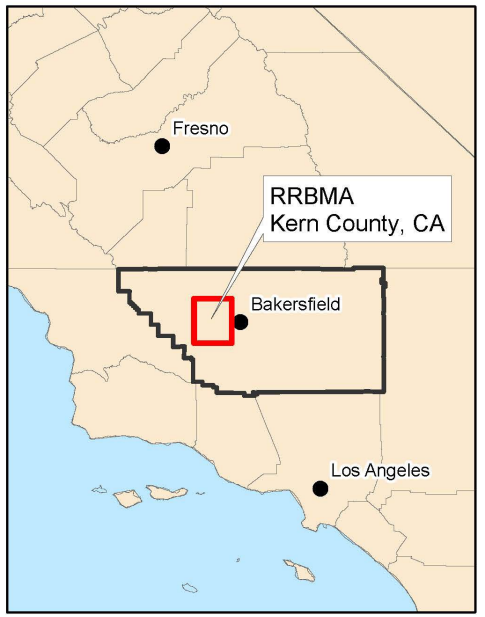
- RRBMA RMW (Water Quality)
- KernRiver
- North Monitoring Area
- Central Monitoring Area
- South Monitoring Area
- East Monitoring Area
- South of the River Monitoring Area
- Major Highways
- Major Conveyance Facilities

RMW = Representative Monitoring Well

N

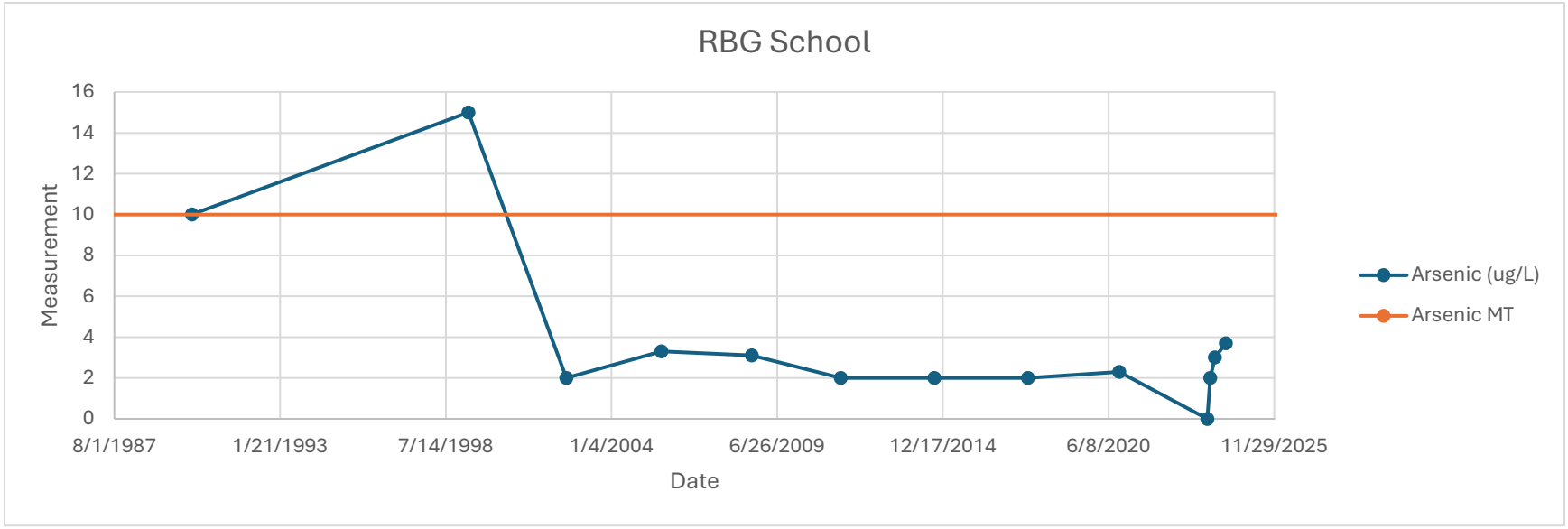
0 1.75 3.5 7

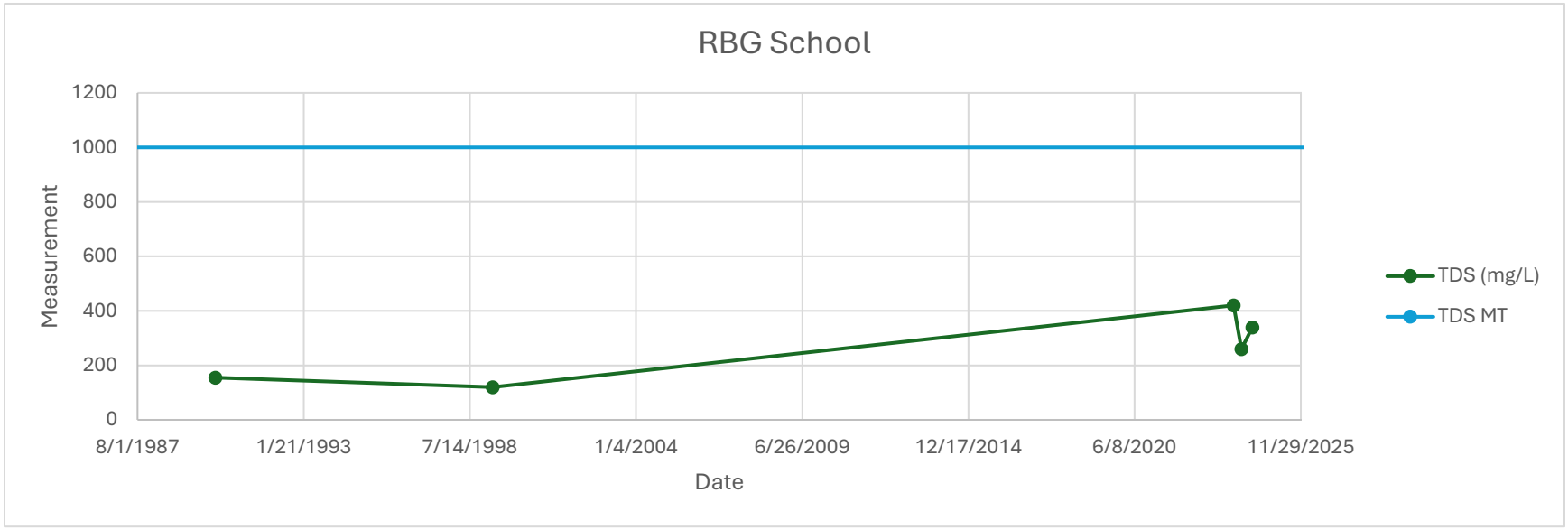
Miles

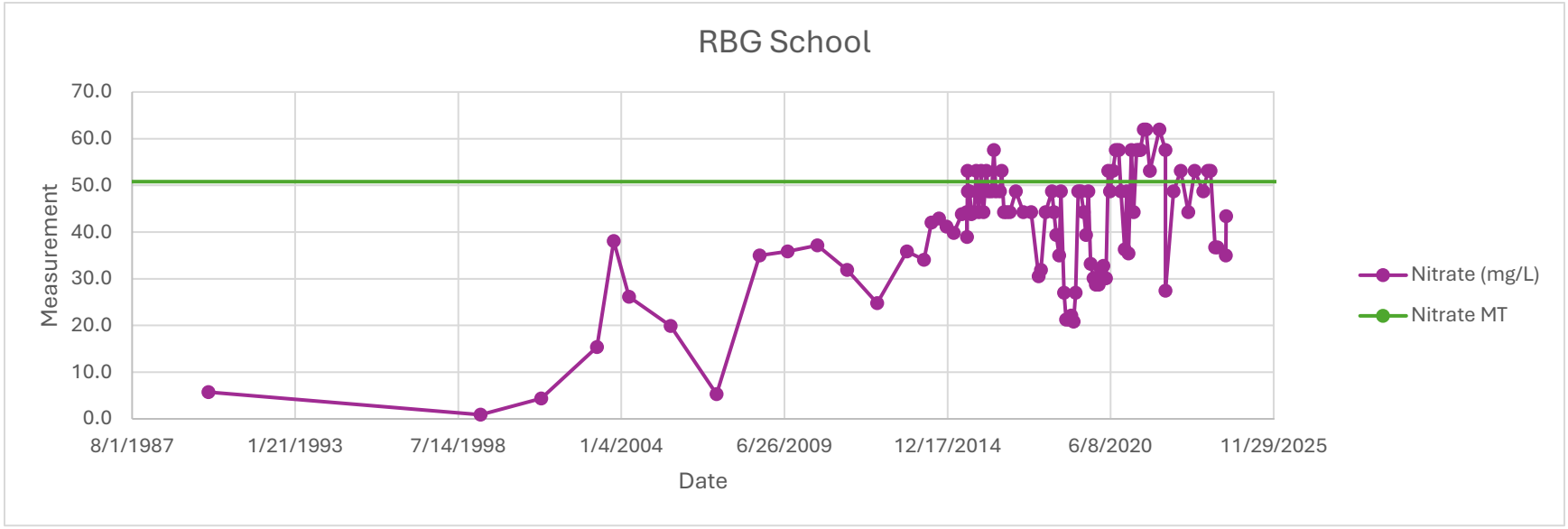


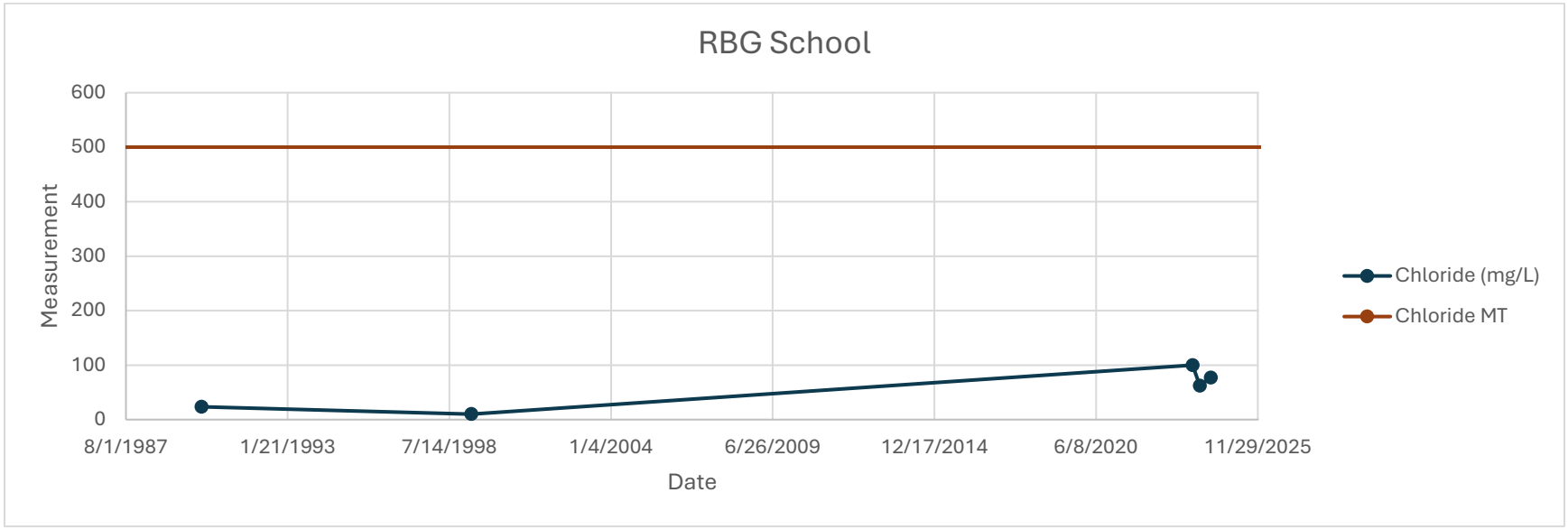
ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT

Z:\000-OldZDrive\jpa. JPA's\SGMA\RRBMA\RRBMA SGMA Docs\Maps\Figures (RE) 2022-06-22


RBG School
16
14
12
10
8
6
4
2
0
Measurement
8/1/1987
1/21/1993
7/14/1998
1/4/2004
6/26/2009
12/17/2014
6/8/2020
11/29/2025
Date
Arsenic (ug/L)
Arsenic MT

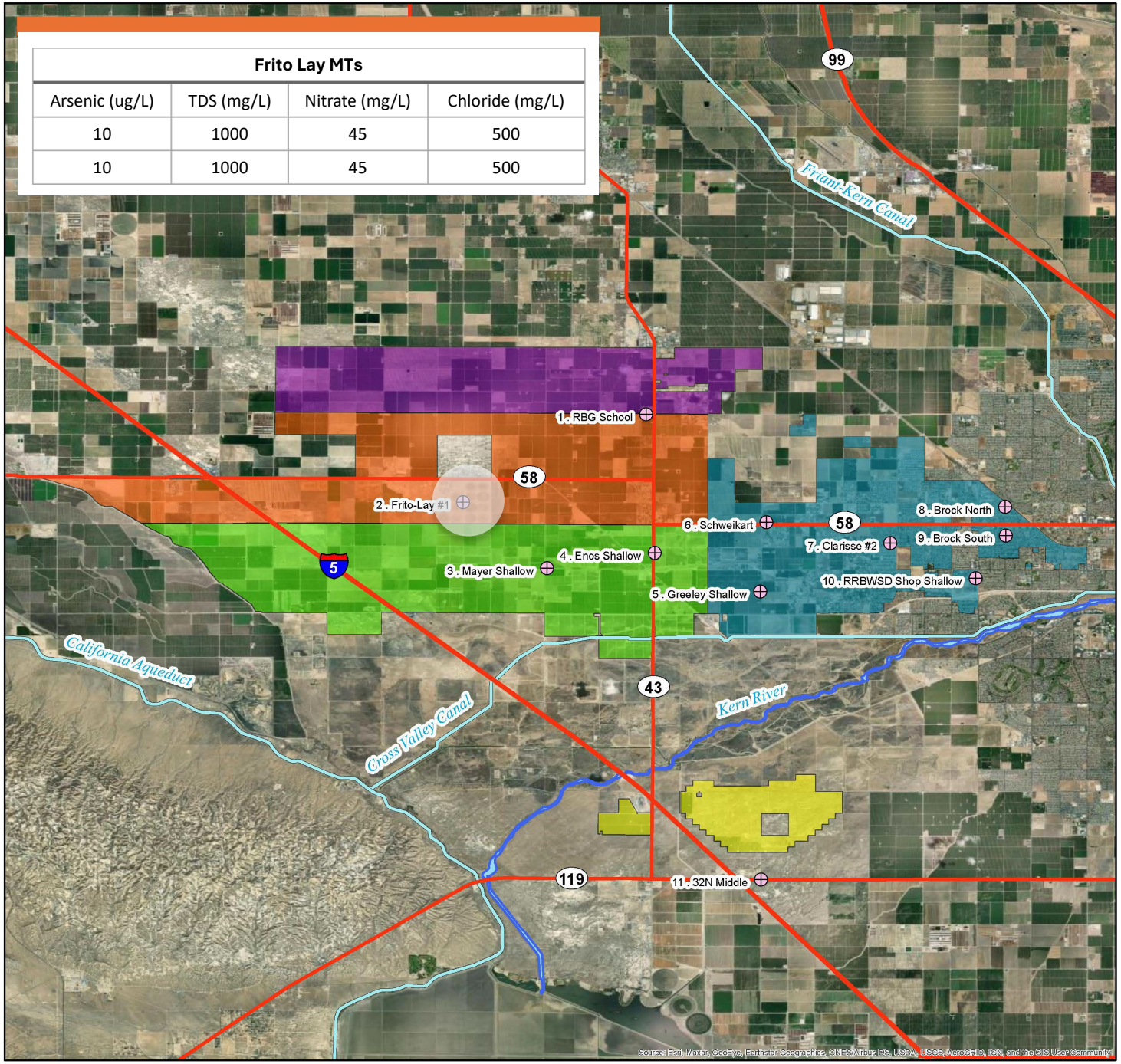

RBG School
1200
1000
800
600
400
200
0
Measurement
8/1/1987
1/21/1993
7/14/1998
1/4/2004
6/26/2009
12/17/2014
6/8/2020
11/29/2025
Date
TDS (mg/L)
TDS MT


RBG School
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
Measurement
8/1/1987
1/21/1993
7/14/1998
1/4/2004
6/26/2009
12/17/2014
6/8/2020
11/29/2025
Date
Nitrate (mg/L)
Nitrate MT


RBG School
600
500
400
300
200
100
0
Measurement
8/1/1987
1/21/1993
7/14/1998
1/4/2004
6/26/2009
12/17/2014
6/8/2020
11/29/2025
Date
Chloride (mg/L)
Chloride MT

RRBMA Monitoring Areas - Water Quality Wells

Frito Lay MTs			
Arsenic (ug/L)	TDS (mg/L)	Nitrate (mg/L)	Chloride (mg/L)
10	1000	45	500
10	1000	45	500



Legend

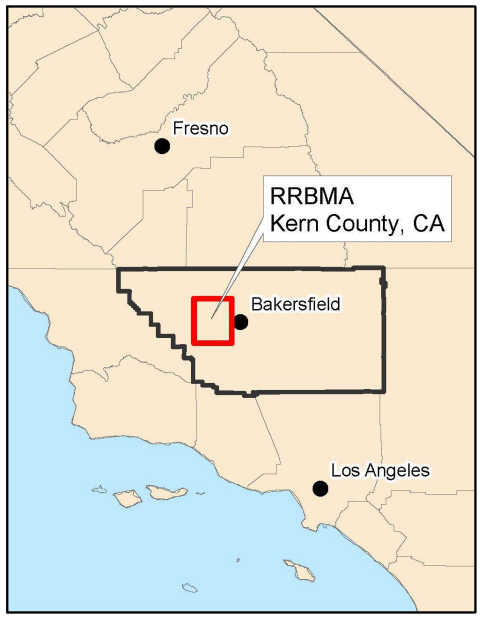
- RRBMA RMW (Water Quality)
- KernRiver
- North Monitoring Area
- Central Monitoring Area
- South Monitoring Area
- East Monitoring Area
- South of the River Monitoring Area
- Major Highways
- Major Conveyance Facilities

RMW = Representative Monitoring Well

N

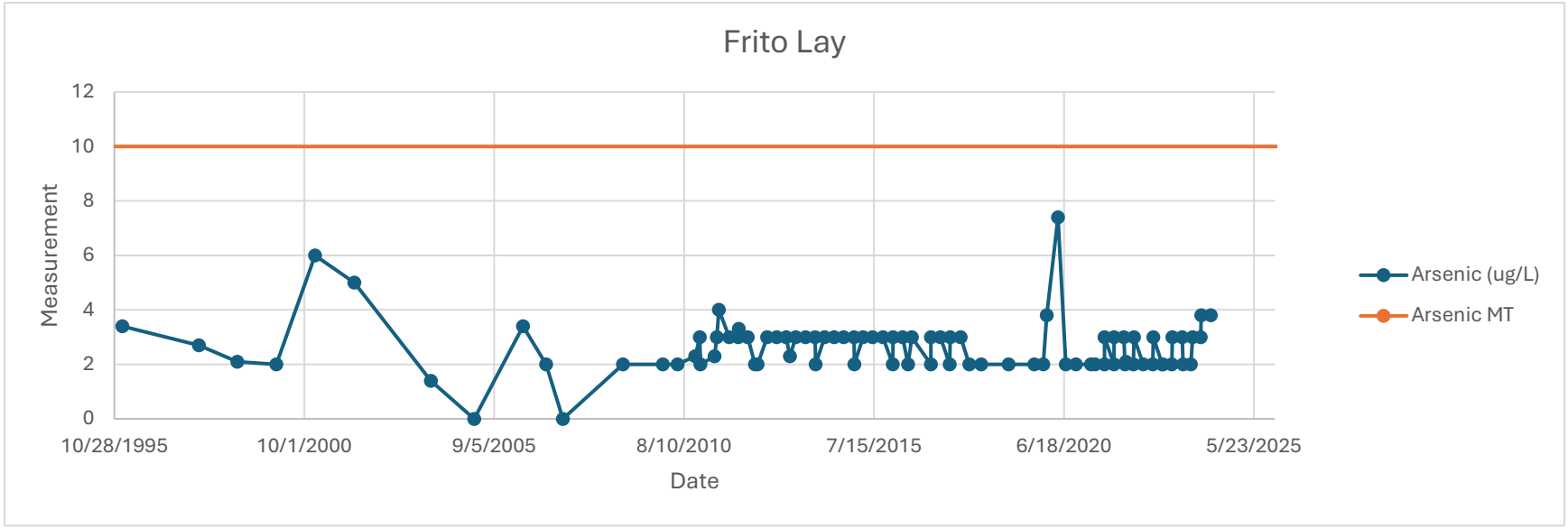
0 1.75 3.5 7

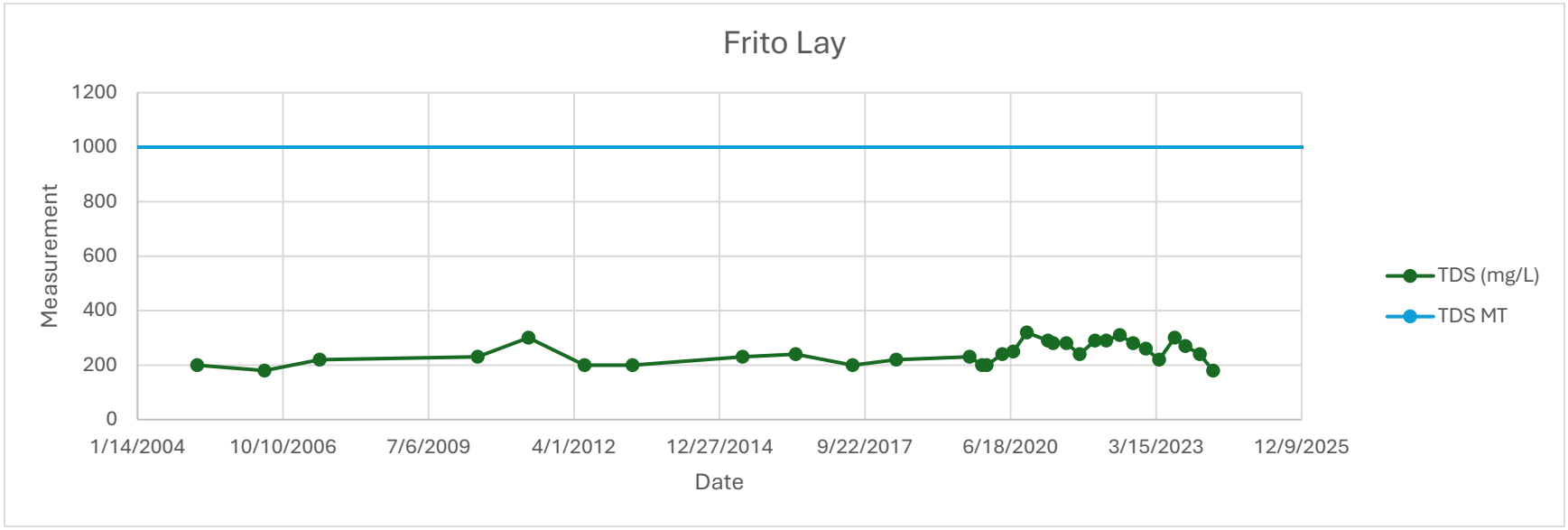
Miles

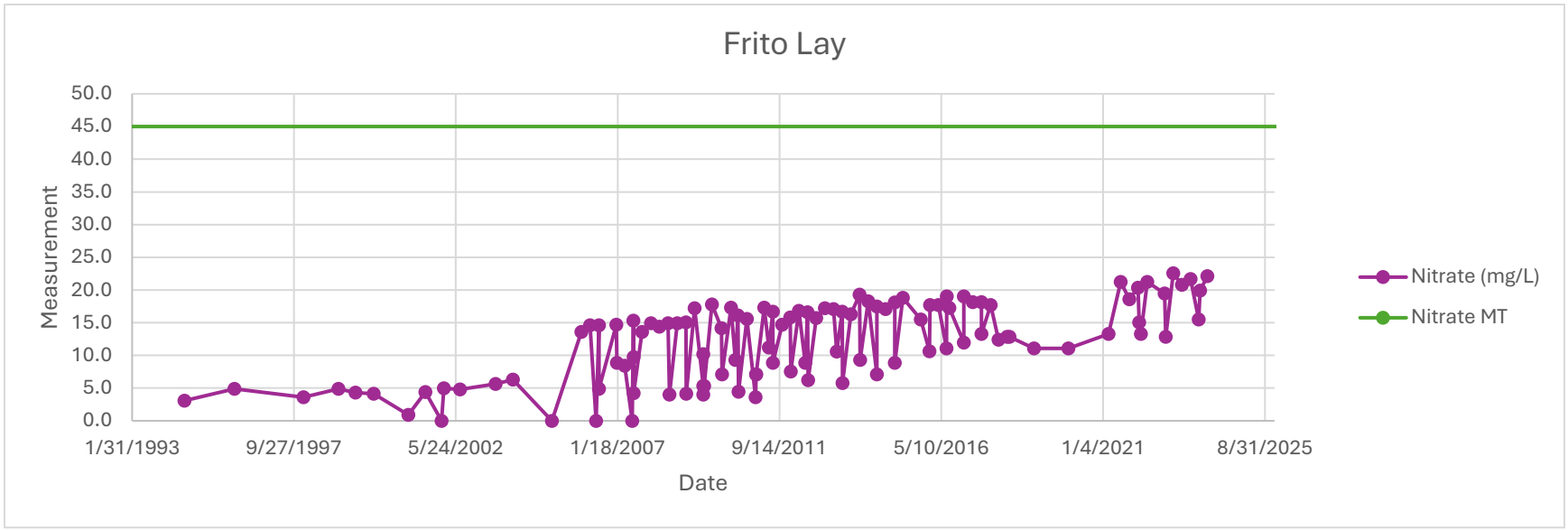


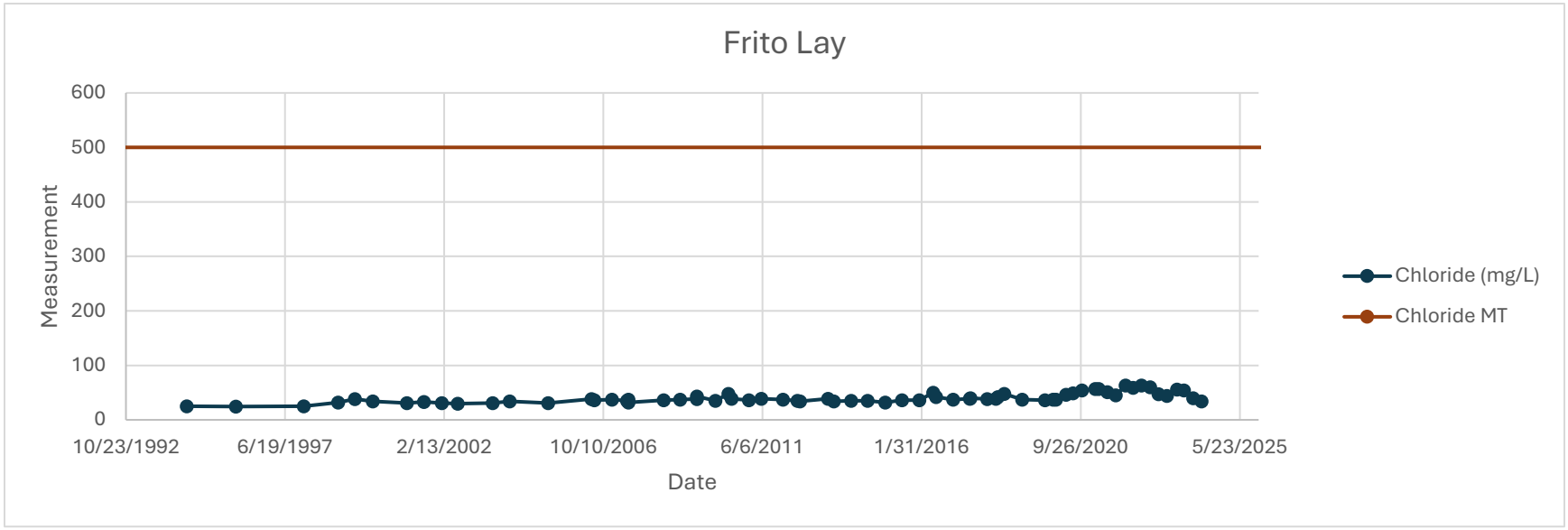
ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT

Z:\000-OldZDrive\jpa. JPA's\SGMA\RRBMA\RRBMA SGMA Docs\Maps\Figures (RE) 2022-06-22


Frito Lay
12
10
8
6
4
2
0
Measurement
10/28/1995
10/1/2000
9/5/2005
8/10/2010
7/15/2015
6/18/2020
5/23/2025
Date
Arsenic (ug/L)
Arsenic MT

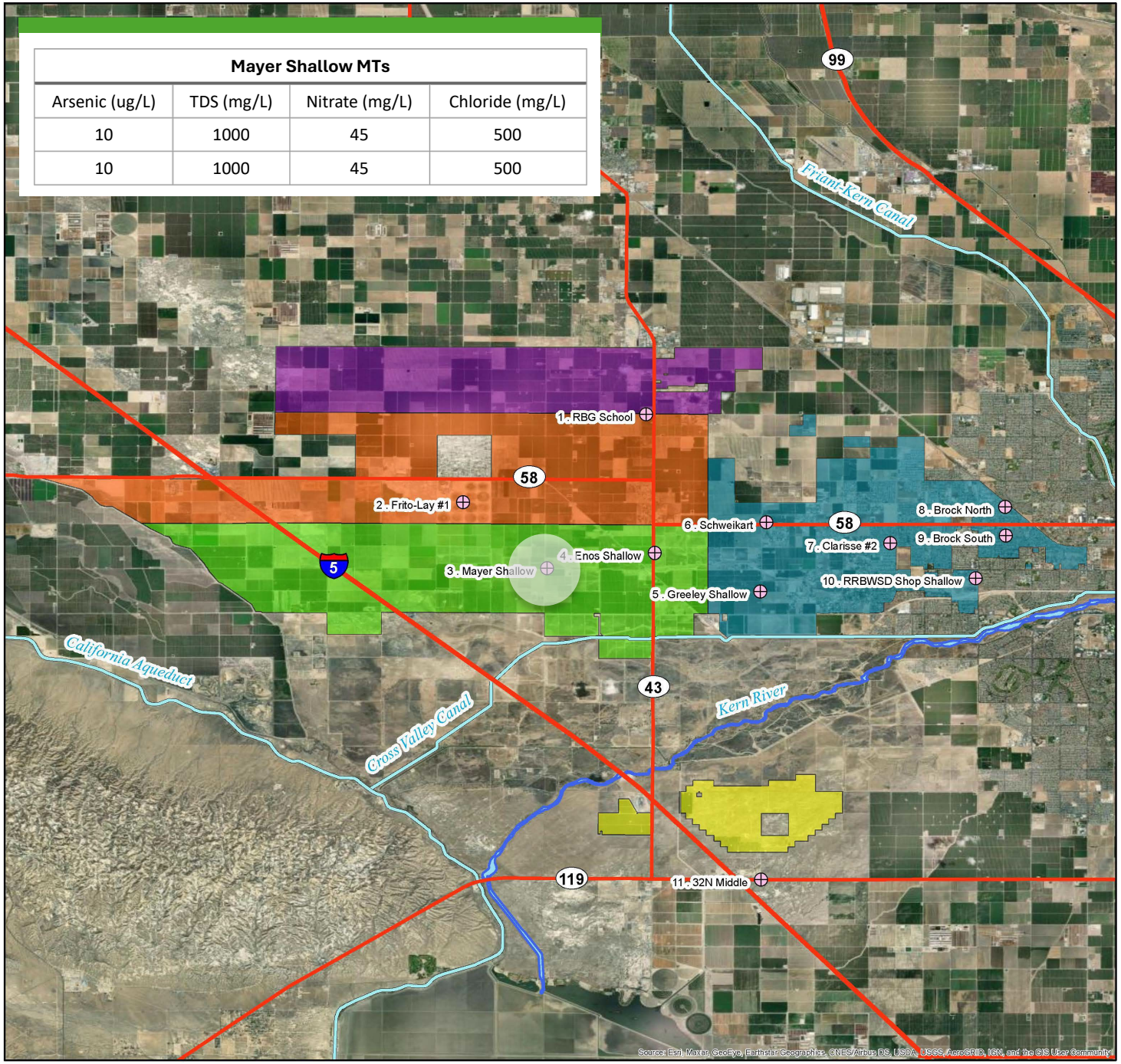

Frito Lay
1200
1000
800
600
400
200
0
Measurement
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
3/15/2023
12/9/2025
Date
TDS (mg/L)
TDS MT


Frito Lay
50.0
45.0
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
Measurement
1/31/1993
9/27/1997
5/24/2002
1/18/2007
9/14/2011
5/10/2016
1/4/2021
8/31/2025
Date
Nitrate (mg/L)
Nitrate MT


Frito Lay
600
500
400
300
200
100
0
Measurement
10/23/1992
6/19/1997
2/13/2002
10/10/2006
6/6/2011
1/31/2016
9/26/2020
5/23/2025
Date
Chloride (mg/L)
Chloride MT

RRBMA Monitoring Areas - Water Quality Wells

Mayer Shallow MTs			
Arsenic (ug/L)	TDS (mg/L)	Nitrate (mg/L)	Chloride (mg/L)
10	1000	45	500
10	1000	45	500



Legend

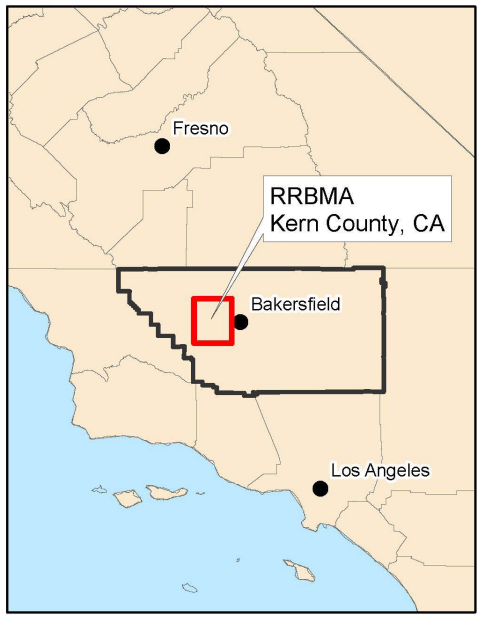
- RRBMA RMW (Water Quality)
- KernRiver
- North Monitoring Area
- Central Monitoring Area
- South Monitoring Area
- East Monitoring Area
- South of the River Monitoring Area
- Major Highways
- Major Conveyance Facilities

RMW = Representative Monitoring Well

N

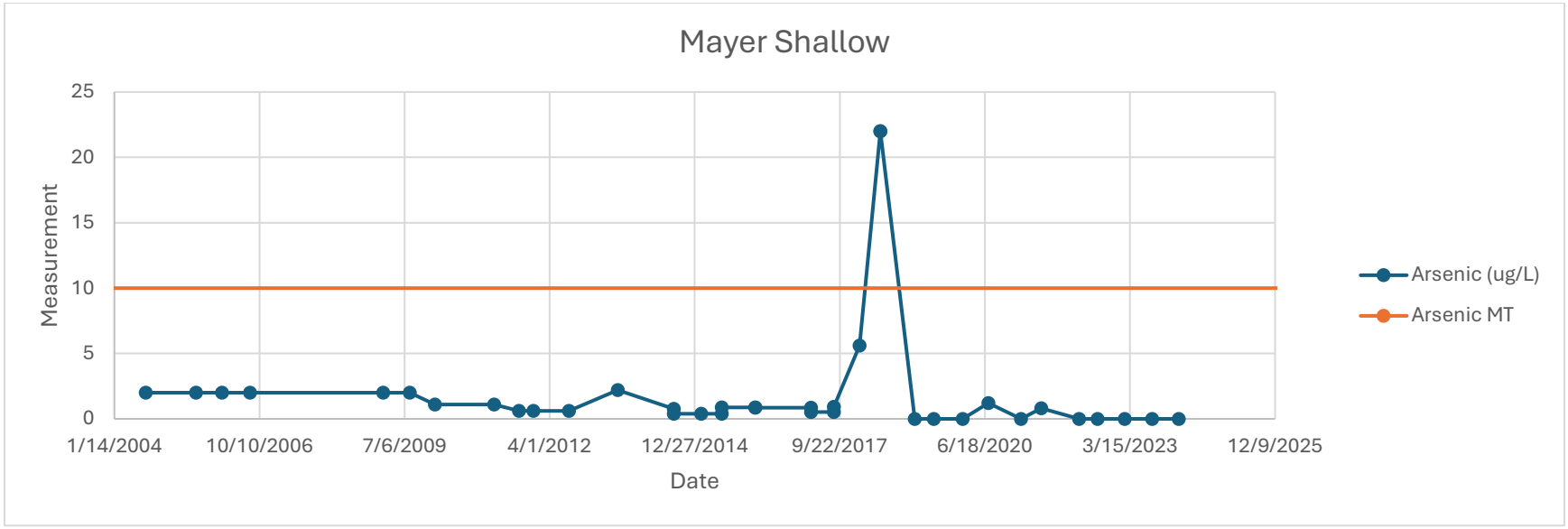
0 1.75 3.5 7

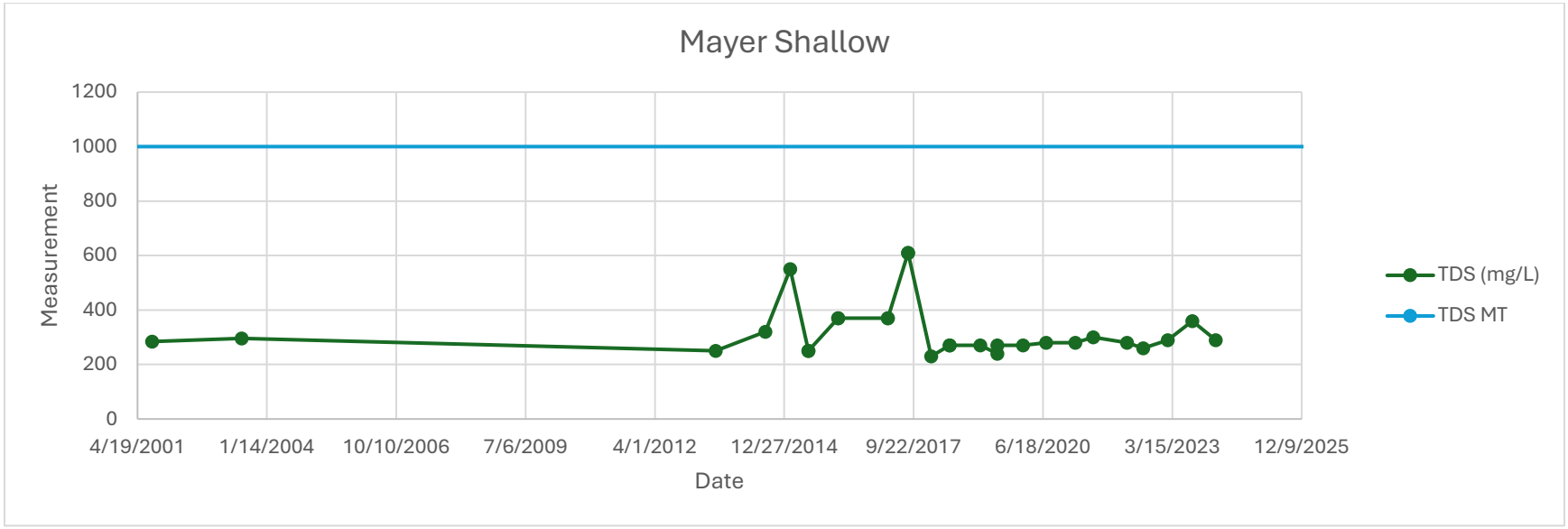
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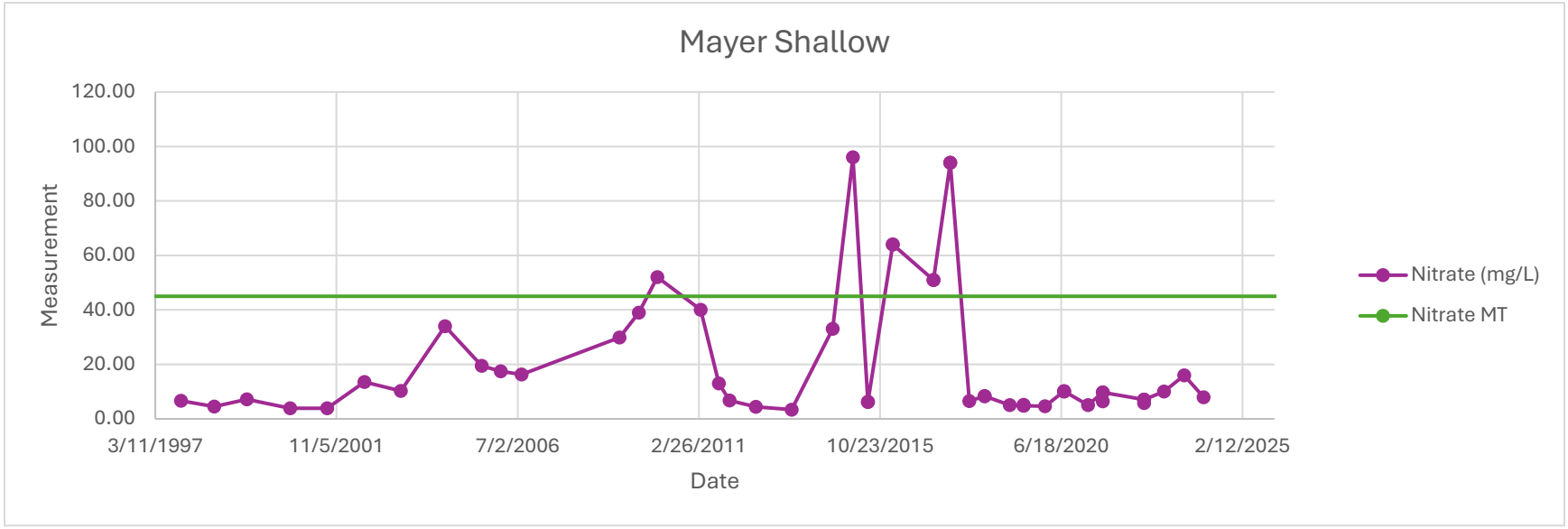


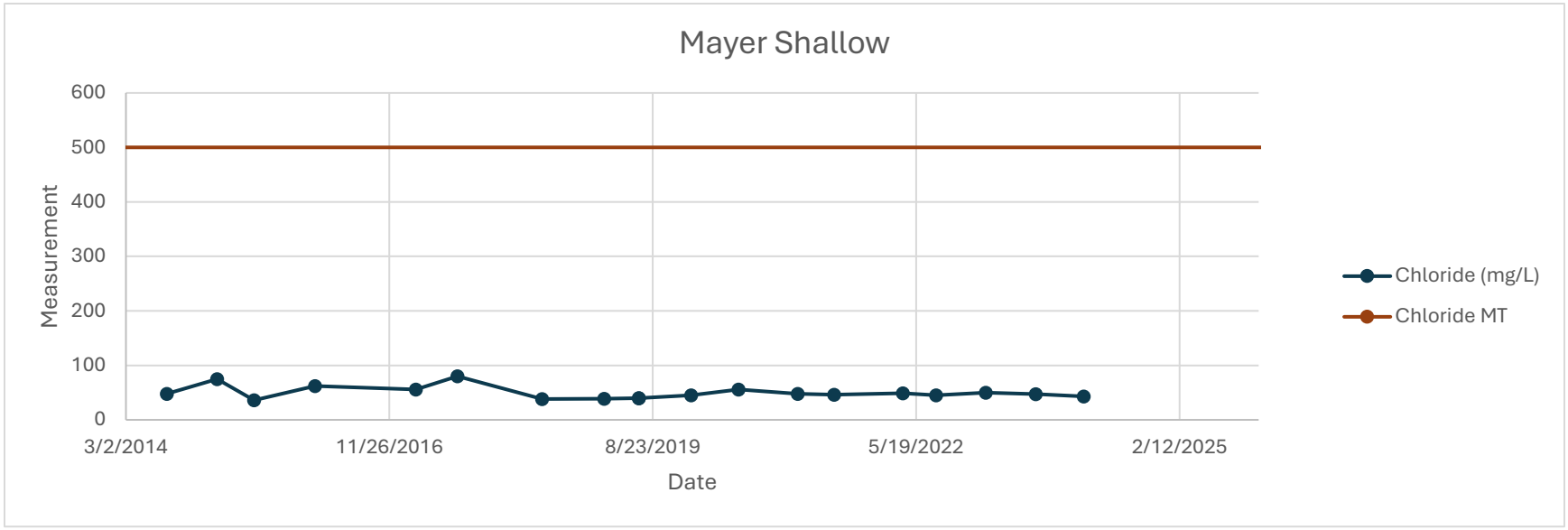
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Mayer Shallow
25
20
15
10
5
0
Measurement
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
3/15/2023
12/9/2025
Date
Arsenic (ug/L)
Arsenic MT

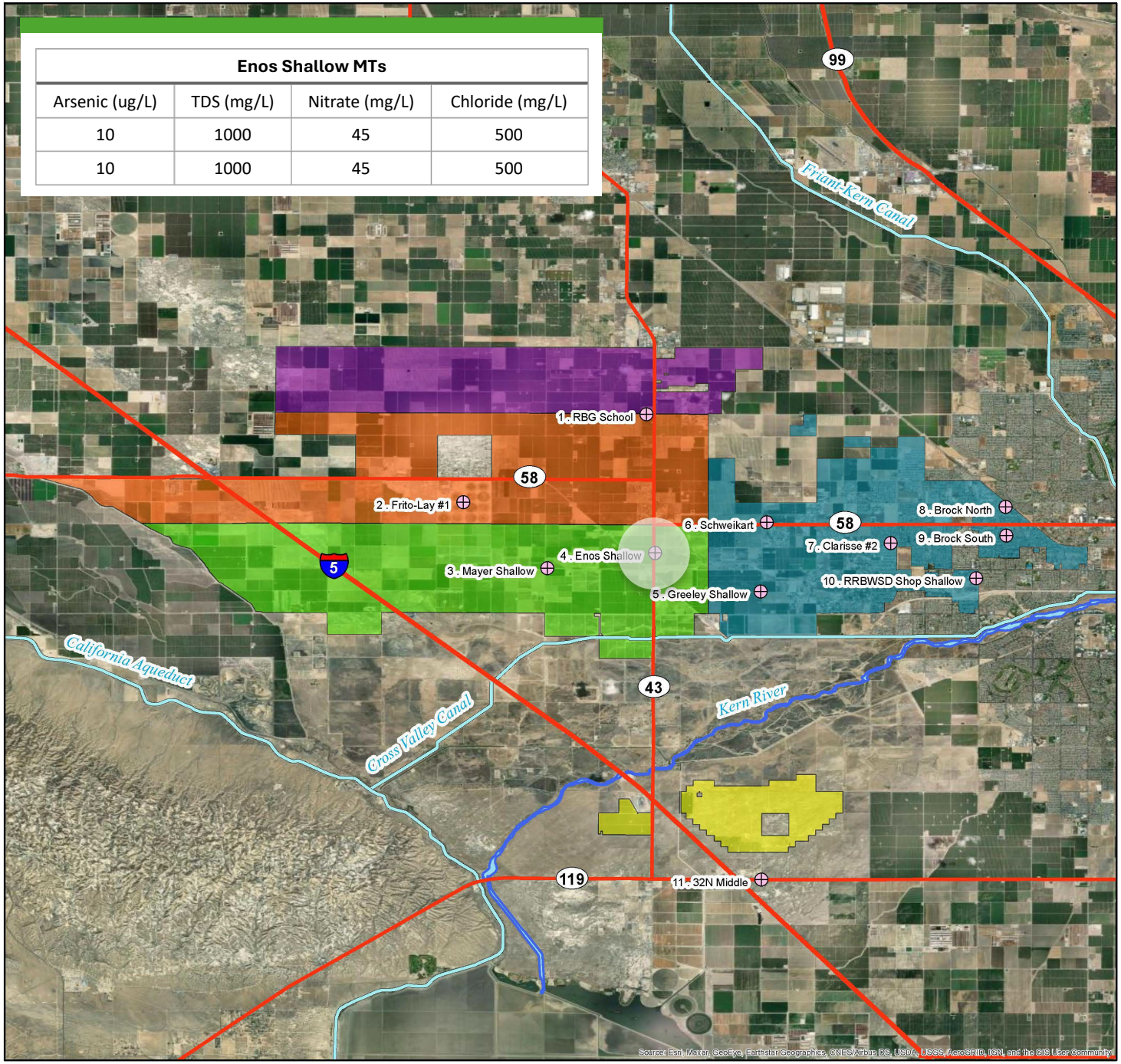

Mayer Shallow
1200
1000
800
600
400
200
0
Measurement
4/19/2001
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
3/15/2023
12/9/2025
Date
TDS (mg/L)
TDS MT


Mayer Shallow
120.00
100.00
80.00
60.00
40.00
20.00
0.00
Measurement
3/11/1997
11/5/2001
7/2/2006
2/26/2011
10/23/2015
6/18/2020
2/12/2025
Date
Nitrate (mg/L)
Nitrate MT


Mayer Shallow
600
500
400
300
200
100
0
Measurement
3/2/2014
11/26/2016
8/23/2019
5/19/2022
2/12/2025
Date
Chloride (mg/L)
Chloride MT

RRBMA Monitoring Areas - Water Quality Wells

Enos Shallow MTs			
Arsenic (ug/L)	TDS (mg/L)	Nitrate (mg/L)	Chloride (mg/L)
10	1000	45	500
10	1000	45	500



Legend

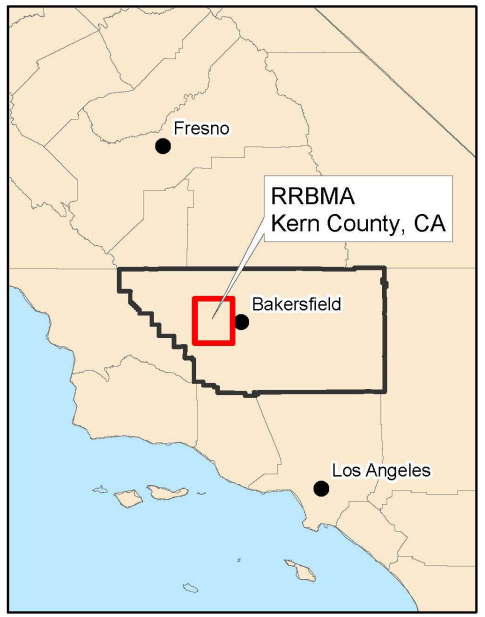
- RRBMA RMW (Water Quality)
- KernRiver
- North Monitoring Area
- Central Monitoring Area
- South Monitoring Area
- East Monitoring Area
- South of the River Monitoring Area
- Major Highways
- Major Conveyance Facilities

RMW = Representative Monitoring Well

N

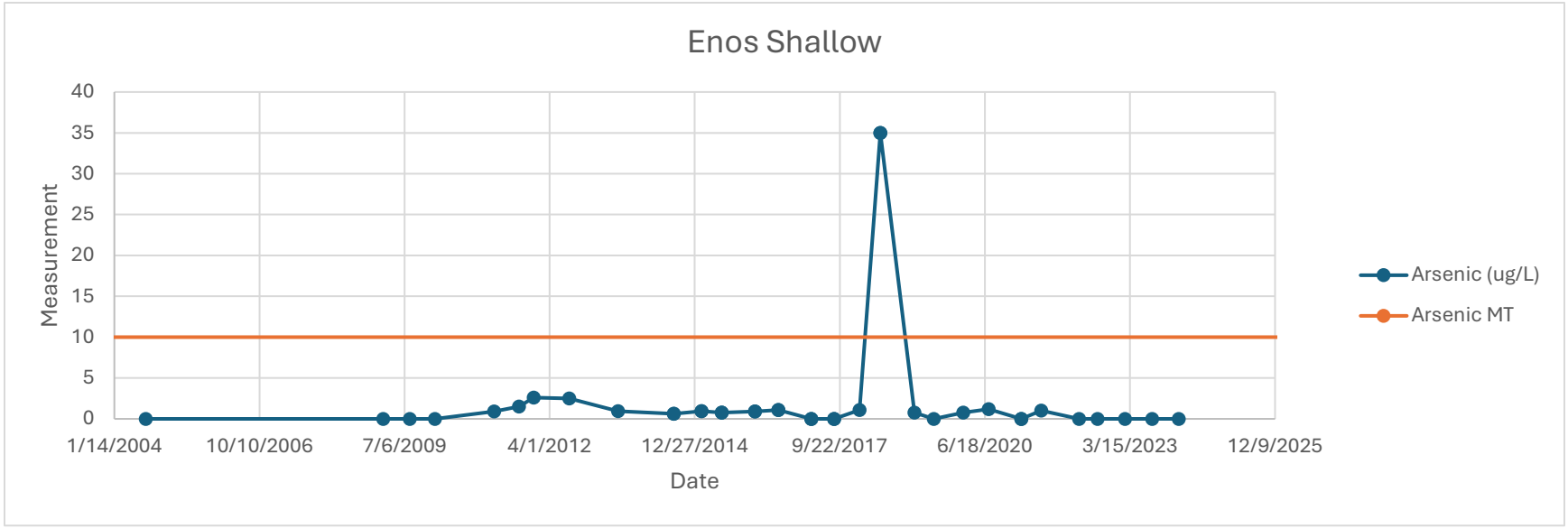
0 1.75 3.5 7

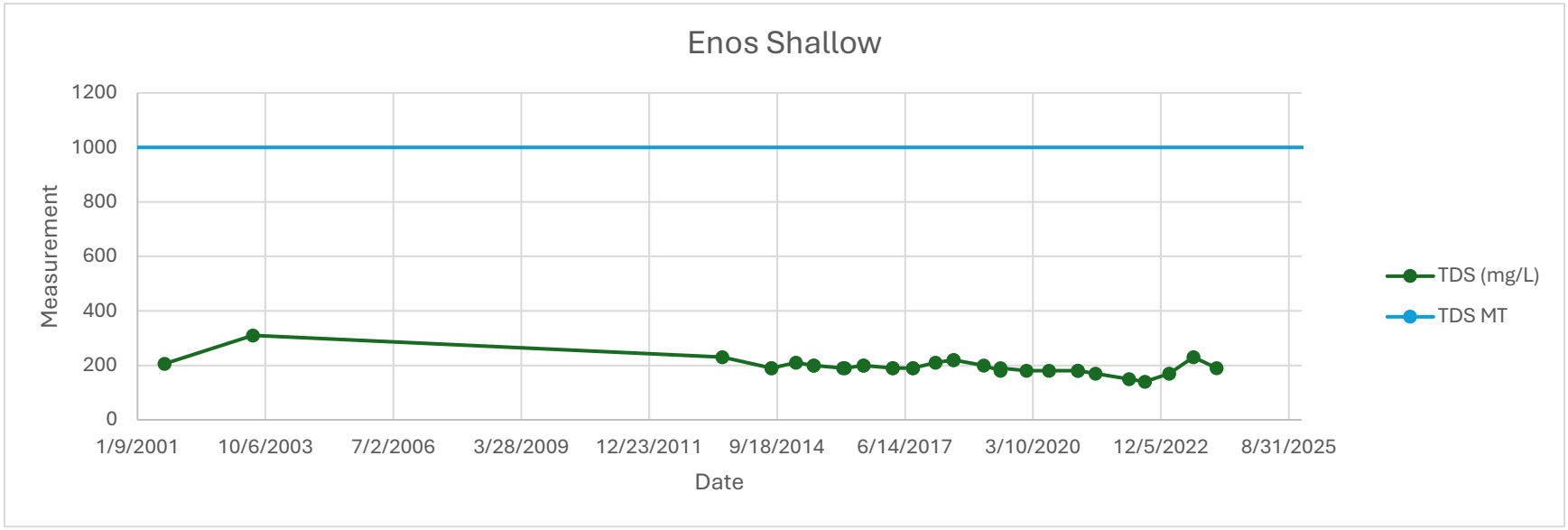
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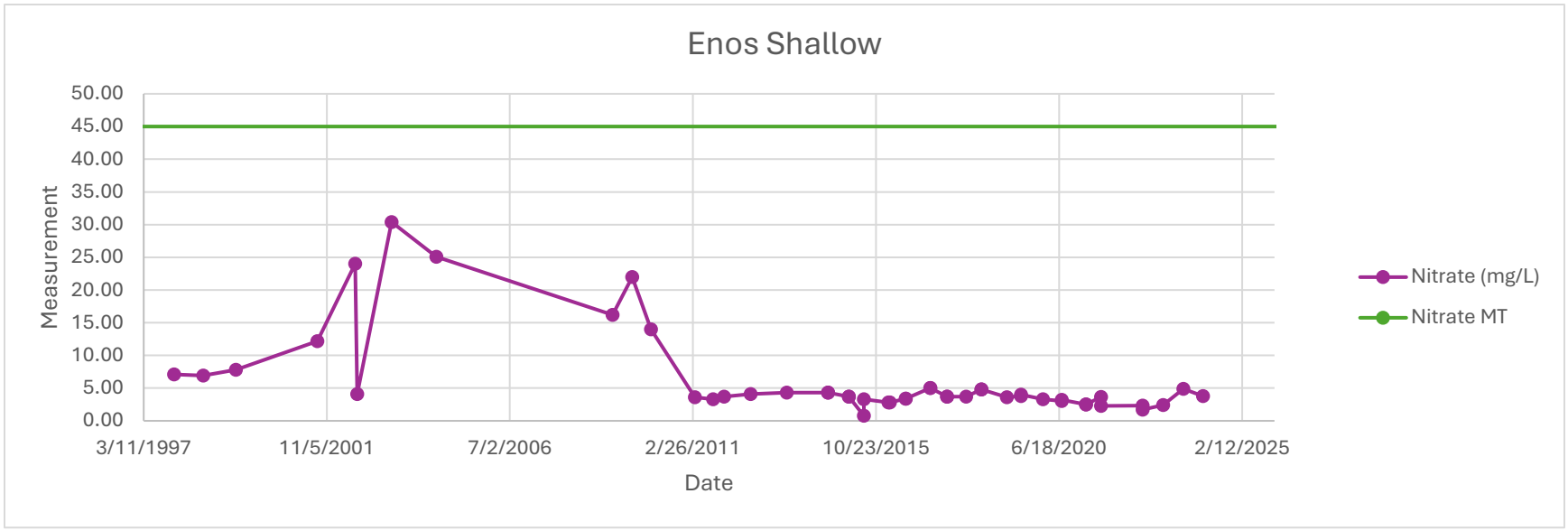


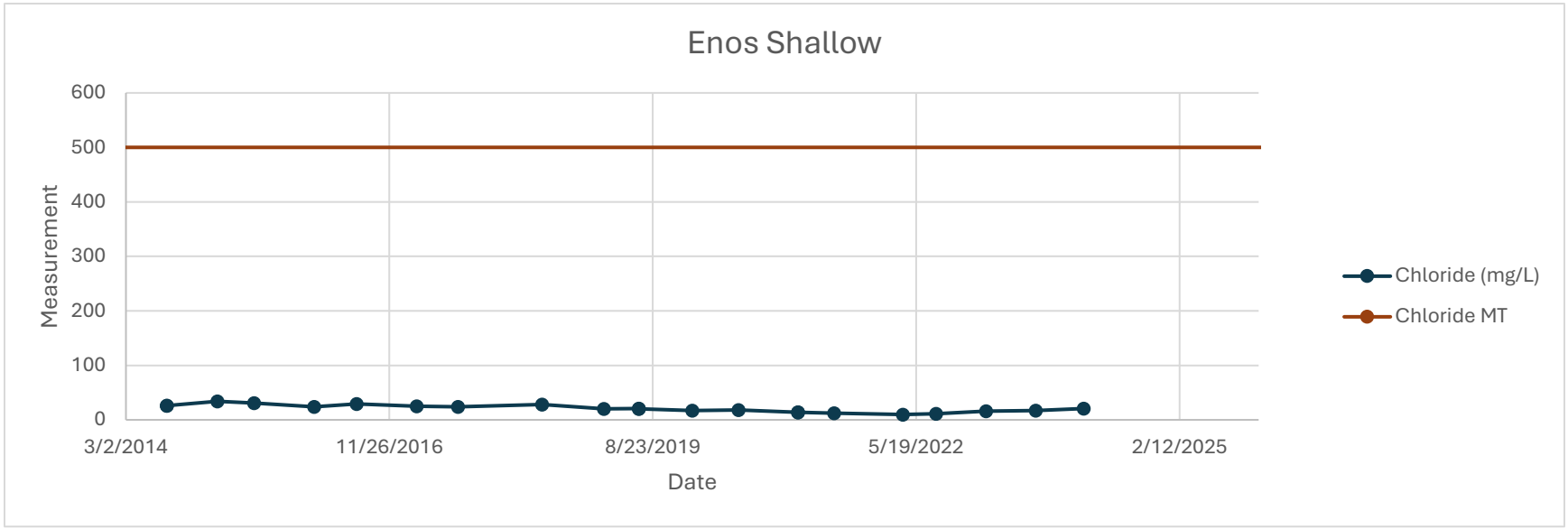
ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT

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Enos Shallow
40
35
30
25
20
15
10
5
0
Measurement
1/14/2004
10/10/2006
7/6/2009
4/1/2012
12/27/2014
9/22/2017
6/18/2020
3/15/2023
12/9/2025
Date
Arsenic (ug/L)
Arsenic MT

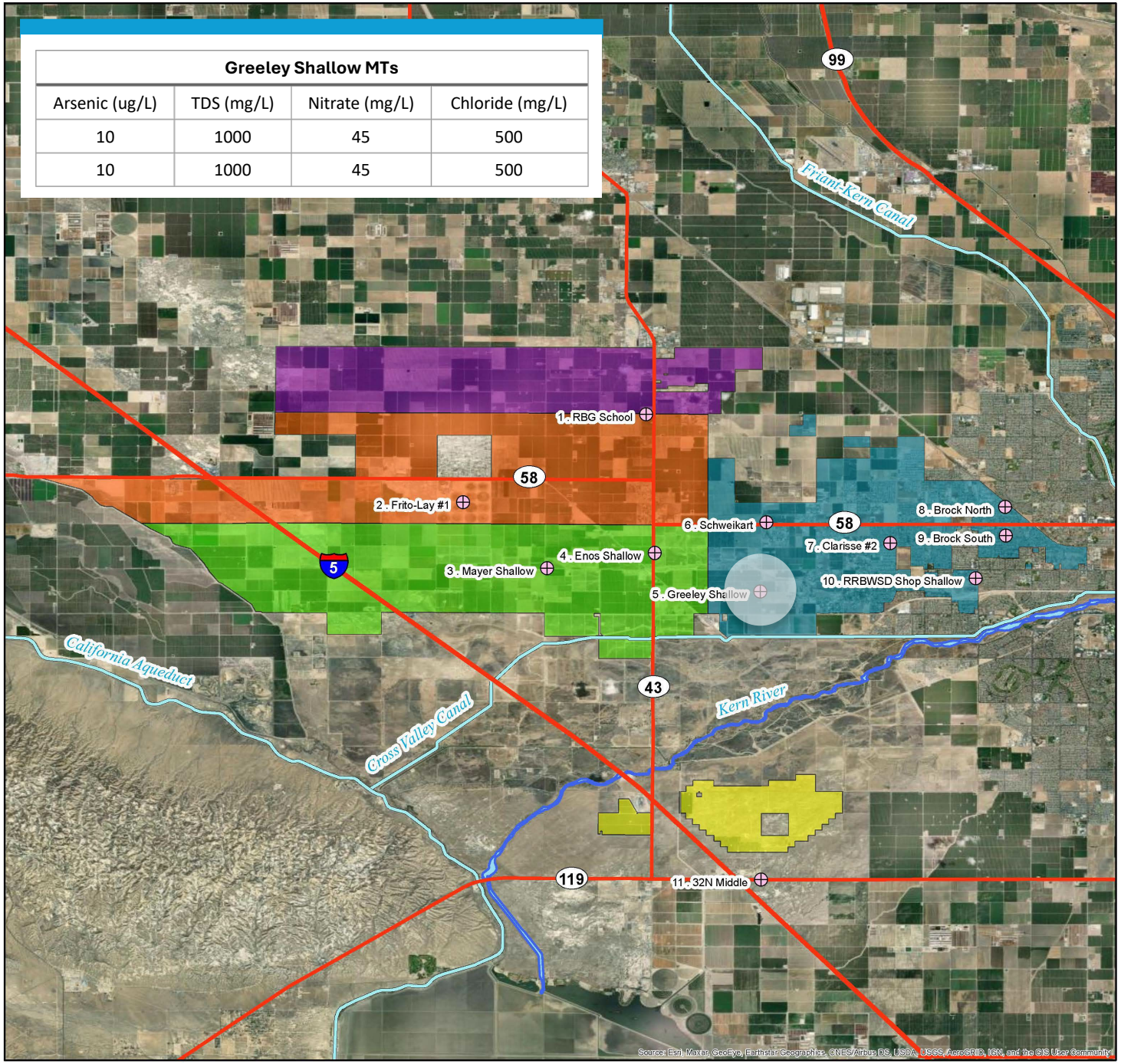

Enos Shallow
1200
1000
800
600
400
200
0
Measurement
1/9/2001
10/6/2003
7/2/2006
3/28/2009
12/23/2011
9/18/2014
6/14/2017
3/10/2020
12/5/2022
8/31/2025
Date
TDS (mg/L)
TDS MT


Enos Shallow
50.00
45.00
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
Measurement
3/11/1997
11/5/2001
7/2/2006
2/26/2011
10/23/2015
6/18/2020
2/12/2025
Date
Nitrate (mg/L)
Nitrate MT


Enos Shallow
600
500
400
300
200
100
0
Measurement
3/2/2014
11/26/2016
8/23/2019
5/19/2022
2/12/2025
Date
Chloride (mg/L)
Chloride MT

RRBMA Monitoring Areas - Water Quality Wells

Greeley Shallow MTs			
Arsenic (ug/L)	TDS (mg/L)	Nitrate (mg/L)	Chloride (mg/L)
10	1000	45	500
10	1000	45	500



Legend

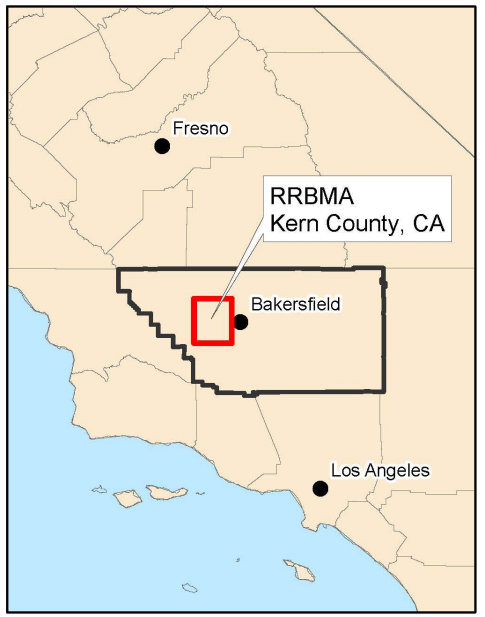
- RRBMA RMW (Water Quality)
- KernRiver
- North Monitoring Area
- Central Monitoring Area
- South Monitoring Area
- East Monitoring Area
- South of the River Monitoring Area
- Major Highways
- Major Conveyance Facilities

RMW = Representative Monitoring Well

N

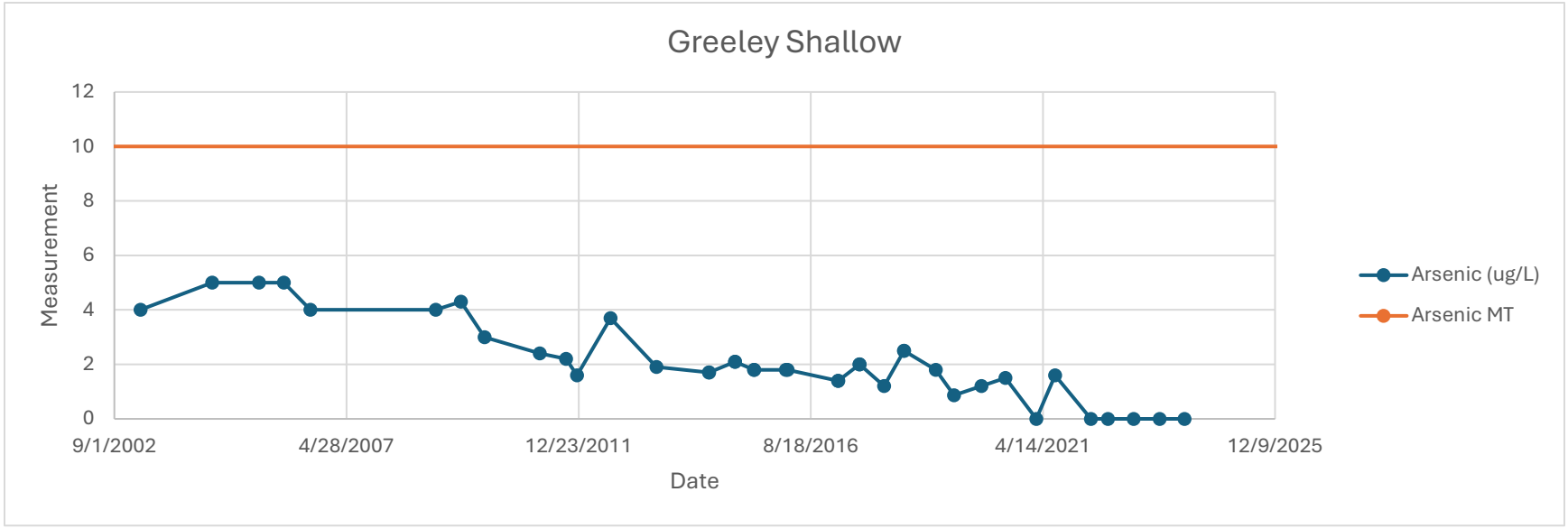
0 1.75 3.5 7

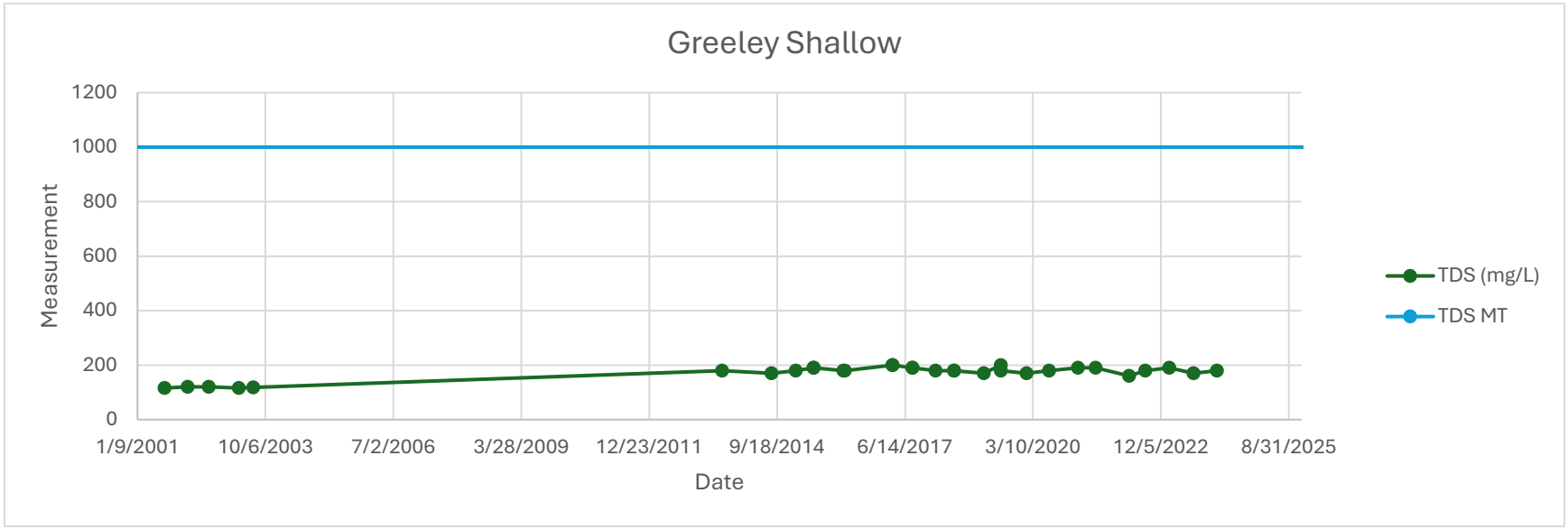
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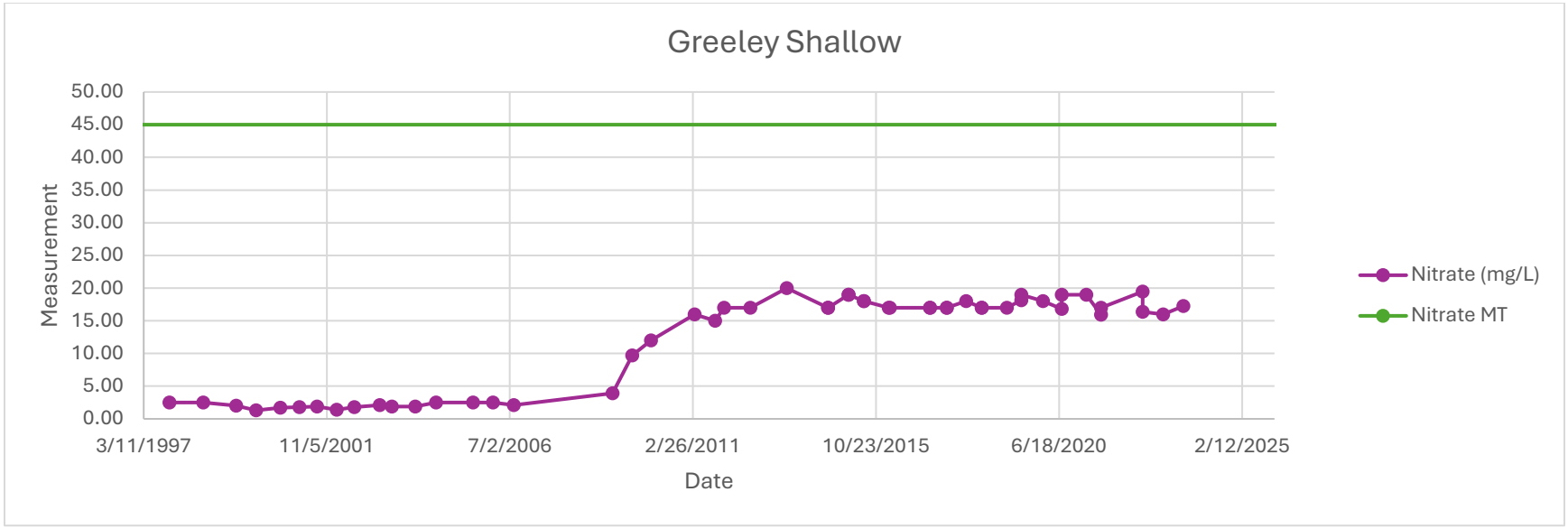


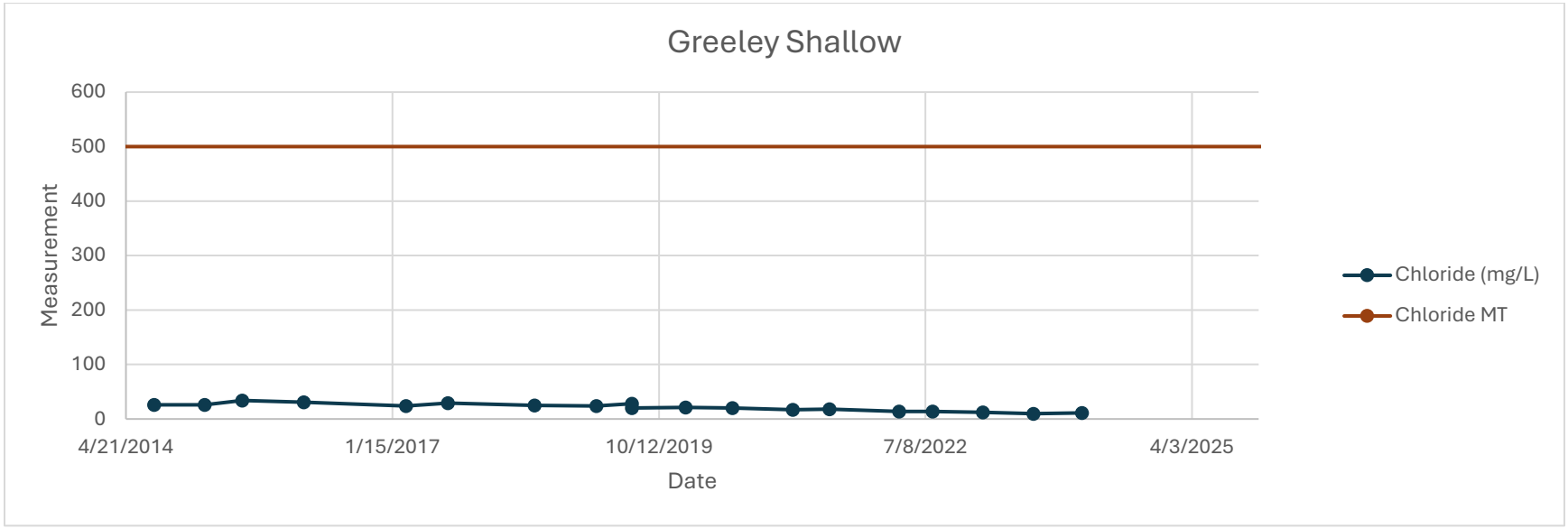
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Greeley Shallow
12
10
8
6
4
2
0
Measurement
9/1/2002
4/28/2007
12/23/2011
8/18/2016
4/14/2021
12/9/2025
Date
Arsenic (ug/L)
Arsenic MT

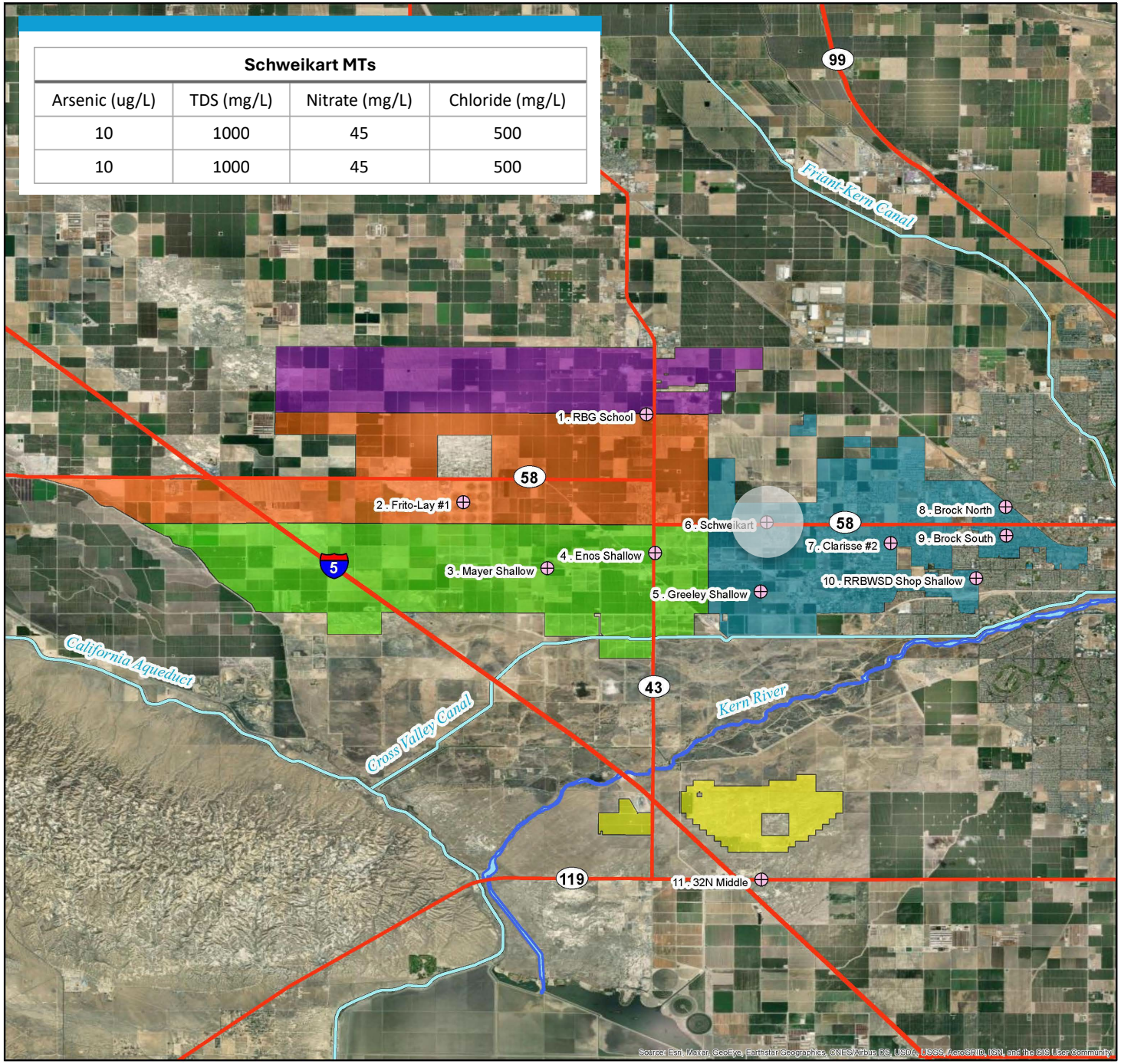

Greeley Shallow
1200
1000
800
600
400
200
0
Measurement
1/9/2001
10/6/2003
7/2/2006
3/28/2009
12/23/2011
9/18/2014
6/14/2017
3/10/2020
12/5/2022
8/31/2025
Date
TDS (mg/L)
TDS MT


Greeley Shallow
50.00
45.00
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
Measurement
3/11/1997
11/5/2001
7/2/2006
2/26/2011
10/23/2015
6/18/2020
2/12/2025
Date
Nitrate (mg/L)
Nitrate MT


Greeley Shallow
600
500
400
300
200
100
0
Measurement
4/21/2014
1/15/2017
10/12/2019
7/8/2022
4/3/2025
Date
Chloride (mg/L)
Chloride MT

RRBMA Monitoring Areas - Water Quality Wells

Schweikart MTs			
Arsenic (ug/L)	TDS (mg/L)	Nitrate (mg/L)	Chloride (mg/L)
10	1000	45	500
10	1000	45	500



Legend

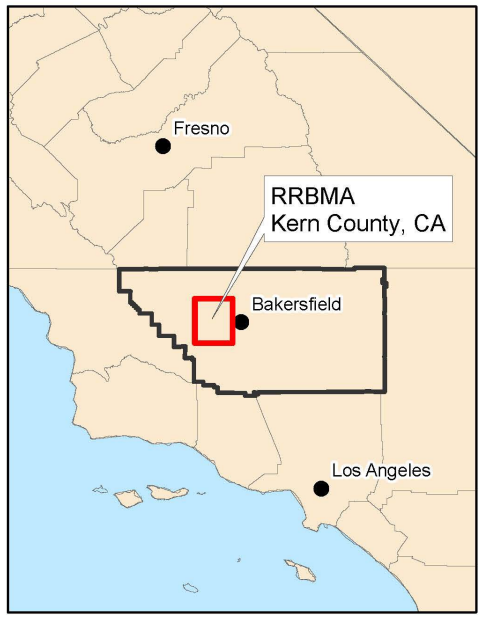
- RRBMA RMW (Water Quality)
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- Central Monitoring Area
- South Monitoring Area
- East Monitoring Area
- South of the River Monitoring Area
- Major Highways
- Major Conveyance Facilities

RMW = Representative Monitoring Well

N

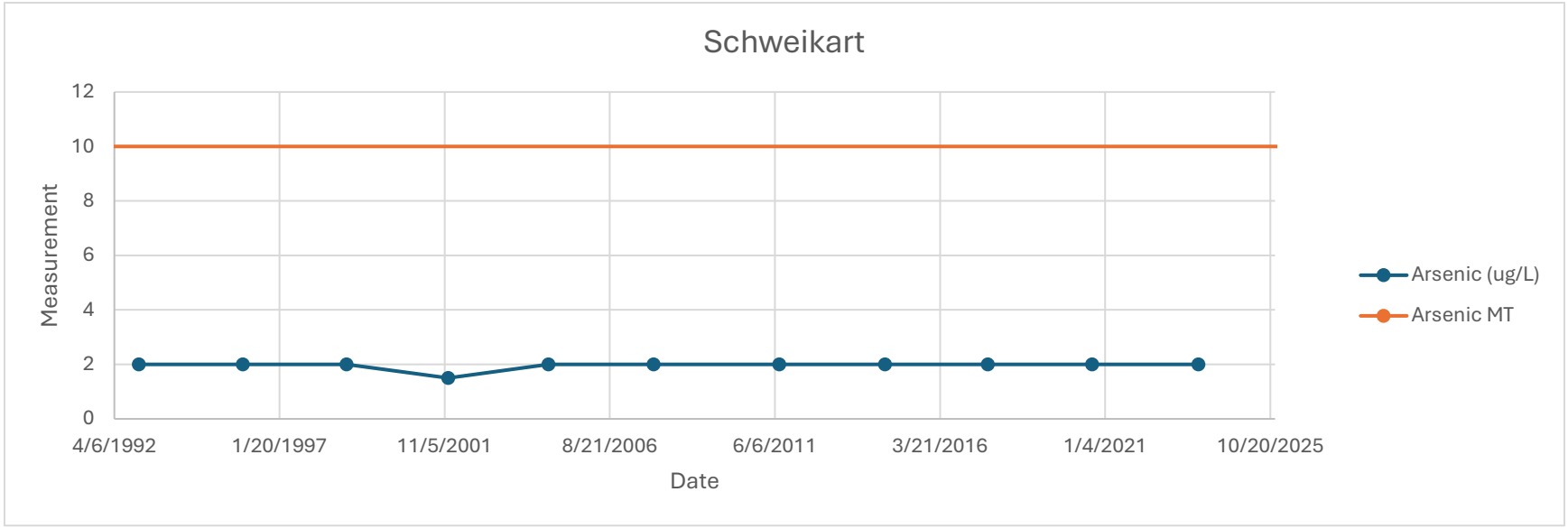
0 1.75 3.5 7

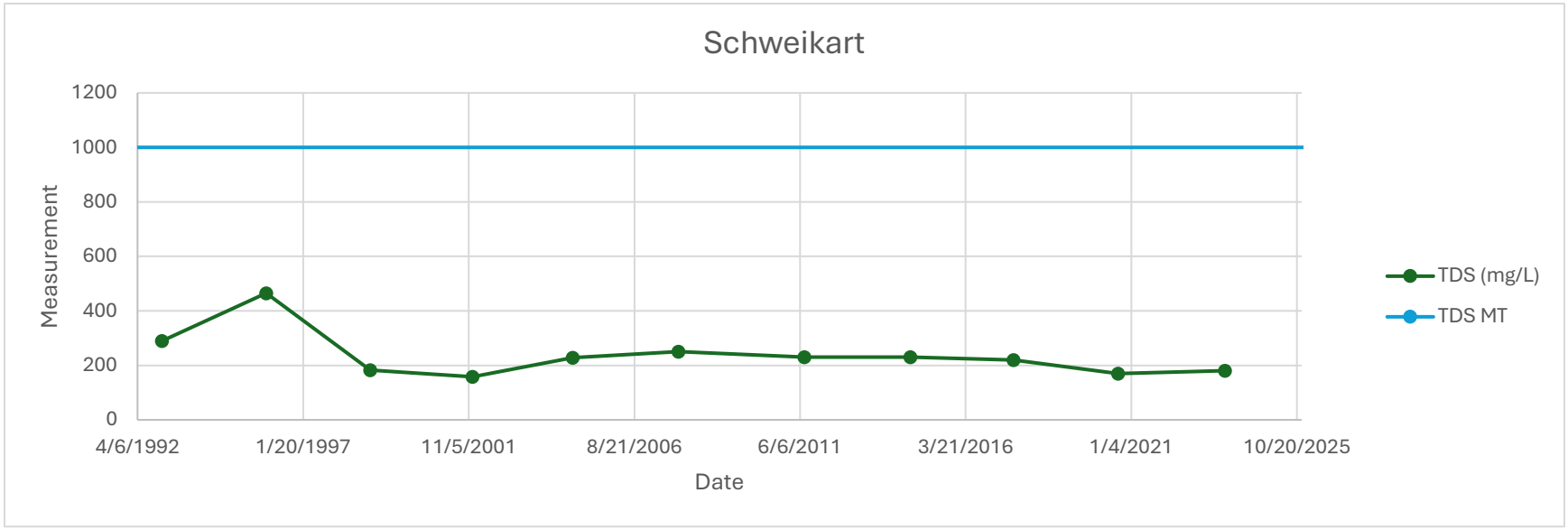
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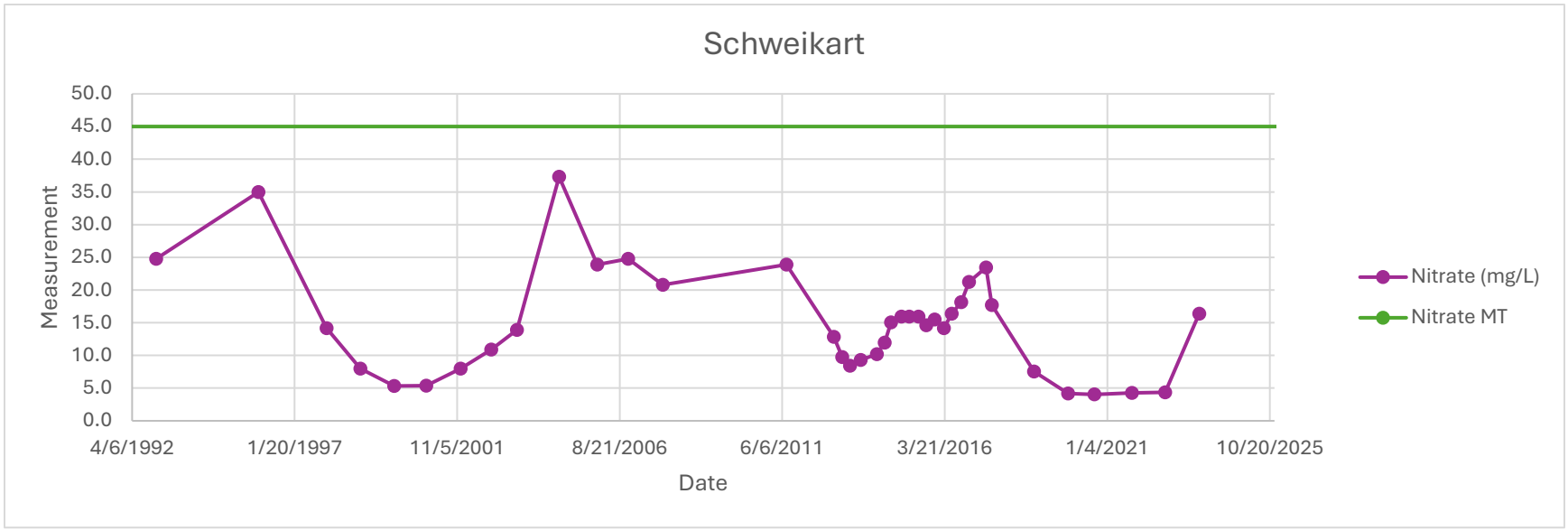


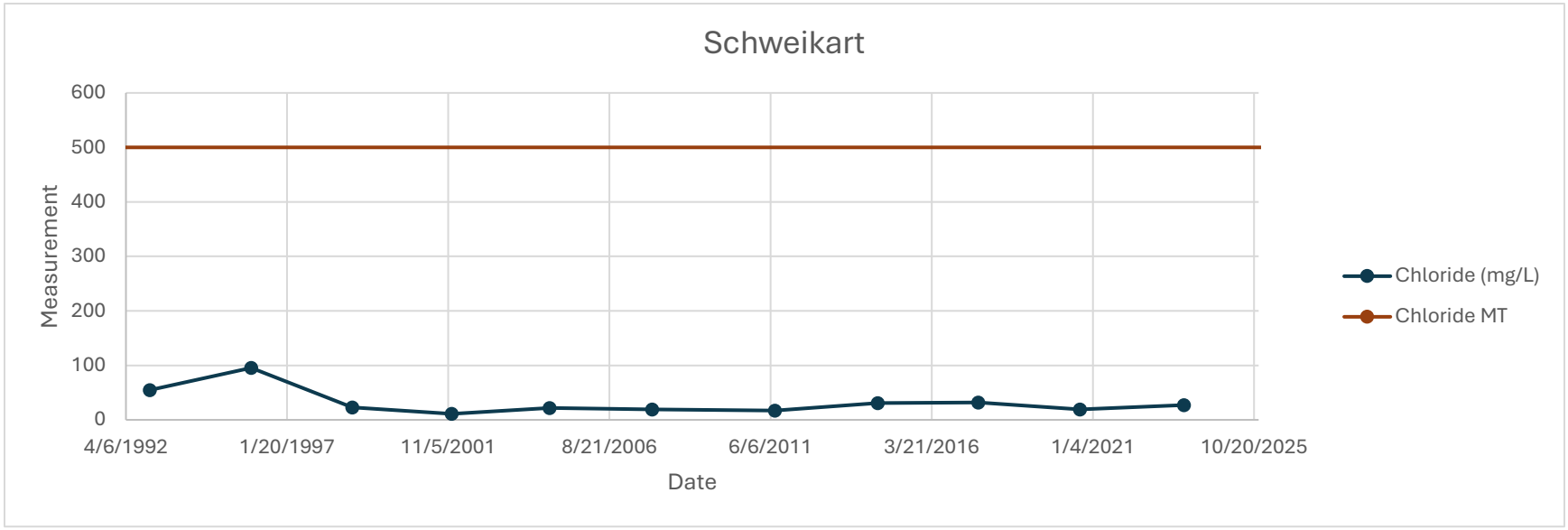
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Schweikart
12
10
8
6
4
2
0
Measurement
4/6/1992
1/20/1997
11/5/2001
8/21/2006
6/6/2011
3/21/2016
1/4/2021
10/20/2025
Date
Arsenic (ug/L)
Arsenic MT

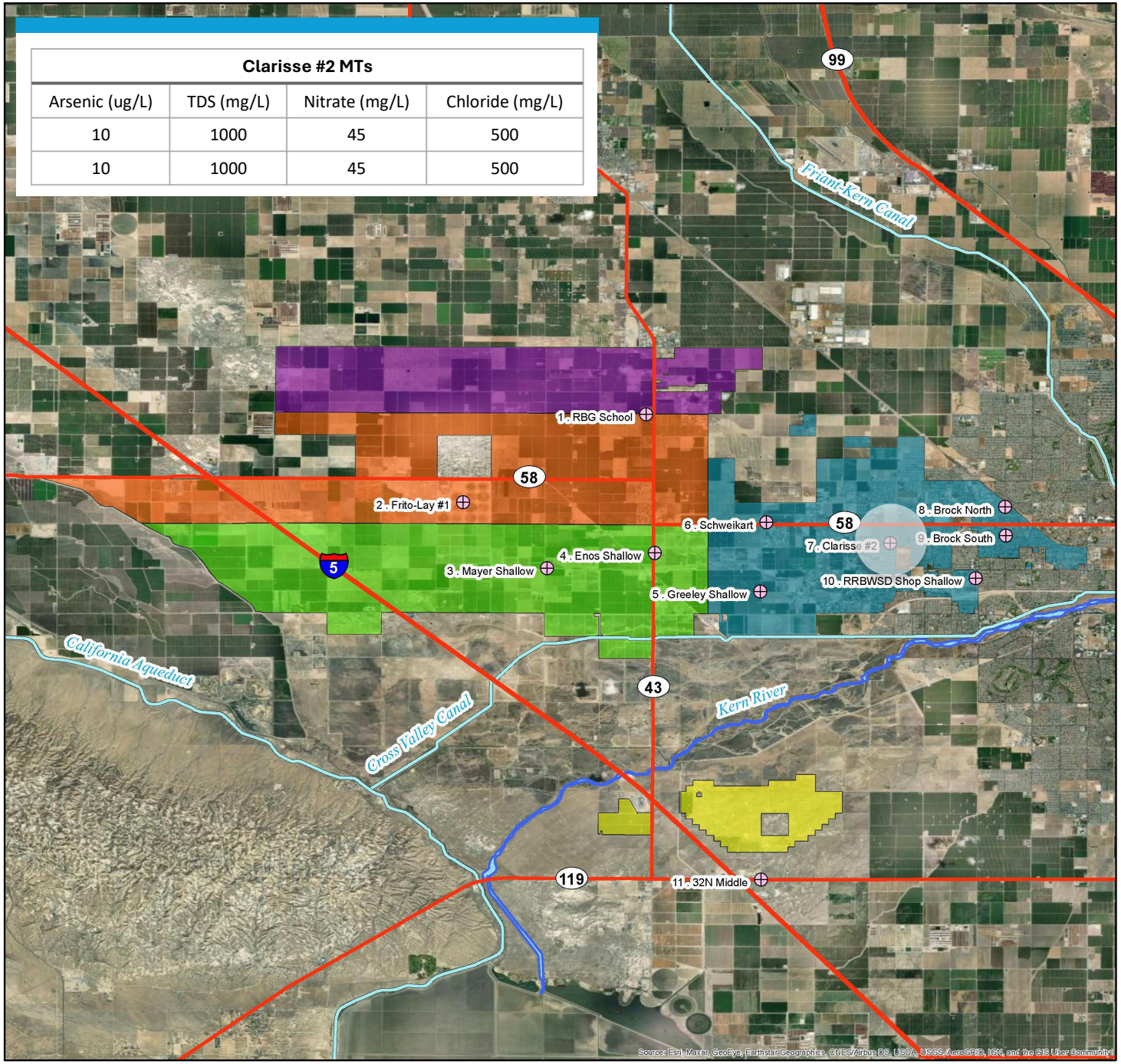

Schweikart
1200
1000
800
600
400
200
0
Measurement
4/6/1992
1/20/1997
11/5/2001
8/21/2006
6/6/2011
3/21/2016
1/4/2021
10/20/2025
Date
TDS (mg/L)
TDS MT


Schweikart
50.0
45.0
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
Measurement
4/6/1992
1/20/1997
11/5/2001
8/21/2006
6/6/2011
3/21/2016
1/4/2021
10/20/2025
Date
Nitrate (mg/L)
Nitrate MT


Schweikart
600
500
400
300
200
100
0
Measurement
4/6/1992
1/20/1997
11/5/2001
8/21/2006
6/6/2011
3/21/2016
1/4/2021
10/20/2025
Date
Chloride (mg/L)
Chloride MT

RRBMA Monitoring Areas - Water Quality Wells

Clarisse #2 MTs			
Arsenic (ug/L)	TDS (mg/L)	Nitrate (mg/L)	Chloride (mg/L)
10	1000	45	500
10	1000	45	500



Legend

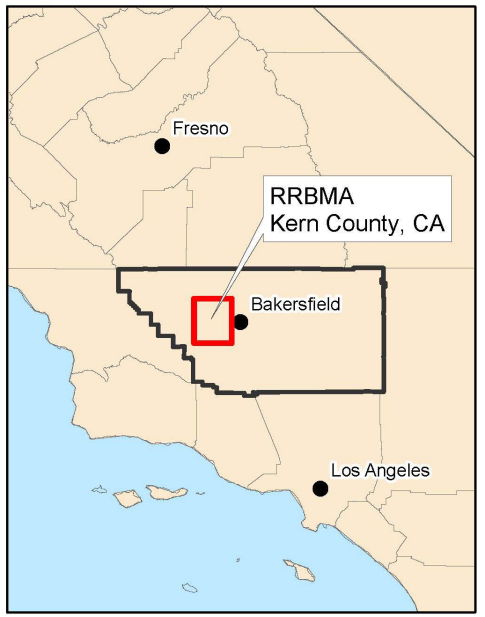
- RRBMA RMW (Water Quality)
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- Central Monitoring Area
- South Monitoring Area
- East Monitoring Area
- South of the River Monitoring Area
- Major Highways
- Major Conveyance Facilities

RMW = Representative Monitoring Well

N

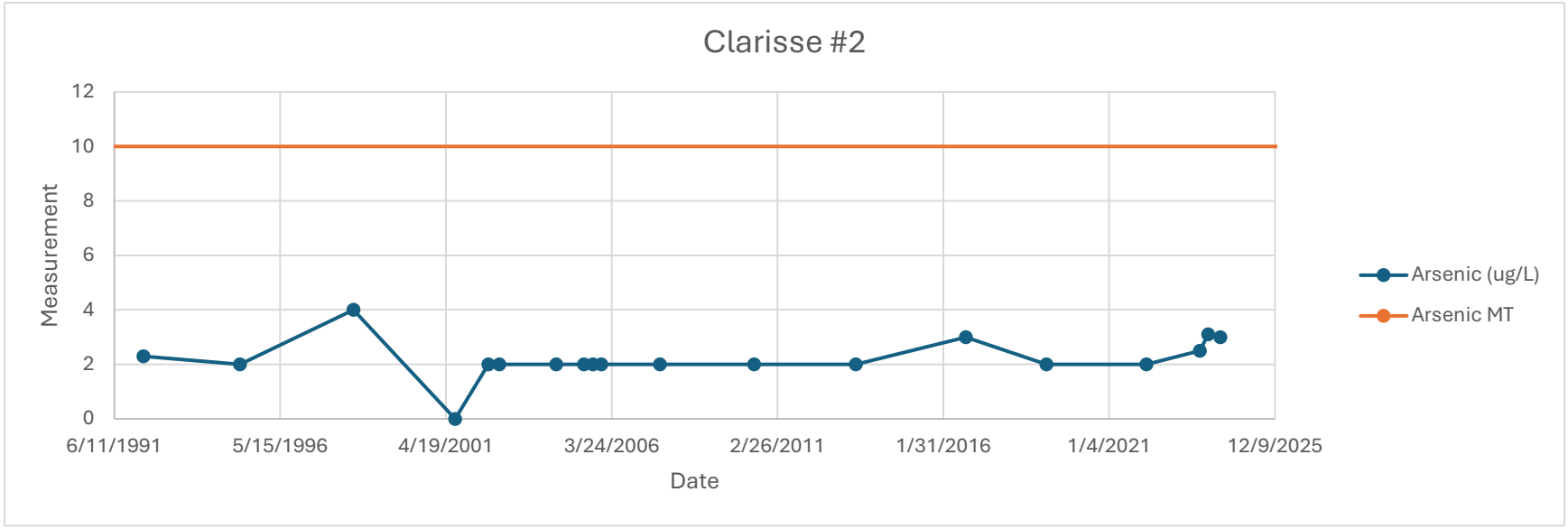
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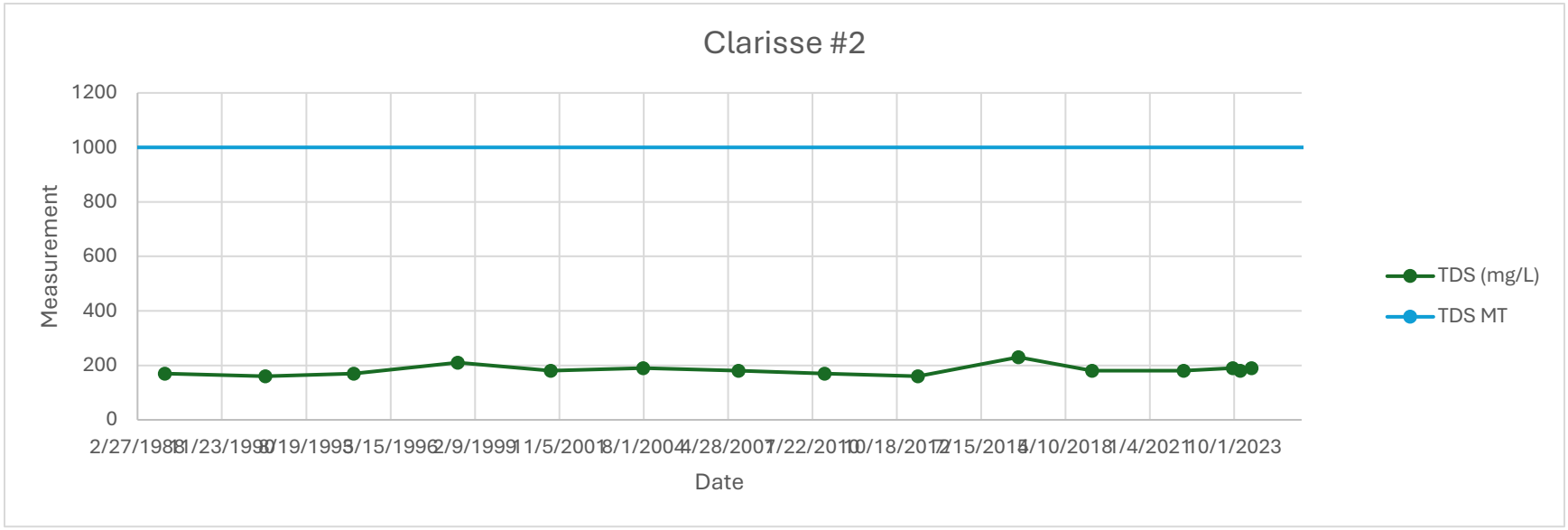
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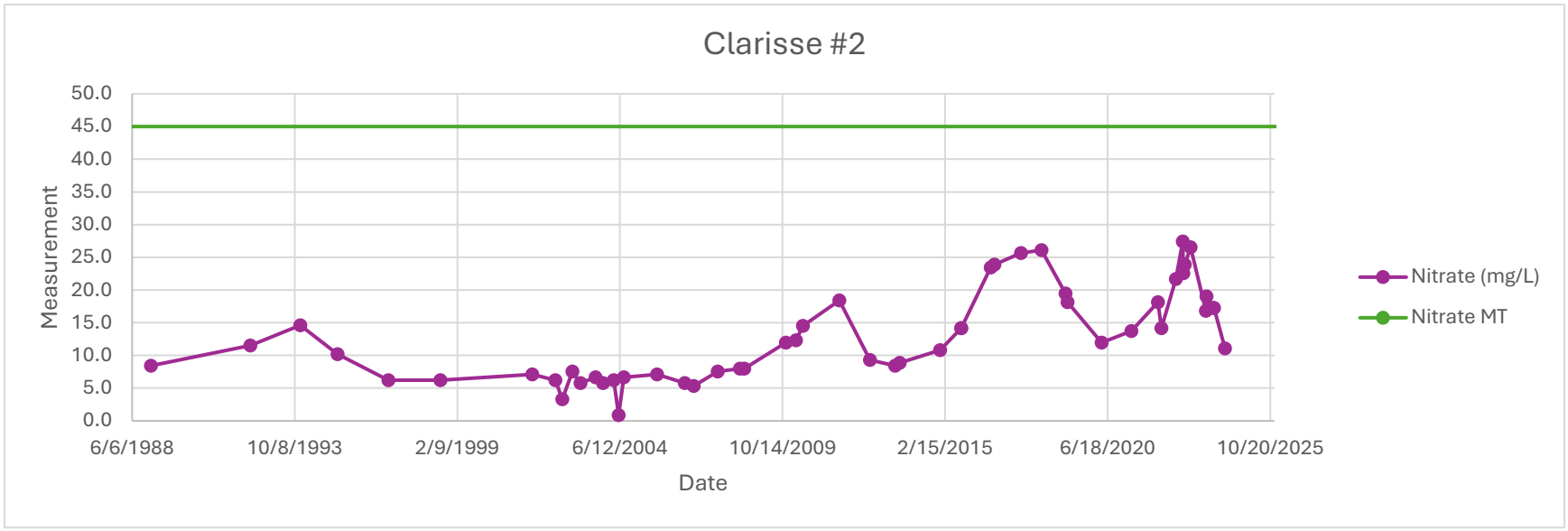


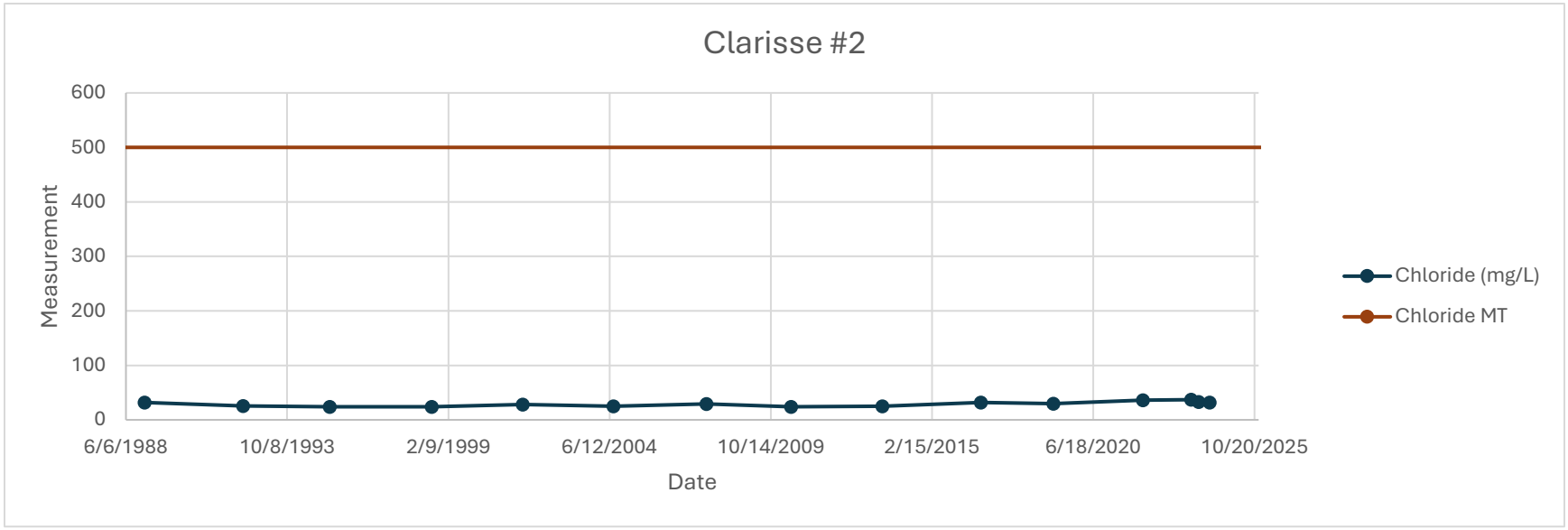
ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT

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Clarisse #2
12
10
8
6
4
2
0
Measurement
6/11/1991
5/15/1996
4/19/2001
3/24/2006
2/26/2011
1/31/2016
1/4/2021
12/9/2025
Date
Arsenic (ug/L)
Arsenic MT

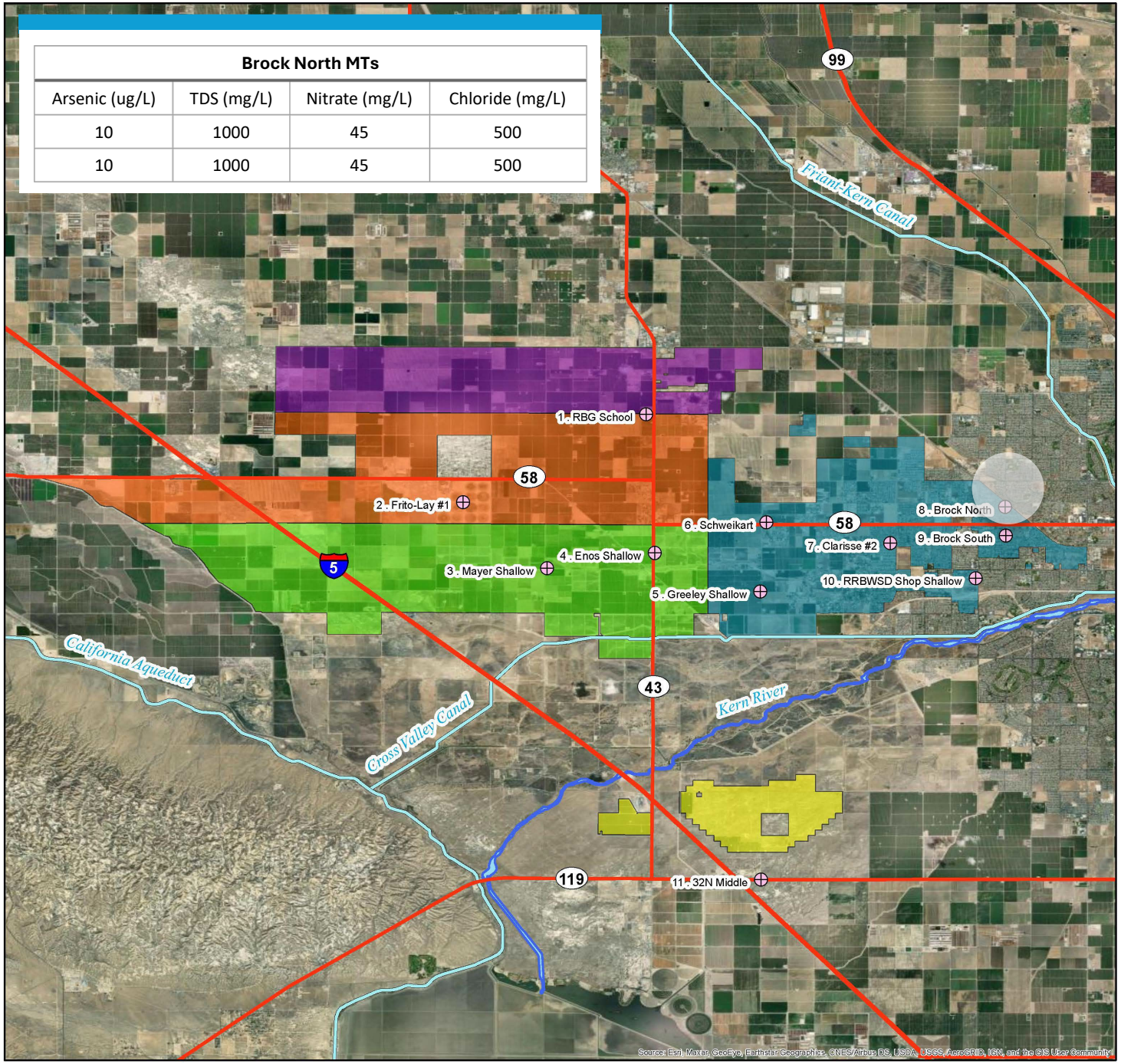

Clarisse #2
1200
1000
800
600
400
200
0
Measurement
2/27/1988
1/23/1990
10/19/1995
5/15/1996
2/9/1999
11/5/2001
8/1/2004
4/28/2007
7/22/2010
10/18/2012
2/15/2014
6/10/2018
1/4/2021
10/1/2023
Date
TDS (mg/L)
TDS MT


Clarisse #2
50.0
45.0
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0.0
Measurement
6/6/1988
10/8/1993
2/9/1999
6/12/2004
10/14/2009
2/15/2015
6/18/2020
10/20/2025
Date
Nitrate (mg/L)
Nitrate MT


Clarisse #2
600
500
400
300
200
100
0
Measurement
6/6/1988
10/8/1993
2/9/1999
6/12/2004
10/14/2009
2/15/2015
6/18/2020
10/20/2025
Date
Chloride (mg/L)
Chloride MT

RRBMA Monitoring Areas - Water Quality Wells

Brock North MTs			
Arsenic (ug/L)	TDS (mg/L)	Nitrate (mg/L)	Chloride (mg/L)
10	1000	45	500
10	1000	45	500



Legend

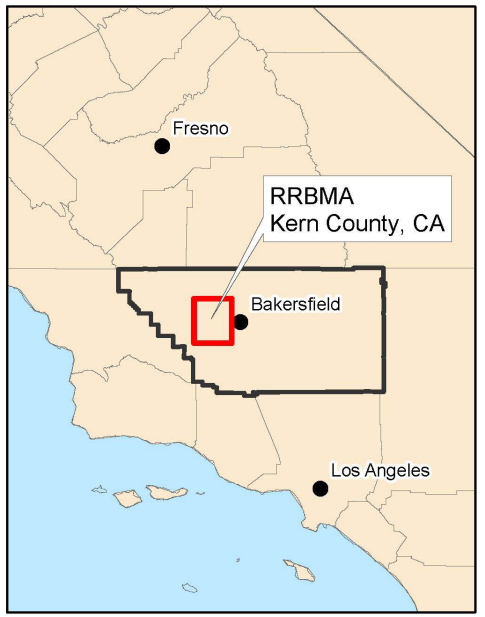
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- South Monitoring Area
- East Monitoring Area
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- Major Conveyance Facilities

RMW = Representative Monitoring Well

N

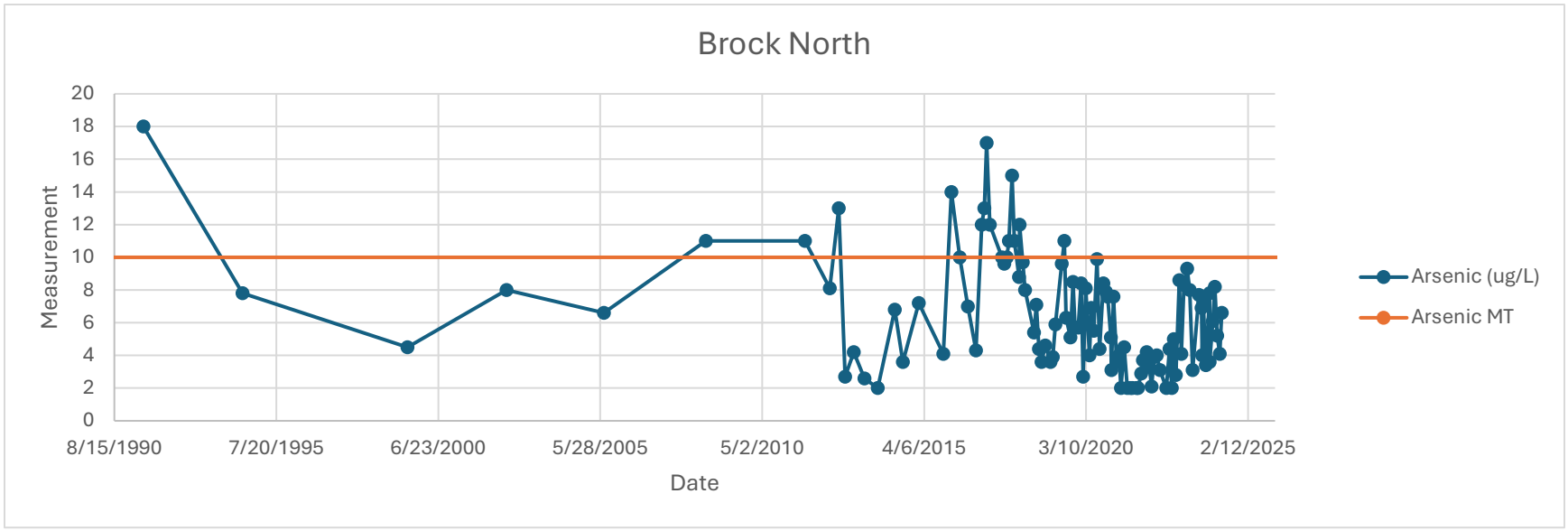
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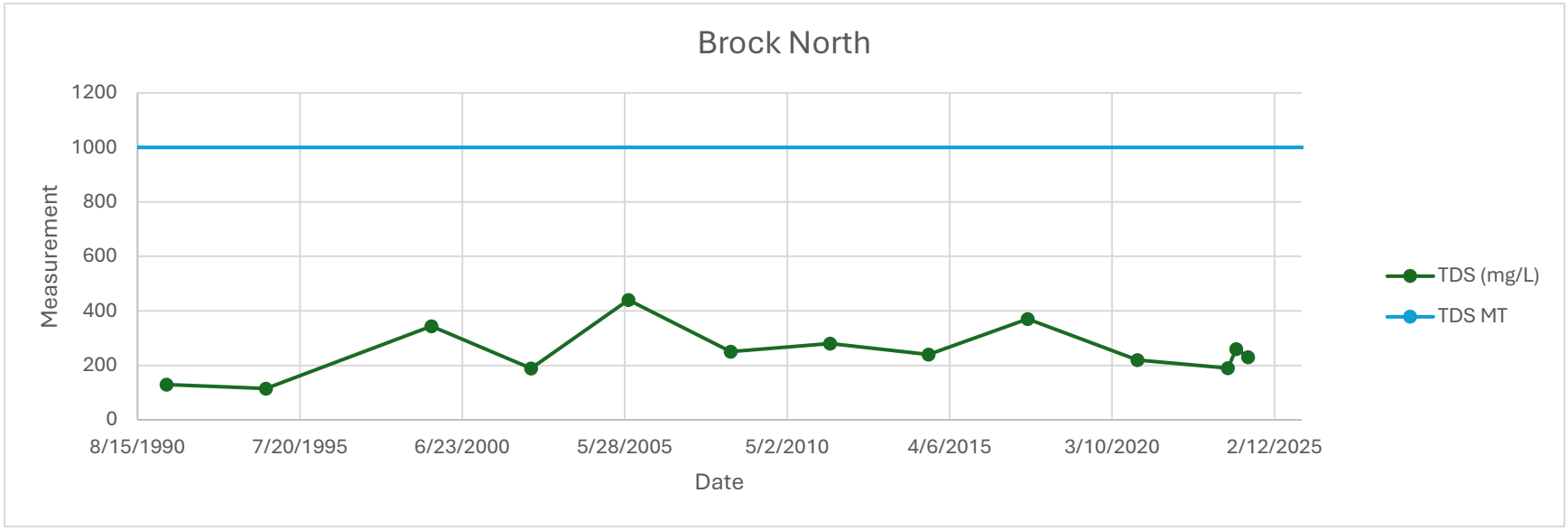
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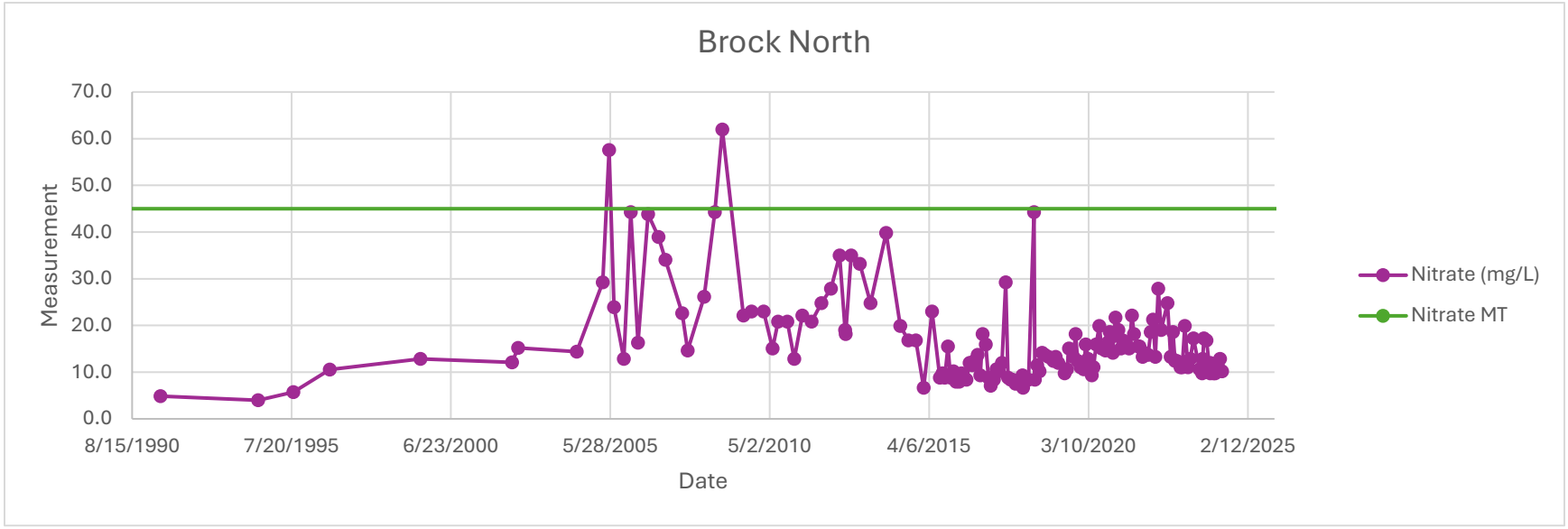


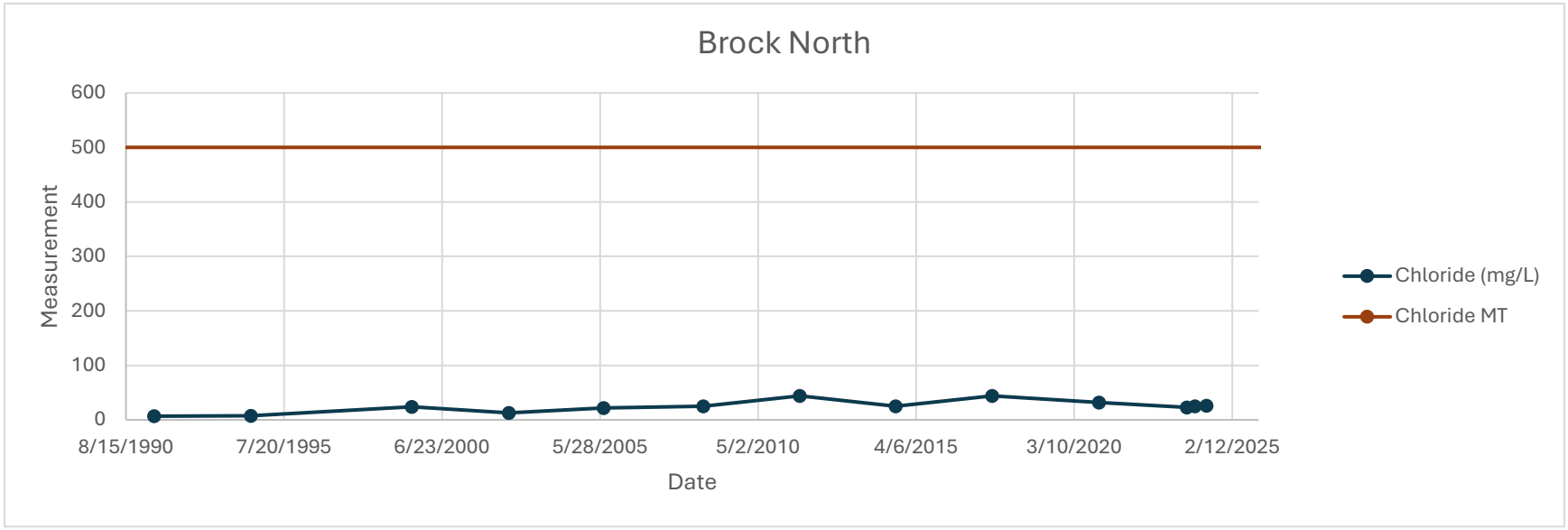
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Brock North
20
18
16
14
12
10
8
6
4
2
0
Measurement
8/15/1990
7/20/1995
6/23/2000
5/28/2005
5/2/2010
4/6/2015
3/10/2020
2/12/2025
Date
Arsenic (ug/L)
Arsenic MT

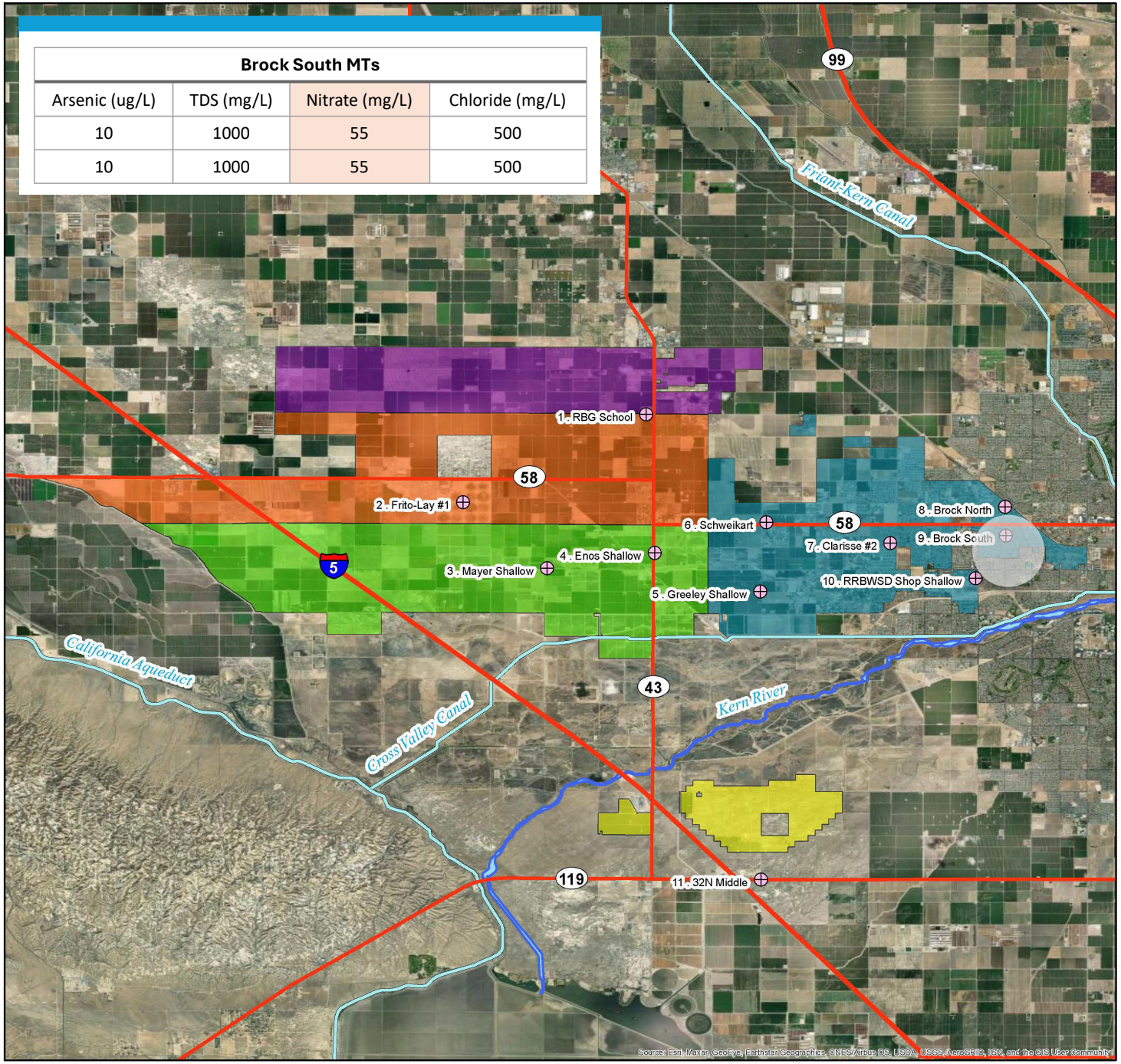

Brock North
1200
1000
800
600
400
200
0
Measurement
8/15/1990
7/20/1995
6/23/2000
5/28/2005
5/2/2010
4/6/2015
3/10/2020
2/12/2025
Date
TDS (mg/L)
TDS MT


Brock North
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
Measurement
8/15/1990
7/20/1995
6/23/2000
5/28/2005
5/2/2010
4/6/2015
3/10/2020
2/12/2025
Date
Nitrate (mg/L)
Nitrate MT


Brock North
600
500
400
300
200
100
0
Measurement
8/15/1990
7/20/1995
6/23/2000
5/28/2005
5/2/2010
4/6/2015
3/10/2020
2/12/2025
Date
Chloride (mg/L)
Chloride MT

RRBMA Monitoring Areas - Water Quality Wells

Brock South MTs			
Arsenic (ug/L)	TDS (mg/L)	Nitrate (mg/L)	Chloride (mg/L)
10	1000	55	500
10	1000	55	500



Legend

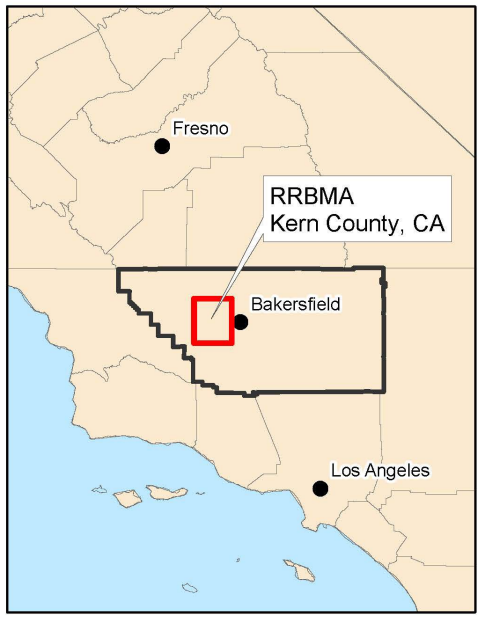
- RRBMA RMW (Water Quality)
- KernRiver
- North Monitoring Area
- Central Monitoring Area
- South Monitoring Area
- East Monitoring Area
- South of the River Monitoring Area
- Major Highways
- Major Conveyance Facilities

RMW = Representative Monitoring Well

N

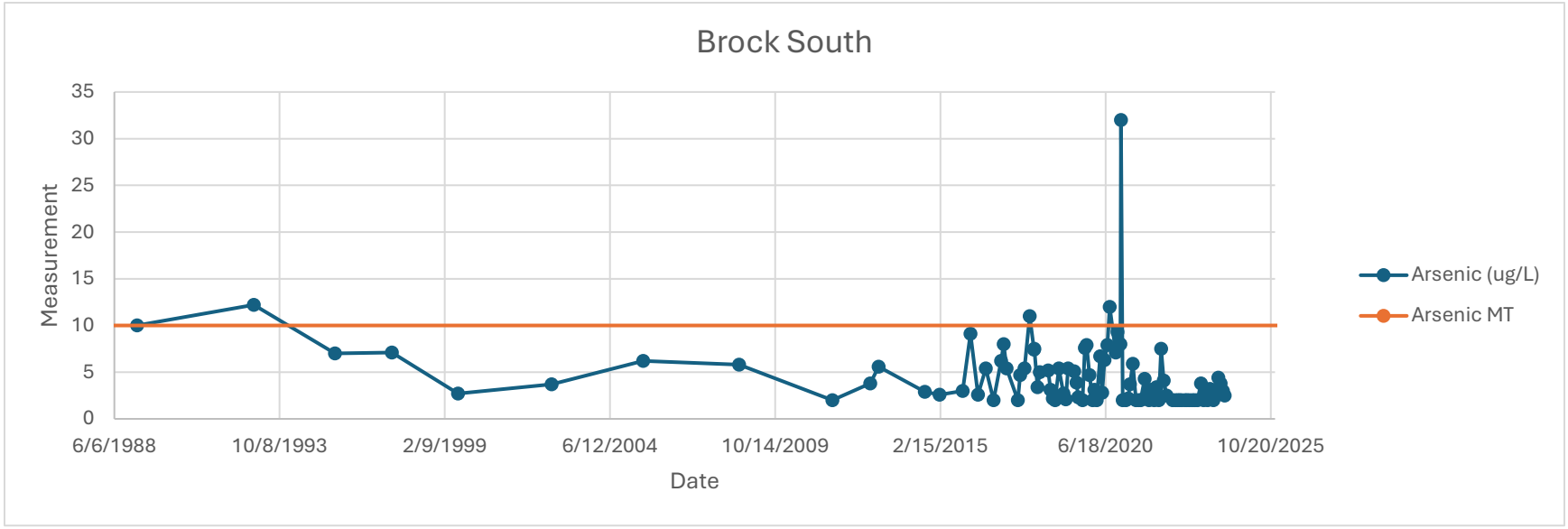
0 1.75 3.5 7

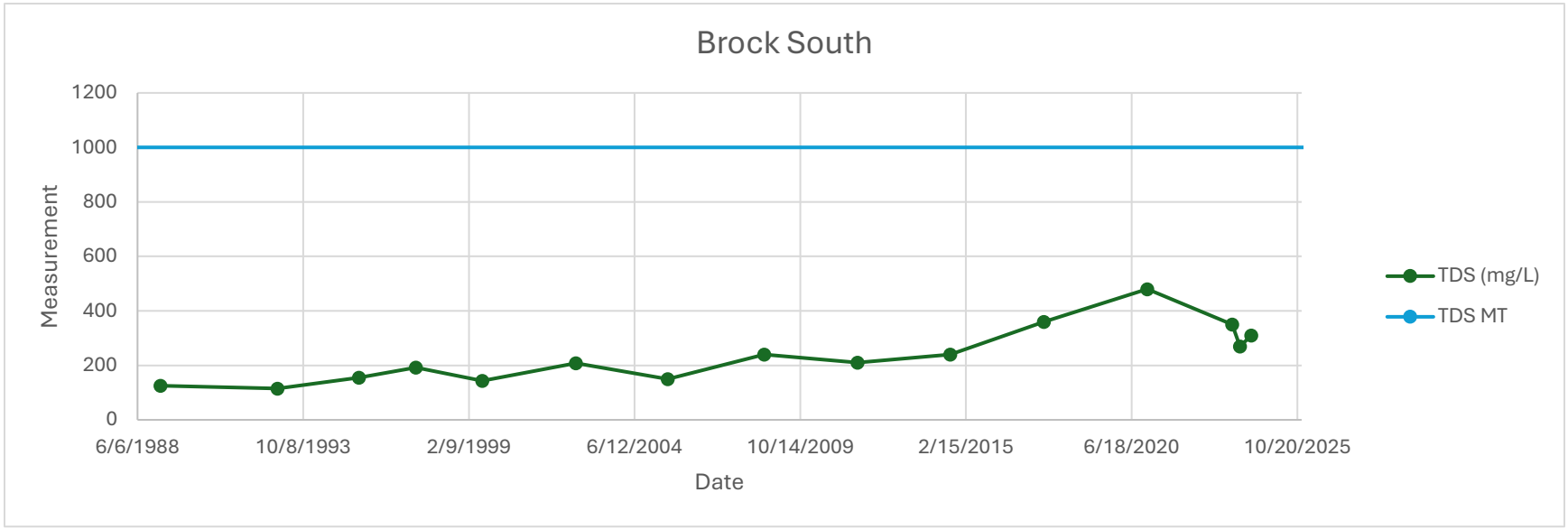
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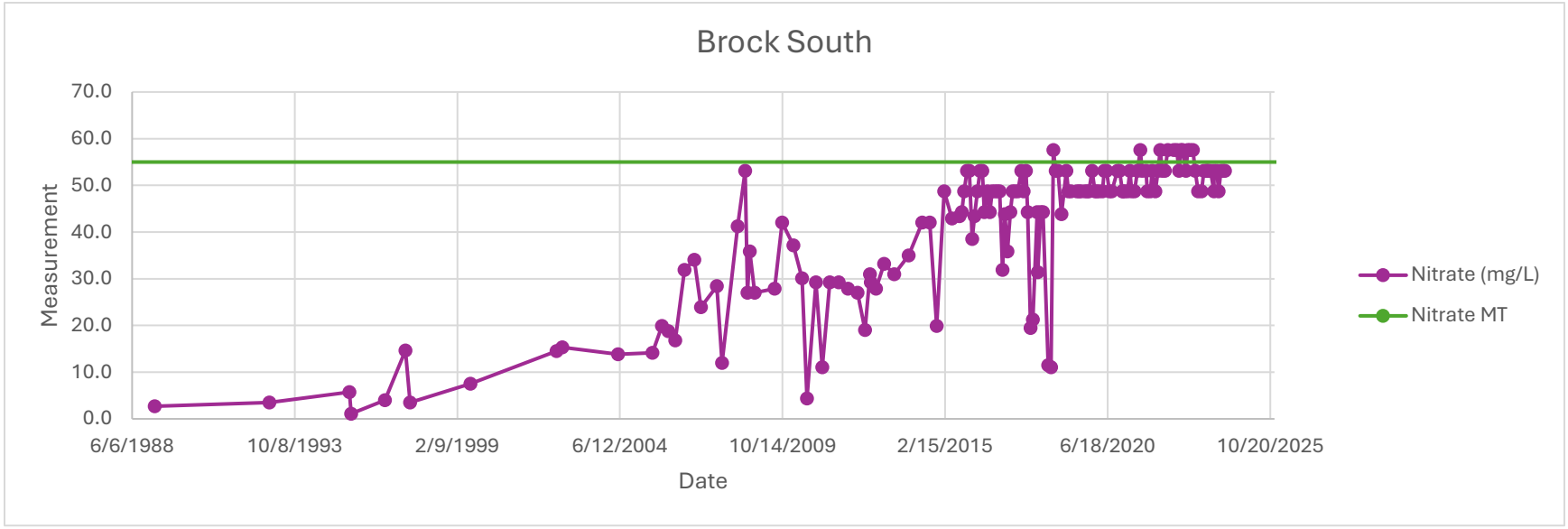


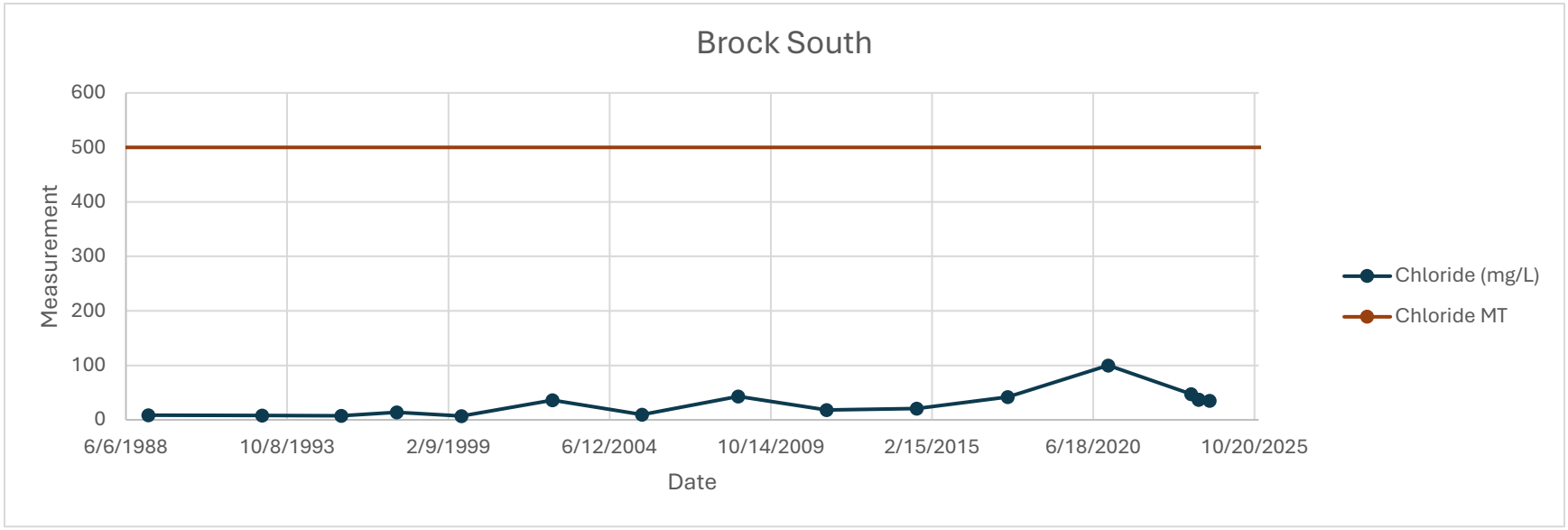
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Brock South
35
30
25
20
15
10
5
0
Measurement
6/6/1988
10/8/1993
2/9/1999
6/12/2004
10/14/2009
2/15/2015
6/18/2020
10/20/2025
Date
Arsenic (ug/L)
Arsenic MT

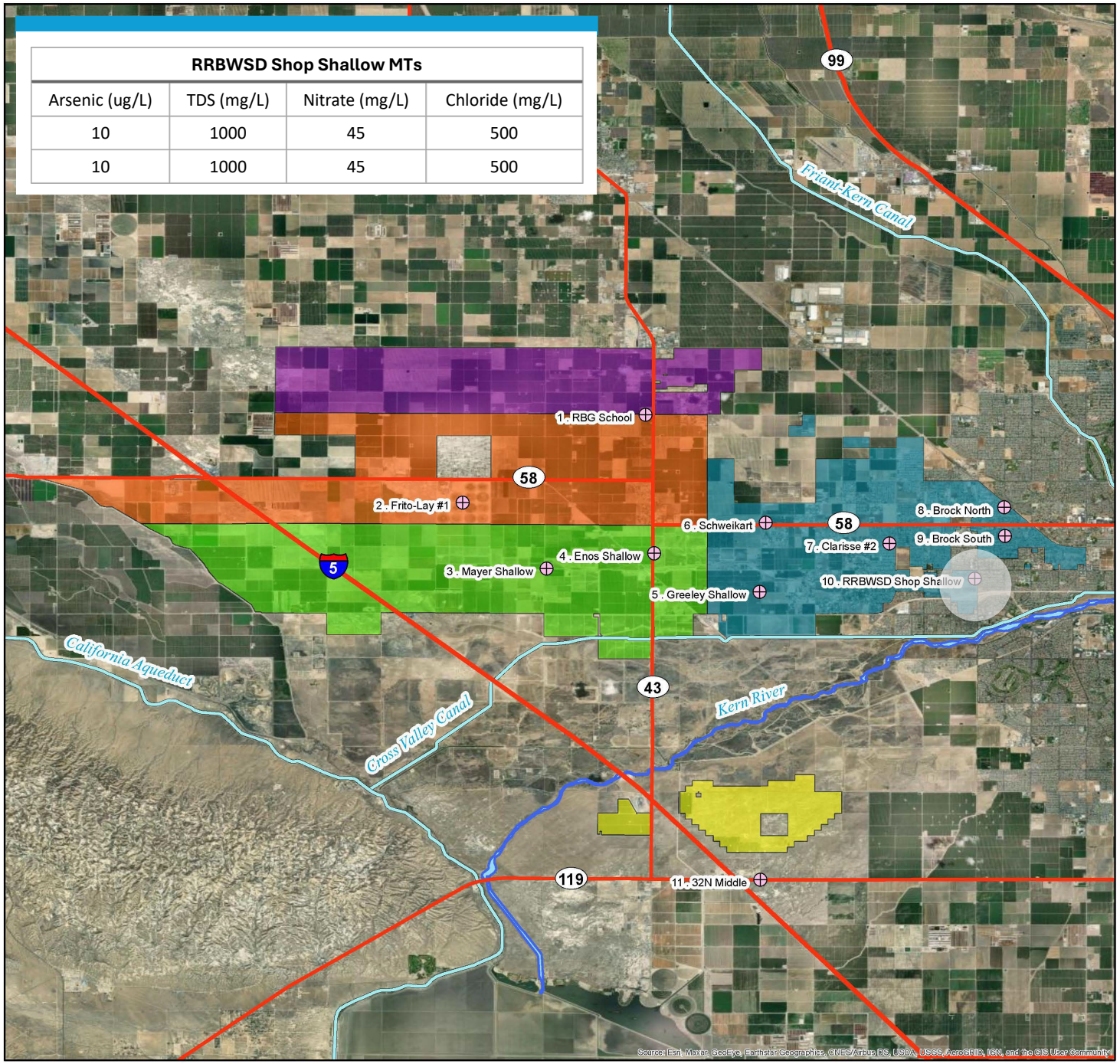

Brock South
1200
1000
800
600
400
200
0
Measurement
6/6/1988
10/8/1993
2/9/1999
6/12/2004
10/14/2009
2/15/2015
6/18/2020
10/20/2025
Date
TDS (mg/L)
TDS MT


Brock South
70.0
60.0
50.0
40.0
30.0
20.0
10.0
0.0
Measurement
6/6/1988
10/8/1993
2/9/1999
6/12/2004
10/14/2009
2/15/2015
6/18/2020
10/20/2025
Date
Nitrate (mg/L)
Nitrate MT


Brock South
600
500
400
300
200
100
0
Measurement
6/6/1988
10/8/1993
2/9/1999
6/12/2004
10/14/2009
2/15/2015
6/18/2020
10/20/2025
Date
Chloride (mg/L)
Chloride MT

RRBMA Monitoring Areas - Water Quality Wells

RRBWSD Shop Shallow MTs			
Arsenic (ug/L)	TDS (mg/L)	Nitrate (mg/L)	Chloride (mg/L)
10	1000	45	500
10	1000	45	500



Legend

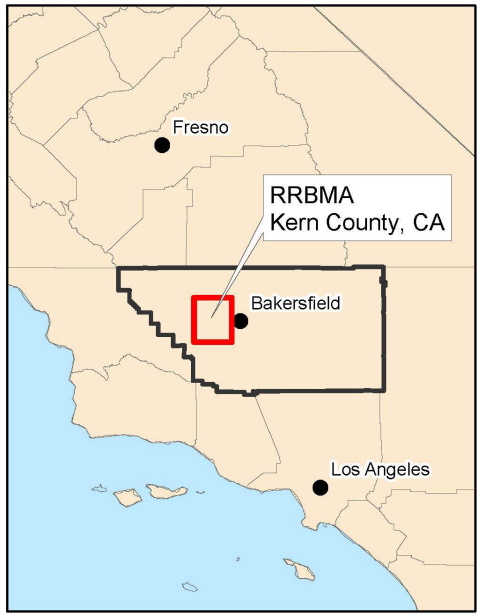
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- Major Conveyance Facilities

RMW = Representative Monitoring Well

N

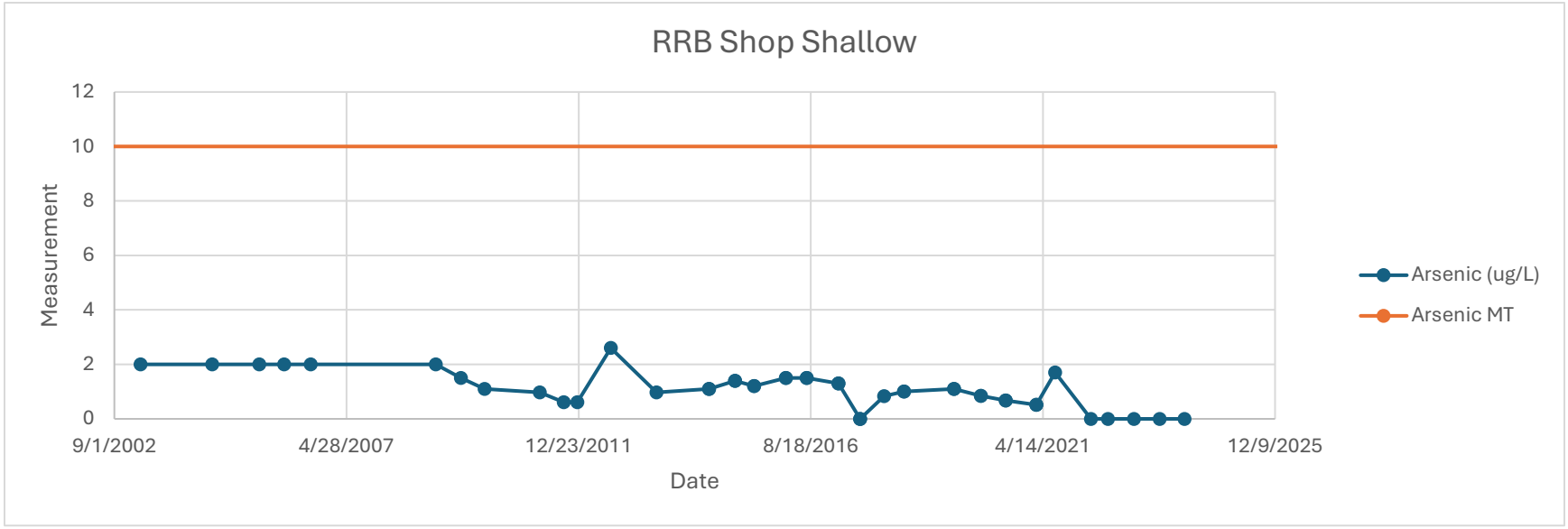
0 1.75 3.5 7

Miles

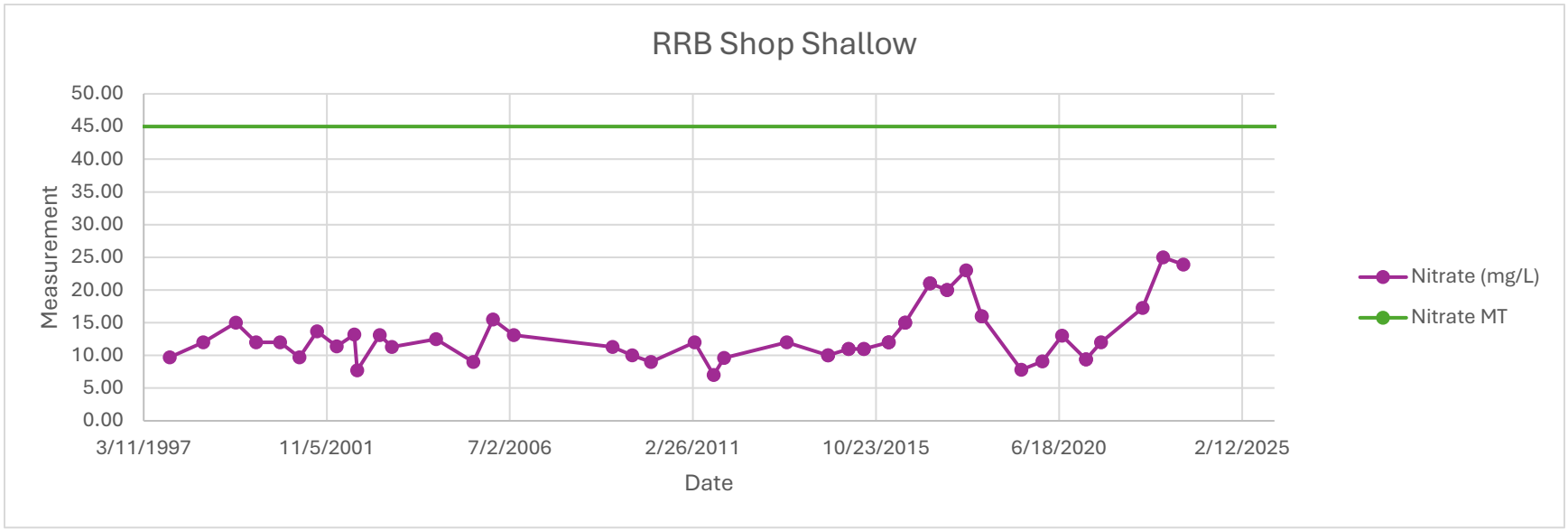


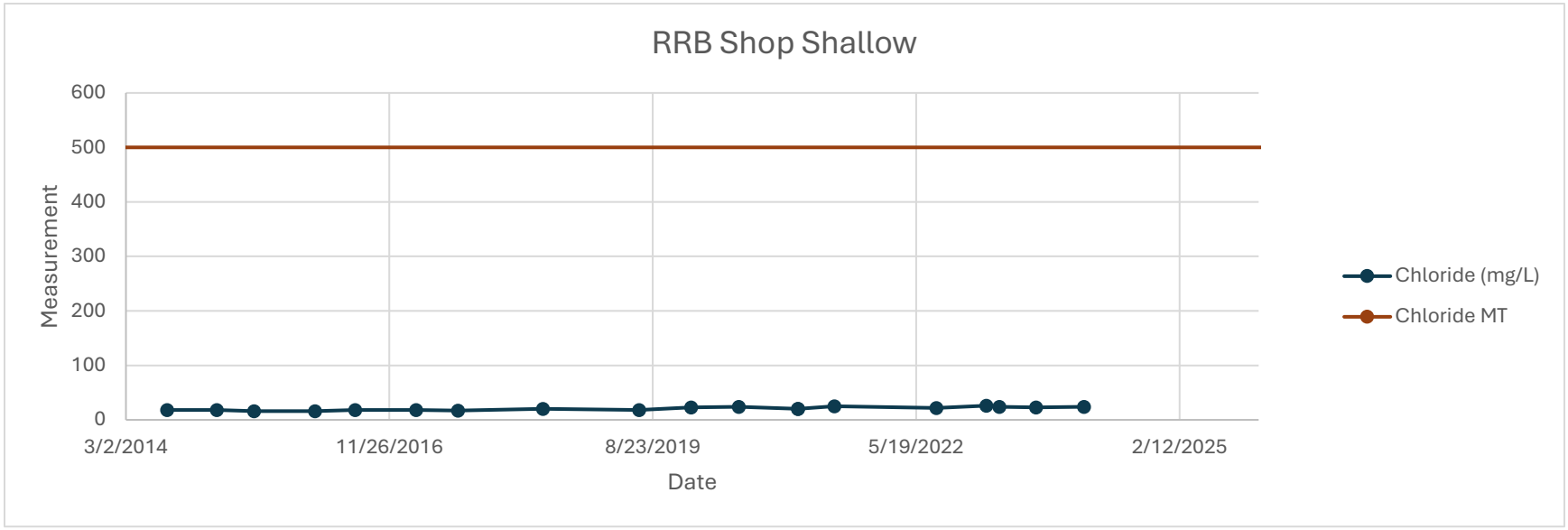
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RRB Shop Shallow
12
10
8
6
4
2
0
Measurement
9/1/2002
4/28/2007
12/23/2011
8/18/2016
4/14/2021
12/9/2025
Date
Arsenic (ug/L)
Arsenic MT

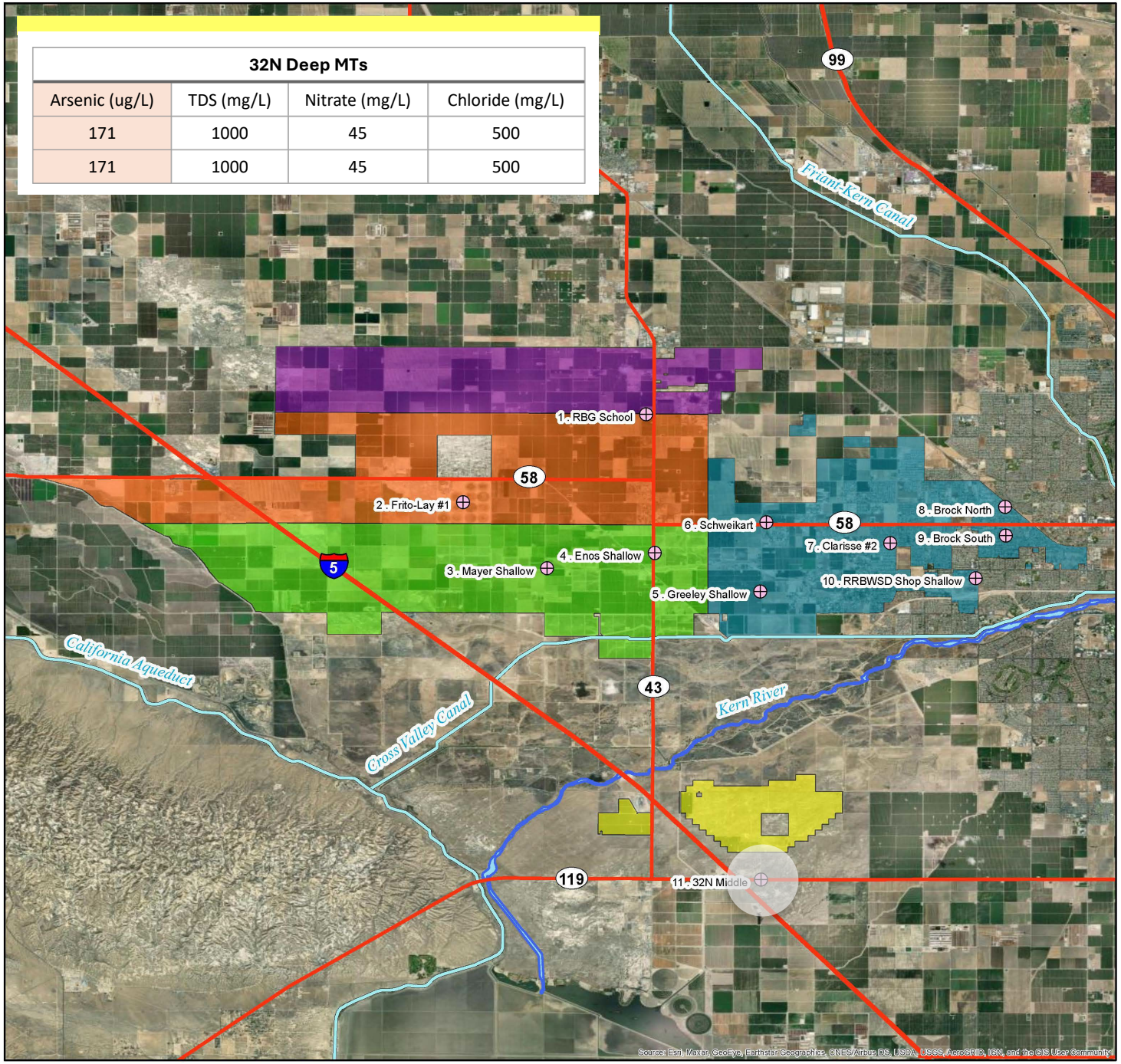

RRB Shop Shallow
1200
1000
800
600
400
200
0
Measurement
1/9/2001
10/6/2003
7/2/2006
3/28/2009
12/23/2011
9/18/2014
6/14/2017
3/10/2020
12/5/2022
8/31/2025
Date
TDS (mg/L)
TDS MT


RRB Shop Shallow
50.00
45.00
40.00
35.00
30.00
25.00
20.00
15.00
10.00
5.00
0.00
Measurement
3/11/1997
11/5/2001
7/2/2006
2/26/2011
10/23/2015
6/18/2020
2/12/2025
Date
Nitrate (mg/L)
Nitrate MT


RRB Shop Shallow
600
500
400
300
200
100
0
Measurement
3/2/2014
11/26/2016
8/23/2019
5/19/2022
2/12/2025
Date
Chloride (mg/L)
Chloride MT

RRBMA Monitoring Areas - Water Quality Wells

32N Deep MTs			
Arsenic (ug/L)	TDS (mg/L)	Nitrate (mg/L)	Chloride (mg/L)
171	1000	45	500
171	1000	45	500



Legend

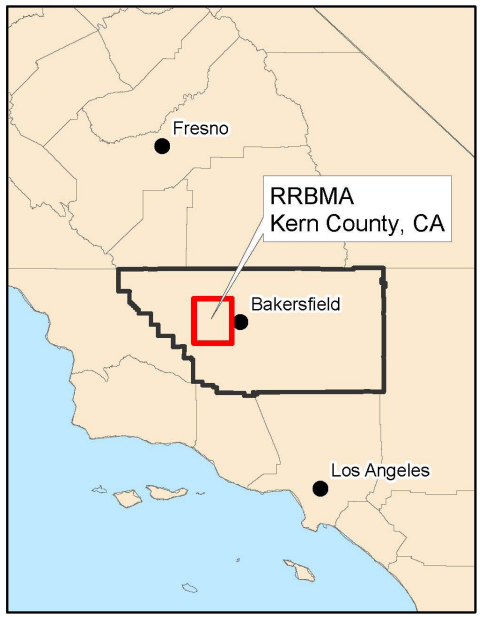
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RMW = Representative Monitoring Well

N

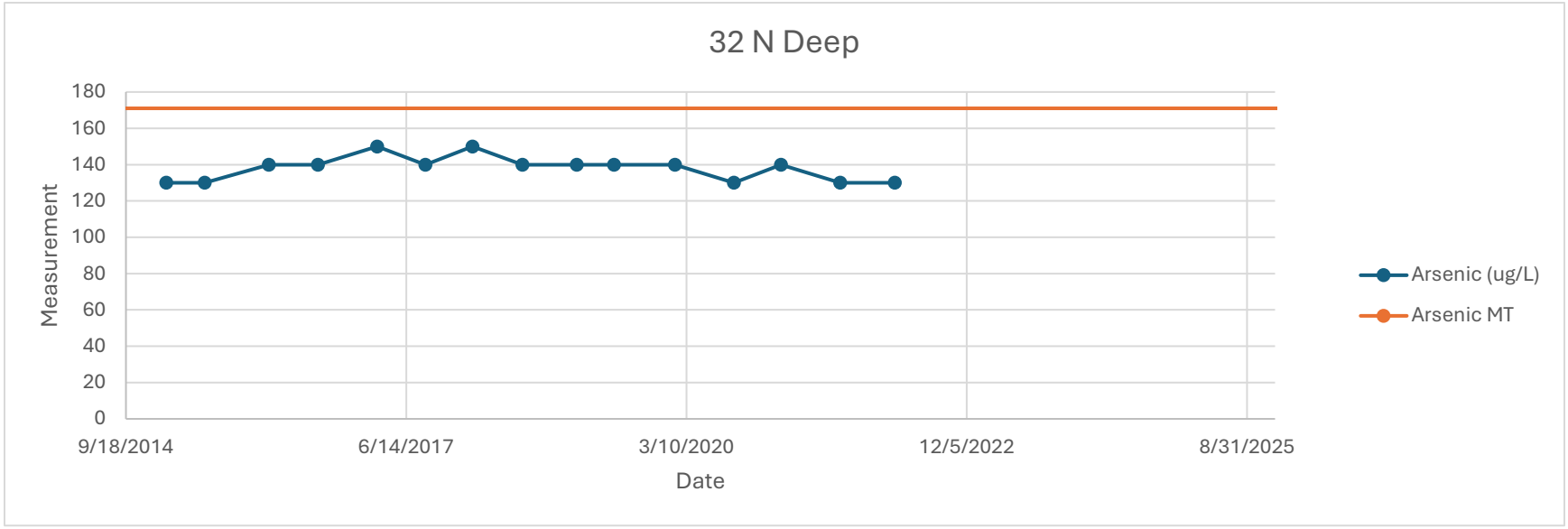
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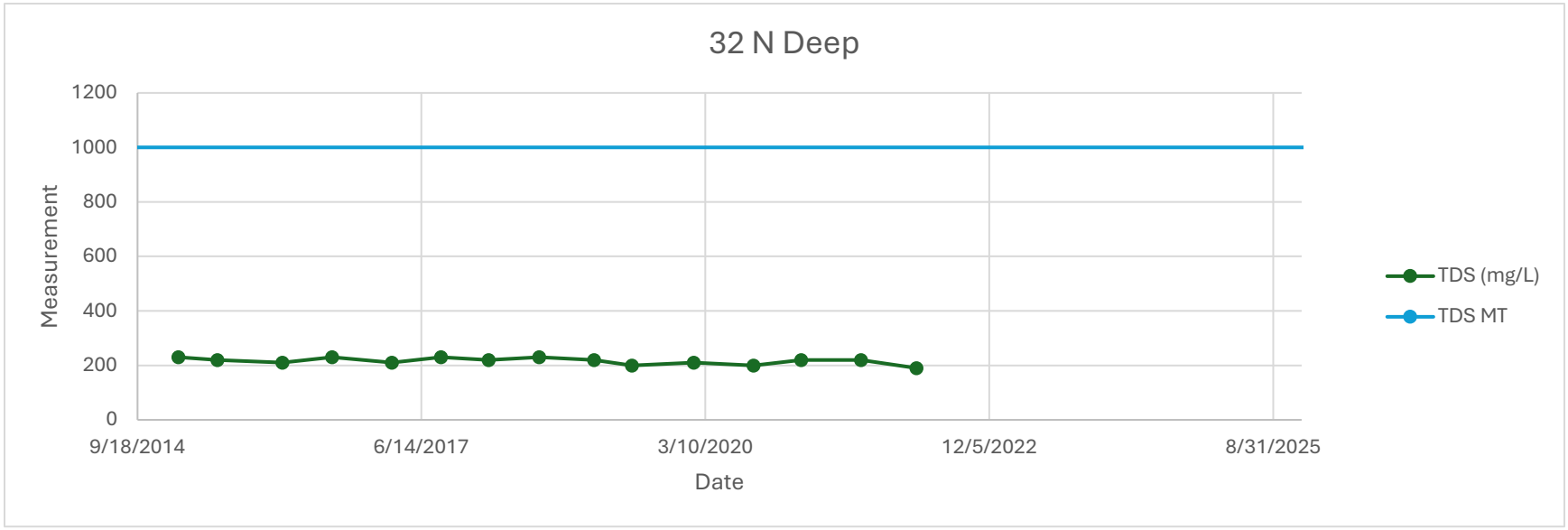
Miles

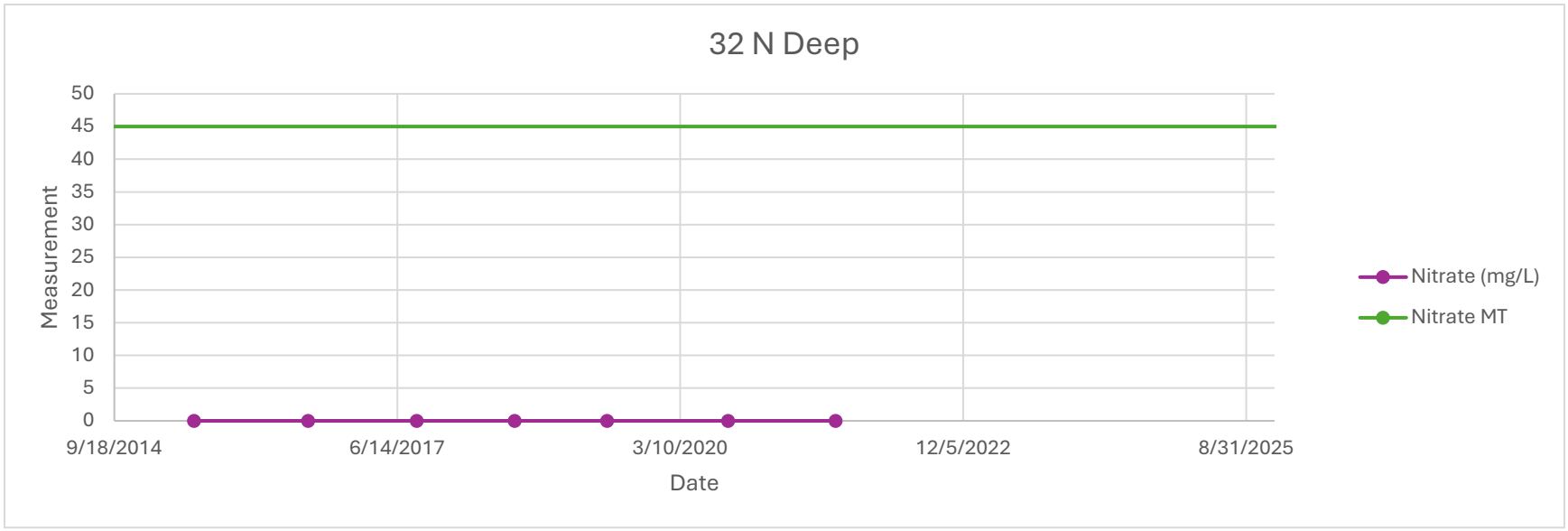


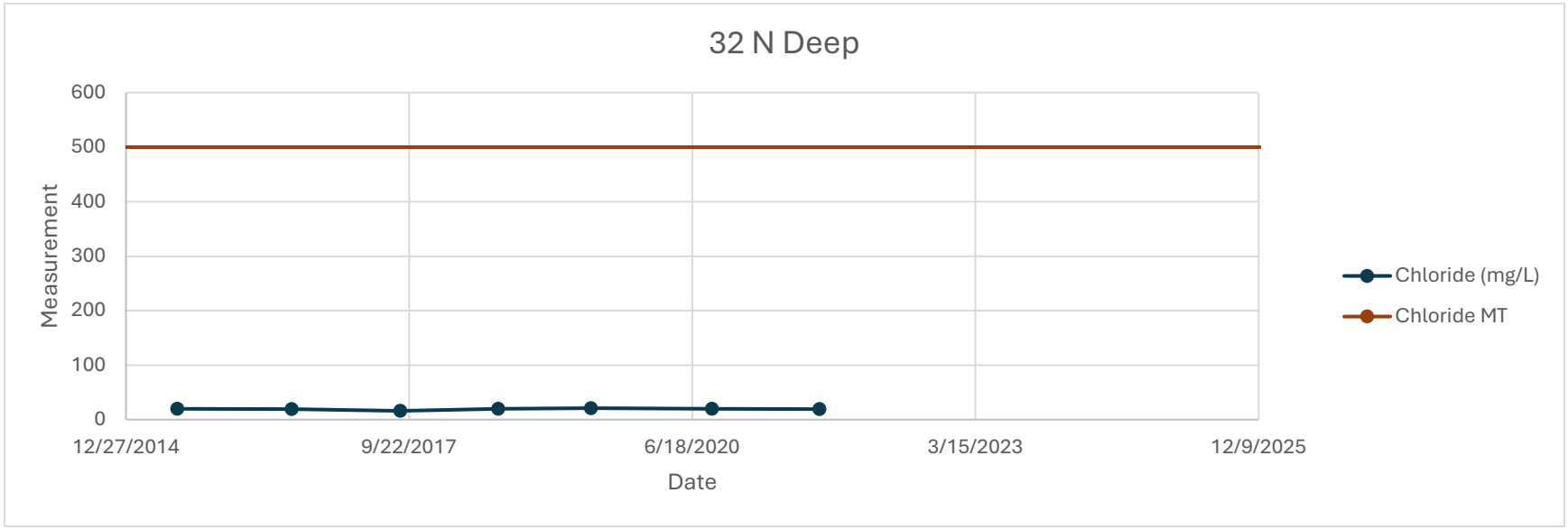
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32 N Deep
180
160
140
120
100
80
60
40
20
0
Measurement
9/18/2014
6/14/2017
3/10/2020
12/5/2022
8/31/2025
Date
Arsenic (ug/L)
Arsenic MT


32 N Deep
1200
1000
800
600
400
200
0
Measurement
9/18/2014
6/14/2017
3/10/2020
12/5/2022
8/31/2025
Date
TDS (mg/L)
TDS MT


32 N Deep
50
45
40
35
30
25
20
15
10
5
0
Measurement
9/18/2014
6/14/2017
3/10/2020
12/5/2022
8/31/2025
Date
Nitrate (mg/L)
Nitrate MT


32 N Deep
600
500
400
300
200
100
0
Measurement
12/27/2014
9/22/2017
6/18/2020
3/15/2023
12/9/2025
Date
Chloride (mg/L)
Chloride MT

Appendix 4

RRBWSD Groundwater Program
Operations 1995-2024

Table 1 - RRBWSD Water Supplies (Does not include banking for third parties)

Year	Kern River Contract Supply	Kern River Credited yet Undelivered Supply[4]	Kern River Onyx Project Supply	SWP Table A Supply	SWP Article 21 Supply	SWP Pool Purchases	CVP Section 215 Purchases	Other Purchases and Exchanges	RRBWSD Gross Share of Program Supplies	Subtotal Water Supplies[3]	CVP Flood Water	KR Flood Water	Subtotal Flood Water	Effective Precipitation[1]	Estimated Safe Yield[2]	Subtotal Natural Inflow	Total RRBWSD Supplies
1995	87,383	-	-	29,900	7,858	-	693	(4,908)	9,838	**130,764**	2,992	-	**2,992**	27,522	12,683	**40,205**	**173,962**
1996	56,305	-	-	29,900	-	-	-	(6,690)	17,265	**96,780**	-	-	**-**	22,146	12,683	**34,829**	**131,610**
1997	59,226	-	-	29,900	-	-	-	(8,894)	9,193	**89,425**	6,612	14,181	**20,793**	16,317	12,607	**28,923**	**139,141**
1998	74,383	-	-	29,900	-	-	2,361	12,368	230	**119,242**	2,747	36,318	**39,065**	38,380	12,607	**50,987**	**209,294**
1999	14,787	-	-	29,900	3,790	30,000	-	219	-	**78,696**	-	-	**-**	16,948	12,607	**29,555**	**108,251**
2000	10,758	-	-	7,874	3,254	16,872	-	(8,071)	16,093	**46,780**	-	-	**-**	13,979	12,604	**26,583**	**73,363**
2001	3,972	-	-	2,943	691	122	-	17,848	1,808	**27,384**	-	-	**-**	20,784	12,601	**33,385**	**60,769**
2002	5,135	-	-	20,648	968	631	-	148	-	**27,530**	-	-	**-**	12,374	12,552	**24,925**	**52,455**
2003	7,576	-	-	27,077	838	255	-	-	3,333	**39,079**	-	-	**-**	14,736	12,552	**27,288**	**66,367**
2004	3,342	-	-	19,550	3,034	157	-	100,223	-	**126,306**	-	-	**-**	17,105	12,550	**29,656**	**155,962**
2005	56,017	-	-	26,475	3,807	587	-	9,957	67,897	**164,740**	-	-	**-**	24,599	12,529	**37,128**	**201,868**
2006	27,643	-	-	30,335	1,868	-	3,949	3,993	5,000	**72,788**	1,121	20,688	**21,809**	18,920	12,518	**31,438**	**126,035**
2007	7,783	-	-	17,122	552	145	-	528	-	**26,130**	-	-	**-**	9,051	12,518	**21,569**	**47,699**
2008	-	-	-	10,695	-	28	-	-	-	**10,723**	-	-	**-**	9,658	12,518	**22,176**	**32,899**
2009	-	-	-	12,044	-	48	-	1,903	-	**13,995**	-	-	**-**	15,386	12,506	**27,892**	**41,887**
2010	14,965	-	-	13,906	-	100	-	6,679	37,850	**73,500**	-	-	**-**	38,338	12,555	**50,893**	**124,392**
2011	35,776	-	-	6,144	4,355	527	11,954	26,474	51,753	**136,983**	-	-	**-**	13,617	12,555	**26,172**	**163,155**
2012	7,328	-	-	19,418	-	67	-	(402)	14,029	**40,440**	-	-	**-**	13,400	12,555	**25,955**	**66,395**
2013	-	-	-	23,852	-	1,607	-	25,000	-	**50,459**	-	-	**-**	10,311	12,728	**23,039**	**73,498**
2014	-	-	-	6,460	-	191	-	-	-	**6,651**	-	-	**-**	12,182	12,728	**24,910**	**31,561**
2015	-	-	-	6,701	-	1	-	-	-	**6,702**	-	-	**-**	11,940	12,936	**24,876**	**31,578**
2016	-	-	-	17,678	-	277	-	(7,047)	4,149	**15,057**	-	-	**-**	21,600	12,936	**34,536**	**49,593**
2017	99,376	-	-	25,945	22,186	341	1,950	30,646	56,062	**236,506**	-	-	**-**	16,452	12,793	**29,245**	**265,751**
2018	10,122	-	-	9,086	-	294	-	11,451	20,417	**51,370**	-	-	**-**	15,823	12,793	**28,616**	**79,986**
2019	9,878	-	-	8,551	6,582	-	-	28,409	55,208	**108,628**	-	-	**-**	27,343	12,793	**40,136**	**148,764**
2020	10,000	-	-	18,161	-	91	-	5,062	3,263	**36,577**	-	-	**-**	15,924	12,793	**28,717**	**65,293**
2021	49,888	73,989	-	2,988	-	-	-	-	-	**126,865**	-	-	**-**	16,591	12,793	**29,384**	**156,249**
2022	15,337	4,663	1,115	3,074	-	-	-	-	738	**24,927**	-	-	**-**	12,338	12,794	**25,132**	**50,059**
2023	43,734	-	6,114	23,721	1,605	-	-	54,172	74,194	**203,540**	-	16,248	**16,248**	31,543	12,794	**44,337**	**264,126**
2024	-	-	-	8,242	-	-	-	-	20,280	**28,522**	-	-	**-**	23,564	12,871	**36,435**	**64,958**
Total	710,714	78,652	7,229	518,190	61,388	52,341	20,907	299,068	468,599	**2,217,088**	13,472	87,435	**100,907**	558,872	380,050	**938,922**	**3,256,918**
Average	23,690	2,622	241	17,273	2,046	1,745	697	9,969	15,620	**73,903**	449	2,915	**3,364**	18,629	12,668	**31,297**	**108,564**

Notes:
1. Effective precipitation calculated per method developed as a part of groundwater mediation process.
2. Safe yield calculated based on 0.3 acre-feet/acre for total District gross (assessed) acres less non-farmed District owned lands.
3. Supplies do not include water banked for 3rd parties.
4. Includes estimated Kern River water owed to RRB by the City of Bakersfield but not yet delivered (under terms of agreements between RRBWSD and City).

Preliminary 9/3/2025

Table 2 - RRBWSD Water Demands and Balance

RRBWSD Water Demands											Total RRBWSD Supplies (Table 1)	Annual RRBWSD Balance (Sup-Dem)	Exportable Transfers			Cumulative Balances		
Year	Crop Use[1,8,9]	Urban Use[2]	**Subtotal District Use**	District ODC Losses[3]	Kern Fan Program Losses[4]	RRB Share Program Losses[4]	CVWD Sale Program Losses[5]	**Subtotal Losses**	Groundwater Transfers[6]	**Total RRBWSD Demands**			Account Transfers[7,8]	Return to CVWD	**Subtotal Exportable Transfers**	Cumulative ODC Balance	Cumulative Exportable Balance (GLC)	**Cumulative District Balance**
1995	84,252	6,497	**90,749**	3,838	93	1,181	-	**5,112**	-	**95,861**	173,962	78,101	-	-	**-**	78,101		**78,101**
1996	83,861	6,542	**90,403**	2,564	321	2,072	-	**4,957**	-	**95,360**	131,610	36,249	-	-	**-**	114,350		**114,350**
1997	87,179	6,587	**93,766**	2,481	411	1,103	-	**3,995**	-	**97,761**	139,141	41,380	-	-	**-**	155,730		**155,730**
1998	88,808	6,631	**95,439**	4,187	776	28	-	**4,990**	-	**100,430**	209,294	108,864	-	-	**-**	264,595		**264,595**
1999	89,842	6,874	**96,716**	1,468	-	-	-	**1,468**	-	**98,184**	108,251	10,066	-	-	**-**	274,661		**274,661**
2000	86,634	7,117	**93,751**	771	1,400	1,931	-	**4,102**	-	**97,853**	73,363	(24,490)	-	-	**-**	250,171		**250,171**
2001	83,575	7,360	**90,935**	96	47	50	-	**194**	-	**91,129**	60,769	(30,359)	-	-	**-**	219,811		**219,811**
2002	81,138	7,603	**88,741**	122	117	-	-	**239**	-	**88,979**	52,455	(36,524)	-	-	**-**	183,287		**183,287**
2003	81,916	7,725	**89,641**	376	10	400	-	**786**	-	**90,427**	66,367	(24,060)	-	-	**-**	159,228		**159,228**
2004	81,707	7,877	**89,584**	251	-	-	-	**251**	-	**89,835**	155,962	66,126	100,000	-	**100,000**	125,354	100,000	**225,354**
2005	82,486	8,308	**90,794**	2,382	2,179	7,171	-	**11,732**	-	**102,526**	201,868	99,342		-	**-**	224,695	100,000	**324,695**
2006	83,284	8,454	**91,738**	2,223	633	338	-	**3,194**	-	**94,933**	126,035	31,103	21,809	-	**21,809**	233,989	121,809	**355,798**
2007	76,112	8,797	**84,909**	271	269	-	-	**540**	-	**85,450**	47,699	(37,751)	-	-	**-**	196,238	121,809	**318,047**
2008	79,624	8,703	**88,327**	-	-	-	240	**240**	-	**88,567**	32,899	(55,668)	-	3,000	**(3,000)**	140,570	118,809	**259,379**
2009	84,177	8,809	**92,986**	-	-	-	240	**240**	-	**93,226**	41,887	(51,339)	-	3,000	**(3,000)**	89,231	115,809	**205,040**
2010	86,748	8,825	**95,573**	828	231	2,322	-	**3,381**	-	**98,954**	124,392	25,439	-	-	**-**	114,670	115,809	**230,479**
2011	83,319	8,518	**91,837**	2,021	1,537	3,739	-	**7,296**	5,728	**104,861**	163,155	58,293	18,353	-	**18,353**	154,610	134,162	**288,772**
2012	84,474	8,518	**92,992**	-	7	921	320	**1,248**	-	**94,240**	66,395	(27,845)	-	4,000	**(4,000)**	126,765	130,162	**256,927**
2013	85,441	8,539	**93,980**	-	-	-	1,320	**1,320**	-	**95,300**	73,498	(21,802)	(25,000)	16,500	**(41,500)**	129,963	88,662	**218,625**
2014	87,189	8,539	**95,728**	-	-	-	400	**400**	-	**96,128**	31,561	(64,566)	-	5,000	**(5,000)**	65,396	83,662	**149,058**
2015	85,569	9,044	**94,613**	-	-	-	760	**760**	-	**95,373**	31,578	(63,795)	-	9,500	**(9,500)**	1,601	74,162	**75,763**
2016	87,503	9,028	**96,531**	-	-	373	1,320	**1,693**	-	**98,224**	49,593	(48,631)	-	16,500	**(16,500)**	(47,030)	57,662	**10,632**
2017	87,580	9,089	**96,669**	3,757	2,827	2,431	432	**9,446**	-	**106,115**	265,751	159,635	5,387	5,397	**(10)**	107,219	57,652	**164,871**
2018	86,423	9,180	**95,603**	537	-	555	1,648	**2,741**	840	**99,184**	79,986	(19,198)	-	20,603	**(20,603)**	88,020	37,049	**125,069**
2019	86,928	9,192	**96,120**	880	694	4,189	-	**5,763**	21,542	**123,425**	148,764	25,339	-	-	**-**	113,359	37,049	**150,408**
2020	84,133	9,204	**93,337**	418	-	115	1,520	**2,053**	-	**95,391**	65,293	(30,097)	-	19,000	**(19,000)**	83,262	18,049	**101,311**
2021	82,386	9,302	**91,688**	-	-	-	760	**760**	4,500	**96,948**	156,249	59,301	-	9,500	**(9,500)**	142,563	8,549	**151,112**
2022			**90,508**	-	-	79	-	**79**	15,000	**105,587**	50,059	(55,528)	(25,000)	-	**(25,000)**	112,035	(16,451)	**95,584**
2023			**93,242**	2,873	1,736	5,330	800	**10,739**	-	**103,981**	264,126	160,145	16,248	10,000	**6,248**	255,932	(10,203)	**245,729**
2024			**96,074**	-	183	1,216	-	**1,399**	-	**97,473**	64,958	(32,515)	-	-	**-**	223,416	(10,203)	**213,213**
Total			**2,782,974**	32,344	13,471	35,545	9,760	**91,120**	47,610	**2,921,705**	3,256,918	335,213	111,797	122,000	**(10,203)**			
Average			**92,766**	1,078	449	1,185	325	**3,037**	1,587	**97,390**	108,564	11,174	3,855	4,067	**(340)**			

Notes:
1. Crop use calculated per method developed as a part of groundwater mediation process (Cal Poly method) through 2021.
2. Urban consumptive use estimated based on 1.2 acre-feet/net acre through 2021.
3. Losses are assessed at 3% per MOU on surface water deliveries for District recharge not a part of other programs.
4. Losses for banked water and for surface diversions for District use associated with banking programs are assessed per MOU. See Tables 3 and 4.
5. Additional losses for CVWD return water assessed per MOU.
6. Groundwater transfers from Kern Fan Project bank accounts per Table 4a less groundwater transfers as part of banking program returns.
7. 100,000 AF WKWD supply tranfered to exportable in 2004. 25,000 AF deleted from Exportable Balance per WK program and added to RRBWSD District Balance in 2013 and 2022.
8. RRBWSD supplies transferred to exportable account include floodwater from the Friant-Kern, qualified high flow Kern River water purchases, and Kern River Mandatory Release water.
9. District consumption estimated from IRTC Metric for 2022 - includes crop and urban use. Consumptive use estimate using previous methodology was approximately 1% less than METRIC data.
10. District consumption estimated from LandIQ for 2023 - includes crop and urban use.

Table 3a - Total Banking Programs (from 2004 on)

Year	Total Delivered	For Partners			Total Banking Program Losses	Cum. Banking Program Losses	For RRBWSD		
		Total to Bank	Total Returned	Bank Balance			Gross	Losses	After Losses
				51,792					
2004	313	280	17,938	34,134	33	33	-	-	-
2005	215,077	136,490	3,943	166,680	9,938	9,972	67,897	7,171	60,726
2006	73,816	62,676	3,400	225,957	6,695	16,666	5,000	338	4,662
2007	8,200	29,323	44,103	211,176	877	17,544	-	-	-
2008	-	-	17,421	193,755	-	17,544	-	-	-
2009	4,633	4,170	14,818	183,107	463	18,007	-	-	-
2010	116,925	82,081	8,250	256,938	5,244	23,252	37,850	2,322	35,527
2011	187,259	136,248	11,000	382,186	10,258	33,509	51,753	3,739	48,014
2012	37,975	35,381	33,499	384,068	1,065	34,575	14,029	921	13,108
2013	-	-	44,197	339,871	-	34,575	-	-	-
2014	-	-	50,140	289,731	-	34,575	-	-	-
2015	-	-	38,940	250,791	-	34,575	-	-	-
2016	8,298	9,209	26,753	233,247	-	34,575	4,149	373	3,776
2017	213,880	144,286	21,579	355,954	13,066	47,640	56,062	2,431	53,631
2018	41,452	19,611	25,614	349,951	1,047	48,687	20,417	555	19,861
2019	167,579	105,384	9,250	446,085	7,062	55,749	55,208	4,189	51,019
2020	6,675	3,081	61,876	387,290	407	56,156	3,263	115	3,147
2021	-	-	77,888	309,402	-	56,156	-	-	-
2022	1,476	930	66,177	244,155	15	56,170	738	79	659
2023	233,636	143,649	8,250	379,554	13,462	69,632	74,194	5,330	68,864
2024	49,824	26,704	31,524	374,734	2,730	72,361	20,280	1,216	19,064

Table 3b - Total Program Balance - All Programs

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	**(14)**
Year	AEWSD 2:1 Ac-Ft	DEID 2:1 Ac-Ft	KT&RG 2:1 Ac-Ft	SCVWA 2:1 Ac-Ft	TLBWSD 2:1 Ac-Ft	Westside 2:1 Ac-Ft	Homer 2:1 Ac-Ft	ExchCont 2:1 Ac-Ft	Westside Programs Ac-Ft	IRWD Banking Ac-Ft	BVWSD Banking Ac-Ft	SCVWA Banking Ac-Ft	**Sum Accounts Ac-Ft**
2004	32,550	0	1,304	0	0	0	0	0	0	0	280	0	**34,134**
2005	71,630	0	24,685	0	0	0	0	0	0	0	53,220	17,146	**166,680**
2006	71,213	0	29,385	0	0	0	0	0	0	2,842	88,226	34,291	**225,957**
2007	64,162	0	17,083	0	0	0	0	0	0	2,842	63,476	63,614	**211,176**
2008	54,991	0	17,083	0	0	0	0	0	0	2,842	55,226	63,614	**193,755**
2009	53,005	0	16,670	0	0	0	0	0	0	2,842	46,976	63,614	**183,107**
2010	53,005	19,781	39,485	0	0	0	0	0	0	11,379	38,726	94,562	**256,938**
2011	81,669	27,549	46,554	7,663	0	0	0	0	0	29,709	93,600	95,443	**382,186**
2012	94,006	23,549	47,291	9,648	0	0	0	0	0	33,053	75,350	101,172	**384,068**
2013	84,006	13,549	38,291	9,648	0	0	0	0	0	26,106	67,100	101,172	**339,871**
2014	74,006	5,774	28,291	9,648	0	0	0	0	0	14,815	58,850	98,348	**289,731**
2015	67,143	69	17,921	9,648	0	0	0	0	0	10,061	50,600	95,350	**250,791**
2016	57,640	4,218	8,921	9,648	0	0	0	0	0	10,061	42,350	100,410	**233,247**
2017	63,097	18,161	25,683	9,648	0	0	1,485	4,250	0	27,680	105,540	100,410	**355,954**
2018	57,527	19,443	31,633	9,648	0	0	3,185	4,250	0	26,566	97,290	100,410	**349,951**
2019	74,461	44,775	36,185	14,570	0	0	3,185	5,375	0	39,321	127,804	100,410	**446,085**
2020	64,461	35,114	29,275	0	0	0	324	7,500	0	32,134	119,554	98,929	**387,290**
2021	54,461	25,114	20,885	0	0	0	0	3,485	0	15,225	111,304	78,929	**309,402**
2022	44,707	15,360	12,116	0	0	0	0	3,485	0	6,298	103,054	59,136	**244,155**
2023	52,983	30,007	29,007	5,301	1,875	13,274	0	11,985	0	40,723	118,120	76,282	**379,554**
2024	45,145	30,499	37,955	5,301	4,250	0	0	16,235	0	43,198	109,870	82,283	**374,734**

Table 4a - Total RRBWSD Kern Fan Bank Accounts

Year	Water Source								Gross Recharge	6% Losses	Net Recharge	4% Loss (to ODC)	Transfer	Return	Account Balance	Program Losses (Table 3)	Additional Losses to Table 2
	AE/RRB (Friant-Kern)	KT/RRB (Friant-Kern)	DEID/RRB (Friant Kern	Friant-Kern 215	Kern River	SWP	SWP SCV/RRB	SWP Article 21									
1995	6,355	-	-	-	-	-	-	-	6,355	381	5,974	239	-	-	5,735	381	-
1996	13,598	-	-	-	599	145	-	-	14,342	861	13,481	539	-	-	18,677	610	251
1997	24	-	-	-	2,264	-	-	-	2,288	137	2,151	86	-	12,265	8,477	1	136
1998	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8,477	-	-
1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8,477	-	-
2000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8,477	-	-
2001	1,262	-	-	-	794	-	-	-	2,056	123	1,933	77	-	-	10,333	76	47
2002	-	-	-	-	1,946	-	-	-	1,946	117	1,829	73	-	-	12,088	-	117
2003	9,106	-	-	-	169	-	-	-	9,275	556	8,719	349	-	-	20,459	546	10
2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20,459	-	-
2005	25,551	20	-	-	192	-	-	-	25,763	1,545	24,218	969	7,292	-	51,000	1,534	10
2006	-	-	-	570	-	-	-	417	987	59	928	37	-	3,500	48,391	-	59
2007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48,391	-	-
2008	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48,391	-	-
2009	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48,391	-	-
2010	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48,391	-	-
2011	-	-	-	1,944	-	4,284	-	3,630	9,858	591	9,267	371	-	5,728	51,559	-	591
2012	-	1,991	-	-	-	121	-	-	2,112	127	1,986	79	-	-	53,465	119	7
2013	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53,465	-	-
2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53,465	-	-
2015	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53,465	-	-
2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53,465	-	-
2017	-	-	-	3,155	647	1,788	-	-	5,590	335	5,255	210	-	-	58,509	-	335
2018	-	-	-	-	-	-	-	-	-	-	-	-	2,682	840	60,351	-	-
2019	-	6,626	-	-	4,186	7,373	-	-	18,185	1,091	17,094	684	-	38,721	38,040	398	694
2020	-	-	-	-	-	-	-	-	-	-	-	-	3,189	-	41,229	-	-
2021	-	-	-	-	-	-	-	-	-	-	-	-	659	4,500	37,388	-	-
2022	-	-	-	-	-	-	-	-	-	-	-	-	-	15,000	22,388	-	-
2023	2,231	480	2,311	-	6,094	3,332	4,580	-	19,028	1,142	17,886	715	-	-	39,559	576	566
2024	-	-	-	-	-	3,049	-	-	3,049	183	2,866	115	-	-	42,311	-	183

Table 4b Total Kern Fan ODC Accounts

	Water Source																
	Friant-Kern				Kern	SWP			Gross	6%	Net	From Bank		Purchased	Account	Program Losses	Additional Losses
Year	AE/RRB	KT/RRB	DEID/RRB	215	River	Entl.	Article 21	SCV/RRB	Recharge	Losses	Recharge	(4% Loss)	Transfer	Losses	Balance	(Table 3)	to Table 2
1995	-	-	-	-	1,545	-	-	-	1,545	93	1,452	239	-	-	1,691	-	93
1996	1,174	-	-	-	-	-	-	-	1,174	70	1,104	668	-	-	3,463	-	70
1997	-	-	-	2,323	2,275	-	-	-	4,598	276	4,322	86	-	-	7,871	-	276
1998	-	-	-	667	11,986	278	-	-	12,931	776	12,155	-	-	-	20,026	-	776
1999	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20,026	-	-
2000	22,674	667	-	-	-	-	-	-	23,341	1,400	21,941	-	-	-	41,967	-	1,400
2001	-	-	-	-	-	-	-	-	-	-	-	77	-	9,130	51,174	-	-
2002	-	-	-	-	-	-	-	-	-	-	-	73	-	-	51,247	-	-
2003	-	-	-	-	-	-	-	-	-	-	-	349	-	-	51,596	-	-
2004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51,596	-	-
2005	41,183	23,982	-	-	268	3,311	-	-	68,744	4,124	64,620	1,122	7,000	-	124,338	1,955	2,169
2006	-	-	-	4,274	3,917	3,105	466	-	11,762	706	11,056	37	-	-	135,431	-	574
2007	-	-	-	-	4,491	-	-	-	4,491	269	4,222	-	-	-	139,653	-	269
2008	-	-	-	-	-	-	-	-	-	-	-	-	-	5,823	145,476	-	-
2009	-	-	-	-	-	-	-	-	-	-	-	-	-	3,317	148,793	-	-
2010	-	3,803	3,889	-	-	-	-	-	7,692	462	7,230	-	-	-	156,024	231	231
2011	-	-	-	2,292	13,459	-	-	-	15,751	945	14,806	371	-	-	171,200	-	945
2012	-	-	-	-	-	-	-	-	-	-	-	79	-	-	171,280	-	-
2013	-	-	-	-	-	-	-	-	-	-	-	-	-	458	171,738	-	-
2014	-	-	-	-	-	-	-	-	-	-	-	-	-	2,313	174,051	-	-
2015	-	-	-	-	-	-	-	-	-	-	-	-	-	169	174,220	-	-
2016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	174,220	-	-
2017	234	2,536	-	929	31,274	1,662	6,157	-	42,792	2,568	40,225	210	-	-	214,655	76	2,491
2018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	214,655	-	-
2019	-	-	-	-	-	-	-	-	-	-	-	684	-	140	215,478	-	-
2020	-	-	-	-	-	-	-	-	-	-	-	-	-	6,871	222,349	-	-
2021	-	-	-	-	-	-	-	-	-	-	-	-	-	132	222,481	-	-
2022	-	-	-	-	-	-	-	-	-	-	-	-	-	4,214	226,695	-	-
2023	-	305	8,565	-	15,069	-	-	-	23,939	1,436	22,503	715	(13,274)	62	236,702	266	1,170
2024	-	-	-	-	-	-	-	-	-	-	-	115	-	-	236,816	-	-

Appendix 5

SGMA Timeline and RRBMA Implementation Progress for Water Year 2024

Sustainable Groundwater Management Act Timeline

Sept, 16, 2014: Groundwater management legislation becomes law

Gov. Brown signs Senate Bill 1168, Assembly Bill 1739, and Senate Bill 1319, which made up the groundwater management legislation package.

Jan. 1, 2015: Legislation goes into effect

The Sustainable Groundwater Management Act becomes effective.

Jan. 31, 2015: DWR must establish initial groundwater basin priority

California Department of Water Resources (DWR) establishes the initial priority – high, medium, low or very low – for each groundwater basin in the state by the end of January 2015 (Water Code § 10722.4).

Jan. 1, 2016: DWR must set emergency regulations for basin boundary revisions

DWR adopts emergency regulations for groundwater basin boundary revisions by Jan. 1, 2016. The regulations must include the methodology and criteria used to evaluate proposed boundary revisions, including the establishment of new subbasins (Water Code § 10722.2).

June 1, 2016: DWR must establish emergency regulations for evaluating plans

DWR adopts emergency regulations for evaluating Groundwater Sustainability Plans (GSPs), their implementation and coordination agreements among local agencies for groundwater sustainability planning. The regulations must identify GSP components and information to assist plan and coordination agreement development and implementation (Water Code § 10733.2).

Dec. 31, 2016: DWR estimate of water available for groundwater replenishment due

DWR publishes its estimate of the water available for groundwater replenishment on its website (Water Code § 10729(c)).

Jan. 1, 2017: Basin deadline to submit alternative to a GSP

Medium- and high-priority basins choosing to meet sustainability objectives by ways other than groundwater sustainability planning (which includes not forming a Groundwater Sustainability Agency (GSA)) must submit their alternatives to DWR (and then again every 5 years). (Water Code § 10733.6).

Jan. 1, 2017: DWR will establish best management practices for sustainable management

DWR publishes best management practices for the sustainable management of groundwater on its website (Water Code § 10729(d)).

June 30, 2017: Deadline to form a GSA

A local agency or agencies in each high- or medium-priority groundwater basin must have officially formed one or more (GSAs) for the entire basin (Water Code §§ 10724, 10735.2(a)(1)).

June 30, 2017: State Water Board can begin to put basins on probation

The State Water Resources Control Board (State Water Board) can initiate probationary status to a medium- or high-priority basin if the basin lacks one or more GSA that covers the entire basin or no alternative has been approved (Water Code § 10735.2(a)(1)).

July 1, 2017: Those pumping in a probationary basin must report extractions

Pumping groundwater in a basin that either has been designated as a probationary basin or lies outside a GSA's management area must be reported to the State Water Board. These reporting requirements do not apply to those extracting for domestic purposes 2 acre-feet per year or less, and some others (Water Code §§ 5202, 10724).

Jan. 31, 2020: GSPs required for critically overdrafted basins

Basins designated as high- or medium-priority and subject to critical conditions of overdraft must be managed under a GSP or GSPs. The State Water Board can initiate probationary status for all or part of a basin if there is no GSP, if the GSP is inadequate, or the GSP implementation will not likely achieve sustainability (Water Code § 10720.7(a)(1), 10735.2(a)(2), 10735.2(a)(3)).

Jan. 31, 2022: GSPs required for all remaining high- and medium- priority groundwater basins

All remaining basins designated as high- or medium-priority must be managed under a GSP or GSPs. The State Water Board can initiate probationary status in 2022 for all or part of a basin if there is no GSP, if the GSP is inadequate, or the GSP implementation will not likely achieve sustainability except for basins where groundwater extractions result in significant depletion of interconnected surface waters (Water Code § 10720.7(a)(2), 10735.2(a)(4), and 10735.2(a)(5)(A)).

Jan 31, 2025: State Water Board actions where extractions impact surface waters

The State Water Board can initiate probationary status for those medium- or high-priority basin where the GSP is inadequate or implementation is not likely to achieve sustainability AND the basin is in a condition where groundwater extractions result in significant depletion of interconnected surface waters (Water Code § 10735(a)(5)(B)

Jan. 31, 2022 -2024: DWR completes evaluation of all GSPs

DWR must evaluate and issue an assessment of a GSP within two years of submission by a GSA. DWR may include recommendations for addressing any deficiencies in the GSP (Water Code § 10733.4(d)).

Jan. 31, 2040 - 2042: Basins must achieve sustainability

A GSP must include measurable objectives and milestones in increments of five years to achieve sustainability within 20 years of GSP adoption. (Water Code § 10727.2(b)(1))

10.3.8 Rosedale-Rio Bravo Water Storage District GSA

As a Kern Groundwater Authority (KGA) member, Rosedale-Rio Bravo Water Storage District (RRBWSD) prepared a Groundwater Sustainability Plan (GSP) Chapter for the KGA GSP covering the Rosedale-Rio Bravo Water Storage District). During 2023 Rosedale-Rio Bravo Water Storage District formed a RRBWSD GSA and expended much effort in preparing an updated Draft 2024 Plan with all the other GSA's. A Draft 2024 Plan was distributed to the public and SWRCB for comment in May 2024.

1) Compliance with Groundwater Levels Sustainable Management Criteria (SMC)

The RRBWSD GSA maintains a comprehensive network of 19 representative monitor wells. The wells are a combination of agricultural, domestic, and dedicated monitor wells of known well construction and offer reliable long-term data.

a) Compliance with SMC

RRBWSD GSA groundwater levels trends sloped upwards as a result of a historical wet year. Water levels in the representative monitoring wells (RMWs) increased by an average of 25 feet from Fall 2023 to Fall 2024. No exceedances occurred in 2024 within the RRBWSD GSA. RRBWSD GSA will continue to monitor and report the RMWs in accordance with SGMA guidelines.

b) SMC Monitoring Activities

Groundwater levels were monitored monthly at all 19 representative monitoring wells within the RRBWSD GSA. One representative monitoring well was replaced due to well failure and abandonment, this change occurred in 2016 but wasn't documented until recently. An adjacent new well was used as its replacement and monthly data has been collected on the new well for 8 years.

c) Assessment Of Potential Impacts to Beneficial Users

The RRBWSD GSA received one report of a dry well in late 2023. Staff investigated the report and deduced that the issue was due to well failure and not water levels.

2) Compliance with Additional Sustainable Management Criteria

The RRBWSD GSA also set SMCs for water quality, subsidence, and reduction in groundwater storage.

RRBWSD has no changes in the monitoring network for the Groundwater Storage Calculation. A Sustainable Yield for the Rosedale-Rio Bravo District Lands within the RRBWSD GSA is calculated as the sum of Native Yield, Precipitation, and Project Water. A 20-year average is used as a representative long-term average for Management Action implementation purposes. For the 2023-2024 period, Project Water supplies were approximately 69,148 AFY. District Assessed Acres total 39,468 acres, resulting in Project Water of 1.75 AF/acre/yr. The Shafter #5 CIMIS Station's annual average precipitation is 5.04 inches (0.42 ft) or 16,577 AFY. The KGA has allocated a value of 0.15 AF per acre to all developed lands, or 5,920 AFY. The total 20-year average Sustainable Yield for RRBWSD calculates to be about 91,645 or 2.32 AF/acre/yr. RRBWSD prepares an annual operations report including an updated checkbook groundwater balance. For the period of 1995-2023, RRBWSD has a cumulative storage balance of 301,157 AF. In 2023 the overall balance increased by about 255,563 AF due to wet hydrology.

a) WATER QUALITY

Groundwater quality was monitored annually at 11 representative wells within the RRBWSD GSA. To ensure comprehensive representation of all beneficial users in the area, the monitoring network includes domestic, agricultural, and municipal wells. The wells monitored in WY 2024 were:

1. RBG School
2. Frito-Lay #1
3. Mayer Shallow
4. Enos Shallow
5. Greeley Shallow
6. Schweikart
7. Clarisse #2
8. Brock North
9. Brock South
10. RRBWSD Shop Shallow
11. 32N

For WY 2024, the constituents of concern included Total Dissolved Solids (TDS), Chloride, Nitrate (as NO3), and Arsenic. Minimum thresholds were defined as levels exceeding the current Maximum Contaminant Level (MCL) or a 10% increase over the 2015-2020 values for wells with historically high constituent concentrations (e.g., the RBG School and Brock South wells' Nitrate thresholds were set at 10% above their 2015-2020 averages).

The current network of monitoring wells provides reliable long-term water quality data. This data is sourced from:

1. Publicly available data from the Groundwater Ambient Monitoring and Assessment (GAMA) Program,
2. The Kern Fan Monitoring Committee's winter and summer sampling events, and
3. RRBWSD GSA's in-house monitoring efforts.

In 2024, no water quality exceedances were observed within the RRBWSD GSA. However, two monitoring wells (Schweikart and 32N) were unable to be sampled during WY 2024.
To improve data accessibility and streamline annual reporting, the Kern Groundwater Authority (KGA) has developed a web-based Data Management System (DMS). While water quality monitoring features are still under development within the DMS, future updates will enhance reporting capabilities.

Looking ahead, as part of the revised Subbasin Groundwater Sustainability Plan (GSP), the RRBWSD GSA will transition to a network of four representative monitoring wells: Enos Shallow, Greeley Shallow, RRBWSD Shop Shallow, and Frito-Lay #1. This revised network will expand the list of constituents of concern to include 1,2,3-TCP, Arsenic, Nitrate (as NO3 and NO2), TDS, and Uranium. Additional data will be incorporated as it becomes available.

b) Subsidence

Subsidence data was collected using publicly available InSAR data provided by the Department of Water Resources (DWR) for Groundwater Sustainability Plan (GSP) development and implementation. The data was analyzed at five designated monitoring locations situated near critical RRBWSD GSA infrastructure.

In 2024, no subsidence exceedances were observed within the RRBWSD GSA. The annual subsidence rates at the five locations between 2019 and 2024 ranged from -0.006 feet to 0.009 feet, with a total subsidence of -0.037 to 0.056 feet over the six-year period. These measurements are significantly below the Minimum Threshold of -0.6 feet for the same timeframe.

As of January 2025, InSAR subsidence data is available through October 2024. Additional data will be incorporated as it becomes available.

c) Interconnected Surface Water

N/A

3) Implementation of Projects and Management Actions (P/MAs)

The RRBWSD GSA made progress towards implementing several of its planned GSP Projects in Water Year 2024 as summarized by the following:

Enns Basins Improvement Project (McCaslin Ponds): This project was added in 2019 as an adaptive management action and includes a 195-acre project west of Bakersfield to recharge, store, and recover water. RRBWSD completed relevant environmental analysis and applied for grant funding. Subsequent addenda to a previous conjunctive-use EIR were adopted. WaterSmart grants were awarded in 2020 and 2021 towards development and construction. Almond trees were removed from the property in 2021, construction of recharge ponds and intake was completed in 2022, and approximately 17,700 AF was spread in 2023 that otherwise would not have been stored. The construction of two Conjunctive-Use banking wells and recovery pipelines were under construction in 2024.

During 2024, two nearby properties of approximately 155 acres that are currently used for agricultural purposes came up for sale. RRBWSD acquired both properties and removed the crops and is developing the necessary environmental documents to convert them into groundwater recharge areas.

Onyx Ranch Project: This project is connected to RRBWSD-owned lands and water rights in the Kern River Valley. The project involves a change in the point of diversion that would bring water supplies to the Kern Subbasin. A Draft EIR was circulated, and the FEIR was certified in January 2021. During 2023 approximately 6,114 AF was delivered for groundwater storage in the Kern Subbasin. Unfortunately, in 2024 due to legal action the project was paused and irrigation resumed in the Kern River Valley.

James Groundwater Storage and Recovery Project: This project is a proposed 2,070-acre project in southwest Bakersfield designed to recharge, store, and recover water to provide cost effective and reliable water supply for landowners within RRBWSD. A conceptual design and feasibility analysis was completed in 2019 and awarded grant funding is tentative. The environmental analysis was re-initiated with the distribution of a DEIR in 2022, and certification of the FEIR expected in 2024. The design of an

intake from the Kern River to the James Project across the Pioneer Project stands at 90% status. In 2024 RRBWSD sold its stake in the project to BVWSD.

Kern Fan Groundwater Storage Project: This project would develop a regional water bank in the Kern Fan area to store State Water Project (SWP) Article 21 water when surface water is abundant. The Kern Fan Project's feasibility analysis was completed in March 2020 and a FEIR was certified in December 2020. RRBWSD has commenced permitting and design efforts, now having acquired 350 acres of property for new recharge and recovery. Recharge ponds and control structures were constructed on 200 of the 350 acres. The remaining recharge ponds are scheduled to be constructed in 2025.

Western Rosedale Lands In-Lieu Service Area Project: This project includes the construction and operation of up to ten miles of water conveyance pipelines, including appurtenant facilities, to provide surface water to agricultural users within a portion of RRBWSD's service area located west of Interstate 5. Project status is shovel ready; feasibility and environmental analysis are complete. No implementation date is known at this time.

Ten Section Project: This project is located in the South of the River Monitoring Area within the RRBWSD GSA. A feasibility study of 200+ acre groundwater recharge, storage, and recovery project is currently underway. No implementation date is known at this time.

The RRBWSD GSA made progress toward implementing several of its planned GSP Management Actions in Water Year 2024 as summarized by the following:

Water Charge Demand Reduction: This action imposes a water charge on District landowners for the use of water over Native Yield, precipitation, and Project Water supplies. A web-based 5 WY 2023 Annual Report KERN COUNTY SUBBASIN water budget platform was completed in 2020 and real-time evapotranspiration (ET) data incorporation commenced in 2021 allowing users the ability to track their water usage for background information. RRBWSD Board approved water charge implementation in late 2023 starting in the 2024 calendar year and assessed $95/AF to incentivize water conservation and project financing. The Board set a rate at $145/AF for 2025.

RRBWL (White Land) Water Supplies and Demand Imbalance Reduction: This action has been implemented for demand reduction on a linear basis over the planning period of 2020-2040. It is expected that Rosedale-Rio Bravo White Lands would seek to acquire water supplies for in lieu and direct groundwater recharge via banking agreements with RRBWSD, or others to offset demands. A web-based water budget platform was completed in 2020 to allow users to begin tracking water usage for initial 2020-2024 reduction requirements. Landowners are being regularly updated as to their demands and remaining balances requiring balance by the end of 2024. Eleven out of the thirteen landowners are within their allocated supply.

RRBWSD 3rd Party Recharge and Storage Program: This action will be developed by RRBWSD for 3rd-party recharge for use in the RRBWSD GSA or other downgradient areas in the Kern Subbasin. RRBWSD would offer existing conveyance and recharge facilities in exchange for a portion of the imported water supply and payments of yet-to-be-developed costs and/or fees. RRBWSD executed one such program in 2022 for up to 50,000 AF of groundwater recharge of which RRBWSD would retain 1 AF for every 2 AF stored.

4) Coordination with Stakeholders

RRBWSD/RRBWSD GSA held monthly Board meetings during all of 2024 which included briefing the Board on SGMA-related activities. Three special stakeholder meetings were also held in person at the District's office with a virtual option. RRBWSD GSA provided updates on groundwater monitoring results, plan revisions associated with DWR comments, and implementation of P/MAs.

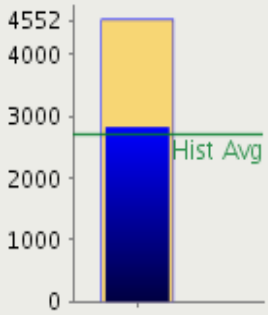
5) Summary of Other GSP-related Special Studies or Activities

RRBWSD GSA engaged in significant GSP-related studies in 2024, focused on the development of a Draft 2024 Plan that was submitted to the SWRCB in May 2024.

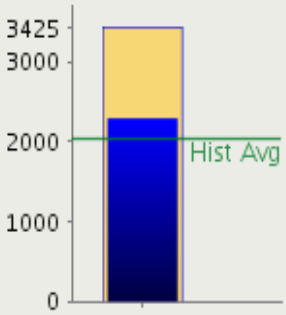
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Data as of Midnight: 03-Sep-2025

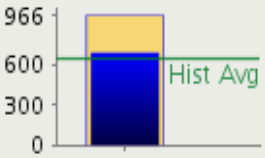
Change Date: 03-Sep-2025



Shasta
62% | 104%
(Total Cap.) (Hist. Avg.)



Oroville
67% | 112%
(Total Cap.) (Hist. Avg.)



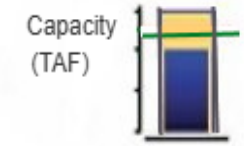
New Bullards Bar
71% | 106%
(Total Cap.) (Hist. Avg.)



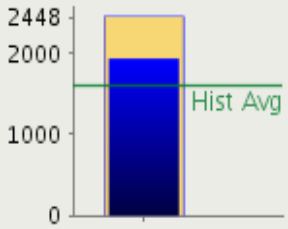
Folsom
49% | 88%
(Total Cap.) (Hist. Avg.)

LEGEND

Blue Bar: Storage level for date
Gold Bar: Total reservoir capacity
Green Line: Historic level for date.



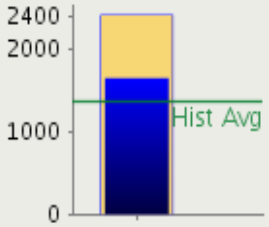
% of Capacity | **% Hist. Avg.**
(Click res. 3 char. code for details)



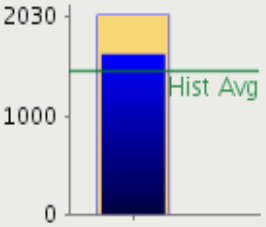
Trinity
79% | 121%
(Total Cap.) (Hist. Avg.)



Camanche
75% | 118%
(Total Cap.) (Hist. Avg.)



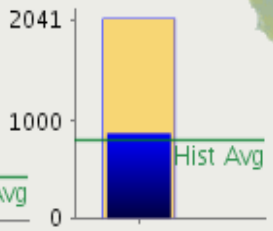
New Melones
69% | 120%
(Total Cap.) (Hist. Avg.)



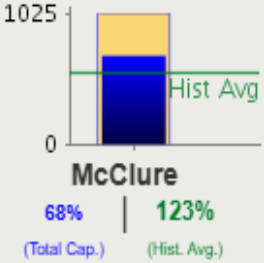
Don Pedro
81% | 112%
(Total Cap.) (Hist. Avg.)



Sonoma
62% | 112%
(Total Cap.) (Hist. Avg.)



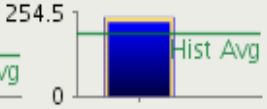
San Luis
43% | 110%
(Total Cap.) (Hist. Avg.)



McClure
68% | 123%
(Total Cap.) (Hist. Avg.)



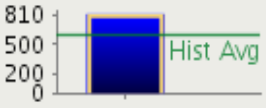
Cachuma
79% | 116%
(Total Cap.) (Hist. Avg.)



Casitas
94% | 120%
(Total Cap.) (Hist. Avg.)



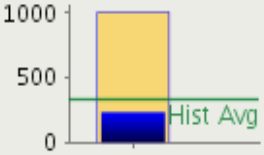
Castaic
88% | 105%
(Total Cap.) (Hist. Avg.)



Diamond Valley
95% | 127%
(Total Cap.) (Hist. Avg.)



Millerton
46% | 90%
(Total Cap.) (Hist. Avg.)



Pine Flat
23% | 69%
(Total Cap.) (Hist. Avg.)

Click to download printable version of current data.

Report Generated: 04-Sep-2025 2:08 PM

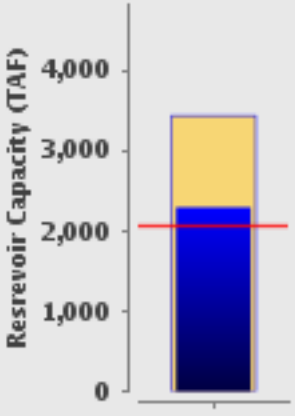
The CSI link has been disabled to zoom in, for the lack of historical data.

CURRENT RESERVOIR CONDITONS



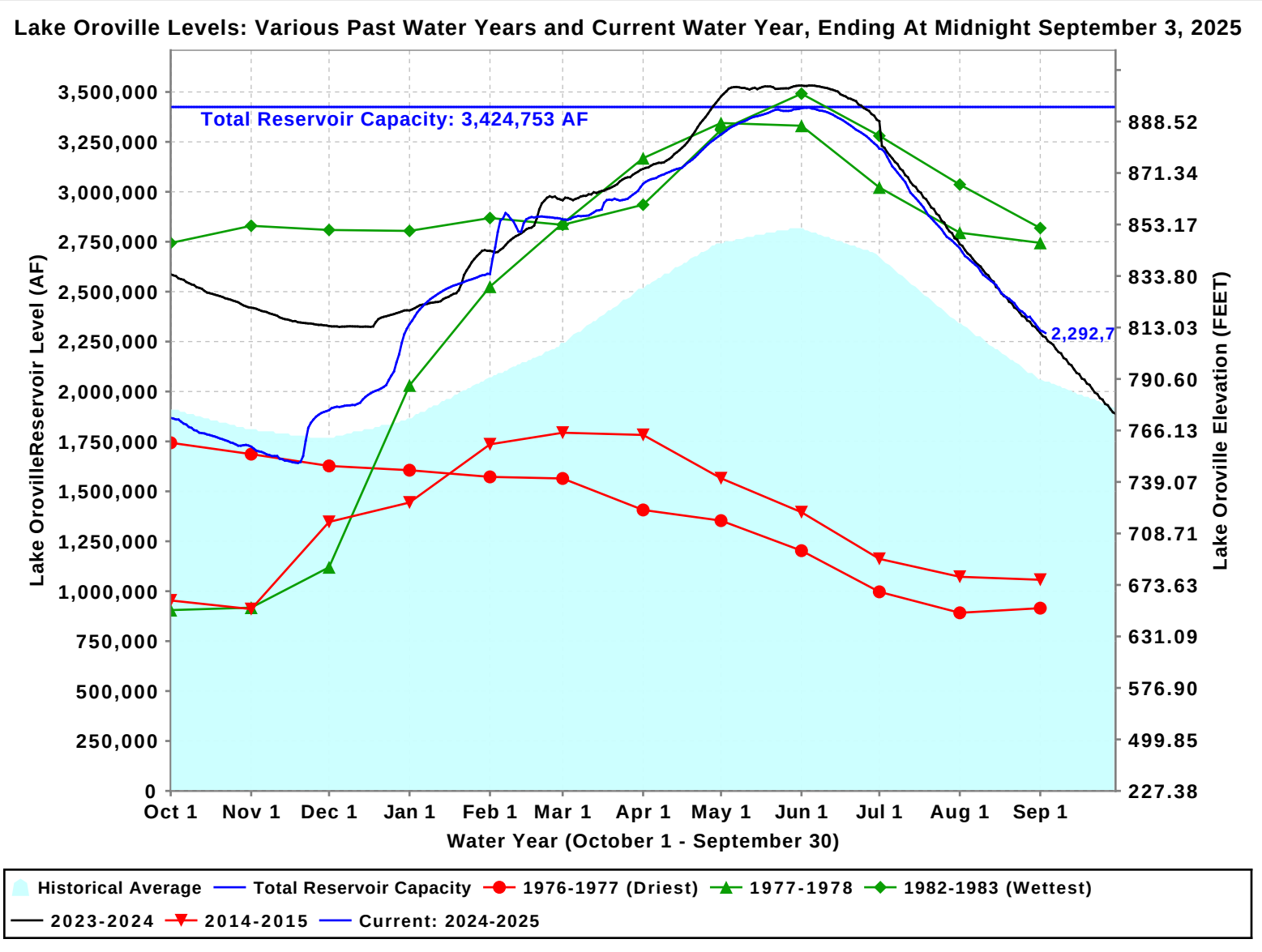
Lake Oroville Conditions

(as of Midnight - September 3, 2025)



Current Level: 2,292,744.8 AF

67% (Total Capacity) | 112% (Historical Avg.)



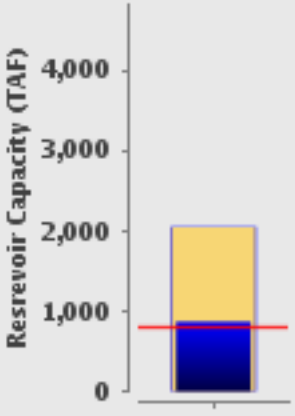
Data Updated 09/04/2025 01:48 PM

CURRENT RESERVOIR CONDITONS



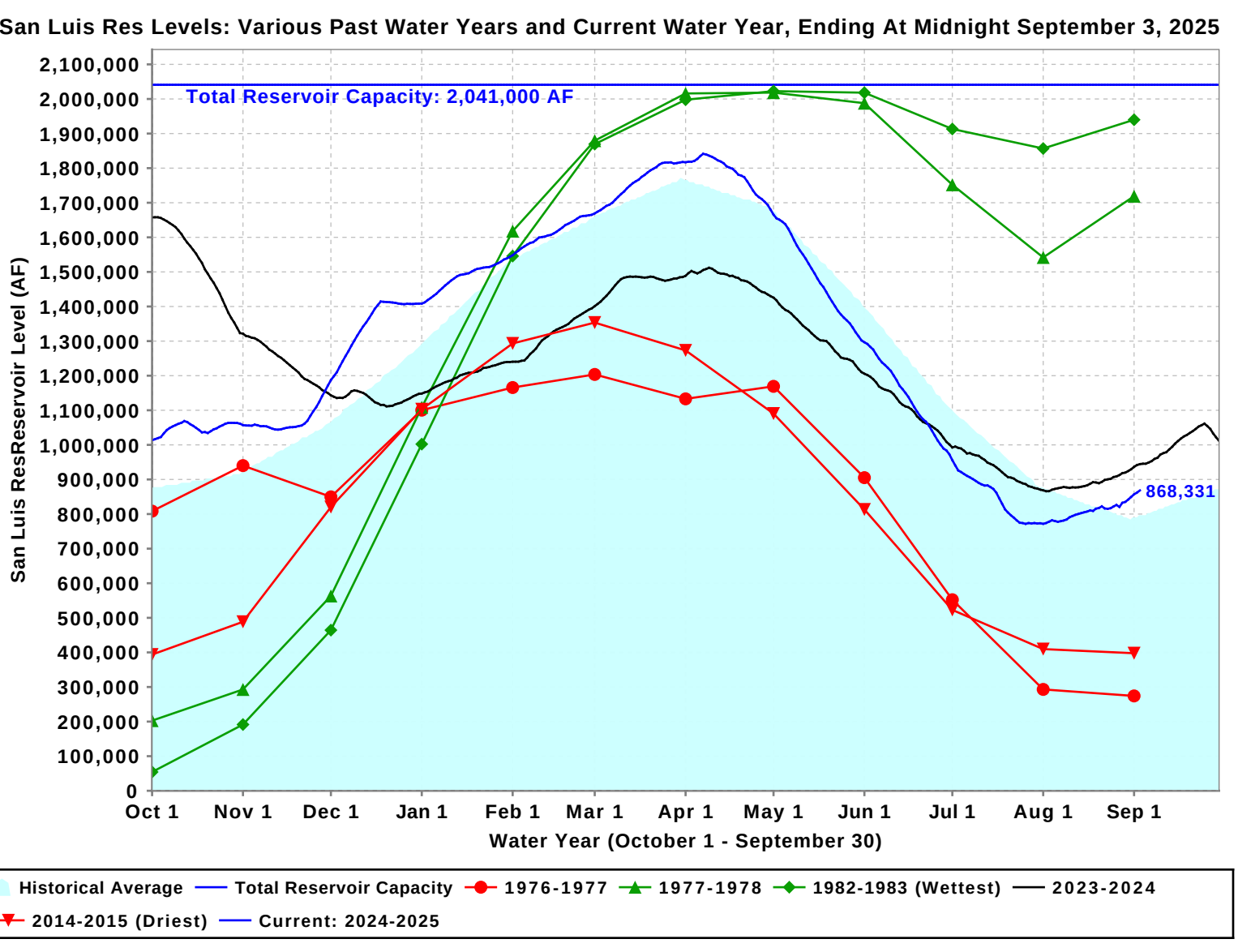
San Luis Res Conditions

(as of Midnight - September 3, 2025)



Current Level: 868,331 AF

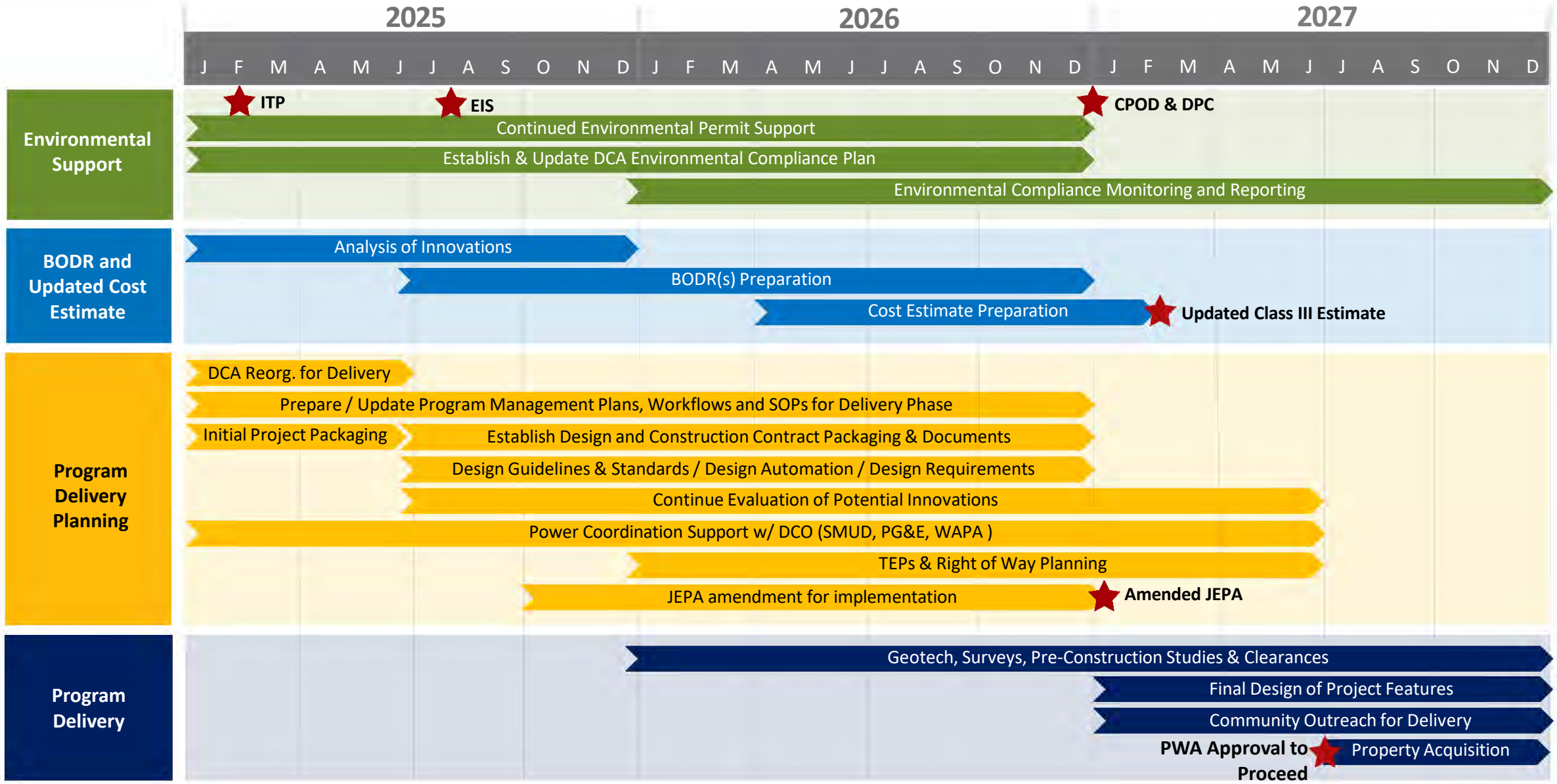
43% (Total Capacity) | 110% (Historical Avg.)



Data Updated 09/04/2025 01:48 PM

May 2025 DCP Roadmap – Program Delivery

Attachment 1



KERN COUNTY WATER AGENCY

Stuart T. Pyle Water Resources Center
3200 Rio Mirada Drive
Bakersfield, California

Notice of
Special Board Meeting

August 28, 2025

Conference Line: +1 (571) 317-3122
Access Code: 863-465-805#
https://global.gotomeeting.com/join/863465805

AGENDA

I. Call to Order – 11:30 a.m.

II. Report of the General Counsel
  A. Authorization for Closed Session regarding:
    1. Conference with Legal Counsel – Public Employment:
    (Government Code section 54957):
    Title: General Manager

III. Closed Session Report

IV. Directors' Forum

V. Public Comment
Anyone may comment on any subject within Agency jurisdiction whether or not it is on the agenda. Time for such comment may be limited.

VI. Report regarding Agency Management

VII. Adjournment

DECLARATION OF POSTING: I declare under penalty of perjury that I am employed by the Kern County Water Agency and that I posted the foregoing Agenda at the Agency Office on August 22, 2025.

Stephanie N. Prince, Board Secretary

Requests for a disability-related modification or accommodation, including auxiliary aids or services, in order to attend or participate in a meeting should be made to the Board Secretary in advance of the meeting to ensure availability of the requested service or accommodation.

KERN COUNTY WATER AGENCY

Stuart T. Pyle Water Resources Center
3200 Rio Mirada Drive
Bakersfield, California 93308

Notice of
BOARD OF DIRECTORS MEETING

August 28, 2025

Conference Line: +1 (571) 317-3122
Access Code: 863-465-805#
https://global.gotomeeting.com/join/863465805

AGENDA

I. Call to order – 12:00 p.m.

II. Report of the General Counsel
A. Authorization for Closed Session regarding:

1. Conference with Legal Counsel – Existing Litigation
(Government Code section 54956.9, subdivision (a)):

a. Applications Filed for Kern River Water

b. California Department of Water Resources v. All Persons Interested in the Matter of the Contract Extension Amendments

c. North Coast Rivers Alliance, et al. v. California Department of Water Resources (COA CEQA)

d. California Department of Water Resources v. All Persons Interested in the Matter of the Authorization of Delta Program Revenue Bonds

e. Rosedale-Rio Bravo Water Storage District, *et al.* v. Kern County Water Agency, *et al.* (CVC Issues)

f. Kern Delta Water District, *et al.* v. Rosedale-Rio Bravo Water Storage District (Onyx CEQA)

g. Rosedale-Rio Bravo Water Storage District v. Buena Vista Water Storage District, *et al.* (Onyx Water Rights)

h. California Sportfishing Protection Alliance, *et al*. v. California State Water Resources Control Board, *et al*., Sacramento County Superior Court, Case No. 34-2021-80003761 (2021 Order Re Temporary Urgency Change Petition)

i. California Sportfishing Protection Alliance, *et al*. v. State Water Resources Control Board, *et al*., Sacramento County Superior Court, Case No. 34-2021-80003763 (2021 Order Re Shasta Temporary Management Plan)

j. California Water Impact Network v. Department of Water Resources, Sacramento County Superior Court Case No. 34-2020-80003492; North Coast Rivers Alliance v. Department of Water Resources, Sacramento County Superior Court Case No. 34-2020-80003491 (Water Management Tools)

k. Pacific Coast Federation of Fishermen's Associations, *et al*. v. Ross,., E.D. Cal., Case No. 1:20-cv-00431 & California Natural Resources Agency, *et al*. v. Ross, *et al*., E.D. Cal., Case No. 1:20-cv-00426 (Long-term Operations)

l. State Water Board Cases, Sacramento County Superior Court Case No. JCCP 5013 (Water Quality Control Plan Phase 1 Litigation)

m. Oroville Dam Cases, Sacramento County Superior Court Case No. JCCP 4974

n. Temporary Applications Filed for Kern River Water

o. Bring Back the Kern, *et al.* v. City of Bakersfield, *et al.*, Kern County Superior Court Case No. BCV-22-103220

p. Delta Conveyance Project Litigation, Court Case No. 24WM000017

q. California Sportsfishing Alliance, et al. v. California Department of Water Resources and California Department of Fish and Wildlife, et al., Sacramento County Superior Court Case No. 24WM000181; Tehama-Colusa Canal Authority, et al. v. California Department of Water Resources and California Department of Fish and Wildlife, et al., Sacramento County Superior Court Case No. 24WM000183; San Francisco Baykeeper, et al. v. California Department of Water Resources, Sacramento County Superior Court Case No. 24WM000185; and Central Delta Water Agency and South Delta Water Agency v. California Department of Water Resources, Sacramento County Superior Court Case No. 24WM000186 (2024 Incidental Take Permit Litigation)

r. Mass X, Inc. v. Kern County Water Agency, et al., Kern County Superior Court Case No. BCV-24-104394

s. Department of Water Resources v. All Persons Interested in the Matter of Delta Conveyance Project Program Revenue Bonds etc. (2025 DWR Validation Action), Sacramento County Superior Court Case No. 25 CV000704

t. America West Lender Services, LLC v. Barrickman, et al., Kern County Superior Court Case No. BCV-25-102514

2. Conference with Legal Counsel – Anticipated Litigation: Significant exposure to litigation: (Government Code section 54956.9, subdivision (d)(2)):

a. Two potential suits

3. Conference with Real Property Negotiator (Government Code section 54956.8):

a. Negotiator: Water Resources Manager
Property: State Water Project Water
Parties: California Department of Water Resources and State Water Project Contractors
Under Negotiation: Price & Terms

III. Closed Session Report

IV. Directors' Forum

V. Public Comment
Anyone may comment on any subject within Agency jurisdiction whether or not it is on the agenda. Time for such comment may be limited.

VI. Report regarding Agency Management

VII. Advisory Committee Reports

A. Cross Valley Canal Advisory Committee

B. Improvement District No. 3 Advisory Committee

C. Urban Bakersfield Advisory Committee

VIII. Public Hearing – Consider Adoption of the 2025 Groundwater Sustainability Plan (GSP) for Kern County Subbasin

A. Adoption of 2025 GSP Presentation

B. Authorization to Execute the Third Amended Kern County Subbasin Coordination Agreement, on behalf of the Pioneer Groundwater Sustainability Agency

C. Authorization to Execute the Fourth Amended and Restated Joint Powers Agreement for Kern Non-Districted Land Authority (formerly Kern Groundwater Authority), on behalf of Pioneer Groundwater Sustainability Agency and Improvement District No. 4 as General Members and the Kern County Water Agency as a Jurisdictional Member

D. Authorization to Execute Amendment No. 3 to the Kern County Water Agency Agreement for a Groundwater Sustainability Plan Consultant for the Kern Subbasin Cost Sharing Agreement for Revising Groundwater Sustainability Plans

IX. Consent Agenda Items

The following items are routine and will be approved collectively without discussion, unless a Board member or staff member (who has raised that issue with the Board President prior to the start of the meeting) requests that an item be removed for separate consideration:

1. Minutes of Board Meetings and Committee Meetings –
   Regular Board Meeting July 24, 2025
   Special Board Meeting July 28, 2025

2. Authorization to Join as an Investor of and to Invest Money in the California Asset Management Trust

3. Adoption of the Environmental Impact Report for the Cross Valley Contractors Conversion of Water Supply Contracts and Renewal of Conveyance Contracts

X. Board Committee Reports

The following items will be discussed in detail at the meeting and may result in appropriate action being taken relating to the subject matter (such action may or may not conform to any staff recommended action):

A. **ADMINISTRATIVE COMMITTEE** – Director Cattani, Chair

1. Report of the Administrative Operations Manager

2. Payment of the Bills

3. Financial Report

4. Authorization to Execute an Agreement with Global CTI Group, Inc. to Purchase a Telephone System for the Kern County Water Agency

5. Possible Approval of Compensation Adjustment for Interim General Managers

6. Consideration and Possible Approval of 5th Level Grievance Procedures

7. Introduction of Ordinance 25-02 Regarding Director Fees

B. **POLICY COMMITTEE** – Director Milobar, Chair

1. Update on Delta Conveyance Activities

2. Update on Legislative Activities

C. **WATER RESOURCES COMMITTEE** – Director Fast, Chair

1. Report of the Water Resources Manager

2. Report on 2025 State Water Project and Central Valley Project Allocations and Operations

3. Water Delivery Operations

    a. Report on Kern County Water Agency California Aqueduct Deliveries

    b. Update on Water Transfers, Exchanges and Purchases

    c. Authorization to Approve a Transfer of Buena Vista Water Storage District's 2025 State Water Project Table 1 Water to Semitropic Water Storage District

    d. Authorization to Execute an Agreement for a Transfer of Napa County Flood Control and Water Conservation District's State Water Project Article 56 Carryover Water to Kern County Water Agency, SWP #25028

    e. Authorization to Execute Amendment No. 2 to Point of Delivery Agreement Among Department of Water Resources, State of California, Metropolitan Water District of Southern California, and Kern County Water Agency, SWPAO #95010-B

    f. Authorization to Execute an Agreement for a Transfer of the Metropolitan Water District of Southern California's Banked State Water Project Table A Water to Kern County Water Agency on behalf of Semitropic Water Storage District, SWP #25020

4. Distribution of the Draft Fiscal Year 2026-27 Zones of Benefit Report

5. Consideration of Kern Delta Water District Annexation No. 3

6. Report on the Kern Non-Districted Lands Authority Meetings

D. **WATER MANAGEMENT COMMITTEE** – Director Kroeker, Chair

1. Report of the Engineering and Groundwater Services Manager

    a. Update on Groundwater Banking Construction/Maintenance Projects

2. Report on 2025 Water Operations

3. Report on Kern Water Bank Activities

4. Authorization to Issue the Notice of Completion for the KCWA Well 38 & 39 Well Equipping Project – Contract No. KCWA 2021-09B

E. **CROSS VALLEY CANAL COMMITTEE** – Director Lundquist, Chair

1. Report of the Water Resources Manager

   a. Update on Cross Valley Canal Construction/Maintenance Projects

   b. Update on Cross Valley Canal Losses

2. Report on Cross Valley Canal Operations and Deliveries

3. Authorization to Request Proposals for Engineering and Design Services for the Input/Output Card Modernization Project at the Cross Valley Canal Pumping Plants

F. **URBAN BAKERSFIELD COMMITTEE** – Director Wulff, Chair

1. Report of the Improvement District No. 4 Manager

   a. Report on the Kern River Groundwater Sustainability Agency Meeting

2. Report on the Improvement District No. 4 2025 Water Supply and Management Plan

3. Report on the Henry C. Garnett Water Purification Plant

   a. Authorization to Execute a Contract for the Improvement District No. 4 Removal of Precipitated Solids from Drying Bed Nos. 1 and 4

4. Improvement District No. 4 North and East Pipeline Continuity Restoration Project

   a. Authorization to Execute Amendment No. 6 to the Kern County Water Agency Agreement for Improvement District No. 4's North and East Pipeline Integrity Project

   b. Authorization to Issue the Notice to Invite Bids for the Improvement District No. 4 North & East Pipeline Continuity Restoration Project – Contract No. KCWA 2025-07

XI. Correspondence

XII. Brief Report on Potential New Business

XIII. Closed Session: Public Employee Grievance (Government Code section 54957(b)(1))

XIV. Closed Session Report

XV. Adjournment

DECLARATION OF POSTING: I declare under penalty of perjury, that I am employed by the Kern County Water Agency and that I posted the foregoing Agenda at the Agency Office on August 22, 2025.

Stephanie N. Prince, Board Secretary

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ROSEDALE-RIO BRAVO
WATER STORAGE DISTRICT

SEPTEMBER 2025

STRATEGIC PLAN MONTHLY UPDATE

PURPOSE

TO BE RESPONSIBLE STEWARDS OF WATER, A VALUED RESOURCE

MISSION

BUILDING A SUSTAINABLE WATER SUPPLY TO HELP OUR COMMUNITY THRIVE

VALUES

SUSTAINABILITY
INNOVATION
GRACIOUS
HARD-WORKING
TRUSTWORTHY

STRATEGIC PRIORITIES

SUSTAINABILITY/RESILIENCY, LONG-TERM HEALTHY PARTNERSHIPS, FINANCIAL STRENGTH, TEAMWORK, INNOVATION/CREATIVITY

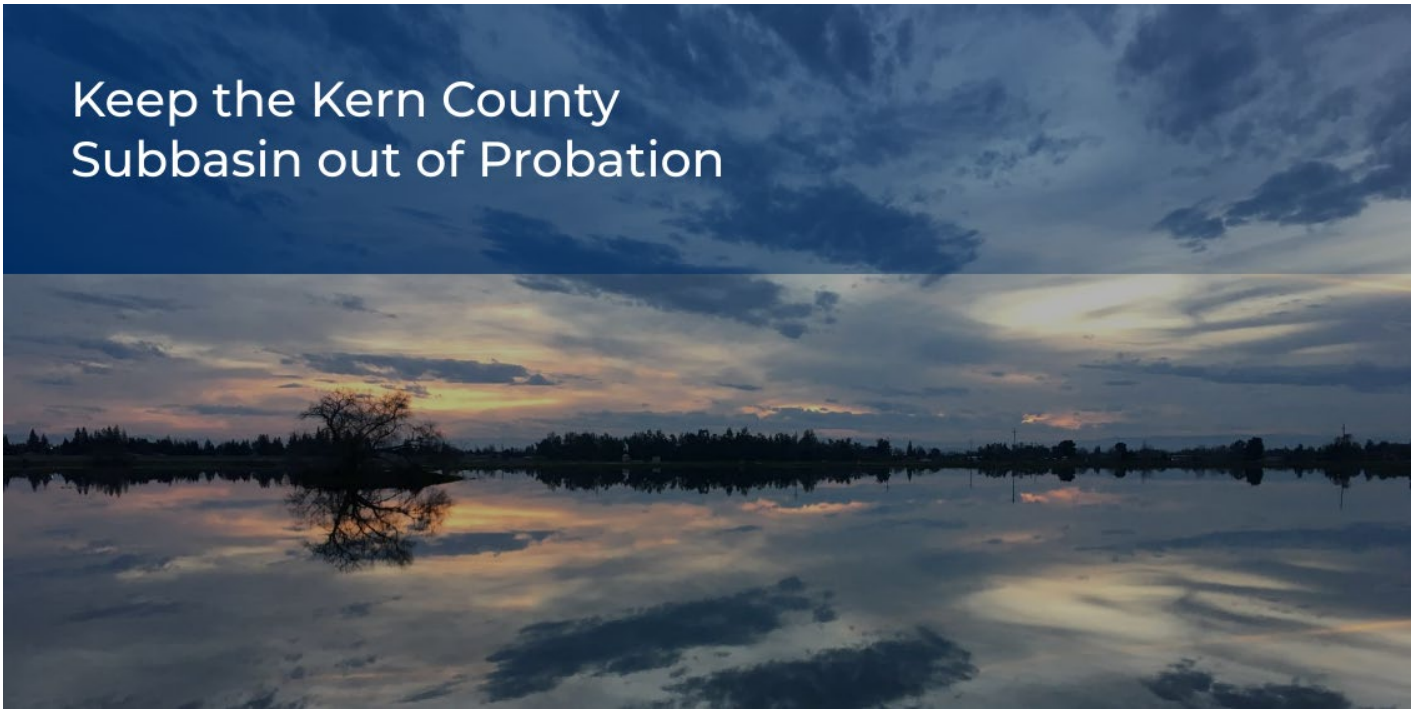
1. GOAL #1: DEVELOP AND IMPROVE LONG-TERM PARTNERSHIPS
2. GOAL #2: ACQUIRE OTHER WATER SUPPLIES
3. GOAL #3: DEVELOP A WATER CHARGE TO SUPPORT SGMA IMPLEMENTATION
4. GOAL #4: LIVE OUT AN INTENTIONAL AND FOCUSED PROJECT PLAN FOR MAJOR INITIATIVES
5. GOAL #5: ENSURE THAT KEY RESPONSIBILITIES WITHIN THE AGENCY ARE SUSTAINABLE AND EFFICIENT

GOAL #4 OBJECTIVES	PRIORITY	STATUS	OWNER	2025 UPDATE
4a Continue implementation of the Onyx Ranch Project	HIGH	COMPLETE	Dan B.	• CEQA – Successful. • Dec Relief – Unsuccessful. • Executed Coordination Agreement.
4b Develop long-term water supply acquisition strategy	MEDIUM	IN PROGRESS	Trent	• Engaged in four potential long-term supply acquisitions for long-term supply benefit
4c Continue and improve proper District Administration and Finance strategies	MEDIUM	COMPLETE	Megan	• Working with ClearGov to streamline the budgeting process. • Parcel Quest Implementation
4d Continue to influence other GSAs and Management Areas toward Kern Sub-basin sustainability	HIGH	IN PROGRESS	Dan B.	• Continue to provide TWG and CC leadership at a high level. • SWRCB issued extension • Hearing September 17th
4e Evaluate and develop projects and Management Actions that align with the District's long-term SGMA and financial goals	HIGH	IN PROGRESS	Dan B. (Projects) Trent (MAs)	• Implemented water charge. • Preparing CEQA documents for Dillard/McCaslin North. • Kern Fan Project Phase 1 Recharge completed.

View this email in your browser

ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT

RRBWSD GSA



The Kern County Subbasin's Revised Groundwater Sustainability Plan (GSP) is being considered by the State Water Resources Control Board.

The groundwater sustainability agencies (GSAs) have been hard at work to find solutions to the complex situation that SGMA has created.

Write the Water Board today and ask them to vote “NO” on placing the Kern Subbasin in probation.

The next hearing is scheduled for September 17, and public comments can be sent to the Office of Sustainable Groundwater Management no later than 12:00 PM on Thursday, September 11, 2025, by submitting a pre-drafted letter using the button provided below.

Click here to Protect the Subbasin!

BUILDING A SUSTAINABLE WATER SUPPLY TO HELP OUR COMMUNITY THRIVE

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Our mailing address is:
Rosedale-Rio Bravo Water Storage District
849 Allen Road
Bakersfield, CA 93314

Want to change how you receive these emails?
You can update your preferences or unsubscribe

ROSEDALE-RIO BRAVO
WATER STORAGE DISTRICT

849 Allen Road
Bakersfield, CA 93314
(661) 589-6045
www.rrbwsd.com

September 9, 2025

To: Rosedale-Rio Bravo Water Storage District Board of Directors

Agenda Item: 7a

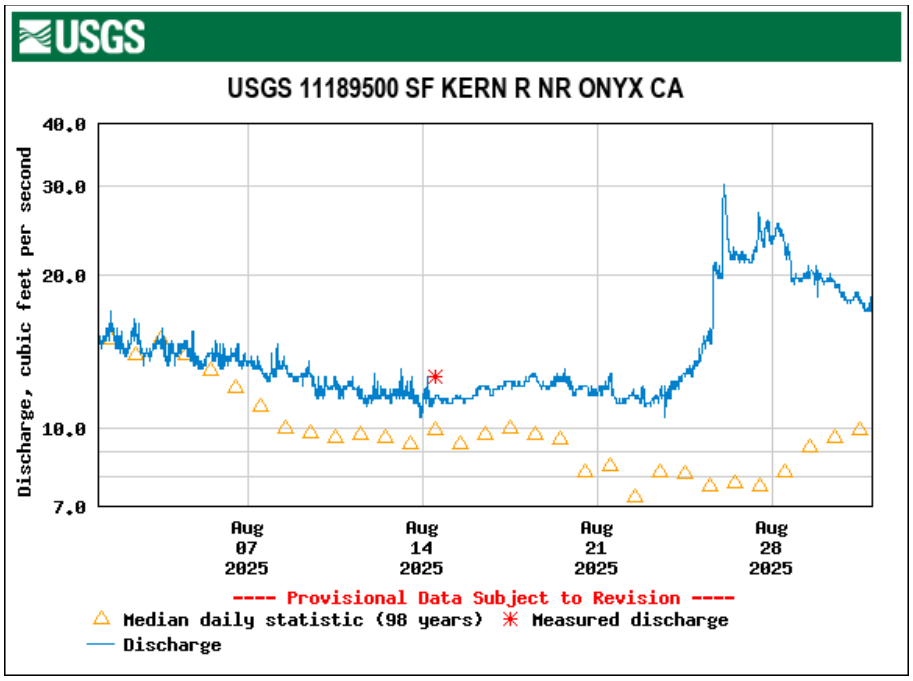
From: Dan Bartel

Re: Onyx Project Report

This month we:

- Continued operation of conveyance facilities.
- Worked on fence projects.
- Recorded that the USGS verified South Fork station on August 14.
- Stream gaged Doyle Ranch for accretion calculations three times during the month.
- Coordinated Project operations with KRI's.
- Redirected flows August 1-31. Net project water was 242 AF
- Stream gaged at Doyle 5 times and Patterson 6 times to verify net project water.
- Invoiced Audubon for January-June wheeling.
- Confirmed contractor completed barn repairs.
- Investigated options for stockwater well iron treatment services.
- Discussed conservation easement options with Audubon.

South Fork flows downstream of Bloomfield averaged 14 cfs plus calculated accretions of 1 cfs, for a total average flow of about 15 cfs.


USGS
USGS 11189500 SF KERN R NR ONYX CA
Discharge, cubic feet per second
40.0
30.0
20.0
10.0
7.0
Aug 07 2025
Aug 14 2025
Aug 21 2025
Aug 28 2025
---- Provisional Data Subject to Revision ----
Median daily statistic (98 years)
Measured discharge
Discharge





August-2025

Daily values in SFD = Second Foot Days, Monthly total in AF = Acre-Feet

Date		South Fork			D.Prince (4,5,17,20-22,37)			Hafenfeld (5)			RRBWSD (1,3,6,7,12, Wirth1, 30,33, Boone,1/3 Smith)				J.Nicoll (3)	Audubon (4,5,9,Wirth1,17,18) (20-22,Wirth2,27,29,37)			Smith (2/3 Smith)	RRBWSD (1/3 Smith)		Total Diverted	South Fork		RRBWSD to Isabella	
	Mean Flow	USGS - Onyx @ 0500	Accretions	Doyle Ranch Road	Mill/Hillside	Miller	Prince	Miller	Landers	Cottonwood	Scodie/Mack	Landers	Nicoll	Redirected "Gross Project Water"	Nicoll	Cottonwood	Nicoll	Total Smith	Smith	Smith	Redirected "Gross Project Water"		Sierra Way "Flow"	Patterson "Flow"	"Net Project Water"	No injury %
1	15	15	*3*	*12*								*1.1*		**4.5**	*2.3*			*4.2*	*0.9*	0.0	**3.3**	4	Yes	8.06	**5**	67.6%
2	15	14	1									*1.1*		**3.0**	*2.9*			*4.0*	*0.6*	0.0	**3.3**	5	Yes	Yes	**4**	67.6%
3	14	15	1									*1.2*		**3.4**	*2.6*			*4.0*	*0.6*	0.0	**3.3**	4	Yes	Yes	**5**	67.6%
4	14	14	1									*1.2*		**2.9**	*2.0*			*3.8*	*0.5*	0.0	**3.3**	4	Yes	Yes	**4**	67.6%
5	14	14	*1*									*1.3*		**2.8**	*1.4*			*3.8*	*0.5*	0.0	**3.3**	3	Yes	Yes	**0**	67.6%
6	14	14	1									*1.3*		**2.8**	*1.2*			*3.9*	*0.6*	0.0	**3.3**	3	Yes	Yes	**4**	67.6%
7	13	13	*1*									*1.1*		**2.4**	*1.2*			*3.9*	*0.6*	0.0	**3.3**	3	Yes	Yes	**4**	67.6%
8	13	13	1	*12*								*1.0*		**2.5**	*0.8*			*3.8*	*0.5*	0.0	**3.3**	2	Yes	6.39	**4**	67.6%
9	12	13	1									*1.2*		**2.3**	*0.5*			*3.6*	*0.3*	0.0	**3.3**	2	Yes	Yes	**4**	67.6%
10	12	12	1									*1.1*		**1.9**	*0.0*			*3.5*	*0.2*	0.0	**3.3**	1	Yes	Yes	**4**	67.6%
11	12	12	1									*1.1*		**1.9**				*3.6*	*0.3*	0.0	**3.3**	1	Yes	Yes	**4**	67.6%
12	12	12	1									*1.1*		**1.9**				*3.3*	*0.0*	0.0	**3.3**	1	Yes	Yes	**4**	67.6%
13	12	12	1									*1.1*		**1.9**				*3.6*	*0.3*	0.0	**3.3**	1	Yes	5.07	**4**	67.6%
14	**11**	**12**	1									*1.1*		**2.0**				*3.8*	*0.5*	0.0	**3.3**	2	Yes	Yes	**4**	67.6%
15	11	13	1	*15*								*1.0*		**1.7**				*3.5*	*0.2*	0.0	**3.3**	1	Yes	4.43	**3**	67.6%
16	12	12	1									*1.0*		**2.0**				*3.5*	*0.2*	0.0	**3.3**	1	Yes	Yes	**4**	67.6%
17	12	12	*1*									*1.6*		**1.4**				*3.3*	*0.0*	0.0	**3.3**	2	Yes	Yes	**3**	67.6%
18	12	12	*1*									*1.0*		**2.0**				*3.5*	*0.2*	0.0	**3.3**	1	Yes	Yes	**4**	67.6%
19	12	12	1									*1.0*		**2.0**				*3.3*	*0.0*	0.0	**3.3**	1	Yes	Yes	**4**	67.6%
20	12	12	1									*0.9*		**2.1**				*3.3*	*0.0*	0.0	**3.3**	1	Yes	Yes	**4**	67.6%
21	12	12	*1*									*1.3*		**1.7**				*3.3*	*0.0*	0.0	**3.3**	1	Yes	Yes	**3**	67.6%
22	11	11	*1*	*14*								*1.2*		**1.8**				*3.0*	*0.0*	0.0	**3.0**	1	Yes	5.3	**3**	67.6%
23	12	11	1									*1.0*		**2.0**				*3.0*	*0.0*	0.0	**3.0**	1	Yes	Yes	**3**	67.6%
24	13	12	*1*									*1.2*		**1.8**				*3.9*	*0.6*	0.0	**3.3**	2	Yes	Yes	**3**	67.6%
25	17	15	1									*1.2*		**3.4**				*3.8*	*0.5*	0.0	**3.3**	2	Yes	Yes	**5**	67.6%
26		20	*1*									*2.7*		**3.5**				*5.8*	*2.5*	0.0	**3.3**	5	Yes	Yes	**5**	67.6%
27		22	*1*									*2.3*		**3.9**				*5.3*	*2.0*	0.0	**3.3**	4	Yes	Yes	**5**	67.6%
28		25	*1*									*1.5*		**4.7**	*2.0*			*5.7*	*2.4*	0.0	**3.3**	6	Yes	Yes	**5**	67.6%
29		20	*1*	17								*1.4*		**4.8**	2.5			*5.1*	*1.8*	0.0	**3.3**	6	Yes	10.34	**5**	67.6%
30		20	*3*									*1.3*		**4.9**	2.5			*5.3*	*2.0*	0.0	**3.3**	6	Yes	Yes	**6**	67.6%
31		18	*3*									*1.3*		**4.9**	*2.5*			*5.2*	*1.9*	0.0	**3.3**	6	Yes	Yes	**6**	67.6%
SFD	318	444	38		0	0	0	0	0	0	0	39	0	85	24	0	0		21	0	102	84	0	0	122	
AF	630	880	76		0	0	0	0	0	0	0	77	0	168	48	0	0		41	0	202	166	0	0	242	
		14	1				**0**			**0**				**245**	**48**		**0**		0.7	0.0		3			3.9	
																			41	**0**						

Note:

Deduct of 4 sfd on 8/5 for accretions correction 7/27-8/1

Cottonwood via the Landers

Miller ditch water is being split Prince and Haf. 50/50

Redirected Historic Irrigation Demand Limit = 31

Saturday South Fork Doyle Ranch Flow measurement, value carries for next week Tuesday-Monday.

8/15 Doyle measurement resulted in 5 cfs accretion, did not use, stayed at 1 cfs

8/22 Doyle measurement resulting in 4 cfs accretion, did not use, stayed at 1cfs

USGS SFork at 0500

https://waterdata.usgs.gov/monitoring-location/11189500/#dataTypeId=continuous-00065-0&period=P7D

Bold ## on USGS denotes USGS gage verification

ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT - ONYX RANCH

MONTHLY GROUNDWATER MONITORING RUN

AUG

2025

Well Name	DATE	Depth to Water (ft)	Notes
Onyx Store - Domestic	8/28/2025	41	
Ranch HQ - Domestic	8/28/2025	33.3	On
Landers Sand - Old Ag Well	8/28/2025	18.6	
Onyx Store - Old Ag Well	8/28/2025	22.8	
Mack Well	8/28/2025	22	
Nicoll Field - Old Ag Well	8/28/2025	15.6	
Mack Field West - Domestic	8/28/2025	13.6	On
Gibboney-2 Piezo	8/28/2025	9.6	
Gibboney-3 Piezo	8/28/2025	8.4	
Boone Piezo	8/28/2025	5.6	
Lieb Piezo	8/28/2025	9	
Pruitt Piezo	8/28/2025	12.9	
Scodie Well	8/28/2025	74.4	On
Pruitt Well	8/28/2025	16.9	
Nicoll Well	8/28/2025	15.8	
Mack Piezo	8/28/2025	16.6	
West Onyx Piezo (Top of pipe to the concrete 1.9ft)	8/28/2025	18	On
East Onyx Piezo (Top of pipe to the concrete 1.4ft)	8/28/2025	24.3	
Smith Piezo #1	8/28/2025	14	
Smith Piezo #2	8/28/2025	16.6	
Smith Piezo #3	8/28/2025	15.2	

ROSEDALE-RIO BRAVO
WATER STORAGE DISTRICT

849 Allen Road
Bakersfield, CA 93314
(661) 589-6045
www.rrbwsd.com

September 9th, 2025

Board of Directors
Rosedale-Rio Bravo Water Storage District
849 Allen Road
Bakersfield, CA 93314

Improvement Projects

Engineering/Construction Consultant Updates:

See below for invoicing through July on the design work for the pond layout of McCaslin North and the Dillard property. The McCaslin North design is currently approximately 60% complete (see attached).

(In progress July) Mc-N/Dillard Design $57,400 of the approved $128,500 proposal

SCADA Projects:

District staff successfully applied for and received approval to join the GOES (Geostationary Operational Environmental Satellites) network, a system typically reserved for select government agencies. Participation in the GOES program provides significant benefits to the District, enabling data transmission from monitoring sites in remote areas where cellular service is unavailable. Unlike radios or cellular devices, the GOES system transmits data via satellite, and is the same technology utilized by the USGS to monitor flow rates in the South Fork. Staff are currently in the process of establishing the first remote monitoring site, with an estimated implementation cost of $10,000–$15,000. The District's long-term goal is to replace all three monitoring sites, which is expected to save approximately one hour of staff time per day in addition to reducing fuel expenses. The first system has already been ordered and is scheduled for delivery mid-October.

The pump station alarm system has presented challenges for the Operations Manager since its initial construction. A programmer has been working intermittently to address these issues and improve the overall functionality and user-friendliness of the system's operation and maintenance. Final testing and implementation will be completed in the middle of September when PGE rates change.

West Superior Weir Reconstruction

Retrofit of the superior weir structure – Weir structure west of Superior Rd. and east of Enos Hwy. Staff has removed the boards and cleaned the structure to make a plan for the retrofit. West superior weir is not a critical measuring point within the Goose Lake Channel so modifications will be made to hold an upstream water surface and allow an

approximate 200 cfs to flow through (see picture). The District is looking to retrofit the two middle bays with sluice gates. Cost of gates are approximately $12,000 each, and District staff will be ordering two to go across the two middle bays of the West Superior Weir. District staff will bring ratification of the gates to the September board meeting.

Goose Lake Channel Hydraulics Improvements

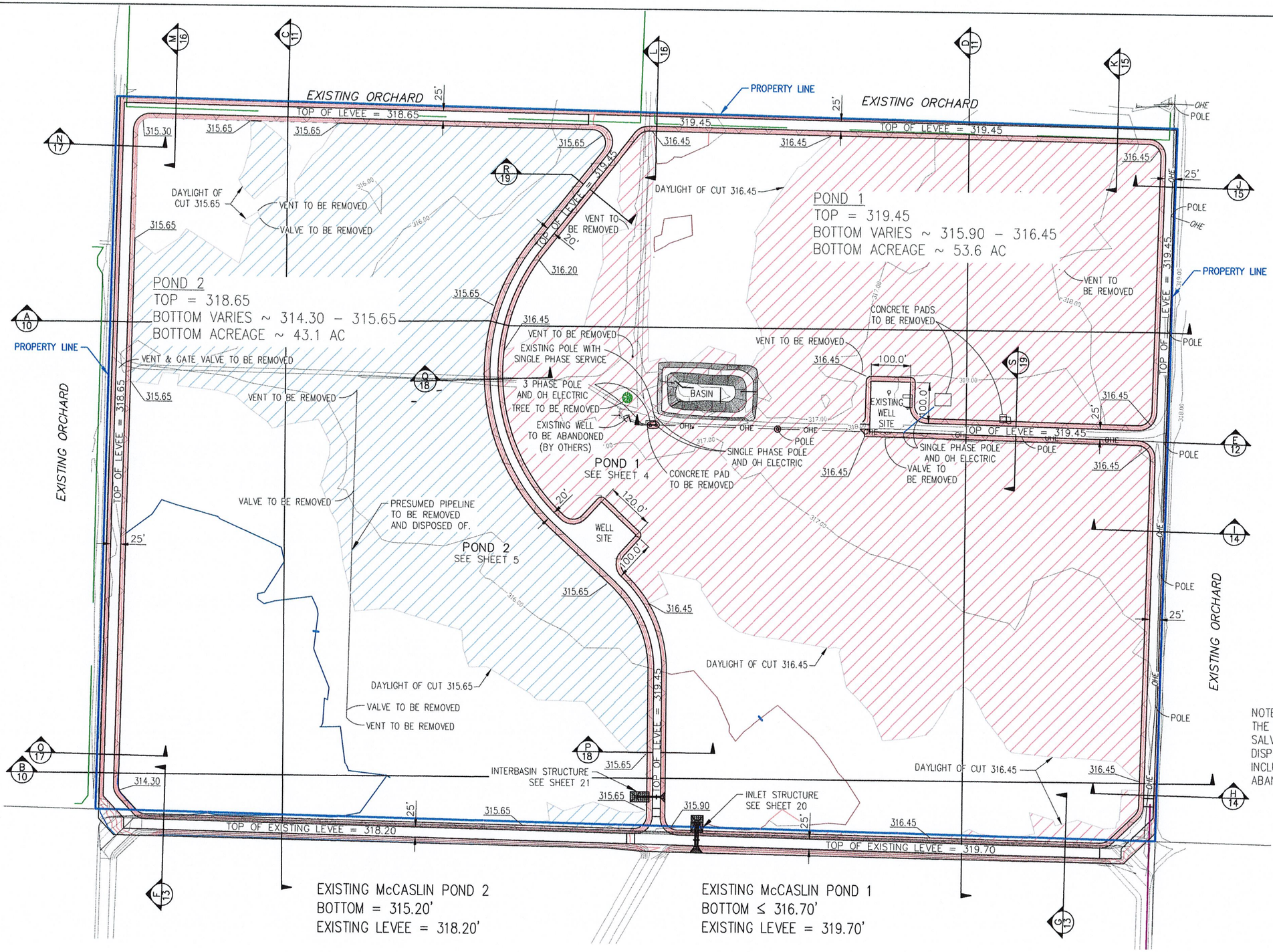
The Goose Lake Channel has experienced ongoing issues due to poor hydraulics within the earthen channel. These conditions limit conveyance efficiency and contribute to maintenance challenges during high-flow events. District staff are looking at opening up and widening the channel in a north-south section off of Wegis Ave. District staff will be renting an excavator and a dump truck to widen the canal, slowing the velocities in the channel, and limiting erosion. Work will begin the week of September 8th and is expected to last for two weeks. (see picture)

General District Improvement

A couple of small projects were recently completed in the District, both located in the Stockdale East area. The first involved the SE Agricultural Well, which was refurbished as part of the DRP Stockdale East Well Project. This well serves as a backup supply source in the event that SE-1 or SE-2 become inoperable during a recovery period. Due to subsurface liquefaction in the sand layer, settlement occurred beneath the concrete foundation. To address this, District staff placed gravel beneath and around the foundation to stabilize the structure and mitigate the potential impacts of future subsurface movement. (see pictures)

The second project took place at the Central Intake Pumping Plant. An adhesion failure between the primer and the paint on Pump 5's discharge pipe caused sections of paint to detach. WM Saleh, the contractor who performed the original work, returned to the site and successfully resolved the issue. (see pictures)

Recommendation: none



Know what's **below.**
Call before you dig.

NORTH
0 125 250 375
SCALE: 1"=250'

LEGEND
- CUT TO 316.45
- CUT TO 315.65
- EXISTING TOPO MAJOR
- EXISTING TOPO MINOR
- EXISTING TREE LINE
- DESIGN MAJOR
- DESIGN MINOR
- DESIGN
- PROPERTY LINE

NOTE: EXISTING FACILITIES NOT SELECTED BY THE DISTRICT TO BE PRESERVED OR SALVAGED ARE TO BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. THIS INCLUDES, BUT IS NOT LIMITED TO: ABANDONED PIPELINS, VENTS, VALVES, ETC.

EARTHWORK QUANTITIES

CUT = 61,072	OVER-EX & RE-COMP = 20,718 CY	TOTAL CUT = 81,790
FILL = 31,682		TOTAL FILL = 52,400
C/F = 1.93		TOTAL C/F = 1.56

A/3 POND PLAN – OVERALL LAYOUT

DRAFT

ZEIDERS CONSULTING
1655 GREELEY ROAD
BAKERSFIELD, CA. 93314
(661) 589-8366

RRB ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT
849 ALLEN ROAD
P.O. BOX 20820
BAKERSFIELD, CA. 93390

3 of 25

R.R.B.W.S.D.
McCASLIN NORTH RECHARGE BASINS
RECHARGE BASIN PROJECT
OVERALL PLAN - POND LAYOUT

REV.	DATE	DESCRIPTION
1		

DATE: SEPTEMBER 2, 2025
SCALE: AS NOTED
DRAWN BY: S. BOWERS
CHECKED BY: W. ZEIDERS
FILE NAME: McCASLIN-NORTH

Goose Lake Channel Improvements

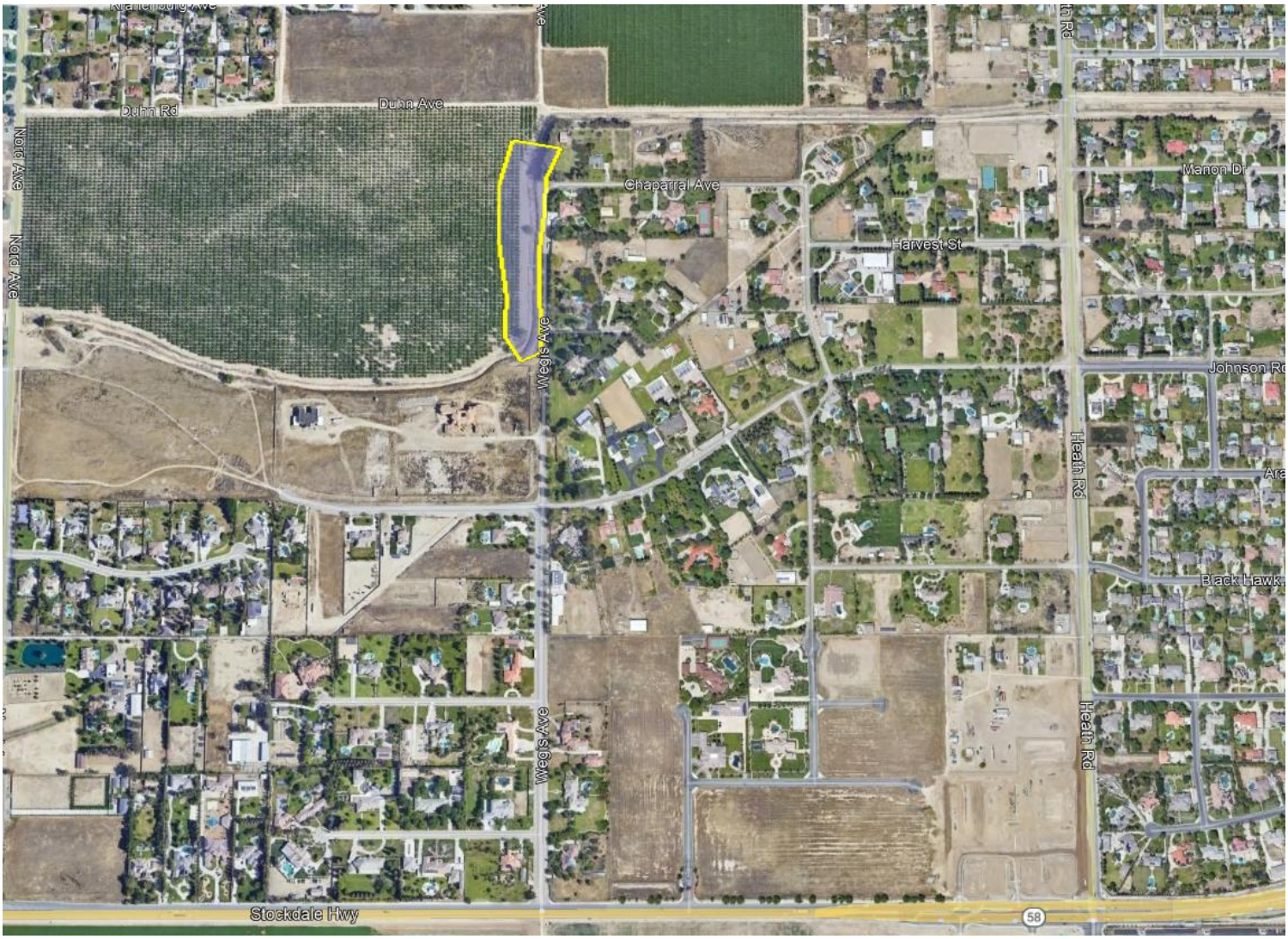


Figure 1 Location of work on Goose Lake Channel



Figure 2 Goose Lake Channel Facing South



Figure 3 Goose Lake Channel Facing North

General District Improvements (SE Ag. Well)



Figure 4 Original State of Ag. Well



Figure 5 After Gravel Added to Well

General District Improvements (Pumping Plant paint)



Figure 6 Damaged Discharge Paint (Pump 5)



Figure 7 Paint Refinished

ROSEDALE-RIO BRAVO
WATER STORAGE DISTRICT

849 Allen Road
Bakersfield, CA 93314
(661) 589-6045
www.rrbwsd.com

September 9, 2025

To: Rosedale-Rio Bravo Water Storage District Board of Directors

Agenda Item: 7ci.

From: Rachelle Echeverria

Re: Consideration of Cultural Studies Proposal

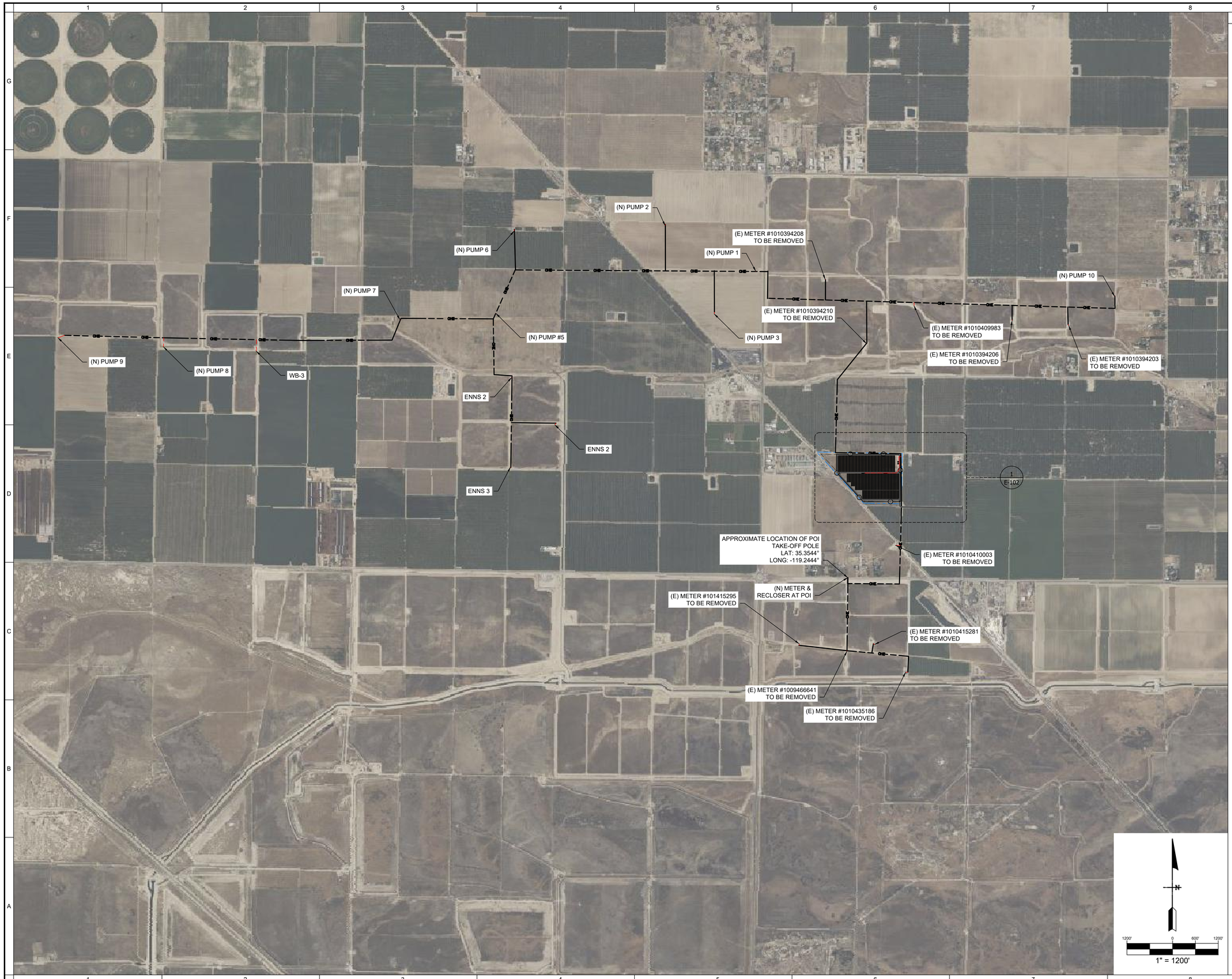
Discussion:

Rincon Consultants is currently preparing the CEQA documentation for the Dillard Project. During their review, they identified the need for an additional cultural resources report to address the proposed utility lines (see attached map). The previous cultural report only covered the recharge basin area, so a supplemental report is necessary to ensure CEQA compliance.

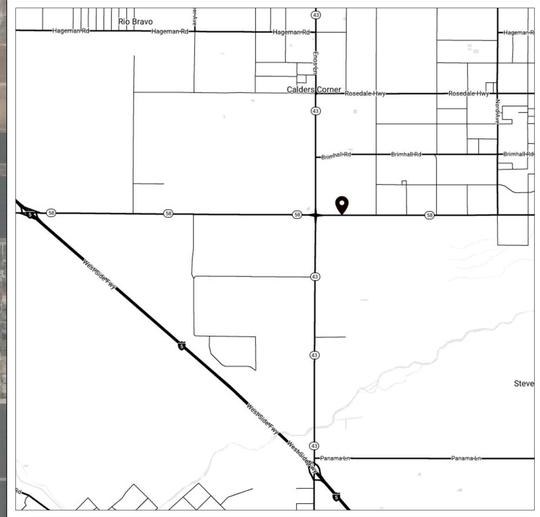
Our cultural consultant, ASM Affiliates, has provided a proposal to complete the required report at a cost of **$16,436.50**, with an estimated timeline of approximately 12 weeks. This additional scope of work is essential to keep the project moving forward and to ensure that cultural resources are properly evaluated.

Recommendation:

Staff recommends that the Board authorize execution of the additional cultural report for the Dillard Project in the amount of **$16,436.50**.



VICINITY MAP



SYSTEM SUMMARY	
SYSTEM DC STC CAPACITY (kW)	7,515.2
SYSTEM AC RATING (kW) NAMEPLATE	4,999
SYSTEM AC RATING (kW) CEC	6,926.02
DC/AC RATIO	1.50
INTERCONNECTION VOLTAGE	12kV
LATITUDE	35.3544°
LONGITUDE	-119.2444°
DESIGN TEMPERATURE MIN./MAX. (°C)	-2.0 / 36.7
PV ARRAY	
MODULE TYPE	ELITE / ET-M772BH550TW
MODULE RATING (W @ STC)	550
MODULE RATING (W @ CEC PTC)	514.6
MODULE QUANTITY TOTAL	13,664
STRING SIZE	28
MAX. STRING VOLTAGE	1500
RACKING CONFIGURATION	SAT
AZIMUTH	180°
TILT ANGLE	+/-52°
INVERTER	
INVERTER MAKE / MODEL	CHINT / SCH125KTL-DO/US-600
INVERTER RATING (kVA)*	5,000
INVERTER QUANTITY	40
BESS SYSTEM SUMMARY	
BATTERY SYSTEM SIZE kVA / kW / kWh	4,000 / 3,916.8 / 15,667.2
TECHNOLOGY	TESLA MEGAPACK 2 XL [480V, 4H], LITHIUM-ION
MANUFACTURER PART NO.	184884-XX-Y EC24 P100
BATTERY RATING kVA / kW / kWh	1000 / 979.2 / 3,916.8
BATTERY QUANTITY	4
RACKING QUANTITIES	
RACKING MODEL	SINGLE-AXIS TRACKER
4-STRING RACKING TABLE QUANTITY	99
3-STRING RACKING TABLE QUANTITY	4
2-STRING RACKING TABLE QUANTITY	40
ROW-TO-ROW PITCH (FT)	27.0
ROW-TO-ROW CLEAR SPACE (FT)	19.52
GROUND COVERAGE RATIO (%)	27.7

*INVERTER NAMEPLATE POWER RATING IS 125KW EACH, INVERTERS SHALL BE FACTORY POWER LIMITED TO 124.975KW SUCH THAT THE TOTAL PLANT NAMEPLATE REAL POWER RATING DOES NOT EXCEED 4,999KW.

WhitePine RENEWABLES

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NOT FOR CONSTRUCTION

GREEN RIVER ENGINEERING & CONSULTING

REV	DATE	DESCRIPTION
-	06.29.23	PRELIMINARY DESIGN
A	08.26.25	METER AGGREGATION

PROJECT:

ROSEDALE RIO BRAVO IRRIGATION DISTRICT - SOLAR PROJECT

KERN COUNTY, CA
LAT: 35.3544° , LONG: -119.2444°

DATE:	06.28.2023
DRAWN BY:	JT
CHECKED BY:	WB

OVERALL SITE PLAN

E-101

PRINTED ON: March 26, 2025

Proposal to Conduct Archaeological Survey and Reporting

Dillard Groundwater Recharge and Solar Project, Additional Archaeological Survey, Kern County, California

September 5, 2025

Prepared by:

ASM Affiliates
4800 Stockdale Hwy Suite 405
Bakersfield, CA 93309

Prepared for:

Rachelle Echeverria, Resources Planner
Rosedale-Rio Bravo Water Storage District
849 Allen Road
Bakersfield, CA 93314
661-589-6045
recheverria@rrbwsd.com



Peter A. Carey, M.A., RPA
Director, Archaeology
pcarey@asmaffiliates.com

Project Introduction

ASM Affiliates, Inc. (ASM) will conduct additional archaeological survey for the utility areas and prepare a final report for the Rosedale Rio-Bravo Water Storage District's (RRBWSD) Dillard Groundwater Recharge and Solar Project (Project). All services will be provided in accordance with the California Environmental CEQA and managed by ASM's staff who exceed the *Secretary of the Interior's Professional Qualification Standards*. All services will be provided on a fixed-fee basis after receipt of signed contract. This proposal shall remain valid for 90 days from today's date.

Scope of Work

Project Kickoff - ASM will participate in one kickoff call to discuss project requirements and confirm project schedule.

Records Search - ASM will request a search of maps and files from the local Information Center in order to identify previously recorded sites and previous cultural resource studies documented within a one-mile radius of the project site. ASM assumes the record search will not exceed a direct cost of $750.

Field Survey - ASM will conduct an intensive pedestrian archaeological field survey of the utility areas. A Native American monitor will not accompany ASM's archaeologist during the field survey. It is assumed that the archaeological study will be negative and no cultural resources or built environment resources which meet the age threshold for eligibility under CEQA will be present within the proposed project area.

Technical Report Preparation – ASM will prepare a technical report summarizing the results of the records search/reviews, the archaeological field survey, and it will contain the requisite written documentation in compliance with the CEQA process. The report will include methodology, survey findings, identification of known historical resources, recommended mitigation and/or provide recommendations for any further work required for compliance.

Schedule

ASM will complete the listed Scope of Work in accordance with all project requirements within 12 weeks of signed contract and Notice to Proceed.

Cost

The fixed-fee cost to complete the scope of work described above is $16,436.50.

Assumptions

- All services will be provided in compliance with local agency requirements and CEQA;
- Not more than one site visit will be required;
- Indirect impacts analysis is not required;
- The Information Center record search will not exceed $750 in direct costs;
- No built environment evaluation will be required;
- No geoarchaeological field study will be required;

- It is assumed that the archaeological surveys will be negative and no additional work will be required. It is assumed there are no built environment resources present within the proposed project area that meet the age threshold for eligibility under CEQA. Any required site testing and evaluations can be provided under augment;
- It is assumed that a report will be sufficient documentation for the cultural assessment;
- ASM will respond to one round of comments after delivery of draft report;
- ASM is not responsible for delays due to access or weather conditions;
- Deliverables will be provided electronically via email;
- If revisions or additions to the report are requested, ASM will bill you above the contract limits on a time and materials basis to address those comments, per our standard billing rates.

Proposal Acceptance

Title: Dillard Groundwater Recharge and Solar Project, Additional Archaeological Survey, Kern County, California

Cost: $16,436.50

Accepted by:

_____ _____
Signature Print Name

_____ _____
Title Date

_____
Company Name

_____
Billing Address

_____
Email Address

_____
Phone



KERN FAN GROUNDWATER STORAGE PROJECT

ALT5 Feasibility Team

Is the CVC joint works plan doable and affordable?

KERN FAN GROUNDWATER STORAGE
ALT5 FEASIBILITY TEAM

Dan Bartel, GBJPA GM
Fiona Nye, GBJPA, PM

Trent Taylor, RRBWSD, Contracts
Zach Smith, RRBWSD, Operations Manager
Markus Nygren, RRBWSD, Engineering
Rachelle Echeverria, RRBWSD, Resources
Robert Haung, IRWD, Engineering

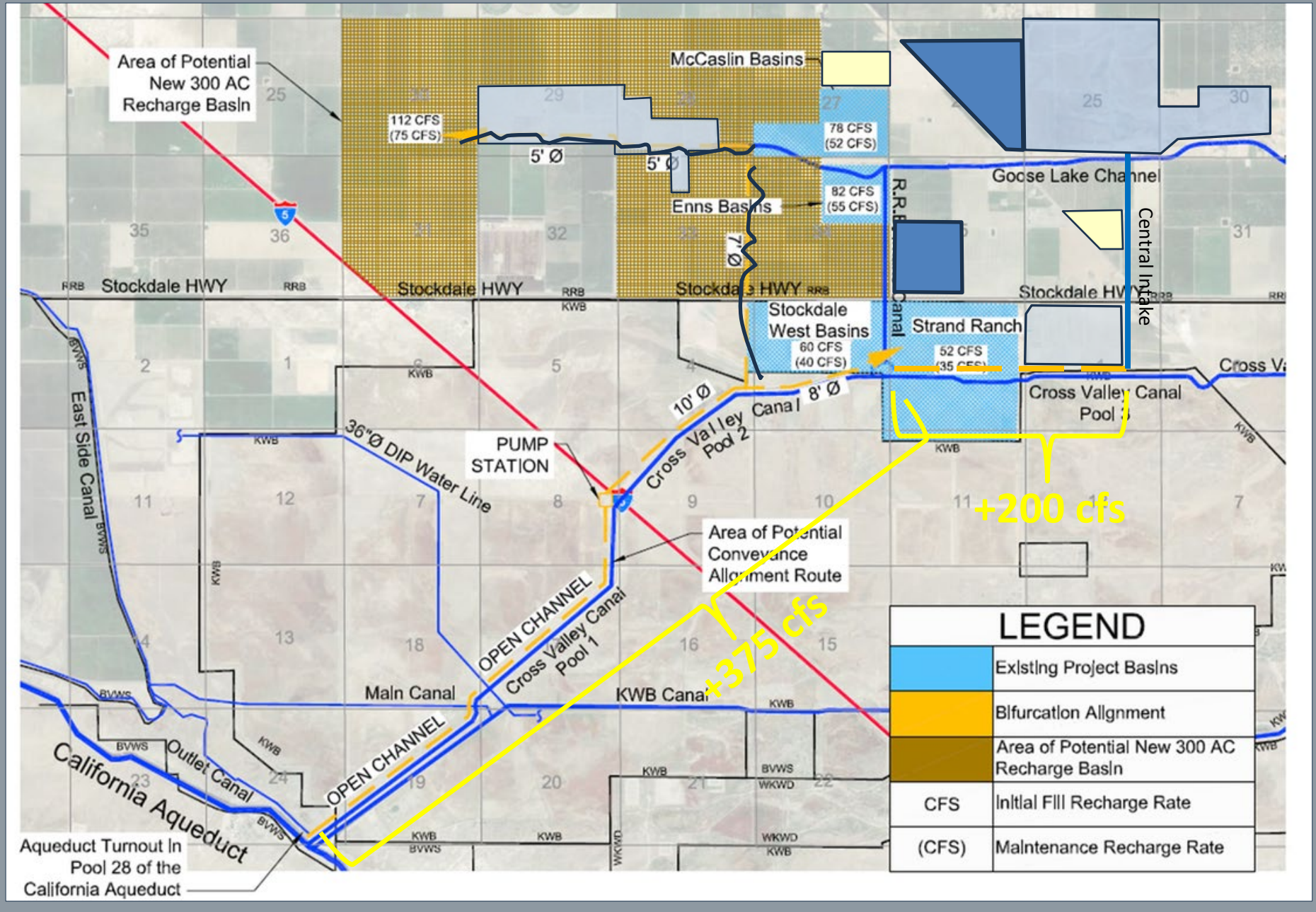
Lauren Bauer, KCWA, Water Resources Manager
Craig Wallace, KCWA, Co-Interim General Manager
James (JT) Gardiner, KCWA, Engineering Manager
Scott Chambless, KCWA, Engineering
Steve Yoder, KCWA, CVC Operator

David Halopoff, CWD, CVC Rep

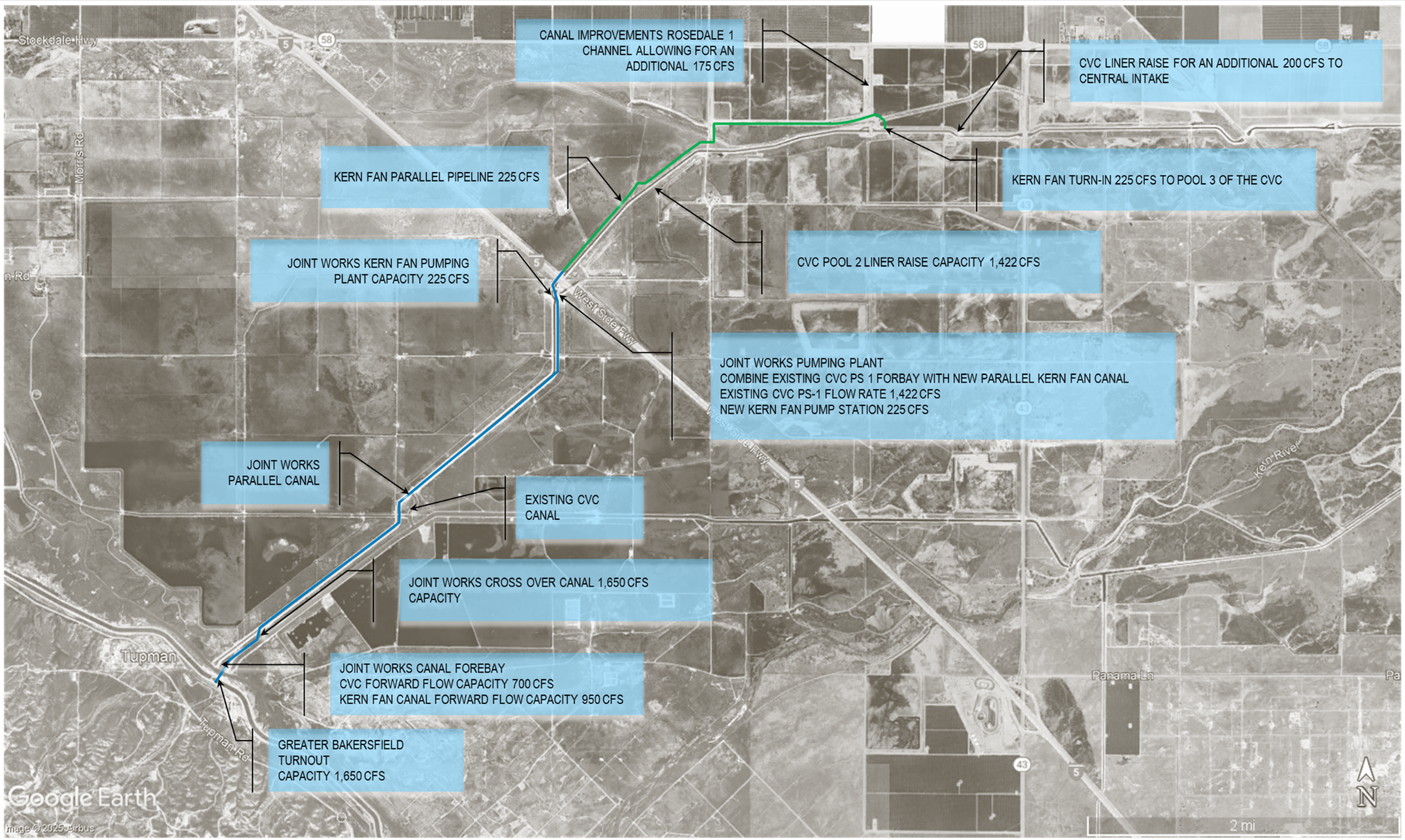
Curtis Skaggs, Project Manager
Joe Long, Stantec, Conveyance Team
Wayne Dahl, Conveyance Team
Dr. Howes, CVC Consultant
Kristin Pittack, Rincon, CEQA
Aaron and Richard Meyer, Liner Raise

Who are we missing?

GBJPA


Area of Potential New 300 AC Recharge Basin
McCaslin Basins
112 CFS (75 CFS)
78 CFS (52 CFS)
5' Ø
5' Ø
Enns Basins
82 CFS (55 CFS)
7' Ø
Goose Lake Channel
Central Intake
R.R.
Canal
Stockdale HWY
Stockdale HWY
Stockdale HWY
Stockdale West Basins
60 CFS (40 CFS)
Strand Ranch
52 CFS (35 CFS)
Cross Valley Canal Pool 3
10' Ø
8' Ø
Cross Valley Canal Pool 2
East Side Canal
36"Ø DIP Water Line
PUMP STATION
+200 cfs
Area of Potential Conveyance Alignment Route
OPEN CHANNEL
Cross Valley Canal Pool 1
+375 cfs
Main Canal
KWB Canal
OPEN CHANNEL
Outlet Canal
California Aqueduct
Aqueduct Turnout In Pool 28 of the California Aqueduct
LEGEND
Existing Project Basins
Bifurcation Alignment
Area of Potential New 300 AC Recharge Basin
CFS
Initial Fill Recharge Rate
(CFS)
Maintenance Recharge Rate

Reference: **KERN FAN ALTERNATIVE DEVELOPMENT**



KERN FAN SITE LAYOUT ALTERNATIVE 5a

EXHIBIT 2

Stantec

GBJPA

PROJECT COMPONENTS
ALT5 JOINT CONCEPT

Project Description:

375 cfs of capacity to the CVC in Pools 1 and 2
200 cfs in Pool 3 up to the Central Intake

- Improved culvert under the Outlet Canal
- Parallel canal section to Pool 1
- Removal of the bifurcation at PP1
- Improved pumping capacity at PP1
- Raised liner and/or parallel pipeline to Pool 2
- Removal of the bifurcation at PP2
- Improved pumping capacity at PP2
- Raised liner or parallel pipeline to Central Intake (Pool3)

GBJPA

PROJECT BENEFITS
ALT5 JOINT CONCEPT

This project offers multiple indirect benefits to Kern County water management:

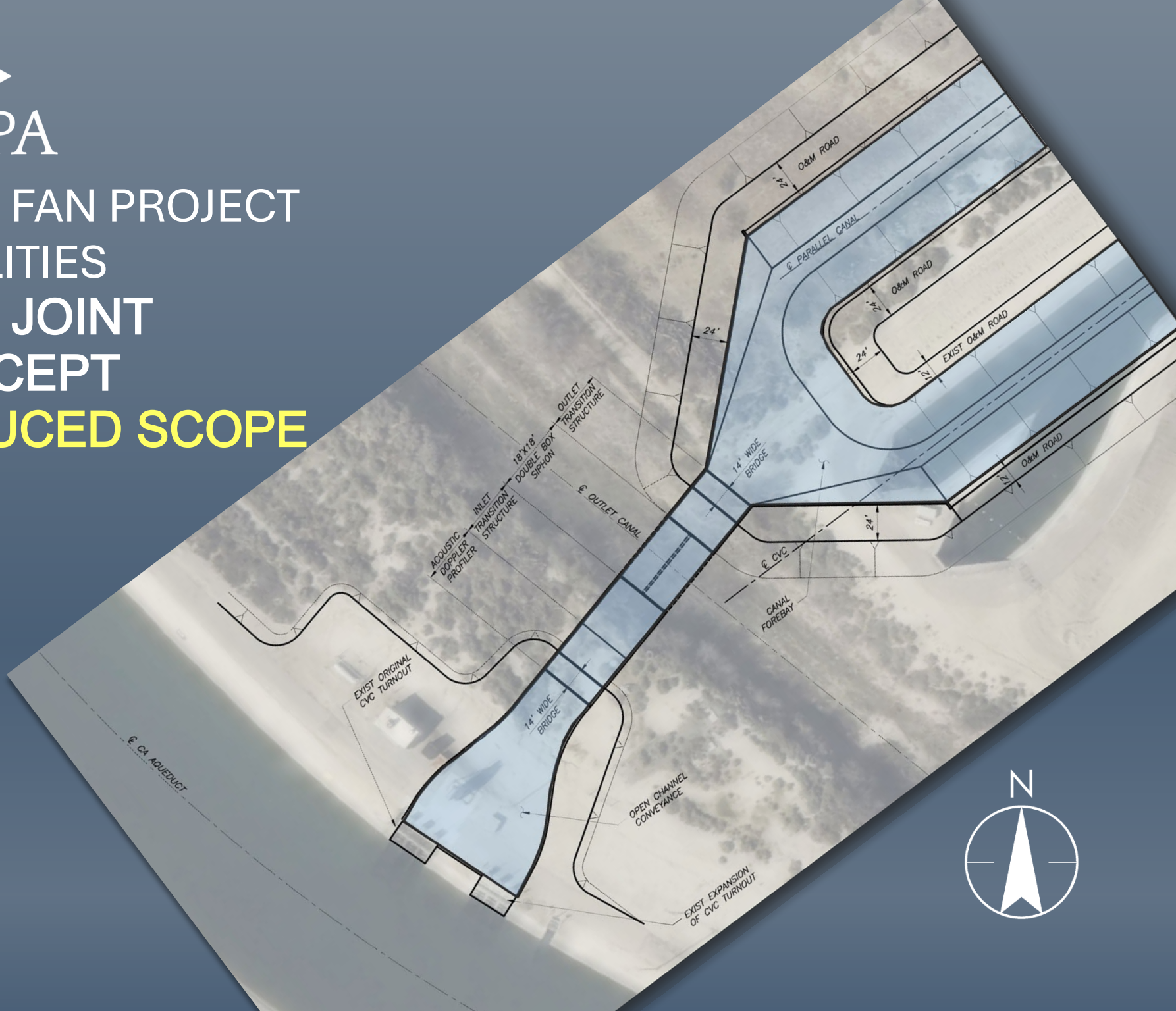
- $120M grant to enhance high flow capture
- Increasing available unused capacity
- Mitigate limited freeboard risk (Pool 2)
- Elimination of bifurcation oscillation (PP1&2)
- Reduce B Plant vortexing
- Improving pump submergence and performance
- Enhanced reliability in Pool 1
- Reduce Kern County's subsidence impacts/costs

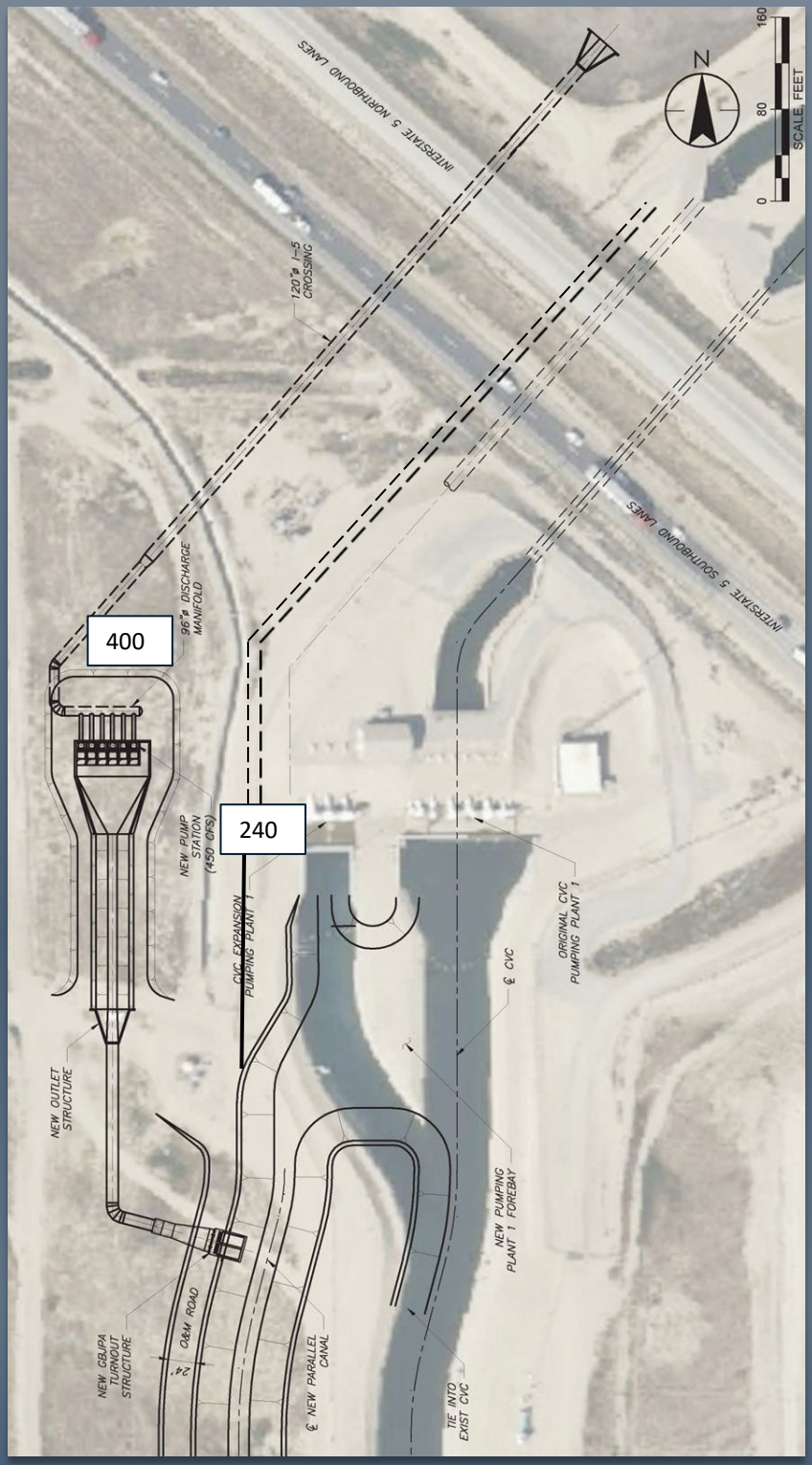
GBJPA

KERN FAN PROJECT FACILITIES

ALT5 JOINT CONCEPT

REDUCED SCOPE





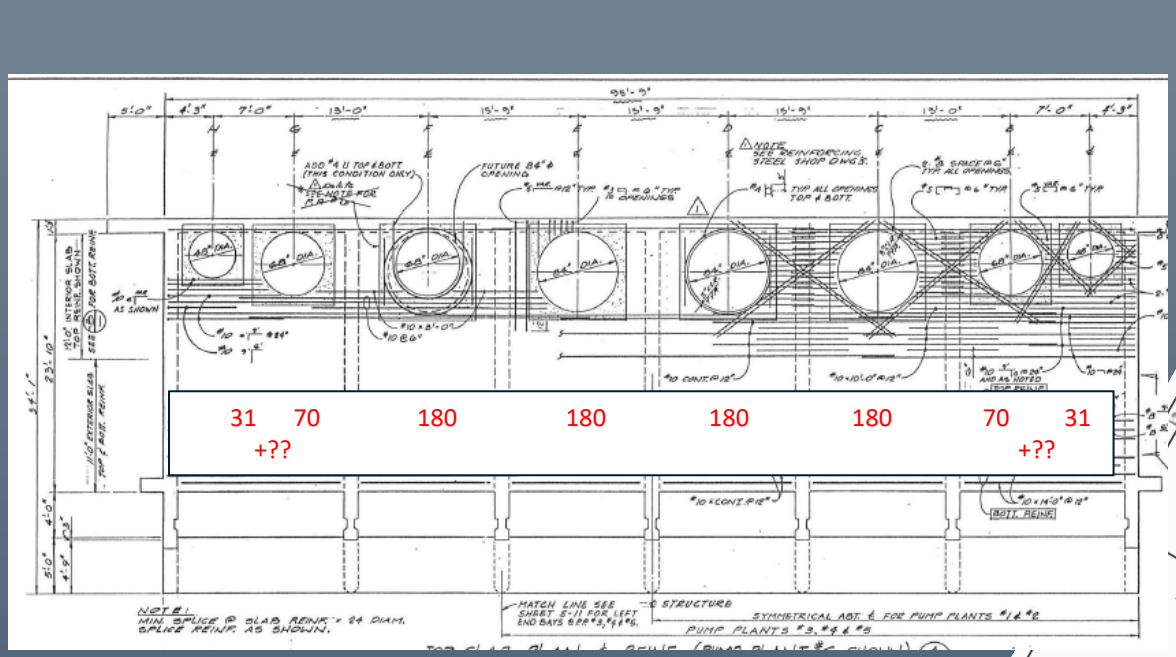
GBJPA

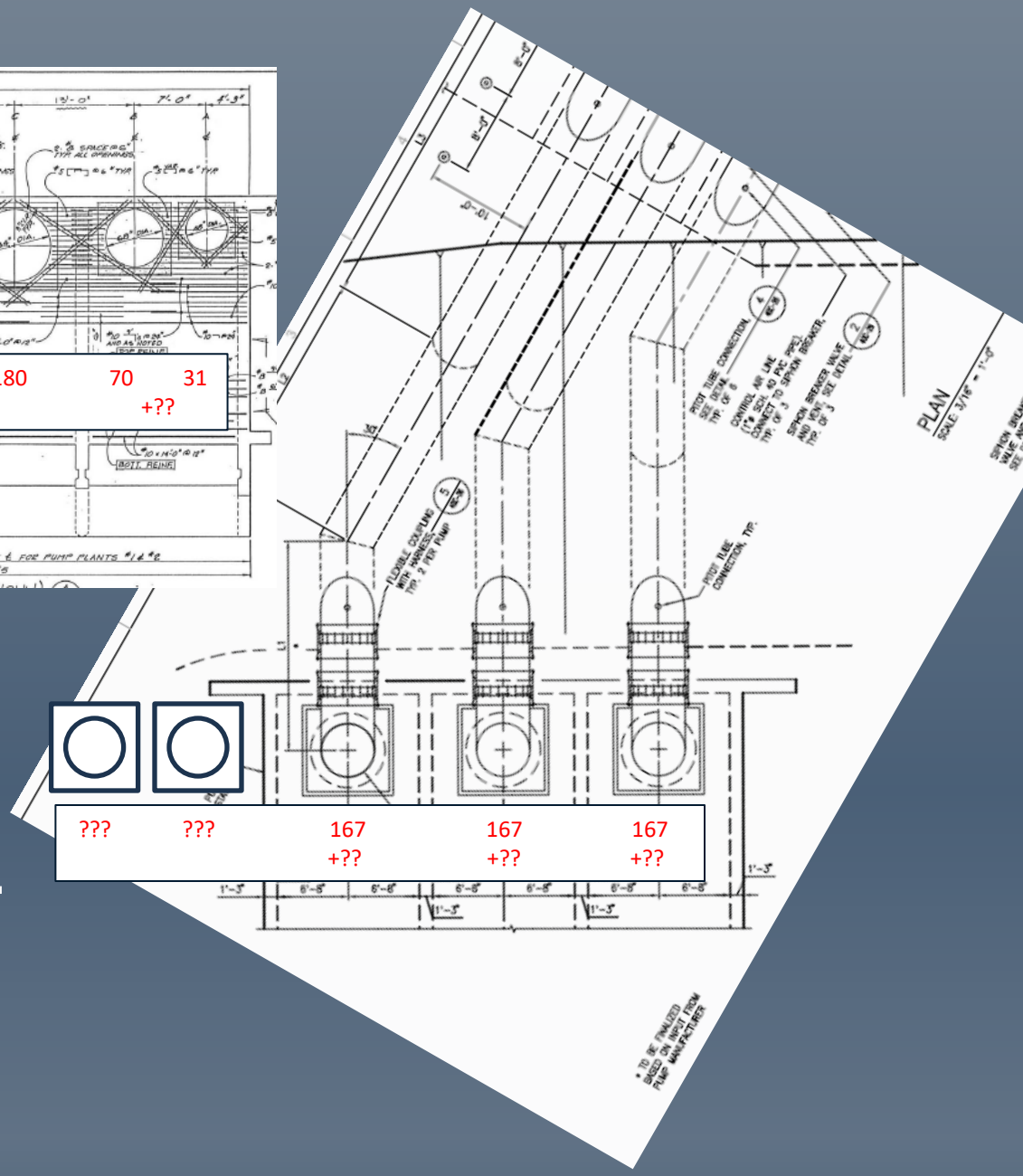
KERN FAN PROJECT FACILITIES

ALT5 JOINT CONCEPT

REDUCED SCOPE

N





KERN FAN PROJECT FACILITIES

ALT5 JOINT CONCEPT

PP1 =+240cfs

GBJPA

PROJECT SCHEDULE
ALT5 JOINT CONCEPT

2025
- Execute Reimbursement Agreement
- Execute Amendment No.1 – Settlement
- Alt5 Feasibility Study/Design Agreement

6/2026
- Basis of Design Report
- Supplemental CEQA

2027
- Construction Agreement
  30% Plans and Specs
- Execute Amendment No.2
  60% Plans and Specs
  Bidding of Phase 1

2028

GBJPA

PROJECT TEAMS
ALT 5 JOINT CONCEPT

Alt5 Feasibility Study Teams - Lead/Members/Deliverables?

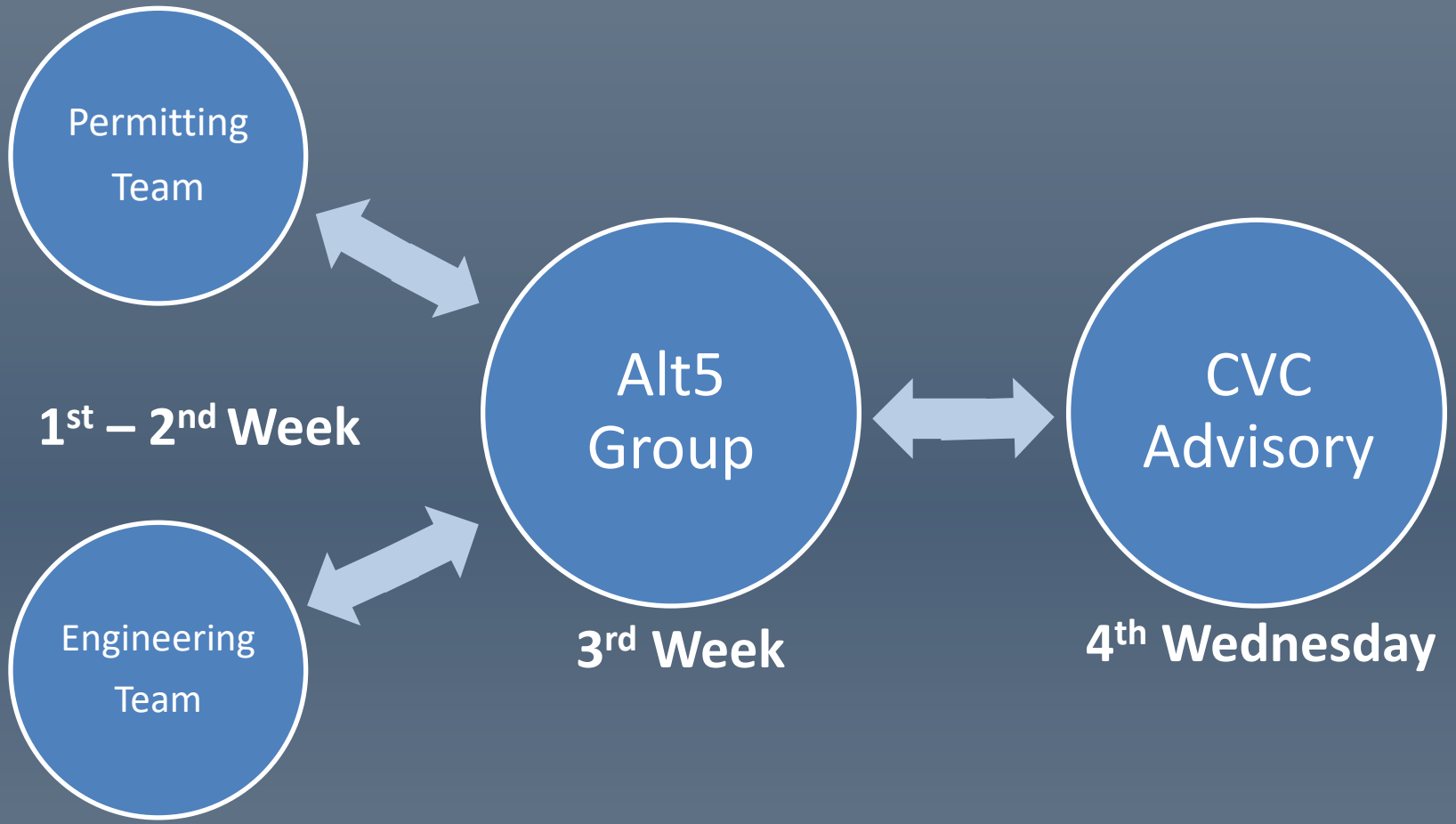
Permits/Agreements/Rights-of-Way
Trent – Lead
Kristin, Rachelle, ?

Engineering/Budget/Schedule
Curtis – Lead
Dan, Markus, Zach, Joe, Wayne, ?

1st Team Meetings – Describe deliverables, schedule, challenges

GBJPA

FEEDBACK FLOW
ALT5 JOINT CONCEPT



GBJPA

PROJECT SCHEDULE
ALT5 JOINT CONCEPT

July-2025 Execute Reimbursement Agreement

Team Kickoff

Alt5 Feasibility Study

June-2026 Basis of Design Report

GBJPA

INITIAL MILESTONES
ALT5 JOINT CONCEPT

Sept-2025

- Engineering
- Footprint
- Pool1 Concept
- Pool2/3 Concept

Permitting

Agreements

Easements

Permits

Schedule/Budget/Data Gaps/Next Steps

Feb-2026

Alt5 Feasibility Study


THANK YOU

DRAFT

PROBATIONARY HEARING CONTINUANCE
PANEL PRESENTATION

Kern County Subbasin
Groundwater Sustainability Agencies

SEPTEMBER 17, 2025

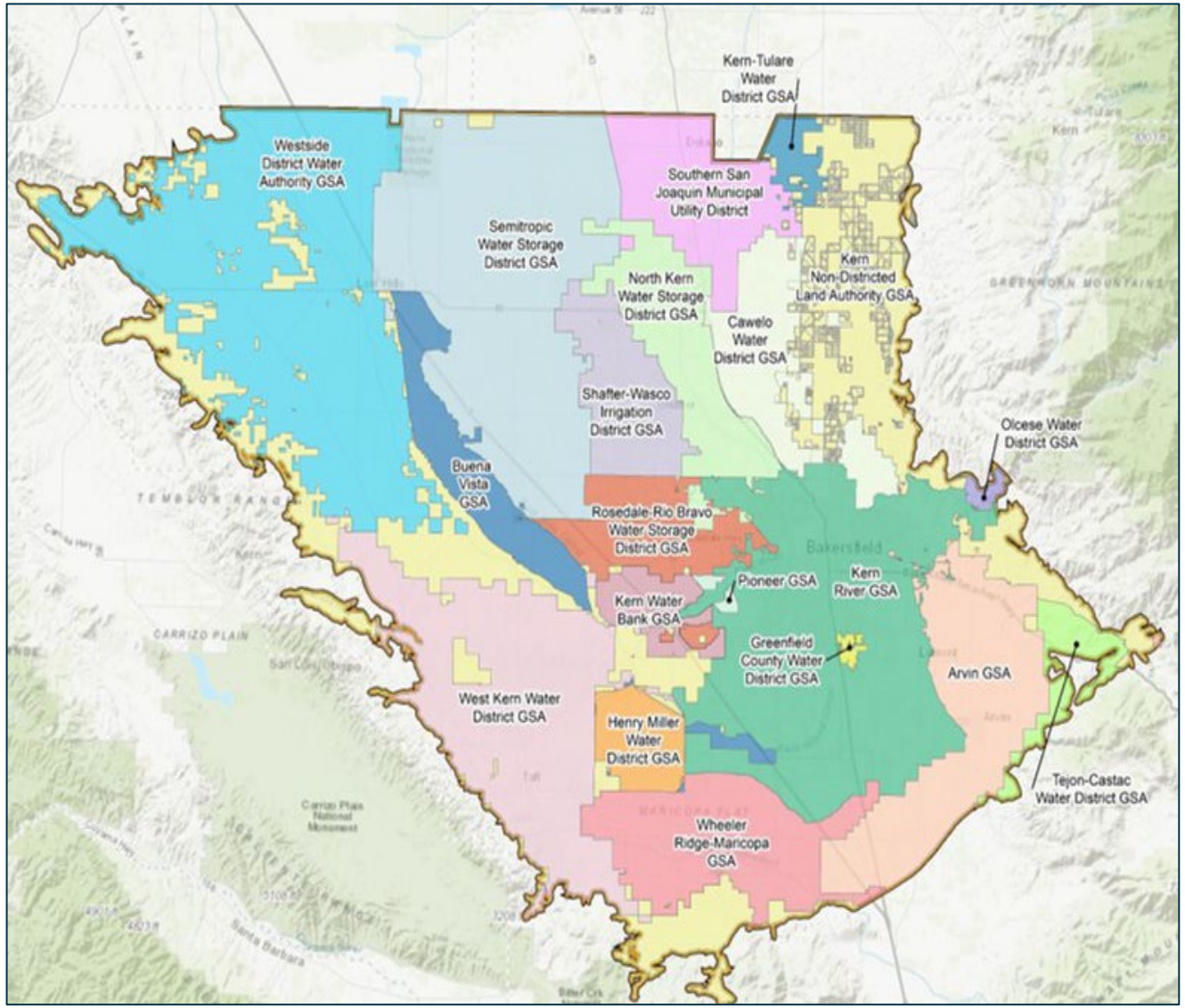


PRESENTATION OVERVIEW

- Overview & Background
- SWRCB Collaborative Process
- 2025 Plan Revisions
- Progress on Implementation
- Summary & Conclusions

KERN SUBBASIN OVERVIEW

DRAFT



- 1.782 million acres – **the largest Subbasin in the State**
- Over 35 water agencies represented across 20 GSAs
- Highly varied and complex hydrogeology and groundwater conditions
- Long history of successful conjunctive use and banking

THE 2025 PLAN SUPPORTS OUR SUSTAINABILITY GOAL

DRAFT

The sustainability goal for the Kern Subbasin is to implement the 2025 Plan to achieve sustainable groundwater management within the 20-year implementation schedule. Achieving the sustainability goal will be demonstrated by **eliminating chronic lowering of groundwater levels caused by overdraft conditions and avoiding Undesirable Results for groundwater levels, groundwater storage, land subsidence, and groundwater quality**. This goal will be accomplished through the following objectives:

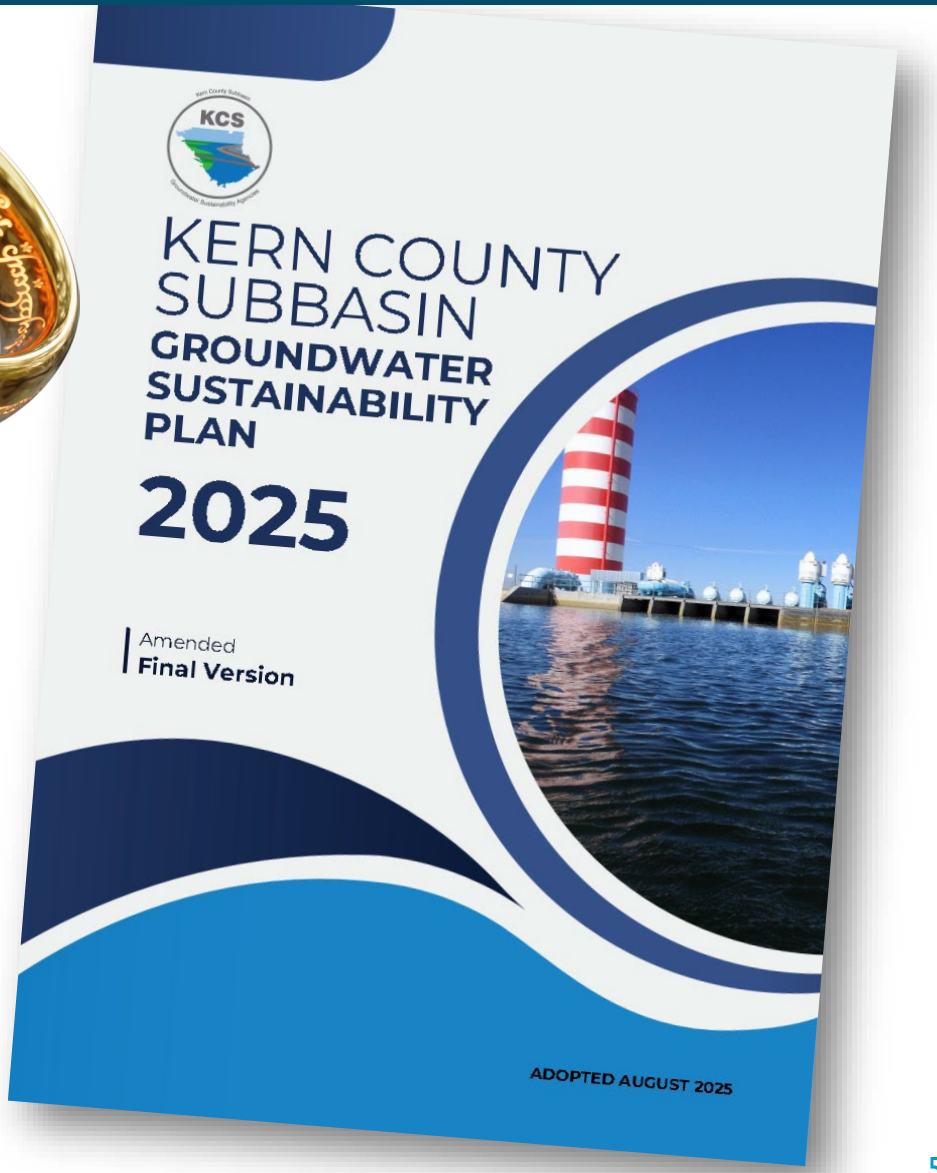
- Implement the **Stakeholder Communication and Engagement Plan**
- Eliminate long-term groundwater overdraft and attain sustainability through **conjunctive use, water banking, and demand management programs**
- Continuously **monitor** and evaluate groundwater conditions to avoid undesirable results
- **Maintain** long-term sustainability of **water resources** available to the Subbasin
- Maintain a comprehensive database of **beneficial uses and users** to inform on the efficacy of groundwater management policies and programs

THE 2025 PLAN MAINTAINS STRONG COORDINATION

DRAFT

- **One Plan with 7 GSPs**
  - One Foundational Subbasin GSP
  - 6 GSPs with Blue Pages containing GSA-specific Info
    - All GSAs reviewed and coordinated blue-pages
- **Coordination Agreement**
  - Revised to ensure consistency with 2025 Plan
  - KNDLA JPA revised in response to SWRCB Staff feedback





THE 2025 PLAN ENHANCES IMPLEMENTATION

DRAFT

- ✓ Further refines SMCs and URs to be even more (locally) protective
- ✓ Expands the Kern Subbasin's monitoring networks to cover up to 99% of production wells identified in our inventory
- ✓ Improves understanding of beneficial users through Subbasin-wide Well Inventory
- ✓ Defines notification protocols to inform well owners of groundwater conditions that may apply to their water supply
- ✓ Develops protocols for investigating, documenting, and communicating MT Exceedances and Action Plan guidance for corrective actions
- ✓ Defines Mitigation Programs in the event that the Kern Subbasin's management actions are not sufficiently protective of beneficial users
- ✓ Expands the Stakeholder Communication and Engagement Plan, with increased focus on community awareness and engagement



IMPLEMENTATION IS AHEAD OF SCHEDULE

DRAFT

Kern Subbasin has made significant progress towards correcting overdraft conditions

Implemented 47% of Projects and Management Actions

All P/MAs are accruing benefits towards the Kern Subbasin's sustainability goal.

WY 2024 exceeded the target deficit reduction

GSAs reported results are 439,947 AF in WY2024 of demand reduction and supply augmentation

Added 2.2 million acre-feet to the aquifer in WY 2023

"In 2023 alone, 4.1 million acre-feet of water was added to underground aquifers through managed efforts." - DWR

With 2023 and 2024 being above normal water years, the groundwater in storage increased by 2.75 million acre-feet

Source: Todd Groundwater, Kern County Subbasin Sixth Annual Report, Water Year 2024, ES-6 and Table 13
Source: https://data.cnra.ca.gov/dataset/ae160cf2-51d8-450d-82cc-2708e63ccd95/resource/fe2f982a-cc34-4b11-a6e7-6aef5e5cb8d6/download/may_2025_semi_annual_groundwater_conditions_report_v2.pdf
Source: News Release, DWR Marks 10 Years of the Sustainable Groundwater Management Act and Progress Made to Protect Water Supplies. https://water.ca.gov/News/News-Releases/2024/Sep-24/SGMA-10-Year-Anniversary

DWR report shows that

KERN SUBBASIN HAD THE GREATEST INCREASE IN GROUNDWATER STORAGE IN WY 2024

among all groundwater basins

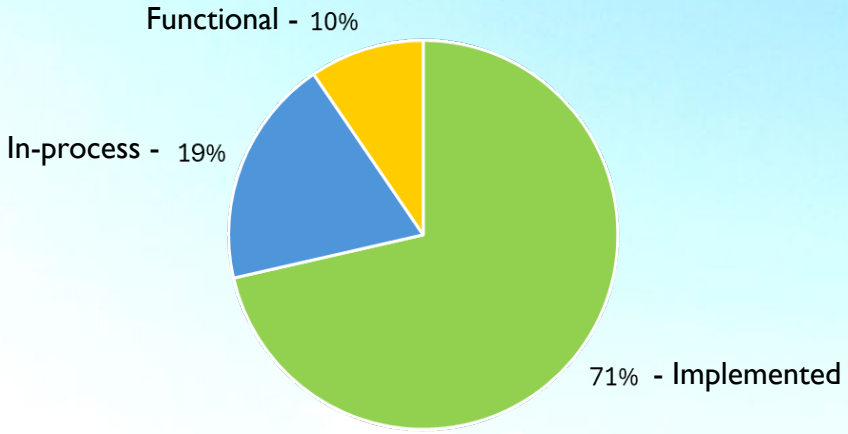


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WHAT WE HAVE ACCOMPLISHED SO FAR…

The Kern Subbasin is prioritizing Demand Management

Completed Implementation of 71% of Planned Demand Reduction PMAs



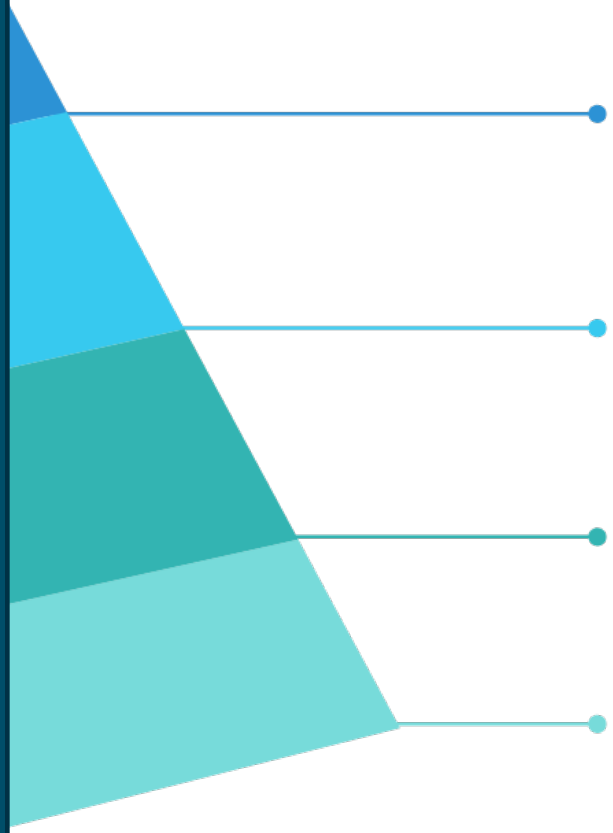
Achieved 31% of the Planned Demand Reduction Goal by WY 2024



Category	Cumulative Benefit Through WY 2024	
	Acre-feet	Acres
WY 2024 Demand Reduction		
Land Retirement	29,630	16,780
Demand Reduction	80,880	n/a
Ag to Urban Conversion	2,770	1,030
Water Conservation Efficiency	230	n/a
Subtotal:	**113,510**	**17,810**

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2025 Plan implementation includes **multiple layers of protection** for beneficial users



Protective Sustainable Management Criteria

Based on impact analyses and protection of most vulnerable users

Projects & Management Actions

Policies and projects to drive water management actions in the direction of the sustainability goal

Exceedance Policies

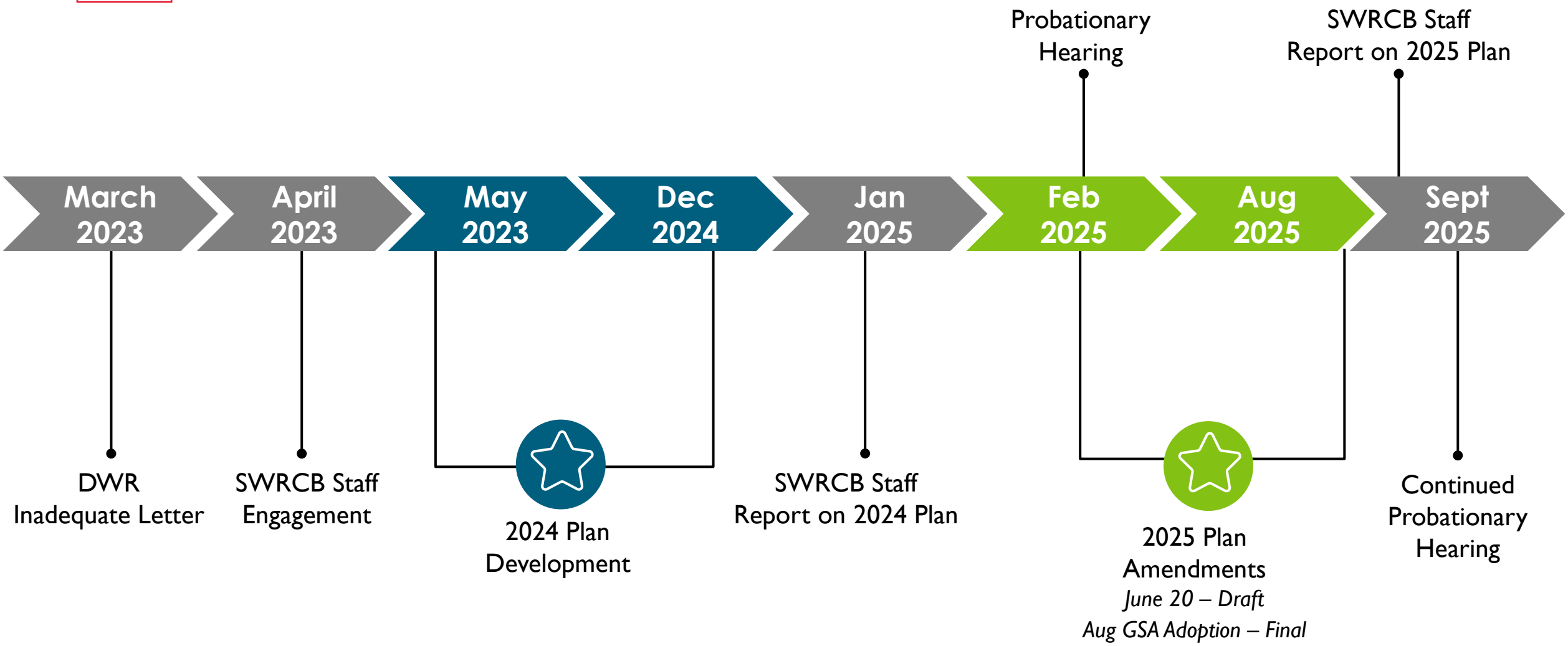
Actions to respond when minimum thresholds are exceeded to proactively avoid an undesirable result

Well Mitigation Program

Safety net to address individual impacts that may occur on the path to sustainability

SWRCB CONSULTATION TIMELINE

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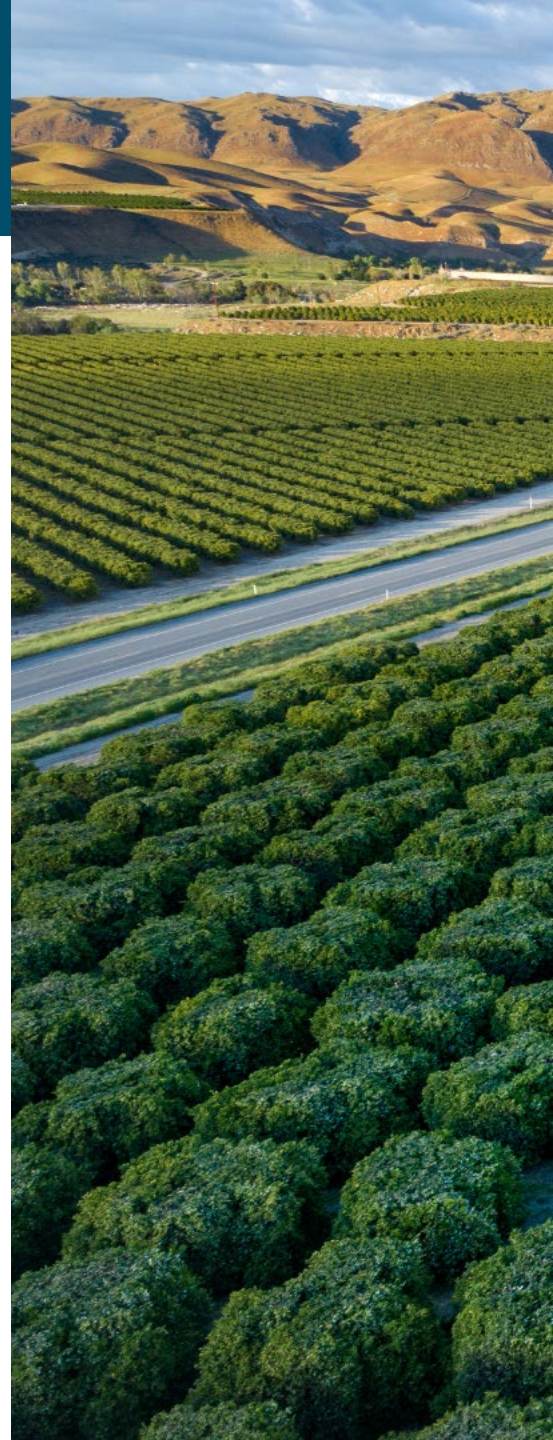


14 *SWRCB Staff Technical Meetings +* ***30*** *Weekly Policy Check-Ins*

SWRCB STAFF REPORT ON 2024 PLAN

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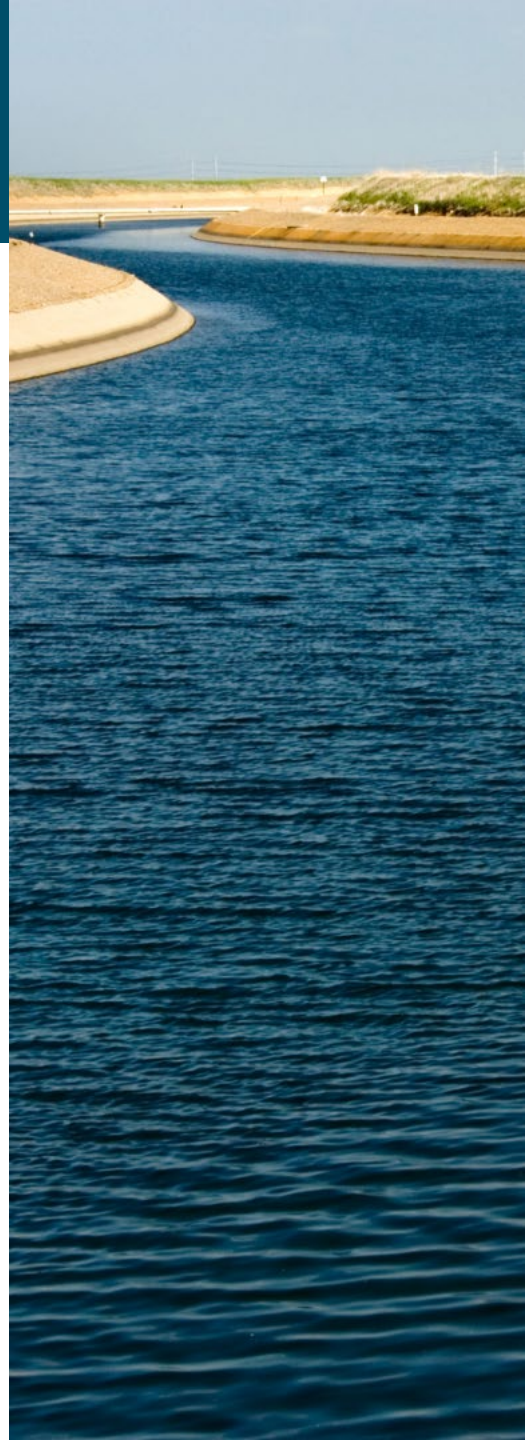
- Staff acknowledged that several prior (DWR and Draft SWRCB) deficiencies and additional actions were addressed in the 2024 Plan
- Final Staff Report identified additional concerns through preliminary review of the 2024 Plan
- Subsequent communications with SWRCB Staff prioritized focus areas for further refinements
  - Data gaps and incomplete information in GWL and GWQ RMS network
  - Variability in groundwater conditions may lead to localized and disproportionate impacts
  - GWQ UR may not be sufficiently protective
  - Exceedance evaluation needs to consider all GWQ driving mechanisms
  - Evaluate O&G source water pumping impacts on subsidence and include additional subsidence mitigation details



KERN SUBBASIN COMMITMENT LETTER 1/20/2025

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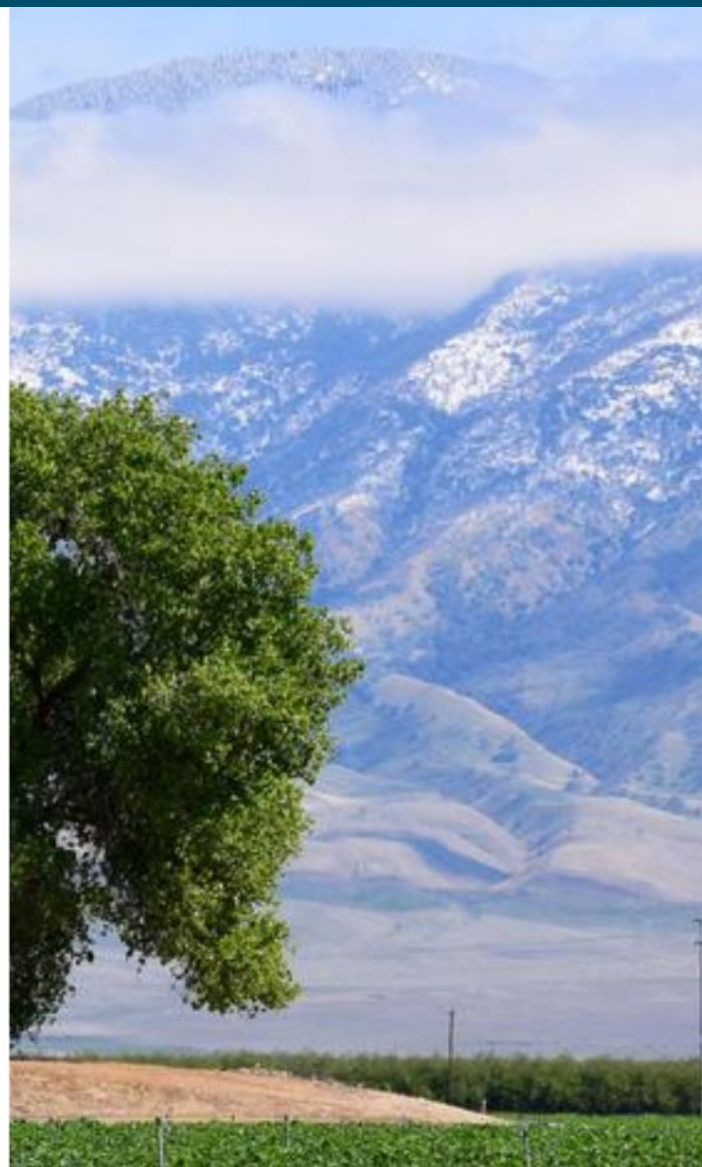
- Improve and expand the Representative Monitoring Networks (RMN) and share additional pertinent well construction and water level data for wells in the RMN to address local variations
- Enhance the Water Level Sustainable Management Criteria (SMCs)
  - Address remaining anomalous data issues that may be locally influencing SMCs
  - Refine Undesirable Results definition for additional protections
  - Raise Minimum Thresholds, as applicable, to address potential local impacts/risks to beneficial uses/users
  - Increase the Mitigation Program funding amount
- Revisit Water Quality SMCs Undesirable Results definition to be even more protective of beneficial uses/users
- Address remaining comments provided by SWRCB Staff on Subsidence



SWRCB BOARD MEMBER DIRECTION AT HEARING

DRAFT

- Hearing Continued to September 17, 2025, giving additional time for:
  - Kern Subbasin to rectify remaining deficiencies and submit revised Plan to SWRCB Staff by June 20, 2025
  - SWRCB Board Members and Staff to evaluate and consider revised draft Plan in advance of the continued hearing
- GSAs to enhance community outreach and engagement by working with local community groups for additional outreach in making and adopting revisions to the Plans, prioritizing outreach to customers of drinking water systems



SWRCB STAFF COMMENTS DURING ONGOING PLAN REVIEW

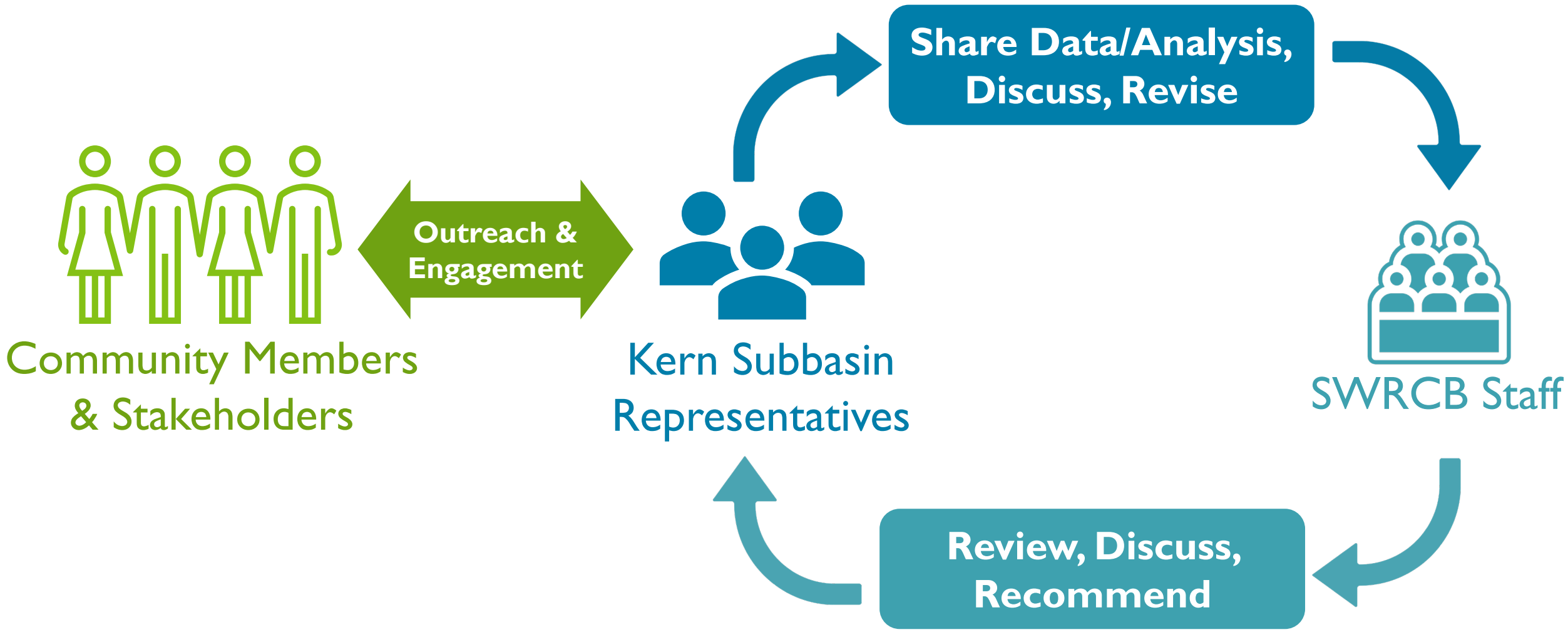
DRAFT

- Kern Subbasin continued to meet with and collaborate with SWRCB on their review of the Plan
- Kern Subbasin worked diligently with Staff to **meet all prior commitments and address additional** requests by Staff
- Additional requests by Staff included:
  - Local groundwater level adjustments within GSAs
  - Groundwater quality MT data/methodology
  - Groundwater quality implementation/exceedance/mitigation details
  - Storage calculation refinements
  - Subsidence exceedance/implementation details
  - Mitigation of State Small Water Systems



SWRCB STAFF COLLABORATIVE PROCESS

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Subbasin Coordination & Consistency

SWRCB STAFF COLLABORATIVE PROCESS OUTCOMES

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- ✓ Consensus on GWL/GWQ Data Gaps
- ✓ Consensus on GWL MTs Methodology
- ✓ Consensus on GWQ MTs/URs
- ✓ Mutual understanding of GWQ Implementation and Mitigation
- ✓ Resolved pending Subsidence Concerns
- ✓ Extensive Stakeholder and Community Outreach and Engagement





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2025 PLAN REVISIONS

Commitments	Outcomes
Improve and expand the Representative Monitoring Networks	✓ **Expanded** Groundwater Level Monitoring Well Network ✓ **Expanded** Groundwater Quality Monitoring Well Network
Enhance the Water Level SMCs	✓ **Revised** Groundwater Level Minimum Thresholds
Revisit Water Quality SMCs & Undesirable Results definition	✓ **Revised** Groundwater Quality Undesirable Results Definition ✓ **Revised** Groundwater Quality Minimum Thresholds ✓ **Expanded** Groundwater Quality Mitigation Program
Clarify Water Quality Exceedance Implementation	✓ **Developed** Groundwater Quality Implementation Provisions
Address remaining comments on Subsidence	✓ **Improved** Subsidence Action Plan

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DATA GAPS & MONITORING

Commitment	2025 Plan Revision
Improve and expand the Representative Monitoring Networks to be more protective of groundwater beneficial use/users	✓ Adding up to 10 additional monitoring wells including 7 shallow wells for a total of up to **197 GWL monitoring wells** ✓ Adding up to 30 additional monitoring wells for a total of up to **82 GWQ monitoring wells**

REVISIONS…

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Add new monitoring sites for groundwater level and quality



Expand notification protocols to notify domestic well owners of nearby notable changes in groundwater quality



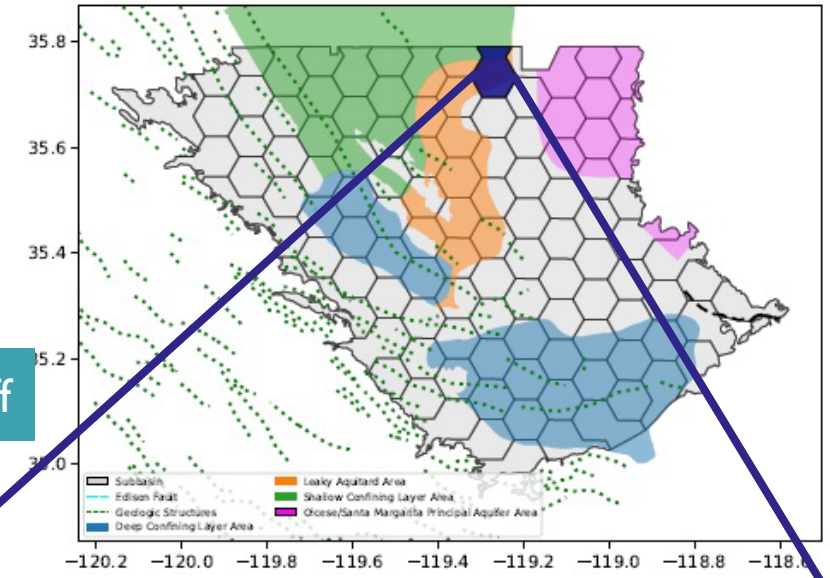
Fill data gaps to improve future analyses and decision-making

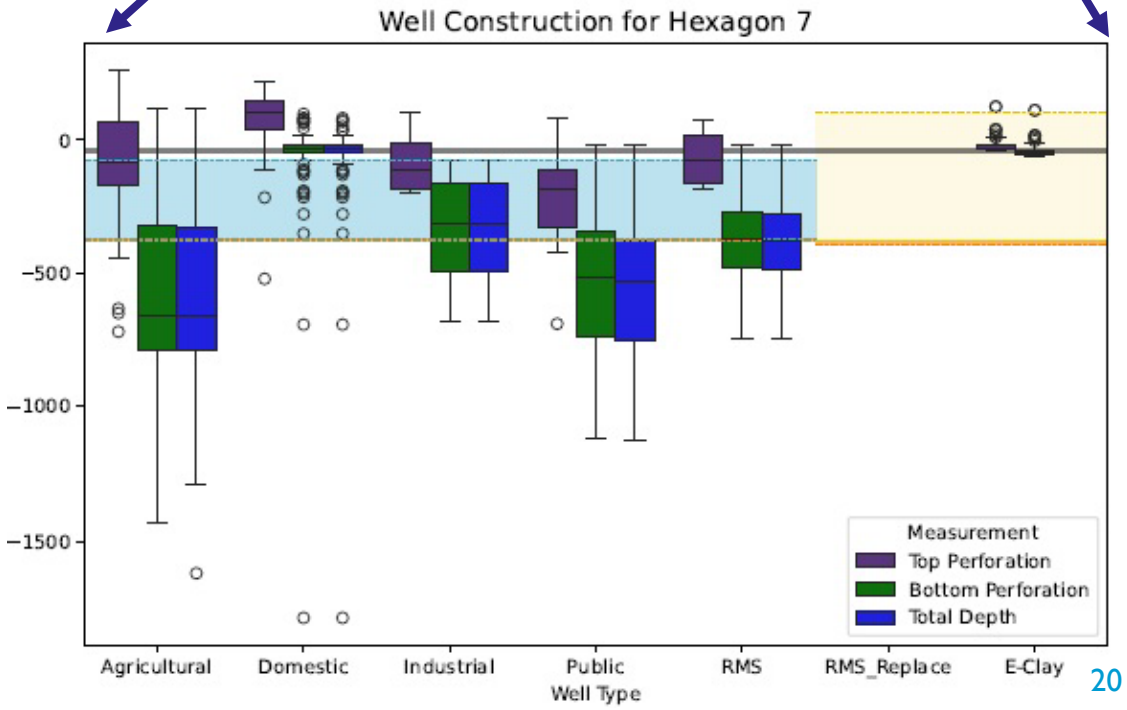
ROBUST DATA GAPS ANALYSIS

DRAFT

- Spatial and Vertical Analysis
- Vertical statistical analysis compared monitoring well screen intervals to domestic and agricultural wells within 25-mi^2 hexagons
- Exceeds typical GSP methodology – supports confidence in monitoring network representativeness
- Comprehensive coverage achieved

SWRCB Staff





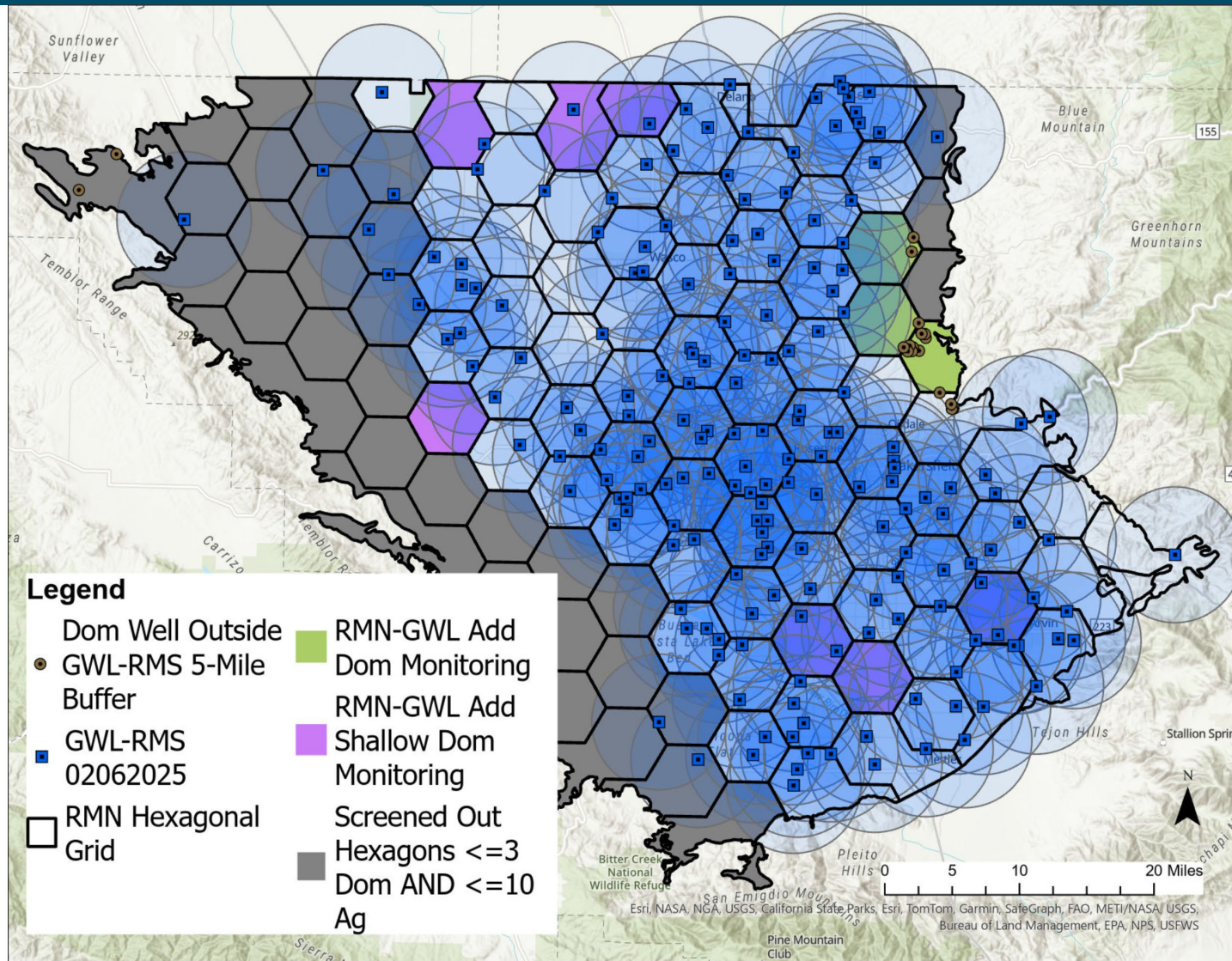
EXPANDED GROUNDWATER LEVEL MONITORING NETWORK

DRAFT

- ✓ ***2025 Plan Revision:*** Adding up to 10 additional monitoring wells including 7 shallow wells for a total of up to **197 GWL monitoring wells**

- ✓ **99%** of domestic wells represented by the monitoring network

2024 Plan had 187 GWL Representative Monitoring Wells



GWL: Groundwater Level(s)

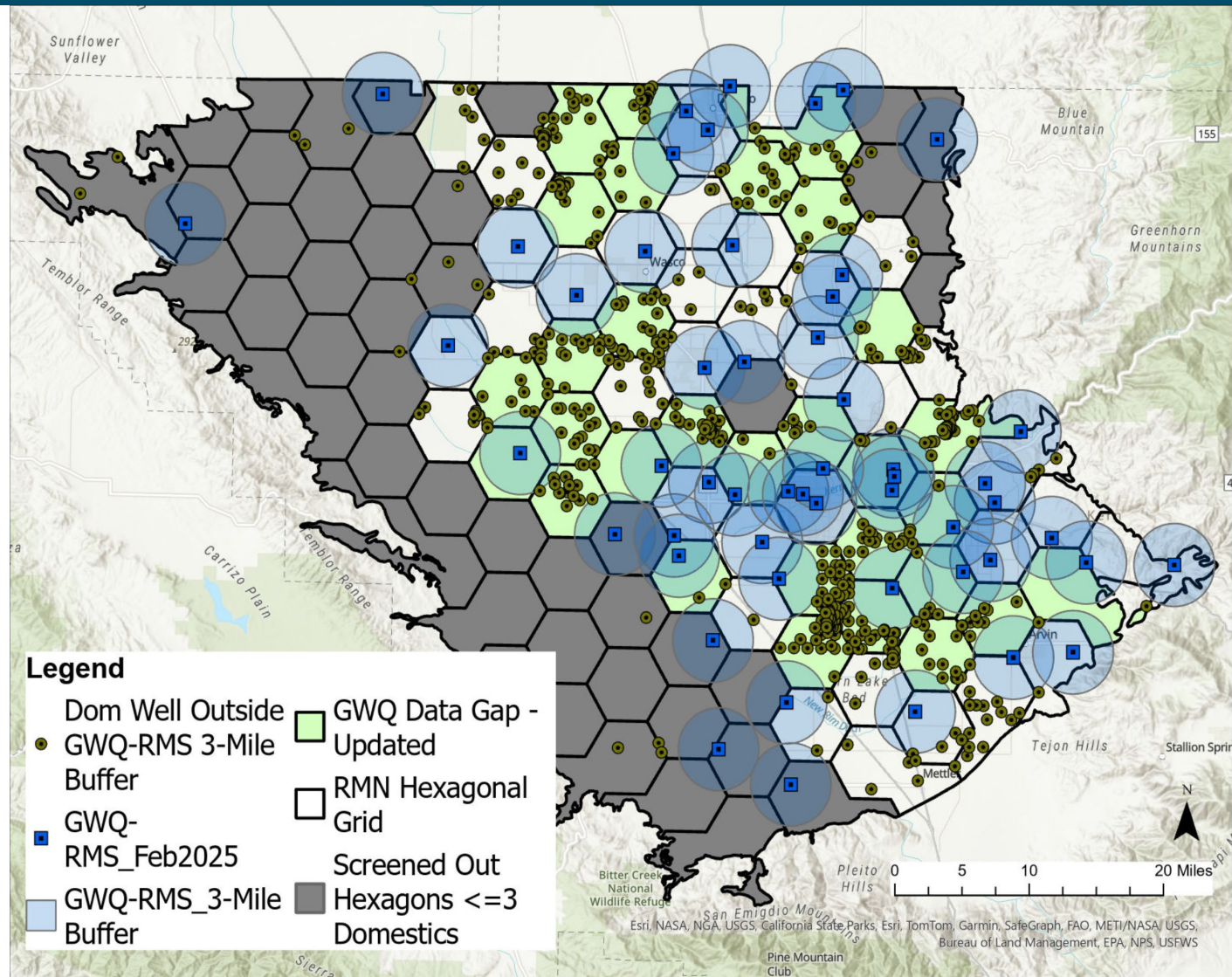
EXPANDED GROUNDWATER QUALITY MONITORING NETWORK

DRAFT

- ✓ ***2025 Plan Revision:*** Adding up to 30 additional monitoring wells for a total of up to **82 GWQ monitoring wells**

- ✓ **95%** of domestic wells represented by the monitoring network

2024 Plan had 52 GWQ Representative Monitoring Wells



GWQ: Groundwater Quality

PROGRESS ON EXPANDING MONITORING NETWORK

DRAFT

We are here

Identified Data Gaps ✓

IMPLEMENTATION

Well Inventory updates including field validation of domestic wells

Identify existing wells for monitoring & formalize access agreements

By December 31, 2025

If no existing wells to fill data gap, **construct new monitoring well(s)**

By December 31, 2026

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GROUNDWATER LEVELS

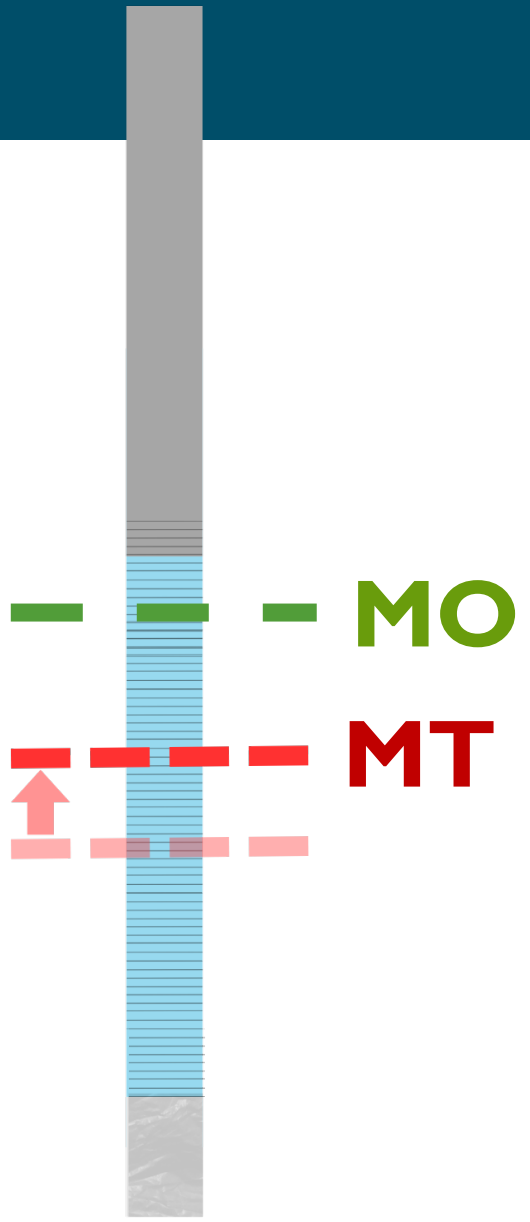
Commitment	2025 Plan Revision
Enhance the Water Level SMCs to be more protective of local impacts and beneficial use/users	✓ Raised MTs at 35 representative monitoring wells ✓ Assessed potential impacts ✓ Expanded definition of Undesirable Results

REVISED GROUNDWATER LEVEL MINIMUM THRESHOLDS

DRAFT

Raised MTs at **35** representative monitoring wells:

- ✓ **13 to 112 feet higher** at 4 RMWs after adjustments for data anomalies ➡ ***locally more protective***
- ✓ **10 to 61 feet higher** at 6 RMWs in consideration of regional clay layer ➡ ***minimizes future land subsidence and degraded water quality***
- ✓ **5 to 30 feet higher** at 25 RMWs based on SWRCB feedback ➡ ***locally more protective***

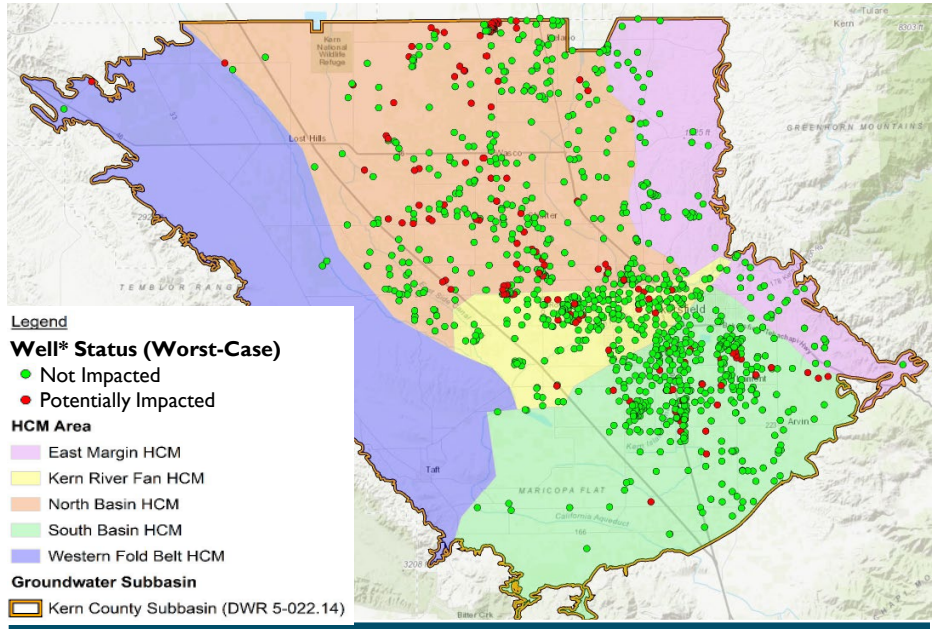


Not drawn to scale

2025 PLAN IS EVEN MORE PROTECTIVE OF DRINKING WATER WELLS

DRAFT

- Analysis shows that approximately 40-50 drinking water wells* may be potentially impacted under an average GWL scenario with 25% MT exceedances
  - Some of the potentially impacted wells are already undergoing consolidation
  - GSAs committed to mitigating post-SGMA dry wells due to groundwater management activities
  - Subbasin-wide "Undesirable Results" would be declared if more than 15 domestic wells reported dry in any given year



Count of Potentially Impacted Drinking Water Wells*

Worst-Case	High-End Bracket	Average Stochastic
All RMWs	25% RMWs	25% RMWs
184	165	42 to 47

**Classified as domestic, small community, or municipal in the Subbasin's February 2025 Well Inventory*

RMW: Representative Monitoring Well

EXPANDED GROUNDWATER LEVELS UNDESIRABLE RESULTS DEFINITION

DRAFT

An undesirable result occurs when..

1. At least 25% of GWL Representative Monitoring Wells exceed MTs over a single year (i.e. two consecutive seasonal measurements); **or**

2. More than 15 domestic wells are reported as dry in a single water year
   More than 255 cumulative domestic wells are reported dry by 2040; **or**

3. GSA is unable to meet well mitigation needs.

DRAFT

LAND SUBSIDENCE

Commitments	2025 Plan Revision
Clarify Action Plan for Land Subsidence	✓ Clarified actions to take when an interim milestone or MT exceedance occurs
Add subsidence mitigation details	✓ GSAs to fund Friant-Kern Canal liner raise needed due to post-2020 Subsidence ✓ Committed to studies to identify all root-causes of subsidence along CA Aqueduct, and support future mitigation approach determination
Evaluate Potential Impacts by Oil & Gas Source Water Wells	✓ Reported volumes are low (<0.02% of Kern Subbasin pumping), typically utilized for oilfield activities overseen by CalGEM

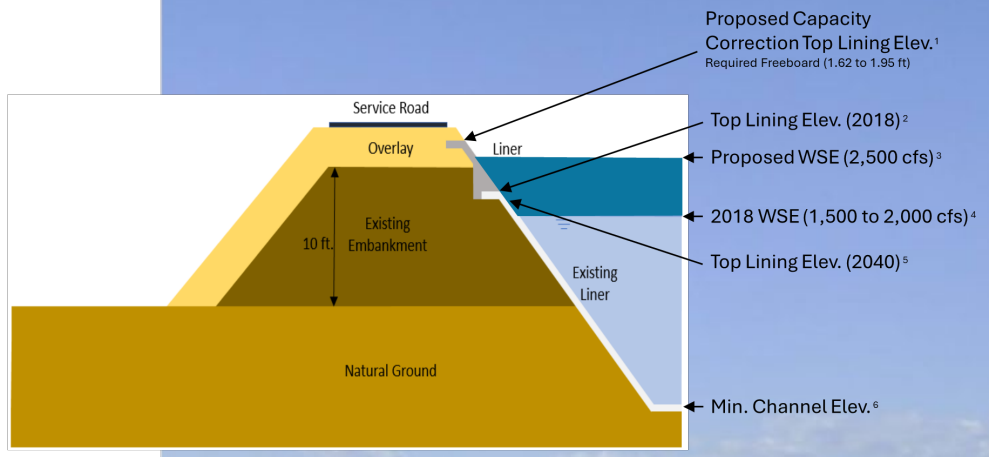
DRAFT IMPROVED SUBSIDENCE ACTION PLAN

- Kern Subbasin Subsidence Action Plan is data driven
- Outlines the **five-step process** to be implemented when a **single** IM or MT exceedance occurs for Subsidence over two consecutive quarters of monitoring
- Extended Subsidence Action Plan to:
  - Identify specific standardized criteria for protocols, actionable timelines, and proposed Project and Management Action (P/MA) responses will incorporate applicable final DWR subsidence best management practices expected late 2025
  - Will update P/MAs (including Mitigation Alternatives, as needed) once California Aqueduct Subsidence Program (CASP) finalizes Long-Term Rehabilitation Program
  - Assess and report changes in subsidence trends to proactively identify and address IM/MT exceedances



CLARIFIED DRAFT FKC SUBSIDENCE MITIGATION DETAILS

- Stand-alone Subsidence Mitigation Program for the Friant Kern Canal (FKC)
  - GSAs Responsible for Liner Raise to Address Post-2020 Subsidence due to GSA Activities
  - Preliminary cost estimates (~$40M) being developed in coordination with Friant Water Authority (FWA)
  - Close Coordination and Data Sharing with FWA



FKC: Friant-Kern Canal
FWA: Friant Water Authority

EXPANDED SUBSIDENCE APPROACH ALONG CA AQUEDUCT

DRAFT

- Will revise the 2025 Plan to incorporate final DWR Subsidence Best Management Practices (BMPs)
- Further studies to identify root causes of Aqueduct subsidence in collaboration with CASP/DWR and other stakeholders
- Continued close coordination/data sharing with CASP - Quarterly check-ins to review land subsidence trends against SMCs
- Future Aqueduct mitigation to be coordinated with CASP once long-term rehabilitation strategy is finalized



EVALUATED POTENTIAL IMPACTS BY OIL & GAS SOURCE WATER WELLS

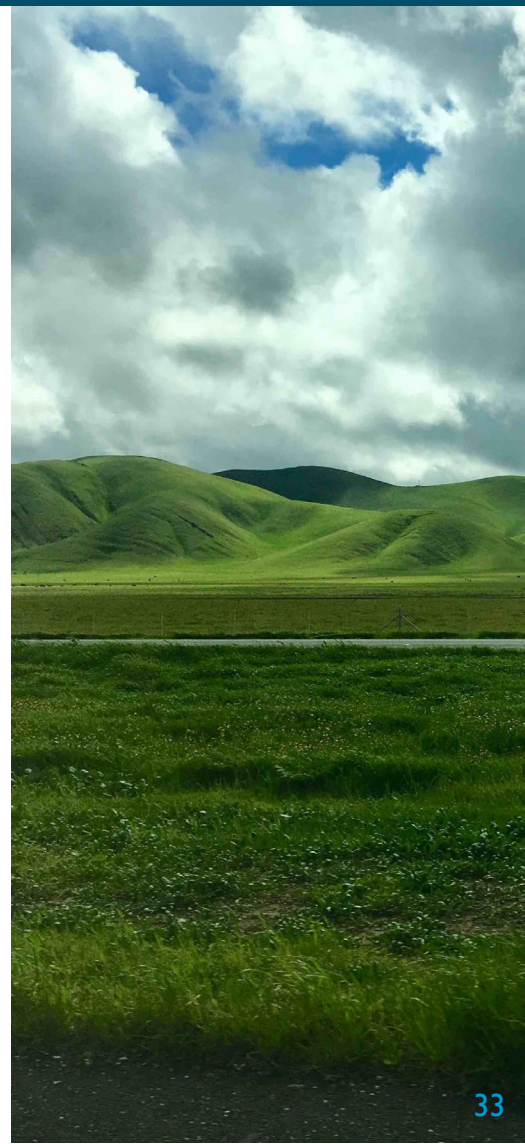
DRAFT

- 3 active source water wells in non-EPA-exempt areas within the Kern Subbasin (7 in EPA-exempt)
  - Oil & Gas source water pumping typically occurs on as needed basis (not continuous)
  - Volumes are typically low with significant drops in recent years (~250 AFY from 2020-2025, <0.02% of Kern Subbasin pumping)
  - Typically utilized for oil field activities overseen by CalGEM
  - Poor Water Quality – typically entrained with oil/high TDS etc.

ACTIVE GROUNDWATER MANAGEMENT TO MINIMIZE SUBSIDENCE

DRAFT

- Raised groundwater level MTs in several areas to minimize future subsidence
- Stabilizing groundwater levels by 2030 to minimize subsidence by 2040
- Implementing P/MAs to avoid or minimize subsidence, for example:
  - WDWA GSA Water **Pumping Moratorium** adjacent to California Aqueduct
  - Wheeler Ridge-Maricopa GSA implemented significant **Pumping Surcharges**
  - Semitropic GSA **Demand Management**
- Extensive data collection and monitoring of groundwater levels and subsidence
- On-going Basin Study to better model/characterize groundwater level and subsidence relationship



WDWA: Westside Districts Water Authority Groundwater Sustainability Agency

GROUNDWATER QUALITY

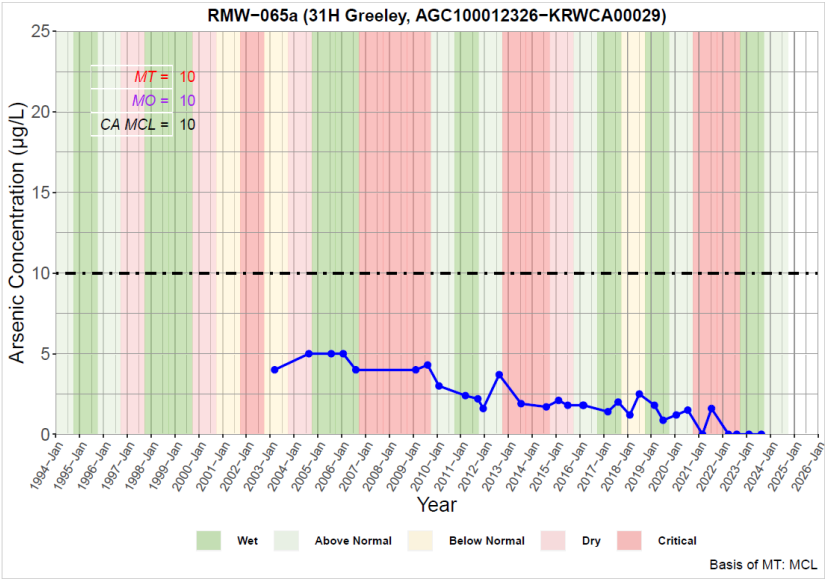
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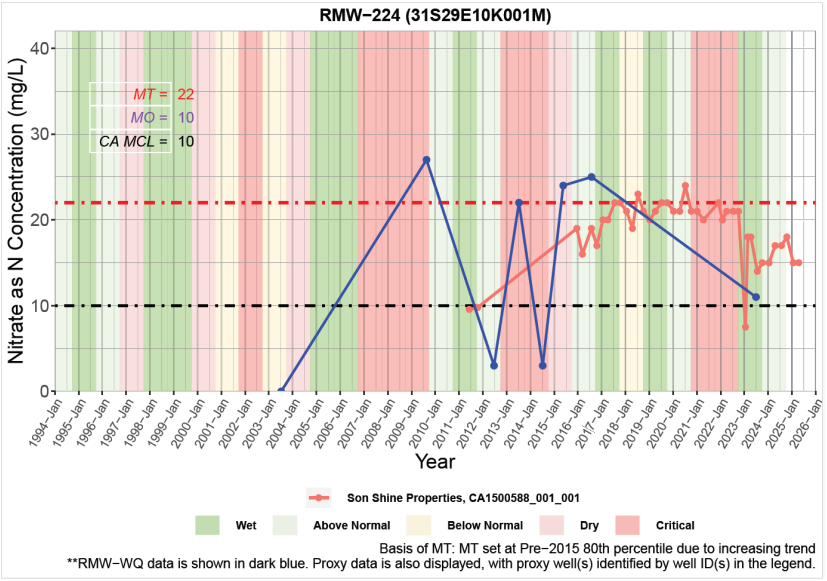
Commitment	2025 Plan Revision
Revise Minimum Thresholds to be even more protective of beneficial use/users	✓ 93% of GWQ MTs set at the Water Quality Objective
	✓ Updated MTs Exceedance Policy and Action Plan for Degraded Water Quality
Revise/expand definition of Undesirable Result	✓ Revised UR definition to be more conservative and protective of domestic wells, including mitigation backstop
Expand Mitigation Program	✓ New Mitigation Program Track for Degraded Water Quality
Clarify Groundwater Quality Exceedance/Implementation details	✓ Notification Process for exceedances of Primary Maximum Contaminant Levels at Monitoring Network Groundwater Quality Wells
	✓ New Degraded Water Quality Implementation Provisions

REVISED GROUNDWATER QUALITY MTs

DRAFT

- 6 Constituents of Concern (COCs)
  - Arsenic
  - Nitrate and Nitrite
  - Total Dissolved Solids
  - 1, 2, 3-Trichloropropane
  - Uranium
- MTs are set as close to the Water Quality Objective as practical and were adjusted in consideration of baseline concentrations based on best available data, including additional nearby wells
- **93%** of GWQ MTs set at the Water Quality Objective





GWQ: Groundwater Quality
MT: Minimum Threshold

REVISED GROUNDWATER QUALITY UNDESIRABLE RESULTS DEFINITION

DRAFT

An undesirable result occurs when..

1. Subbasin-wide, 15% of RMW-WQ exceed the MT for COCs per water year based on confirmed sample and MT Exceedance investigation results ; ***or***

2. Annually, 5 percent of domestic wells have an assumed MT Exceedance based on radius of influence analysis around the RMW-WQ that exceeds the MT,

   Cumulative maximum of 15 percent of domestic wells through 2040; ***or***

3. GSA is unable to meet well mitigation needs.

ADDED DEGRADED WATER QUALITY IMPLEMENTATION PROVISIONS

DRAFT

- Compilation, summary and explanation of all 2025 Plan provisions related to Degraded Water Quality
- Four Parts:
  1. Summary of Degraded Water Quality SMCs and COCs
  2. Stakeholder Roles, Responsibilities and Coordination
  3. Implementation of SMCs for Degraded Water Quality
  4. Public Notification and Mitigation for Degraded Water Quality

EXPANDED DRAFT DEGRADED WQ ACTION PLAN

- Trigged if sample results from the twice annual monitoring exceed water quality objective (WQO) and/or Minimum Threshold (MT) for any COC at the RMW-WQ.
- The Kern Subbasin data management system notifies all GSAs of the exceedance, including location and date.
- Once notified of WQO or MT exceedance, the relevant GSA(s) will take the following steps:

Step 1: Confirm Result

- Review results
- Re-sample RMW-WQ
- Document well condition

If confirmed result exceeds Nitrate WQO

If confirmed result exceeds MT

Step 2: Notification for Nitrate

- Identify well owners within approx. 3-mile radius
- Send direct mail notice within 30-days re: RMW-WQ exceedance, potential health impacts
- Notice re: Kern Water Collaborative program for testing and alternative drinking water

Step 3: Exceedance Investigation of MT

- Independent, qualified professional
- Considerations: location of wells, land use, local geology, GSA operating conditions, well construction, hydrographs, chemographs, constituent source and actions due to others, historical water quality, GSAs operations, statistically significant correlations, recharge operations, source water, driving mechanisms, outside contributing factors
- Document investigation and conclusions
- Identify if MT exceedance is due to GSA groundwater management activities

Step 4: Notification for Non-Nitrate COCs

- Identify well owners within approx.. 3-mile radius
- Send direct mail notice 1 if MT exceedance is due to groundwater management activities
  - Notice of exceedance
  - Assumed well impacted
  - Potential public health impacts
  - Information re: process for submittal of an Application for Mitigation
- Send direct mail notice 2 if MT is not due to groundwater management activities
  - All of the above, except general information re: resources for well-testing rather than Application for Mitigation

Step 5: Evaluate and Initiate Projects or Management Actions

- Initiate P/MAs as appropriate

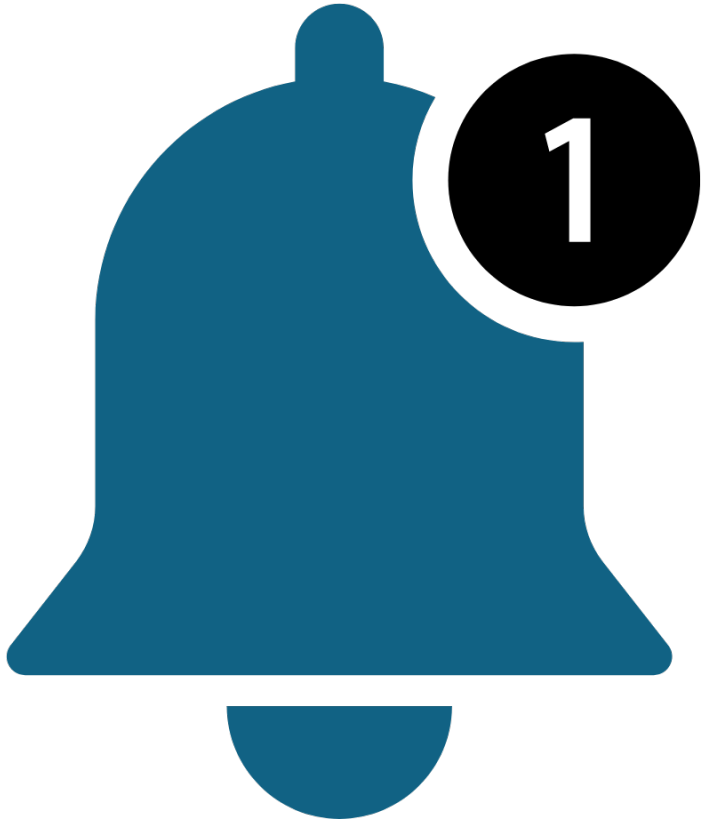
Step 6: Report to Coordination Committee

- Submit Exceedance Report from Step 3 within 60 days of sample confirmation
- Document notifications mailed & Findings of Investigation Report
- Include recommendations for P/MAs as appropriate

NEW DRAFT DOMESTIC WELL OWNER NOTIFICATIONS

- New policy to notify nearby (~3-mile radius) domestic well owners of Water Quality Objective/MT Exceedance(s)

- Provide information regarding: Well Testing and Mitigation Programs *(Kern Water Collaborative, Self- Help Enterprises, Well Mitigation Program)*
  - GSA-funded testing when groundwater management activity identified as potential cause of MT exceedance



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Groundwater Quality Monitoring Wells Notification and Investigation Process

If confirmation sample results are **below the Water Quality Objective** based on Maximum Contaminant Level

- No Action

If confirmation sample results **exceed nitrate Water Quality Objective** based on MCL

- Identify domestic well owner(s) within 3-mile radius
  - Send notification of Groundwater Quality Monitoring Well exceedance and explain potential health impacts
  - With notification, provide resources with respect to Kern Water Collaborative groundwater quality well testing program

If confirmation sample results **exceed** the Water Quality Objective for **a COC other than nitrate,** based on **MCL** or **Minimum Threshold**

- Evaluate results to determine if caused by groundwater management activities
  - Identify domestic well owner(s) within 3-mile radius
    - **If caused by groundwater management activities**, notify domestic well owner(s) of exceedance at a nearby representative well, including health effects language with referral to the mitigation program.
    - If **not caused** by groundwater management activities, notify domestic well owner(s) of exceedance at a nearby representative well, including health effects language with resources for laboratories and sampling

Kern Water Collaborative now covers the entire Subbasin

NEW NOTIFICATION PROCESS FOR GWQ MONITORING NETWORK

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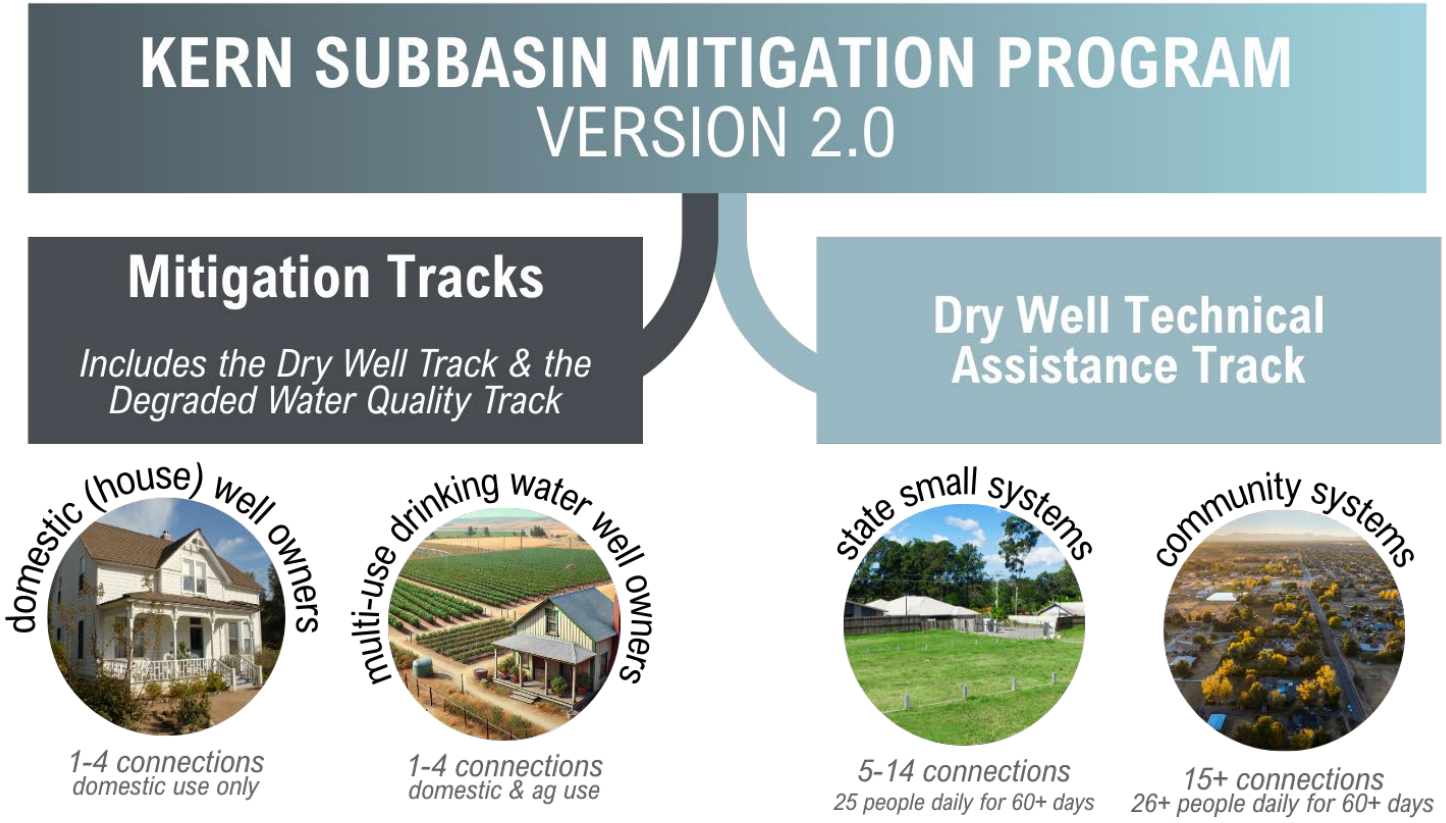
WELL MITIGATION PROGRAM

Commitment	2025 Plan Revision
Expanded elements of groundwater quality mitigation	✓ New Degraded Water Quality track for domestic wells
	✓ Clarifies how notification and exceedance policy integrate into the Well Mitigation Program
Clarification added in response to SWRCB Staff and community member feedback	✓ Revised clarity on well type definitions and program applicability
	✓ Consideration of new Funding Assistance Track for State Small Water Systems

WELL MITIGATION PROGRAM, VERSION 2.0

DRAFT

- Revised terms and references to the types of systems that are eligible for consistency with Health and Safety Code definitions
  - Clarified Dry Well Mitigation Track for domestic wells and multi-use used for drinking water
  - Clarified Dry Well Technical Assistance Track for Community Water Systems and State Small Water Systems
- Added specific Degraded Water Quality Mitigation Track for domestic wells and multi-use wells used for drinking water



STATE SMALL WATER SYSTEMS

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DEVELOPING A FINANCIAL ASSISTANCE FRAMEWORK FOR DRY WELLS

- Key Elements of Financial Assistance Track
  - Assistance up to $ 100,000
  - Provision of Emergency Drinking Water Supplies
  - Implementation of Financial Assistance: Case-by-Case Determination
    - Examples:
      - Third Party Contractor (e.g., Self-Help Enterprises)
      - Technical Assistance Provider assisting State Small Water System (e.g., supplement SAFER grant funding as determined appropriate to assist in delivery of long-term solution)
      - Independent contractor engaged by GSA(s)



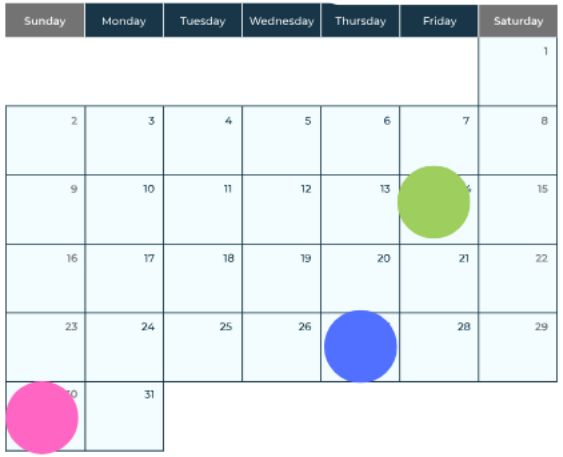
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COMMUNITY OUTREACH & ENGAGEMENT

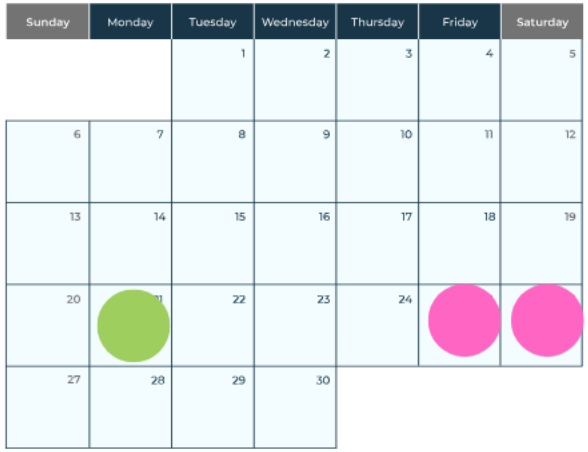
Commitment	Progress
Improve community outreach engagement	✓ 21 engagement activities since March ✓ Added and enhanced existing outreach tactics
Engage local water focused organizations	✓ Monthly Community Partner Meetings
Enhance accessibility	✓ Expanded Spanish and Punjabi accessibility ✓ Event scheduling considerate of community availability
Prioritize outreach to drinking water system customers	✓ Engaged community members at in-person at events, online via social media, and virtually via Focus Groups

DRAFT

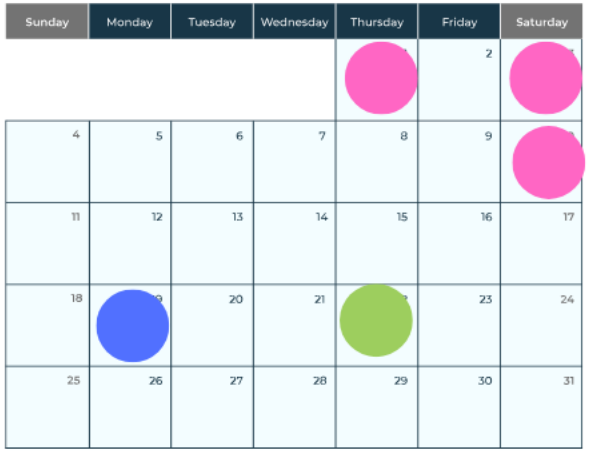
MARCH



APRIL



MAY



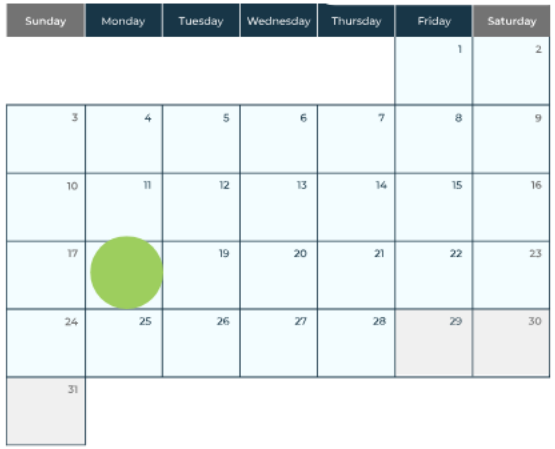
JUNE



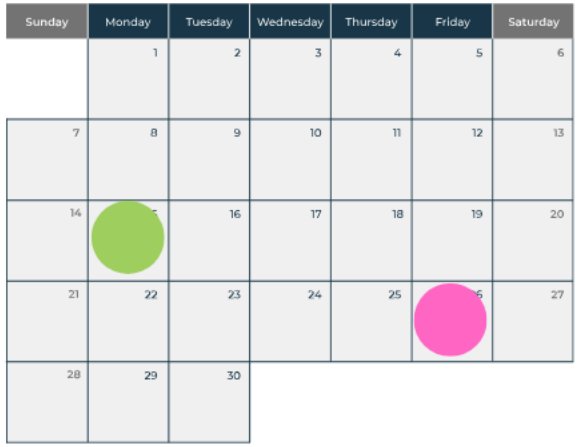
JULY



AUGUST



SEPTEMBER



7 Community Partner Meetings

4 Focus Groups

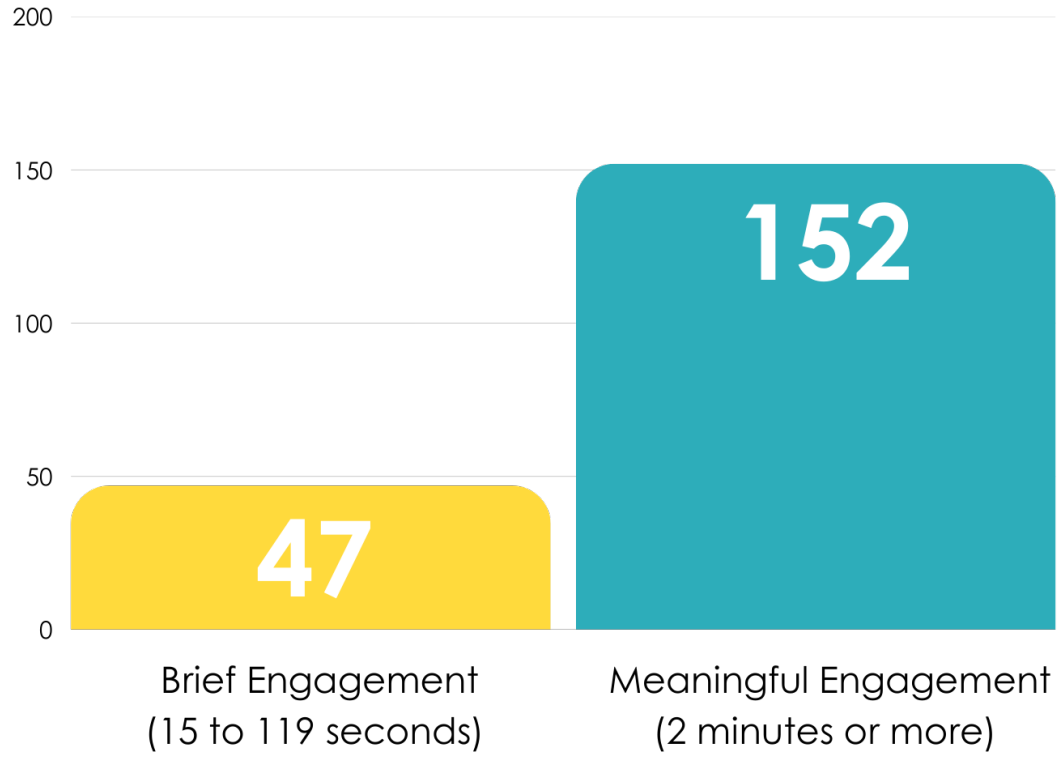
7 Community Pop-Up Events

3 GSP Workshops

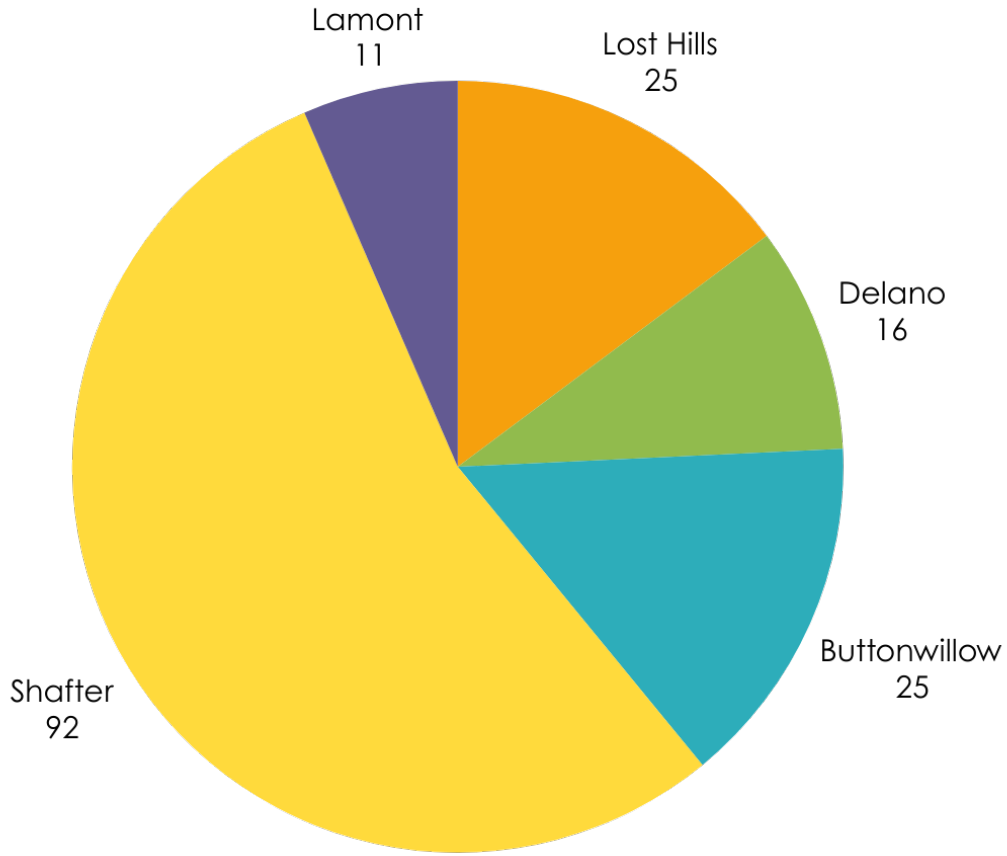
GSP Edits/Development
Public Comment Period
GSP Adoption/Implementation

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Engagement at April - May 2025 Community Pop-Up Events



Count of Survey Responses by Community Pop-Up Event

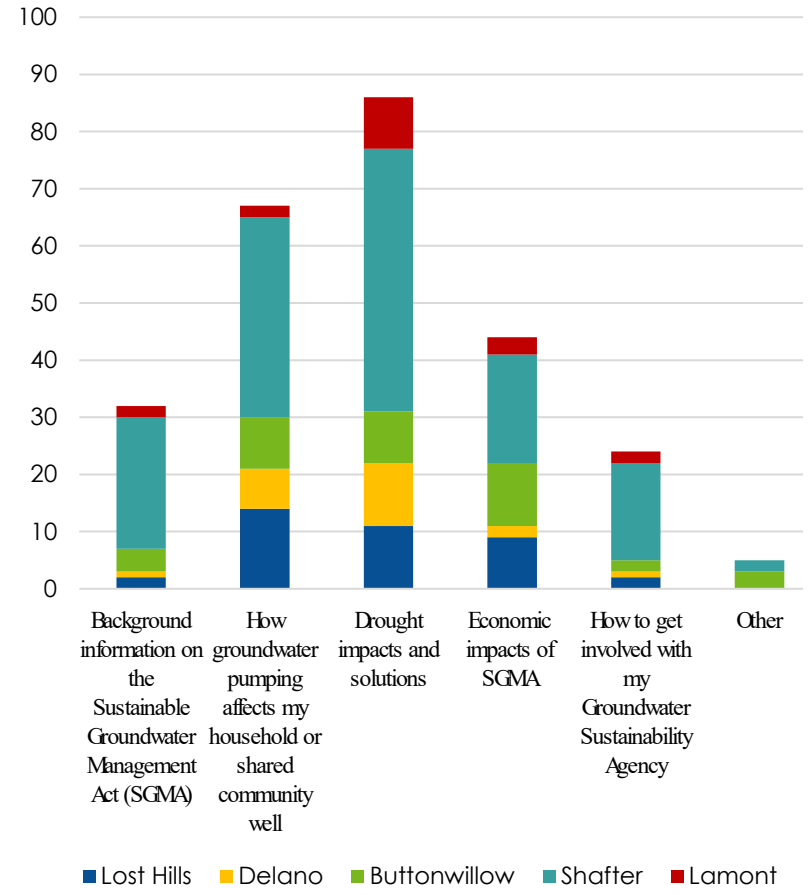


INFORMED OUTREACH & ENGAGEMENT

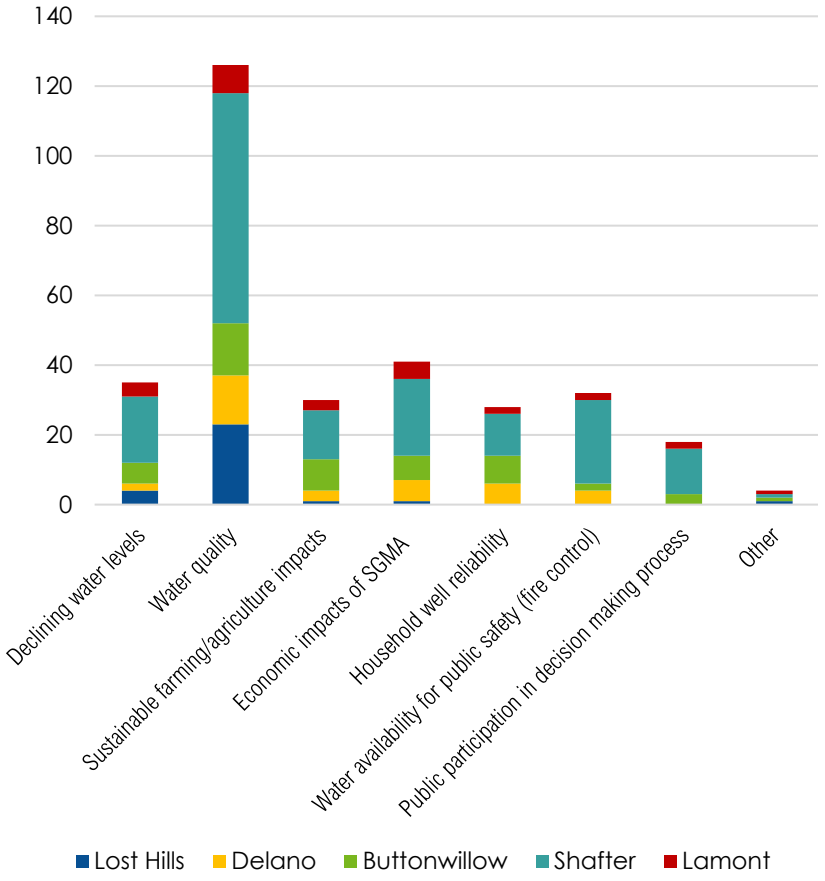
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What groundwater-related topics would you like to learn more about?

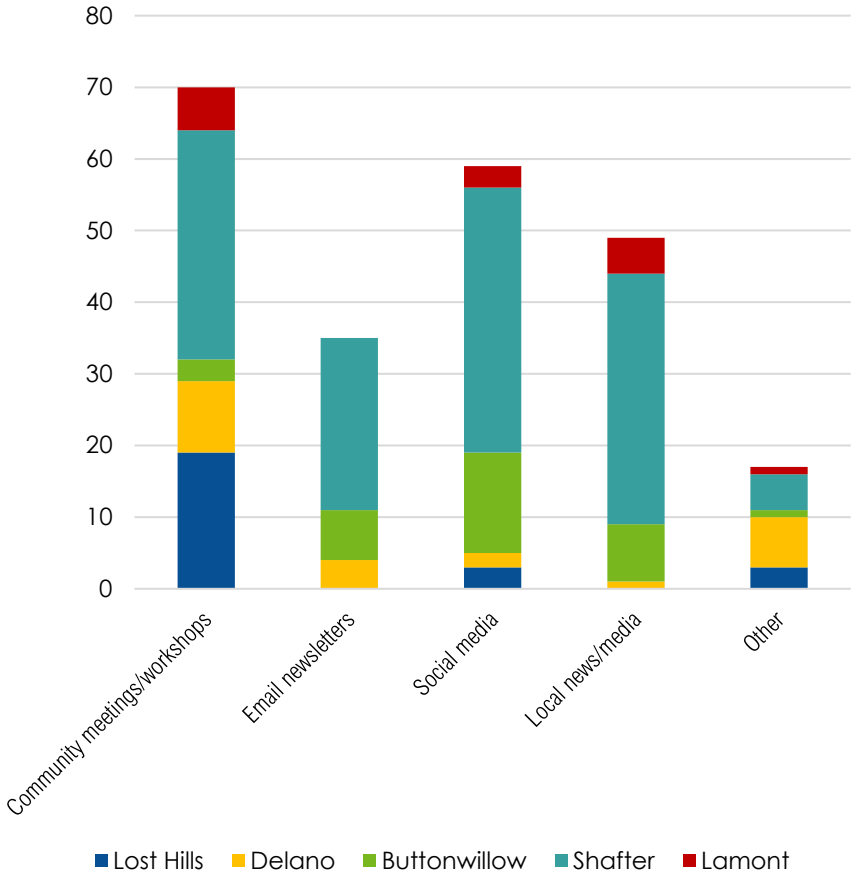
(multiple selections allowed)



What are your biggest concerns about groundwater management in Kern County? (multiple Selections Allowed)



How would you prefer to receive updates about groundwater issues? (multiple Selections Allowed)



FOCUSED OUTREACH ACTIVITIES

DRAFT

- New Facebook & Instagram accounts
- Event and informational flyers
- Interviews with local news and press releases to notify of upcoming Public Workshops and resources
- KernGSP.com updates
  - More comprehensive homepage
  - Updated 'Frequency Asked Questions' webpage
  - 'Community Resources Hub' webpage
  - 'Stay Engaged' webpage with 2025 meeting and event calendar
  - New 'Find your GSA' webpage
- & more! *See the Engagement Toolkit, Appendix F-3*



Follow the Kern Subbasin
@KernCountySubbasin

KERNCOUNTYSUBBASIN

ACCESSIBILITY CONSIDERATIONS

DRAFT

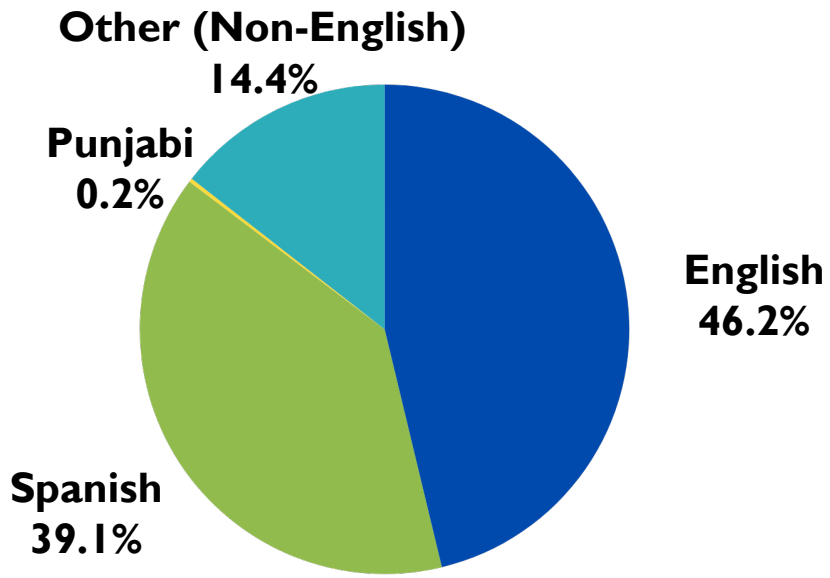
Engagement Activities

- ✓ Punjabi/Spanish interpretation available at Workshops
- ✓ Spanish interpretation available at Community Pop-Ups (based on demographic analysis)
- ✓ Community Events scheduled during existing high-traffic events
- ✓ Public Workshops scheduled on different days, evenings, with two virtual meeting options and one centrally located in-person option
- ✓ Community Pop-Up Events spread across Subbasin at different disadvantaged communities

Outreach Materials

- ✓ All event materials available in English, Spanish, Punjabi
- ✓ Website updated to include content in Spanish & Punjabi

LANGUAGES SPOKEN IN KERN SUBBASIN



COMMUNITY FEEDBACK INFORMED GSP & APPROACH

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2025 Plan Changes

- Raised minimum thresholds for groundwater levels
- Domestic well groundwater quality notification
- Increased density of groundwater level and quality monitoring network
- Clarification on well type definitions and their application in the 2025 Plan
- Updates to the Stakeholder Communication & Engagement Plan

CO&E Approach Changes

- Increased count of Community Pop-Ups
- More connection points with interested individual NGO groups
- Engaged with CWA/CCEJN to connect with community groups (instead of directly)
- Partnered with SHE to canvass in advance of Lamont's Community Pop-Up Event
- Incorporated more info in outreach approach:
  - Groundwater Quality
  - Different roles of public water suppliers vs. GSAs
  - How to find GSA
  - *& more! See Appendix 3-F*

COE: Community Outreach & Engagement
CWA: Clean Water Action
CCEJN: Central California Environmental Justice Network
SHE: Self-Help Enterprises

COMPLIANCE WITH RESOLUTION NO. 2025-0007

DRAFT

Enhance engagement & ensure drinking water system users are informed of the Plan effect on their system

- ✓ 21 engagement activities since March
- ✓ 3 Public Workshops with information of GSP effect on drinking water systems
- ✓ Social Media posts on GSP effect on groundwater users (including drinking water systems)
- ✓ Flyers distributed to public water systems and local NGOs on GSP effect on groundwater users (including drinking water systems)
- ✓ Focus group and following meetings specific to Lost Hills
- ✓ Invitation for additional community Focus Groups released in April 2025

Work with community groups to create/ implement engagement & Plan revisions

Monthly Meetings with Community Partners with focuses on:

- ✓ March: Draft COE Approach
- ✓ April: Final COE Approach
- ✓ May: Technical Draft Plan Changes
- ✓ June: Outreach & Engagement Progress Update
- ✓ July: How community feedback was incorporated into the Final GSP
- ✓ August: Changes from Draft Plan to Final Plan

Submit to SWRCB: Outreach plan by March 20, 2025 Progress update by June 20, 2025

- ✓ Submitted 2025 CO&E Plan on 3/20
- ✓ Submitted CO&E Strategy Report on 6/20
- ✓ Included in Appendix F of the 2025 Plan



CONTINUED ENGAGEMENT COMMITMENTS

DRAFT

- GSAs and several GSA member agencies hold regular public Board meetings
  - Monthly GSA Board meetings
  - GSA-specific and Subbasin-wide updates
- Future workshops and outreach events, working with existing partners
  - Community Events
  - Well Mitigation Program Workshop
  - Annual Report Workshop




Kern County Subbasin 2025 GSA Meeting & Event Schedule

Schedule as of April 13, 2025. All meetings and events are subject to change, including cancelation, rescheduling, location, and attendance options. Special Board Meetings can be scheduled if needed with a 24 hour notice to the public. Please visit the link in the "More Info" column for the most up-to-date information. Requests for accessibility-related modification or accommodation, including auxiliary aids or services, to attend or participate in this meeting should be made to the point of contact in advance of the meeting to ensure availability of the requested service or accommodation.

Community Event | GSA Board Meeting | Stakeholder Committee Meeting

Date	Start Time	Attendance	Location	Activity	More Info	Contact
Tuesday, September 23, 2025	5:30 PM	In-Person	West Kern Water District Office (800 Kern Street, Taft, CA)	West Kern Water District GSA	https://wkwd.org/about/board-meeting-agendas/	Greg Hammett ghammett@wkwd.org
Thursday, September 25, 2025	1:00 PM	Hybrid	Stuart T. Pyle Water Resources Center (3200 Rio Mirada Drive, Bakersfield, CA 93308)	Pioneer GSA	https://www.kcwa.com/	Michelle Anderson manderson@kcwa.com
Thursday, October 2, 2025	10:00 AM	In-Person	City of Bakersfield Water Resources Department (1000 Buena Vista Drive, Bakersfield, CA 93311)	Kern River GSA	http://www.kernriver.org/	Daniel Maldonado dmaldonado@bakersfieldcity.us
Wednesday, October 8, 2025	2:00 PM	Hybrid	Southern San Joaquin Municipal Utility District Office (11281 Garzoli Ave, Delano CA 93215)	Utility District GSA	https://www.ssjmud.com/	Sheridan Nicholas snicholas@jarmed.com
Wednesday, October 8, 2025	9:30 AM	Hybrid	Wheeler Ridge-Maricopa Water Storage District Office (12109 Highway 166, Bakersfield, CA 93313)	Wheeler Ridge-Maricopa GSA	https://wrmwsd.com/	Jeevan Muhar jmuhar@wrmwsd.com
Wednesday, October 8, 2025	12:30 PM	In-Person	Semitropic Water Storage District Office (1101 Central Avenue in Wasco)	Semitropic Water Storage District GSA	https://semitropic.com/	Jason Gianquinto jgianquinto@semitropic.com
Wednesday, October 8, 2025	9:00 AM	In-Person	Shafter Wasco Irrigation District Office (16326 Central Valley Hwy, Wasco, CA 93280)	Shafter-Wasco GSA	https://swid.org/	Jeevan Muhar jmuhar@wrmwsd.com

2025 GSA Meeting & Event Schedule available in Spanish, Punjabi and English at **KernGSP.com/stay-engaged/**

70+ *public GSA and GSA member agency meetings*

held during 2025 Plan Development (April – July 2025)



Thank you to all engaged Community Partners and community members

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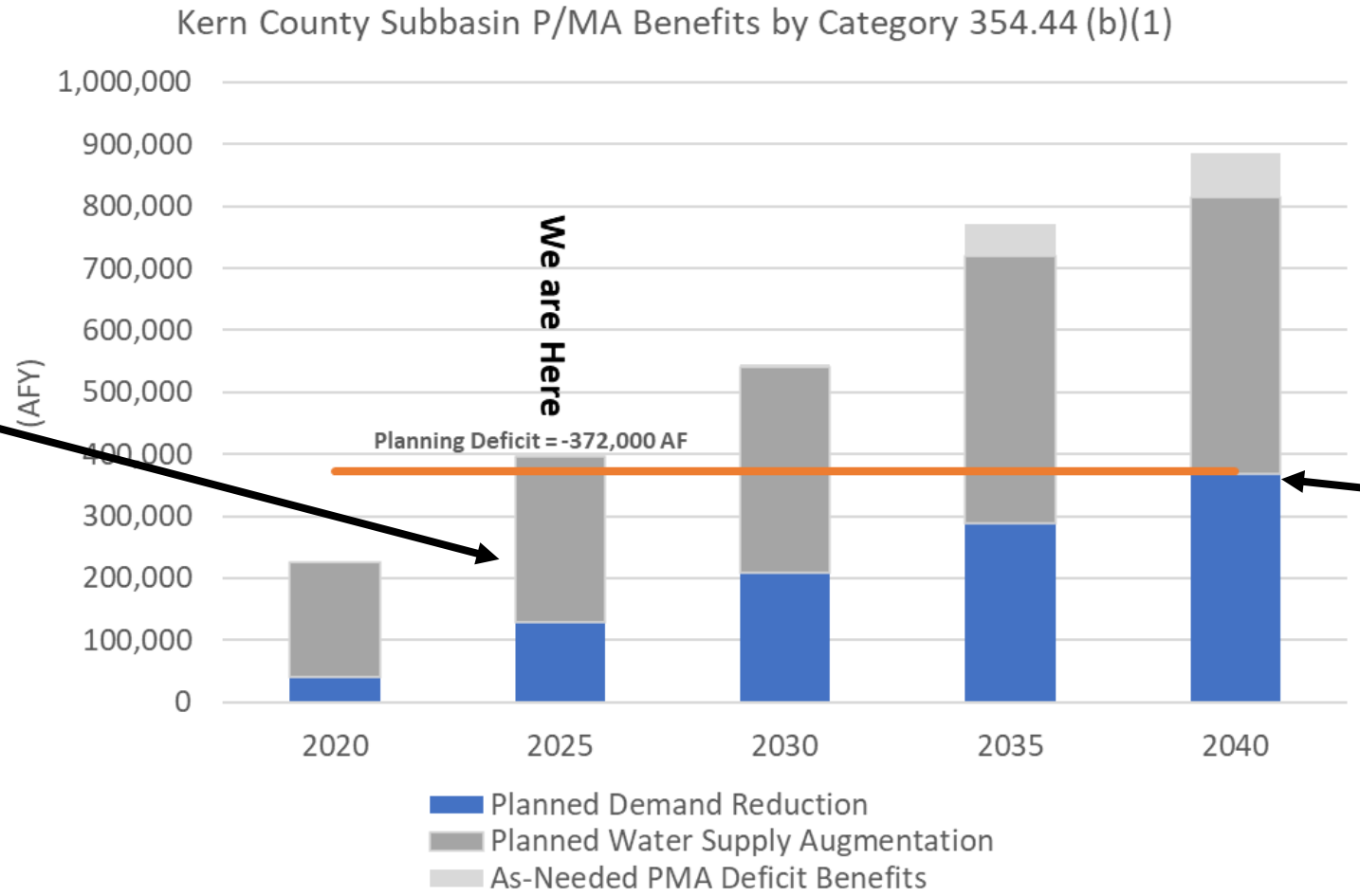
PROGRESS ON PROJECTS & MANAGEMENT ACTIONS

Commitment	Progress
Continue implementation of P/MAs while prioritizing demand management to achieve and maintain sustainability	✓ 99% of the overdraft will be corrected by **demand reduction** ✓ GSAs will be in balance if **half** the expected benefits are realized

REALISTIC P/MAS TO ACHIEVE THE SUSTAINABILITY GOAL

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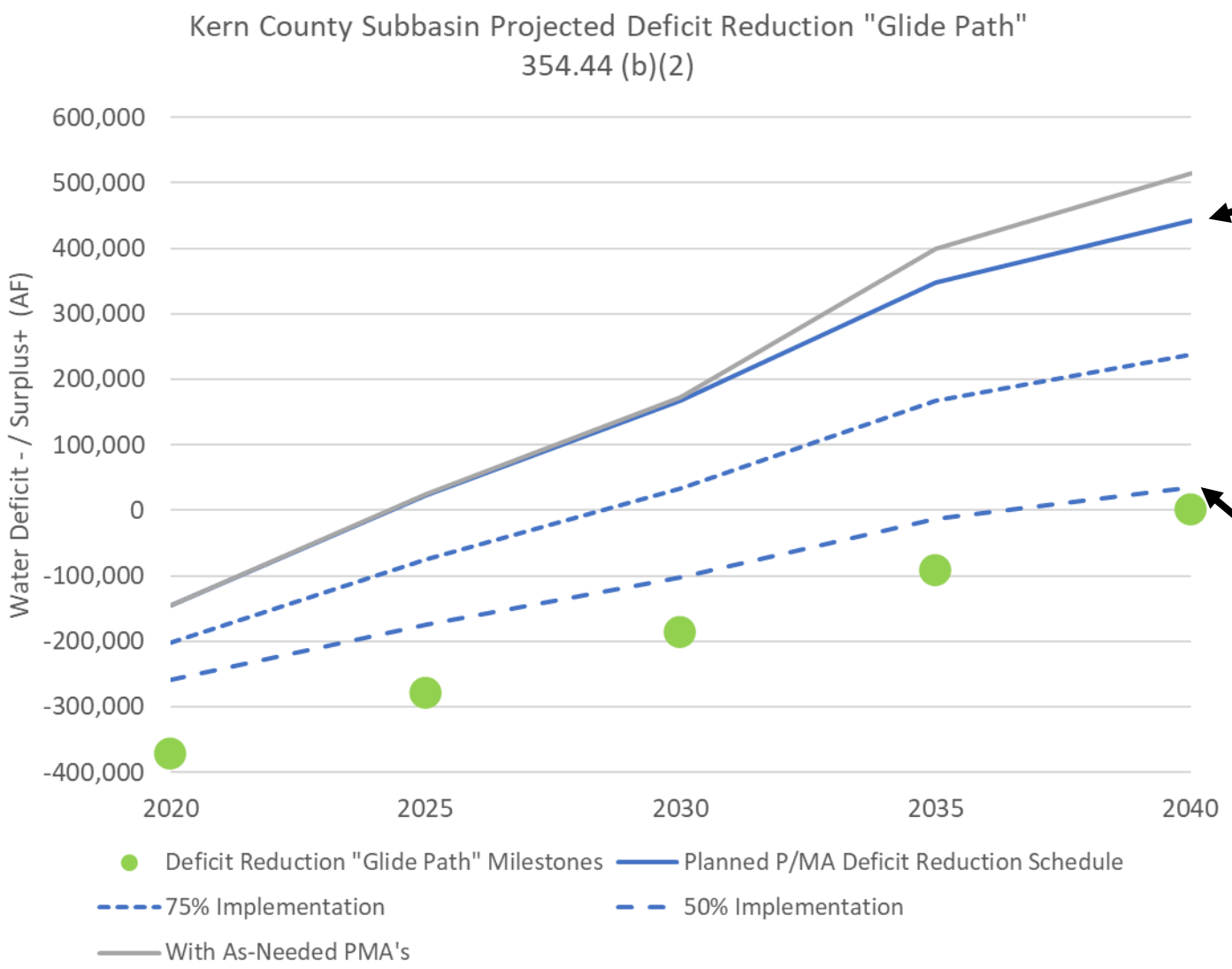
Projects: recharge basins, surface water delivery service area expansions, etc. have already been initiated



99% of the overdraft can be corrected by **demand reduction**: land conversion, water budgets, groundwater charges, pumping restrictions, etc.

P/MA ACTIONS MAP: A CLEAR PATH TO SUSTAINABILITY

DRAFT



Surplus of 441,000 AFY if all expected benefits are realized

Safety factor to ensure Subbasin stays on track

GSAs will be in balance if half the expected benefits are realized

INCREASING GROUNDWATER IN STORAGE

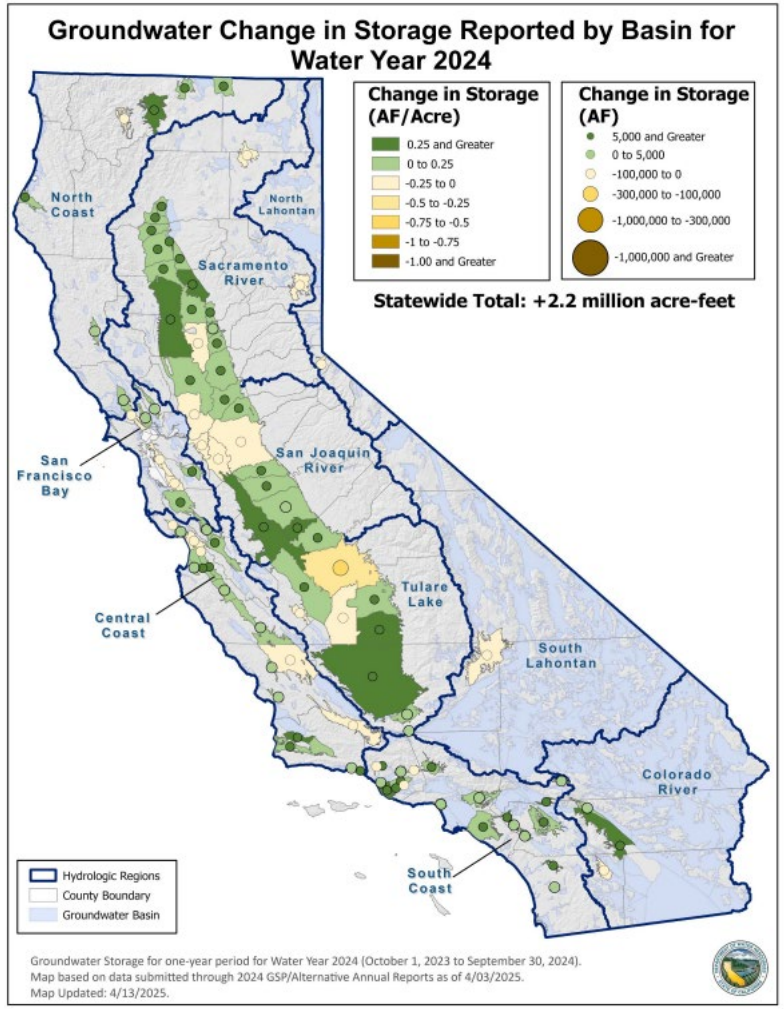
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DWR report shows the *Kern Subbasin had the greatest increase in groundwater storage in WY 2024 among all groundwater basins*

Table 11: WY 2024 Change in Storage by Basin. Top 10 basins as a volume (as shown in **Figure 12**). Change in storage values based on data reported through 2024 GSP/Alternative annual reports as of 4/3/2025.

Basin (Top 10 ranked by total change in storage)	Basin Number	**Total Change in Storage (AF)**	Change in Storage Rates (AF/Acre)	Basin Area (Acres)
San Joaquin Valley - Kern County	5-022.14	**469,052**	0.26	1,782,318
San Joaquin Valley - Delta-Mendota	5-022.07	**320,000**	0.42	764,964
San Joaquin Valley - Tule	5-022.13	**270,660**	0.57	477,590
San Joaquin Valley - Kings	5-022.08	**-270,000**	-0.28	981,323
Sacramento Valley - Colusa	5-021.52	**187,820**	0.26	722,785
Coachella Valley - Indio	7-021.01	**184,670**	0.62	297,156
San Joaquin Valley - Westside	5-022.09	**134,000**	0.22	622,208
San Joaquin Valley - Chowchilla	5-022.05	**120,878**	0.83	145,574
Sacramento Valley - Vina	5-021.57	**104,510**	0.57	184,917
San Joaquin Valley - Kaweah	5-022.11	**95,000**	0.22	441,048

Figure 12: Groundwater Change in Storage Reported by Basin for Water Year 2024. See **Table 11** and **Table 12** for specific groundwater storage statistics. Map and charts based on available data from GSP/Alternative annual reports as of 04/03/2025.



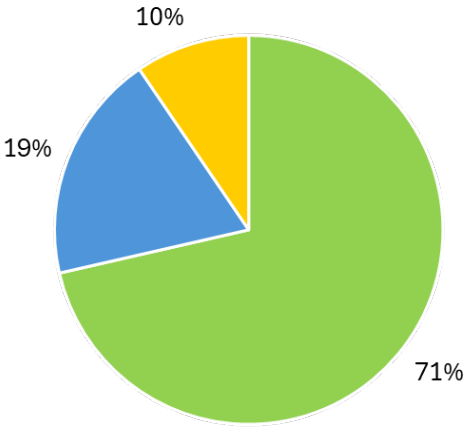
Source: https://data.cnra.ca.gov/dataset/ae160cf2-51d8-450d-82cc-2708e63ccd95/resource/fe2f982a-cc34-4b11-a6e7-6aef5e5cb8d6/download/may_2025_semi_annual_groundwater_conditions_report_v2.pdf

IMPLEMENTATION MEANS LAND USE CHANGES

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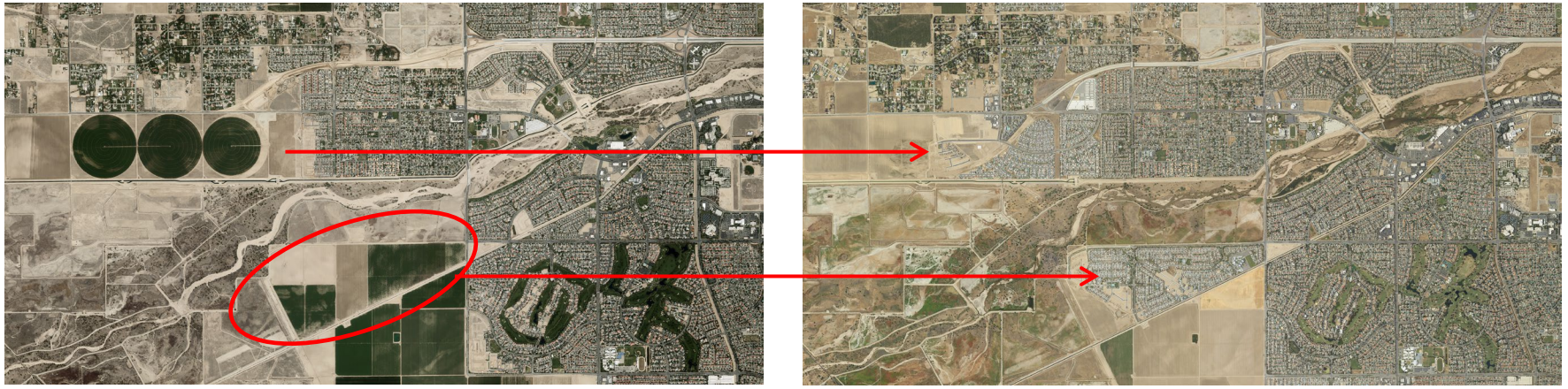


Achieved 31% of the Planned Demand Reduction Goal by WY 2024



Completed Implementation of 71% of Planned Demand Reduction PMAs

Ag to Urban conversion reduces demand from ~3 AF/ac to 1.72 AF/ac



Land fallowing yields demand reduction benefits



Converting irrigated acres to recharge basins yields both demand reduction and supply augmentation benefits

COORDINATING P/MAS TO ELIMINATE DEFICIT

DRAFT

- GSAs tracking local water budgets/Accounts
  - Annual Reports – Both GSA water budgets and P/MA implementation benefits will be quantified and reported annually.
- GSAs tracking local demand reduction/allocations
  - KSB-8 Subbasin-Wide Consumptive-Use Study (ITRC Metric/LandIQ) will estimate water use by parcel within each GSA's and summarized and reported annually.
- GSAs coordinating and sharing data on P/MAs and Water Budgets to ensure local and regional sustainability

WELL INVENTORY PROGRESS

DRAFT

- Identifying Groundwater Beneficial Users
- GSAs actively field-verifying existing wells as well as destroyed/replacement wells
- Gathered records from Online System of Well Completion Reports (OSWCR), Kern County Public Health, and Division of Drinking Water, including for State Small Water Systems
- Reconciling records and ground truthing to develop a comprehensive well inventory
- Well inventory enables the Kern Subbasin to implement notification procedures to well-owners
- GSAs evaluating existing wells to fill data-gaps based on updated well inventory



ATENCIÓN PROPIETARIOS DE POZOS DOMÉSTICOS

¡Ayúdenos a ayudarle—Proteja su pozo de una futura sequía!

El Distrito de Almacenamiento de Agua Rosedale-Rio Bravo está recopilando información sobre pozos domésticos en nuestra área para identificar cuáles podrían estar en riesgo por la sequía y requieren manejo proactivo del agua.

¿Cómo enviar la información de su pozo?

Escanee el código QR o visite https://arcg.is/15109q0 para llenar un formulario corto. Solo responda lo mejor que pueda—¡cada respuesta hace la diferencia!

¿Necesita ayuda?

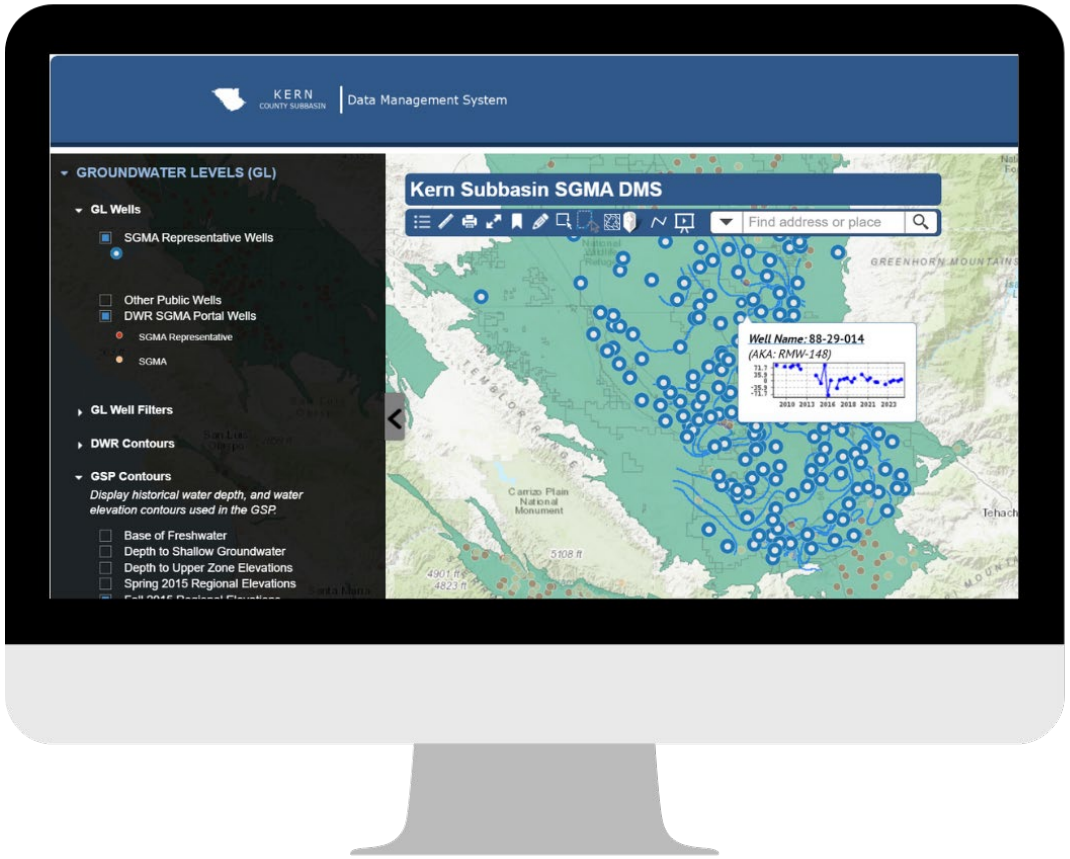
¡Con gusto le ayudamos! Llame al **(661) 589-6045** o envíe un correo a **admin@rrbwsd.com** para agendar una cita en persona con uno de nuestros representantes del Distrito.

No estamos aquí para venderle nada. Somos su distrito de agua local, trabaj
garantizar agua segura y confiable para nuestra comunidad

DATA MANAGEMENT SYSTEM (DMS) PROGRESS

DRAFT

- Available to all GSAs, stakeholders, and public
- Email notifications to all GSA managers when an MT Exceedance occurs
- Map viewers enable stakeholders and public to see groundwater levels and water quality data across the Kern Subbasin
- Used to communicate MT Exceedances to all designated GSA Managers and stakeholders
- Future improvements are planned to host the well inventory and track well-owner communications



SUMMARY & CONCLUSIONS

DRAFT

- Extensive work completed to improve the 2025 Plan
- Active coordination and collaboration with SWRCB Staff
- Maintained consistency and coordination across the Kern Subbasin
- Continued progress on P/MA implementation

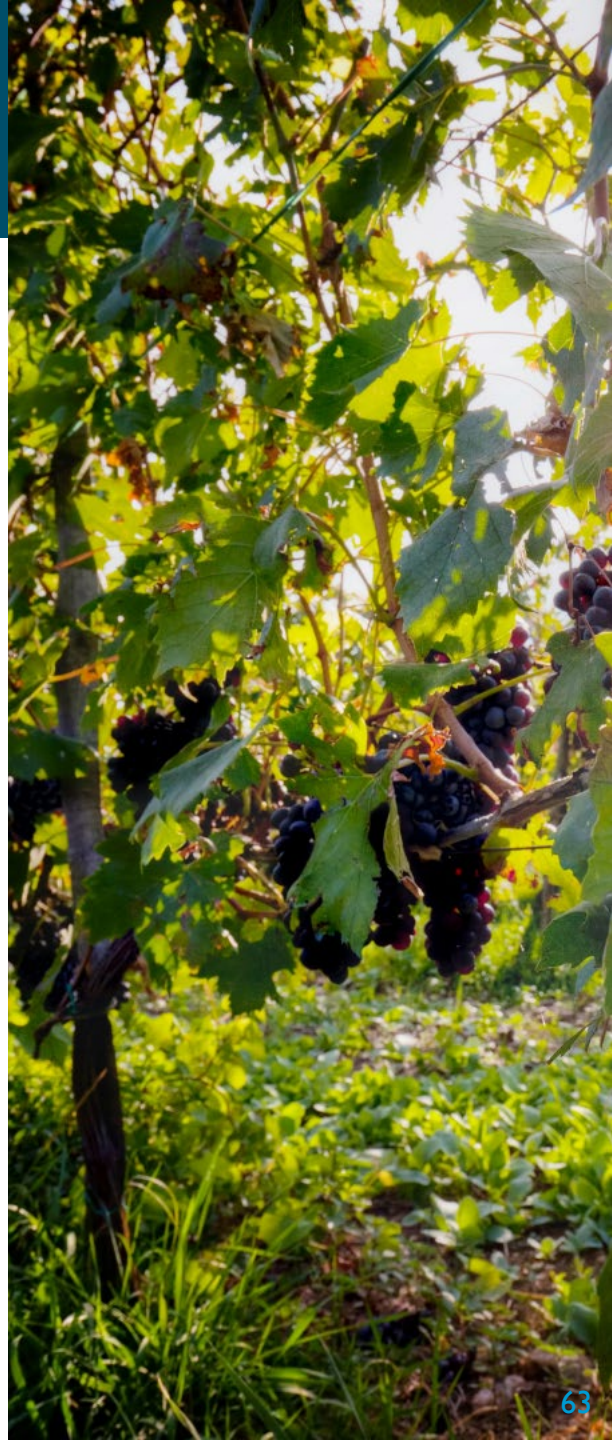


SUMMARY & CONCLUSIONS

DRAFT

Met ***all*** prior commitments and ***proactively*** addressed additional issues requested by SWRCB Staff

- ✓ State-of-the-art data gap analysis
- ✓ Kern Subbasin leading the charge on well inventory and data compilation/management
- ✓ Significant expansion of GWL and GWQ monitoring networks
- ✓ Revised GWL MTs to be even more protective of local impacts
- ✓ Revised GWQ UR, revised GWQ MTs, added significant details to GWQ implementation, highlighted GWQ mitigation track, added public notification process
- ✓ Additional details on Subsidence exceedance/mitigation – close coordination with CASP
- ✓ Updated CO&E Strategy/Stakeholder Engagement and Communication Plan, and conducted extensive community outreach



SUMMARY & CONCLUSIONS

DRAFT

- On almost all aspects the 2025 Plan **exceeds standards** established by DWR and SWRCB approved plans
- Kern Subbasin has worked diligently, proactively, and collaboratively with the SWRCB Staff to ***address their concerns and meet our commitments***
- Despite the size of the basin and the hydrogeologic/operational variability, the Kern Subbasin is ***closely coordinated*** in terms of SMCs and implementation



SUMMARY & CONCLUSIONS

DRAFT

- Kern Subbasin is ***leading the charge*** on well inventory, data gap analysis, and data collection on beneficial use/users
- Kern Subbasin has a ***very robust portfolio of P/MAs*** - including aggressive demand management, firm surface water supplies, and protective mitigation
- Kern Subbasin respectfully ***requests the SWRCB to approve the 2025 Plan*** so GSAs can prioritize implementation and reach their goal of groundwater sustainability



DRAFT



DOMESTIC WELL MITIGATION AGREEMENT

DRAFT

THIS DOMESTIC WELL MITIGATION AGREEMENT ("Agreement") is made and entered into this XX day of XXXX, 2024 by and between certain Kern Subbasin Groundwater Sustainability Agencies, listed on the attached Exhibit A, hereinafter referred to as "Kern Subbasin GSAs," and Self-Help Enterprises, a California nonprofit corporation, hereinafter referred to as "SHE." The Kern Subbasin GSAs and SHE may occasionally be referred to herein collectively as the "Parties" or SHE and each entity listed on Exhibit A may also be referred to individually herein as a "Party." This Agreement is entered into in reference to the following facts:

RECITALS

A. There are twenty individual Groundwater Sustainability Agencies ("GSAs") within the Kern Subbasin formed under and pursuant to the provisions of the Sustainable Groundwater Management Act ("SGMA") (California Water Code Section 10720 et seq.), which requires them to prepare and implement a Groundwater Sustainability Plan ("GSP") in order to provide for the sustainable management of groundwater resources within the Kern Subbasin;

B. The Kern Subbasin GSAs have approved such GSPs, and a Coordination Agreement has been entered into among the GSAs listed on Exhibit A, by which the Kern Subbasin GSAs have agreed to coordinate the development and implementation of their GSPs and drinking water well mitigation actions. Of the remaining GSAs not listed on Exhibit A, Henry Miller GSA and Olcese Water District GSA are both single landowner GSAs and have both elected to self-insure future drinking water well mitigation actions, and Kern-Tulare Water District has an existing well mitigation agreement with SHE for its jurisdiction in both the Kern County and Tule Subbasins;

C. The Kern Subbasin Coordination Agreement describes how the Parties will work together to ensure coordinated implementation of the multiple GSPs covering the Subbasin to satisfy the requirements of SGMA;

D. The Kern Subbasin GSAs have drafted a Well Mitigation Program that implements the Drinking Water Well Mitigation Framework within each GSA's jurisdiction. The Well Mitigation Program is attached hereto as Exhibit B and is incorporated herein by reference;

E. The Well Mitigation Program establishes a Drinking Water Well Mitigation Track and Degraded Water Quality Mitigation Program Track, by which users of domestic wells may obtain emergency, interim, and long-term mitigation of dry wells or wells with degraded water quality if the Kern Subbasin GSAs determine that the dry well or degraded water quality is caused by groundwater management activities of a GSA in the Kern Subbasin, as further described in the Well Mitigation Plan. This Agreement applies only to the Drinking Water Well and Degraded Water Quality Mitigation Tracks and not to the Drinking Water Well Technical Track;

F. SHE is a community development organization that operates in the Kern Subbasin;

G. One of SHE's programs involves providing emergency water and interim supplies to domestic water users who submit requests for assistance to SHE;

H. The Kern Subbasin GSAs and SHE have determined it is efficient and beneficial for the Kern Subbasin GSAs to collaborate with and support SHE's existing programs as a means of implementation of the Well Mitigation Program;

I. The Kern Subbasin GSAs and SHE desire to enter into this Agreement to establish said collaboration and define the respective obligations of each Party.

NOW THEREFORE, in and for consideration of the mutual covenants, conditions, and promises hereinafter set forth, the Parties hereby agree as follows:

1. **Recitals.** The above recitals are hereby incorporated by reference and made a part of this Agreement as though fully set forth herein.

2. **Purpose.** The purpose of this Agreement is to establish the respective responsibilities of each Party for the purpose of the implementation and funding of the Drinking Water Well and Degraded Water Quality Mitigation Tracks under the Well Mitigation Program.

3. **Term.** The Term of this Agreement shall be a period of one year from the date of execution. The Agreement will be automatically renewed for an additional one-year Term at the expiration of each Term, unless terminated by either Party pursuant to Section 17.

4. **Definitions.** As used herein, the following terms shall be defined as follows:

    a. "Applicant" shall mean a landowner within the Kern Subbasin who submits an application for mitigation by submitting SHE's online intake form pursuant to the Drinking Water Well Mitigation and Degraded Water Quality Mitigation Tracks of the Well Mitigation Program.

    b. "Contractor" shall mean any third-party construction, well drilling, or other professional company that is contracted to provide interim supplies or long-term mitigation measures.

    c. "Dry Well" shall mean the domestic well, or agricultural well used for domestic purposes, that is owned by an Applicant and that has ceased producing water.

    d. Degraded Water Quality Well shall mean the domestic well, or agricultural well used for domestic purposes that is owned by an Applicant and that has degraded water quality due to GSA management activities.

    e. "Emergency Water" shall mean the delivery of up to 60 gallons of bottled drinking water per month.

    f. "Interim Supplies" shall mean the delivery of bottled drinking water, not to exceed 60 gallons per household per month, and the installation of temporary water tanks or delivery of hauled water, not to exceed 50 gallons per day per individual, consistent with the time period to administer potential mitigation measures as described in the Well Mitigation Program, which is anticipated to not exceed a 12-month period.

    g. "Long Term Mitigation" shall mean measures taken to ensure long term access to water, including but not limited to connecting the impacted Applicant into an existing water system, lowering the pump, constructing a new well, modifying pump equipment, establishing a new small public water system, or installing a Point of Entry or Point of Use system, as determined applicable and appropriate.

    h. "Outreach" shall mean communication with landowners within the Kern Subbasin about the Well Mitigation Program, including but not limited to the development and distribution of educational materials regarding stewardship of domestic wells, notification to landowners of

the availability of mitigation, and workshops explaining the Well Mitigation Program and other available support.

i. "Project" shall mean the entire process of implementing mitigation measures, beginning when an Applicant submits an application for mitigation, and ending when Kern Subbasin GSAs determine the appropriate mitigation measures, whether long term or interim, are warranted and have been fully and completely administered.

j. "Qualified Applicant" means an applicant who has been approved for Long Term Mitigation pursuant to the Well Mitigation Program.

k. "Track" shall mean the Drinking Water Well Mitigation Track or Degraded Water Quality Mitigation Track, as described in the Well Mitigation Program.

l. "Well Mitigation Program" shall mean the Drinking Water Well Mitigation Track and Degraded Water Quality Mitigation Track, as applicable and as described in the attached Exhibit B.

5. **SHE Responsibilities.** SHE shall have the following obligations:

a. Receive and review all applications submitted by Applicants consistent with the Track. The applications shall contain releases of SHE and the Kern Subbasin GSAs from liability;

b. Perform initial investigation of the the domestic well, consistent with the Well Mitigation Program;

c. Provide Emergency Water and Interim Supplies to Applicants consistent with the Well Mitigation Program, which is anticipated to not exceed a 12-month time period;

d. Provide the GSA-designated qualified professional with all applications and other relevant materials that are necessary for developing a recommendation for Long Term Mitigation pursuant to the Well Mitigation Program;

e. Act as contract coordinator between Applicant and any Contractor used to implement Long-Term Mitigation;

f. Lend Applicant the funding necessary to pay Contractor to implement Long-Term Mitigation, provided that the Kern Subbasin GSAs have approved, in accordance with the Well Mitigation Program, any such loan to be made to an Applicant;

g. Perform initial one-time water quality testing, on an Applicant's new or mitigated well as necessary to ensure safe drinking water pursuant to SGMA and other state and local laws, and provide a certified copy of the testing results to the Kern Subbasin GSAs; Water quality filtration and/or monitoring equipment may be provided if conditions warrant pursuant to the Well Mitigation Program.

h. Terminate Interim Supplies by removing all related equipment, and providing the Applicant with notification;

i. Host a Well Stewardship Training workshop for the Applicant and provide additional educational resources;

j. Conduct a final inspection of the well no later than 60 days after completion of Long-Term Mitigation to verify that the work performed was satisfactory and within the applicable scope of work;

k. Obtain an Acknowledgement and Release (Payment Request) (in a form acceptable to the GSA) from the Applicant and provide a Notice of Project Completion to the Kern Subbasin GSAs.

6. **The Kern Subbasin GSAs Responsibilities.** The Kern Subbasin GSAs or the affected GSA, as the case may be, shall have the following obligations:
   a. Disburse funds to SHE to cover the costs incurred in supplying Emergency Water and Interim Supplies to Applicants as outlined in the Well Mitigation Program;

   b. Disburse funds to SHE to cover the costs of Long-Term Mitigation;

   c. Upon receipt of a recommendation for Long-Term Mitigation, the Kern Subbasin GSAs' Kern Mitigation Evaluation Committee (KMEC) shall conduct an investigation into whether the well qualifies for GSA funding pursuant to the Well Mitigation Program;

   d. If necessary, coordinate with SHE to modify or refine recommendations for Long-Term Mitigation;

   e. Review and, if appropriate, approve funding for Long-Term Mitigation within forty-five (45) days of receipt of the recommendation by the KMEC;

7. **Funding.** The Kern Subbasin GSAs shall reimburse to SHE, on a quarterly basis, the costs of implementing its obligations hereunder, to the extent SHE has not already received funds for such purposes from either Kern Subbasin GSAs or other funding sources. Such reimbursement of costs shall be determined in consultation with the Kern Subbasin KMEC, consultants, and SHE.

8. **Accounting.** SHE shall provide to the Kern Subbasin GSAs, the following for the Kern Subbasin GSAs' review and approval:

   a. Estimate for Emergency Water and Interim Supplies. SHE shall provide the Kern Subbasin GSAs on an annual basis with a cost estimate for SHE's administration of Emergency Water and Interim Supplies prior to providing said services to Applicants to allow the Kern Subbasin GSAs an ability to budget and collect the necessary funding.

   b. Estimate for Long-Term Mitigation. SHE shall provide the Kern Subbasin GSAs with a cost estimate for the recommended Long-Term Mitigation to be implemented following completion of the initial site assessment and prior to providing said services to Applicants to allow the KMEC to evaluate an application and for the Kern Subbasin GSAs an ability to budget and collect the necessary funding.

   c. Invoice of Costs Incurred. SHE shall provide the Kern Subbasin GSAs with a detailed invoice for the total costs incurred the prior quarter from the administration of Emergency Water, Interim Supplies, and Long-Term Mitigation.

d. "Costs" as used in this Section 8 shall include both Direct Project Costs and Administrative Costs directly associated with implementation of mitigation as set forth in the Well Mitigation Program.
   i. Administrative Costs include, personnel, travel, and overhead costs including staff salary and fringe benefits, mileage reimbursement or rental vehicles and fuel costs, and overhead including routine clerical and administrative support, office expense, space, telephone, and insurance.
   ii. Direct Project Costs may include, bottled water, hauled water, tank and pump purchase, professional contracted services, permits, laboratory analysis, water filtration devices, water quality monitoring equipment, and such other items as the Parties may agree to in advance from time to time.
   iii. Administrative Costs associated with attendance at Subbasin events, conferences, hearings or meetings must be approved by the Subbasin's Point of Contact in writing in advance attendance to be eligible for reimbursement.

9. **The Kern Subbasin Consultation and Cooperation.** SHE hereby agrees to consult with and coordinate with Kern Subbasin GSAs' staff including but not limited to Kern Subbasin Coordination Committee, staff of any affected GSA, KMEC, and any consultants hired by Kern Subbasin GSAs, regarding the Interim Supplies and Long-Term Mitigation. SHE further agrees that it will not commence, cause to be commenced, or allow commencement of, any Long-Term Mitigation that has not been approved in accordance with the Well Mitigation Program.

10. **Recordkeeping.** SHE agrees to obtain copies of all documents related to each Project, including documents executed by Applicant and/or Contractor, including but not limited to any permits, site plans, Contractor estimates, Contractor invoices, Contractor contracts, Contractor licenses, lending agreements, disbursement receipts, Applicant agreements and consents, Applicant approvals to Project actions, water testing results and/or certifications, and any and all technical reports generated in relation to the Project. SHE further agrees to provide the Kern Subbasin GSAs copies of all documents in its possession.

11. **Audit/Accounting.** On reasonable request, each of the Kern Subbasin GSAs shall have the right to, at its own expense, inspect, audit, and copy from SHE's books, records, and other documents, including computer files, supporting orders, and invoices, as necessary to verify SHE's adherence to this Agreement and to balance the accounts of the Kern Subbasin GSAs related to the Projects.

12. **Outreach.** The Parties shall coordinate Outreach pursuant to the Well Mitigation Plan.

13. **Exhibits.** Each Exhibit attached to this Agreement is incorporated herein and made a part hereof by this reference.

14. **Insurance.** SHE shall carry workers compensation insurance in accordance with workers compensation laws of the State of California. SHE shall furnish the Kern Subbasin GSAs with a Certificate of Insurance with combined single limits of at least $1,000,000.00 for bodily injuries and property damages on each occurrence. The Certificate of Insurance shall state that the contractual liability assumed under this Agreement is covered and shall provide that ten (10) days' notice of cancellation or reduction in coverage shall be given to the Kern Subbasin GSAs. Certificates of said coverage shall be filed with the Kern Subbasin GSAs before any work commences.

15. **Indemnification.** To the fullest extent permitted by law, SHE shall indemnify, hold harmless, and defend each of the Kern Subbasin GSAs, its directors, officers, employees, consultants, agents, or

authorized volunteers, and each of them, from any and all claims, demands, causes of action, damages, costs, expenses, losses, or liabilities, in law or in equity, of every kind or nature whatsoever, arising out of or in any manner, directly or indirectly, connected with SHE's performance of its obligations under this Agreement, or SHE's failure to comply with any of its obligations under this Agreement, including but not limited to any action related to water quality, water quantity, water supply, water source, well performance, well location, or well construction.

To the fullest extent permitted by law, the Kern Subbasin GSAs shall indemnify, hold harmless, and defend SHE, its directors, officers, employees, consultants, agents, or authorized volunteers, and each of them, from any and all claims, demands, causes of action, damages, costs, expenses, losses, or liabilities, in law or in equity, of every kind or nature whatsoever, arising out of or in any manner, directly or indirectly, connected with a Kern Subbasin GSA's performance of its obligations under this Agreement, or individual failure to comply with any of its obligations under this Agreement, including but not limited to any action related to water quality, water quantity, water supply, water source, well performance, well location, or well construction.

16. **Disclaimer.** Nothing in this Agreement represents or should be construed to represent that any Kern Subbasin GSA is responsible for water levels, well performance, wells going dry, or any other injury and adverse consequences related to groundwater use, levels, or elevations. The Kern Subbasin GSAs manage groundwater but do not pump groundwater and have no liability related to overdraft, pumping, water levels, or the impacts therefrom.

17. **Termination of Agreement.** This Agreement may be terminated with or without cause by either Party by giving thirty (30) days prior written notice to the other. Any funds SHE has expended pursuant to this Agreement prior to the date of termination shall be reimbursed by the Kern Subbasin GSAs pursuant to Section 7, above. Any funds SHE has received in excess of its actual costs shall be returned to the Kern Subbasin GSAs promptly.

18. **Default.** Failure to perform any of the terms of this Agreement shall be deemed a material default of a Party.

19. **Remedies.** If a Party defaults, or otherwise materially breaches this Agreement, any other non-defaulting Party may seek recission of this Agreement, damages, or any other remedy it deems appropriate for the implementation of the Well Mitigation Program or the performance of this Agreement.

20. **Successors and Assigns.** All of the terms, covenants, and provisions hereof shall inure to the benefit of and be binding upon the respective successors and assigns of the Parties hereto.

21. **Compliance with all Laws.** The Parties are required to comply with all laws, regulations, permitting, including but not limited to any local agency rules or regulations, as they may exist from time to time.

22. **Attorney's Fees.** In the event of a dispute between the Parties related to or arising from this Agreement or any of the actions or events described herein, the prevailing Party in any litigation or arbitration shall be entitled to recover all costs and fees associated with the action or arbitration, including, without limitation, all attorney's fees and expert witness fees.

23. **Governing Law.** The laws of the State of California shall govern under the interpretation and enforcement of this Agreement.

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24. **Interpretation.** The Parties agree that the terms and provisions of this Agreement embody their mutual intent and that such terms and conditions are not to be construed more liberally in favor, or more strictly against, any party.

25. **Partial Invalidity.** If any term or provision of this Agreement, or the application thereof to any person or circumstance shall, to any extent, be invalid or unenforceable, a provision shall be added to this Agreement as similar in terms to such invalid or unenforceable provision as may be possible, and be legal, valid and enforceable, and the remainder of this Agreement or the application of such term or provision to persons or circumstances other than those to which it is held invalid or unenforceable, shall not be affected thereby, and each remaining term and provision of this Agreement shall be valid and enforceable to the fullest extent permitted by law.

26. **Counterparts.** This Agreement may be executed in counterparts, each of which shall be deemed an original and all of which, when taken together, shall constitute one and the same instrument.

27. **Independent Contractor Status.** It is mutually understood that, in performing the services herein specified, SHE shall act as an independent contractor and shall have control of the work and the manner in which it is performed. SHE shall be responsible for providing legally mandated benefits and complying with the state and federal withholding regulations. The Kern Subbasin GSAs retain the general right of inspection in order to judge whether, in the Kern Subbasin GSAs' opinion, SHE is performing the work in accordance with the terms of this Agreement.

IN WITNESS WHEREOF, this Agreement is executed and made effective on the date first written above.

SELF-HELP ENTERPRISES

By: _____
Thomas J. Collishaw, President/CEO

Arvin GSA Derek Yurosek, Board Director	Buena Vista Water Storage District GSA Terry Chicca, President
Cawelo Water District GSA David Halopoff, Assistant General Manager	Greenfield County Water District GSA Terry Redwine, Board President
Kern River GSA Rodney Palla, Chairman	Kern Non-Districted Land Authority GSA Barry Watts, Chairman
Pioneer GSA Lauren Bauer, Water Resources Manager	Kern Water Bank GSA Joseph Butkiewicz, General Manager

Kern-Tulare Water District GSA
Skye B. Grass, General Manager

North Kern Water Storage Dist DRAFT
Kevin S. Andrew, President

Rosedale-Rio Bravo Water Storage District GSA
Dan Bartel, Engineer-Manager

Semitropic Water Storage District GSA
Dan Waterhouse, President

Shafter-Wasco Irrigation District GSA
Randy Bloemhof, Board Director

Southern San Joaquin Municipal Utility District GSA
Roland Gross, General Manager

Tejon-Castac Water District GSA
Angelica Martin, Water Resources Director

West Kern Water District GSA
Greg A. Hammett, General Manager

Westside District Water Authority GSA
Mark Gilkey, General Manager

Wheeler Ridge-Maricopa GSA
Sheridan Nicholas, Engineer-Manager

ROSEDALE-RIO BRAVO
WATER STORAGE DISTRICT

849 Allen Road
Bakersfield, CA 93314
(661) 589-6045
www.rrbwsd.com

September 9, 2025

To: Rosedale-Rio Bravo Water Storage District Board of Directors

Agenda Item: 8c.

From: Dan Bartel

Re: KNDLA Assessments

Discussion: KNDLA has started discussions regarding developing assessments and/or water charges to cover expenses. RRB is a KNDLA member agency and has irrigated and non-irrigated lands within the GSA that are NOT in the District boundaries. RRB collects funds from these lands and makes a 1/20 contribution to KNDLA. As KNDLA develops its financial policies RRB will need to make decisions on how it wants to handle these lands going forward. There is a mixed bag of cooperation among the Rosedale GSA white landowners.

- Most are paying invoices and adhering to P/MA demand reduction goals.
- Some are not paying and not adhering to P/MA demand reduction goals.
- Some are not paying but adhering to the P/MA demand reduction goals.

Recommendation:
Discuss options and give direction about assessment/water charge efforts. Does the District:

1. want to pursue a SGMA penalty charge for non-P/MA adherence?
2. prefer that KNDLA use an assessment or a water charge?
3. want to transition white lands from Rosedale GSA to KNDLA GSA?
4. want to retain white lands but utilize the KNDLA assessment structure versus the current contractual arrangement?
5. prefer a faster 2020-2040 demand reduction glide path or content with the KNDLA 2030-2040 demand reduction P/MA?
6. believe that all or a proportionate of KNDLA the cash calls should be applied to the white land budget?

KERN COUNTY WATER AGENCY
CROSS VALLEY CANAL ADVISORY COMMITTEE

MEETING NOTICE & AGENDA
Stuart T. Pyle Water Resources Center
3200 Rio Mirada Drive
Bakersfield, California

August 27, 2025

Conference Line: 1 (571) 317-3122
Access Code: 500-820-565#
https://global.gotomeeting.com/join/500820565

Agenda

1. Call to order – 1:30 p.m.

2. Appointment of the 2025-26 Cross Valley Canal Advisory Committee Officers

3. Cross Valley Canal Advisory Committee Members Report

4. Public Comment

5. Approval of Cross Valley Canal Advisory Committee Meeting Minutes

   Regular Meeting – June 25, 2025

6. Report of the Water Resources Manager
   a. Update on Cross Valley Canal Construction/Maintenance Project
   b. Update on Cross Valley Canal Losses

7. Report on Cross Valley Canal Operations and Deliveries
   a. Operations and Maintenance Activity
   b. Year-to-Date Deliveries

8. Recommendation to Request Proposals for Engineering and Design Services for the Input/Output Card Modernization Project at the Cross Valley Canal Pumping Plants

9. Adjourn

NOTICE: This meeting is being conducted partially by telephone conference.
Conference Line:1 (571) 317-3122/ Access Code: 500-820-565#/ https://global.gotomeeting.com/join/500820565

Lower Tule Irrigation District
357 East Olive Avenue
Tipton, CA 93272

Requests for a disability-related modification or accommodation, including auxiliary aids or services, in order to attend or participate in a meeting should be made to the CVC Secretary in advance of the meeting to ensure availability of the requested service or accommodation.

DRAFT

KERN COUNTY WATER AGENCY
CROSS VALLEY CANAL ADVISORY COMMITTEE

3200 Rio Mirada Drive, Bakersfield, CA 93308
Phone: (661) 634-1400

Minutes
June 25, 2025

The Cross Valley Canal Advisory Committee conducted its regular meeting Wednesday, June 25, 2025 at 1:30 p.m. in the board room of the Kern County Water Agency's Stuart T. Pyle Water Resources Center, via teleconference, and go to meeting. Those who attended the meeting were as follows:

Members Present:	
Arvin-Edison Water Storage District	Jeevan Muhar
Cawelo Water District	David Ansolabehere
	David Halopoff, alt
Fresno-Tulare Group	John Michael Domondon, alt
Improvement District No. 4	Tim Ruiz
Kern County Water Agency	Sheridan Nicholas
	Jamie Marquez, alt
Kern Delta Water District	Steve Teglia
Kern Tulare Water District	Skye Grass
Rosedale-Rio Bravo Water Storage District	Dan Bartel
	Trent Taylor, alt
	Roy Pierucci, alt
Others Present:	
Kern County Water Agency	Director Gene Lundquist
	Director Royce Fast
	Director Martin Milobar
	Director Jay Kroeker
	Lauren Bauer
	Scott Chambless
	James Ciampa, Lagerlof, LLP
	J.T. Gardiner
	Wesley Shryock
	Monica Tennant
	Steve Yoder
	Madison Brown
	Nick Pavletich
Arvin-Edison Water Storage District	Sam Blue
City of Bakersfield	Kris Budak

1. Call to order – 1:30 p.m. Chairman Sheridan Nicholas called the Cross Valley Canal (CVC) Advisory Committee (Committee) meeting to order at 1:30 p.m. and directed the Committee to the agenda for further discussion. The meeting was conducted by Go To Meeting and telephone conference, so the agenda items that required an action by all participants were taken as a roll call vote.

2. Cross Valley Canal Advisory Committee Members Report No comments.

3. Public Comment No comments.

4. Approval of Cross Valley Canal Advisory Committee Meeting Minutes

Action: Steven Teglia made a motion and Skye Grass seconded to approve the Committee minutes as amended from the May 21, 2025 regular meeting.

Roll call vote: Ayes: Muhar, Ansolabehere, Domondon, Ruiz, Nicholas, Teglia, Grass & Bartel
Noes: None
Absent: None

5. Report of the Water Resources Manager Lauren Bauer introduced Nick Pavletich, Co-Interim General Manager of the Kern County Water Agency (Agency). Ms. Bauer reported that pump 1B at CVC Pumping Plant No. 1 experienced a capacitor issue similar to the motor control cabinet fire at Pumping Plant No. 3A. Agency staff have replaced the capacitor and are obtaining quotes from outside consulting firms to evaluate the capacitors at all seven pumping plants to ensure no further replacements are required.

   a. Update on Cross Valley Canal Construction/Maintenance Project Lauren Bauer noted that Agency staff updated the current project status of the Hydraulic Improvements Project (HIP) projects listed in Attachment 1 last month and that no further updates have been made. She noted that no comments have been received on the changes. Ms. Bauer informed the Committee that Agency staff are continuing to work on scheduling a HIP ad hoc meeting. Sheridan Nicholas asked for an update on the Supervisory Control and Data Acquisition upgrades. Ms. Bauer reported that staff are working with outside counsel to determine how to bid the project and will bring the Request for Proposals (RFP) back to the Committee at the next scheduled meeting.

   b. Update on Cross Valley Canal Losses Lauren Bauer noted staff continue to refine the interim procedure language and memo. The procedure and memo will be presented to the Committee at the next scheduled meeting. Ms. Bauer stated the 2021 and 2022 water operations reconciliations were complete and emailed to CVC Participants, and informed the Committee to reach out to Monica Tennant with any questions.

6. Report on Cross Valley Canal Operations and Deliveries
   a. Operations and Maintenance Activity Steve Yoder reported Agency staff installed the spare 700 hp pump (5L) at CVC Pumping Plant No. 5B; repaired the motor protection relay on pump 5L (700 hp) at CVC Pumping Plant No. 5B; pulled the motor on pump 5A (100 hp) at CVC Pumping Plant No. 5A; installed stop logs at River Turnout No. 1 for gate maintenance; transported pump 1A (100 hp) to Shar-Craft Incorporated for coating repairs; painted the gate actuators at Rosedale Rio-Bravo Turnouts Nos. 1 and 2; pulled pump 3G (100 hp) at CVC Pumping Plant No. 3A for bushing modifications; took delivery and installed stop logs at the Pioneer Inlet; replaced the packing box stud on pump 5G (100 hp) at CVC Pumping Plant No. 5A; painted the handrails for the Arvin-Edison Turnout stairs at CVC Pumping Plant No. 6A; installed and connected the motor on pump 5A (100 hp) at CVC Pumping Plant No. 5A; painted the bollards at all CVC pumping plant afterbays; escorted the contractor for pressure vessel inspections; replaced air conditioner filters at all CVC pumping plants; transported recyclable metals to recycling site; performed mechanical cleaning of pumping plant forebays and walk decks using Gradall excavator; burned tumbleweeds along CVC fence lines and rights-of-way when permitted by San Joaquin Valley Air Pollution Control District; assisted electrical staff with multiple motor control issues at various pumping plants; continued to collect groundwater level measurements from CVC Pools

1-8 piezometers; performed spare motor maintenance by spinning motor shafts on all spare motors at CVC Operations and Maintenance (O&M) Center; performed post-emergent herbicide applications; performed minor fence and gate repairs; performed road and levee maintenance and washout repairs along CVC rights-of-way; performed siphon breaker and compressor checks throughout entire CVC system; performed electrical preventative maintenance checks and testing at all CVC Motor Control Centers (MCC); performed routine maintenance activities that included vehicle and heavy equipment maintenance repairs, pump maintenance and interior MCC buildings cleaning; and performed a monthly safety inspection at the CVC O&M Center.

Jeeven Muhar requested Attachment 5 be revised to reflect pumps and motors out for service separately including the estimated date each will be returned to service. Mr. Muhar also requested available spare pumps and motors be listed with a note indicating compatible locations. Dan Bartel inquired whether there were theories behind the recent capacitor fires. Mr. Yoder responded there are no definitive leads as to what may have caused the issue. Lauren Bauer added that efforts are underway to build a more comprehensive inventory and tracking system for maintenance. Ms. Bauer emphasized a broader shift in operations philosophy that includes moving away from short-term fixes and towards more strategic planning, including scheduled shutdowns to ensure proper routine maintenance. Ms. Bauer reiterated that the long-term goal includes modernization of the system, but the current focus is resolving the capacitor issues.

b. Year-to-Date Deliveries Monica Tennant reported deliveries for May 2025 totaled approximately 1,300 acre-feet. All water was delivered in forward flow and consisted of State Water Project water.

7. Recommendation to Request Proposals for the Flow Meter Study for Conveyance Facilities of the Cross Valley Canal and Banking Projects. J.T. Gardiner reported that as part of the operation of the CVC and the banking projects, the Agency relies on the functionality and operation of numerous flow meters to accurately monitor flows of the canal, recharge and recovery. The Agency has prepared a RFP for a consultant to perform the following services: 1.) A meter condition assessment to review and document the condition of the 49 meter locations on the CVC and 121 well meters that would include Pioneer, Joint Use Recovery (JURP) wells and Improvement District No. 4 (ID4) wells; 2.) Conduct a meter analysis of the accuracy of the CVC by individual pool, North, Central and South Pioneer, Berrenda Mesa, ID4 wells, and JURP wells. The analysis will analyze the accuracy of the various metering systems, identify the critical meters on each system as well as redundancies, and identify locations where additional meters may be needed to ensure accurate measurement of flows; and 3.) The study will make recommendations concerning the installation and/or improvements to the meters and the overall metering system, including recommendations for additional meter locations. Agency staff will contact contractors to thoroughly promote the proposal process. Proposals will be opened on July 18, 2025. After the proposals are opened and reviewed, a recommendation will be presented at the August 2025 Committee and Agency Board of Directors meetings, respectively.

Lauren Bauer added that any results from the RFP will be shared with the Committee. The CVC portion of the assessment is $75,000 and is included in the CVC O&M budget. There was concern expressed about the payment and/or reimbursement of costs by the Committee. Ms. Bauer explained that this is a comprehensive assessment of the whole system and the cost will be shared proportionately between the banking project participants and the CVC Participants. The total project cost is budget at $150,000 between the CVC, Pioneer Project

and Berrenda Mesa Project. Dan Bartel questioned why the Kern Water Bank Authority (KWBA) does not have a share of the assessment cost. Ms. Bauer explained that the Agency does not budget for the KWBA. There was further discussion regarding system inputs from the Kern Water Bank, Friant-Kern Canal, Calloway Canal and individual district well discharges into the CVC.

After discussion of the proposed RFP assessment and project participation, the Committee requested Agency staff reach out to the KWBA for potential inclusion in the assessment. The Committee agreed to table the item until July, or as soon as practicable.

8. Recommendation to Execute the Agreement Between Groundwater Banking Joint Powers Authority and Kern County Water Agency for Preliminary Planning and Design Costs Related to Alternative No. 5 Project Related to the Kern Fan Groundwater Storage Project. Lauren Bauer provided an update on the Alternative No. 5 project, stating that the Groundwater Banking Joint Powers Authority (GBJPA), consisting of Rosedale-Rio Bravo Water Storage District (Rosedale) and Irvine Ranch Water District, intend to move forward with further development of Alternative No. 5 modifying the CVC turnout and conveyance facility. Ms. Bauer stated the Agency does have administrative concerns related to the Project. Sheridan Nicholas consulted with the Agency's legal counsel, James (Jim) Ciampa of Lagerlof, LLP, to confirm whether the presence of individuals affiliated with the GBJPA in the room presented any legal concerns. Jim Ciampa stated that from a legal standpoint, there is no prohibition against their attendance. Ms. Bauer continued, stating that the Project would bank Article 21 water supplies for ecosystem purposes. The Department of Water Resources (DWR) would release a pulse flow from Lake Orville and the banking project would make the water available by exchange. Ms. Bauer stated there were concerns early on in the project development regarding the potential commitment of the Agency's Table A water to backstop the program. The Agency and Rosedale have an agreement stating that the Agency will not backstop the project with its Table A water; however, DWR staff have continued conversations regarding a backstop. Ms. Bauer stated that the Agency's administrative concerns are separate from the funding agreement.

   Ms. Bauer stated the funding agreement would reimburse the Agency for expenses related to the development and review of Alternation No. 5 of the Kern Fan Groundwater Storage Project only, noting the agreement does not cover any expenses related to the overall development of the Kern Fan Project. Dan Bartel provided a clarification that an agreement with DWR will be drafted in the future to codify the backstop issue. He noted that should DWR wish to release pulse flows in excess of the entitlement available, it will be dependent upon an exchange with outside entities. Mr. Bartel reported the modeling indicated that pulse flows would be available in normal to above normal years and Rosedale anticipates having enough Table 1 supply to meet the pulse flows. He further stated that Rosedale is considering two alternatives and is requesting a funding agreement to keep the CVC whole and described the proposed benefits to the CVC with the project. Jeevan Muhar inquired regarding the timing of the alternative evaluation. Mr. Bartel stated that as part of the agreement with the Agency, Rosedale is required to prepare supplemental California Environmental Quality Act (CEQA) analysis and would like to identify the alternative and prepare CEQA by 2026. Mr. Bartel shared that the last presentation provided to the Committee was in November 2024 and that Rosedale has continued to communicate updates to the Committee. Ms. Bauer stated approval of agreement does not constitute approval of the Project. Agency staff have reviewed the Agreement and recommend its approval.

   Action: David Ansolabehere made a motion and Skye Grass seconded to approve the agreement between the Groundwater Banking Joint Powers Authority and the Kern

County Water Agency for preliminary planning and design costs related to Alternative No. 5 Project related to the Kern Fan Groundwater Storage Project.

Roll call vote: Ayes: Ansolabehere, Domondon, Ruiz, Nicholas, Teglia, & Grass
Noes: None
Abstain: Muhar, Bartel
Absent: None

This motion passed with 86.64 percent approval.

9. Adjourn – Chairman Sheridan Nicholas adjourned the Committee meeting at 2:18 p.m.

MEMORANDUM

TO: Cross Valley Canal Advisory Committee
Agenda Item No. 6a

FROM: Lauren Bauer

DATE: August 27, 2025

SUBJECT: Update on Cross Valley Canal Construction/Maintenance Projects

Issue:
Update on Cross Valley Canal construction/maintenance projects.

Recommended Motion:
None – information only.

Discussion:
An overview of the construction projects associated with the Cross Valley Canal is provided as Attachment 1.

Cross Valley Canal
Monthly Facilities Improvement and Construction Project Update
August 2025

1. Task H – HEC-RAS Model Compilation and Hydraulic Analysis

A. Pump Curves
1. Description: Determine and refine pump curves.
2. Next Project Milestone:
   a. Obtain factory curves for A-Plant pumps.
   b. Conduct field verification of CVC pump flow versus head (lift) data.
      i. At the May 1, 2023 CVC Hydraulic Improvement Project ad hoc committee (HIP ad hoc) meeting, it was suggested Cascade pump could perform the pump testing and create curves. This work was not part of the scope for this task.
      ii. More discussion is needed to determine the next steps for this work.

B. Model Compilation
1. Description: Aggregate the six existing post-expansion HEC-RAS hydraulic models representing Cross Valley Canal (CVC) Pools 1 through 6 into a single comprehensive model that can evaluate pump operations and canal hydraulics in forward and reverse flow.
2. Consultant Contract: GEI – Task H
3. Participant Group: CVC Integrated Canal Participants
4. Progress to date:
   a. Draft technical memorandum distributed to the CVC Participants on January 28, 2021.
   b. Consultant presented the technical memorandum to the CVC Advisory Committee on February 24, 2021.
   c. Issued final technical memorandum on April 19, 2021.
   d. Conduct field verification of the model 1,000 cubic feet per second (cfs) flow test of CVC Pools 4 through 6.
      i. To be completed under Item No. 6.
5. Next Project Milestone:
   a. Pending development of a Request for Proposal (RFP)/Request for Qualifications (RFQ) to conduct a comprehensive assessment of the CVC for a suite of potential solutions.
   b. Prepare next steps for mitigation of the following:
      i. Perform review of CVC pumping plant control philosophy.
         • Incorporated into Task J to discuss how CVC pumps are currently operated.
      ii. Pool 1 dependence on California Aqueduct (Aqueduct) operations.
         • Aqueduct graph updated in final report.
      iii. Explore impacts of adjusted Aqueduct water levels on CVC capacity.
         • The scope of work was to provide hydraulic analysis for the CVC canal and pumping plant facilities infrastructure improvements, not to evaluate the Aqueduct water levels and whether it could provide a consistent water surface elevation could be maintained to run the CVC at full capacity. There is no task dedicated to perform this analysis.
         • More discussion is needed to determine the next step.
      iv. Pool 1A reverse flow hydraulics (back siphonage).
         • EGS and WR Ops to continue discussion.

v. Prepare feasibility analysis and develop project schedule for proposed mitigations.
    - Spreadsheet developed and presented to HIP ad hoc on July 18, 2023.

2. Task J – Evaluation to Review the CVC Channel Freeboard and Pump Submergence

A. Description: Evaluate the feasibility and potential risks of reducing the minimum pump submergence for infrequent operations when the CVC is approaching its capacity as a method of increasing the canal freeboard and thereby increasing canal capacity.
B. Consultant Contract: GEI – Task J
C. Participant Group: CVC Integrated Canal Participants
D. Progress to date:
    1. Completed preparation of consultant proposal.
    2. Received Kern County Water Agency (Agency) Board of Directors (Board) authorization to execute task order on March 25, 2021.
    3. Completed data collection effort.
    4. Completed conceptual draft design review of A-Plant forebays technical memo on June 11, 2021.
    5. Finalized physical model testing and mitigation for all pools and utilize pertinent information in the submergence assessment and freeboard evaluation.
    6. Performed review of CVC pumping plant control philosophy.
E. Next Project Milestone:
    1. Prepare pump submergence assessment.
        a. Multiple discussions occurred. It was determined that lowering the pump submergence water surface elevation will not help with achieving 1,422 cfs flow with how the CVC is operated.
        b. Lowering water levels to increase velocity was not a viable solution.
    2. Prepare channel freeboard evaluation.
        a. Freeboard mitigation covered under Item No. 5 – "Cross Valley Canal I-5 Siphon Outlet Freeboard Mitigation".
    3. Coordinate technical study with findings from the Approach Channel and Water Level Fluctuation Hydraulic Analysis.
    4. Submit draft technical memorandum to the Agency.
        a. Based on discussions with Agency staff, it was determined that trying to do this study with the model would not be beneficial as the canal would not be operated this way in the field. A draft technical memorandum was not developed.

3. Task K – Pumping Plant Forebay Approach Channel and Water Level Fluctuation Hydraulic Analysis

A. Description: Develop a scaled physical model and analyze the water level fluctuations associated with the pumping plant bifurcation geometry that causes a diverging flow directly upstream of the pumping plant forebays when both the 'A' and 'B' Pumping Plants are in operation.
B. Consultant Contract: GEI – Task K
C. Participant Group: CVC Integrated Canal Participants
D. Progress to date:
    1. Completed physical model internal workings.
    2. Completed physical model design and construction.
    3. Constructed physical model.
    4. Initiated physical model startup, testing and calibration.

5. Conducted physical model testing for Pumping Plant Nos. 1 through 5.
6. Completed testing of mitigation measures for Pumping Plant Nos. 1 through 5.
7. Received draft technical memorandum.
8. Dismantled the physical model.
9. Completed staff review of draft technical memorandum.
10. Staff and GEI-NHC reviewed HIP ad hoc comments on draft technical memorandum.
11. Prepared and submitted final technical memorandum on June 29, 2023.
12. Recommended dissipater block design included an array of six blocks in the A-Plant approach channel and three blocks in the B-Plant approach channel.
13. The addition of blocks only in the B-Plant approach channel has not been confirmed using the physical model at Pumping Plant Nos. 1 through 5.
    a. Adding the blocks in only one of the approach channels was shown to reduce the water level fluctuations, but having blocks on both shows the most significant reduction.

E. Next Project Milestone:
1. Pending development of an RFP/RFQ to conduct a comprehensive assessment of the CVC for a suite of potential solutions.
2. Determine if recommendations to install blocks in the A-side and B-side channel of the canal will be implemented.
    a. At the May 1, 2023 HIP ad hoc meeting, there was a discussion regarding the concern of increasing headloss due to the addition of the blocks. If any action is taken, the ad hoc committee recommended adding blocks to CVC Pool 2 in phases and evaluate the headloss near the forebay based on adding the blocks.
    b. More discussion is needed prior to moving forward.
    c. The dissipator blocks project was removed from the current CVC Operations and Maintenance Budget (CVC O&M Budget) at the request of the CVC Budget Subcommittee in November 2023.

4. Task F – Pumping Plant B Forebay Modifications

A. Description: Prepare contract bidding documents to hydraulically isolate Pumping Plant 'B' forebays and install pump forebay vortex mitigation modifications.
B. Consultant Contract: GEI – Task F
C. Participant Group: CVC Expansion Participants
D. Progress to Date:
1. Received draft 100 percent complete project drawing set on April 6, 2021.
2. Completed 100 percent complete contract bidding documents for Pumping Plant No. 2B.
3. Completed review of engineer's cost estimate for Pumping Plant No. 2B.
4. Completed partial value engineering analysis and procurement alternatives evaluation.
5. Completed staff recommendation for initial project scope of work.
6. Pumping Plant 'B' Forebay Vortex Reduction Project – Pumping Plant No. 2B project estimate of probable construction cost was estimated at $760,208 in May 2021. The HIP ad hoc requested Agency staff postpone the Notice to Invite Bids and determine any cost-saving alternatives. A summary of alternatives and potential cost savings was developed by Agency staff.
7. On June 21, 2021, the HIP ad hoc recommended proceeding with Alternative 2 to fabricate and install baffle walls at Pumping Plant No. 2B only.
8. Completed review of removeable baffle wall system price quotations from fabrication shops for Pumping Plant No. 2B.
9. Determined to delay purchase of inflatable dam system.
10. Received Agency Board approval to purchase baffle wall system for Pumping Plant No.

2B on December 15, 2021.
11. Approved purchase of CVC Pumping Plant No. 2B Forebay Baffle Wall Fabrication in December 2021.
12. Received baffle walls from fabricator in November 2022.
13. Installed baffle walls in Pumping Plant No. 2B in April 2024 and staff will monitor for reduction of vortices in the forebay.

E. Next Project Milestone:
1. Pending development of an RFP/RFQ to conduct a comprehensive assessment of the CVC for a suite of potential solutions.
2. Continue developing project procurement alternatives.
   a. More discussion with the HIP ad hoc is needed to determine the next step for this work.
3. Coordinate final design of pump forebay modifications with pump submergence analysis to verify elevational placement of proposed pump forebay modifications prior to the issuance of the project Notice of Award.
   a. The Project was postponed in June 2021 in favor of purchasing baffle walls.
   b. Agency staff will monitor forebay and baffle wall conditions at Pumping Plant No. 2B, report the results and reevaluate project based on the reported results.

5. Cross Valley Canal I-5 Siphon Outlet Freeboard Mitigation

A. Description: Prepare investigation and design of the CVC I-5 Siphon Outlet levees and canal liner to mitigate loss of freeboard during high-flow operations.
B. Consultant Contract: Meyer Civil Engineering, Inc. (Meyer)
C. Participant Group: CVC Integrated Canal Participants
D. Progress to Date:
1. Completed draft technical memorandum and feasibility analysis.
2. Completed staff review of draft technical memorandum and feasibility analysis.
3. Completed phased project feasibility analysis.
4. Updated draft technical memorandum and feasibility analysis based on staff review.
5. Finalized technical memorandum.
6. Received first draft of construction drawings for CVC Pool 2 Liner Raising Project.
7. Received 90 percent complete plans for CVC Pool 2 Liner Raising Project.
8. Finalized the review of 90 percent completed plan submittal for CVC Pool 2 Liner Raising Project.
9. Received and reviewed 95 percent completed plans and specifications for CVC Pool 2 Liner Raising Project.

E. Next project milestone:
1. Pending development of an RFP/RFQ to conduct a comprehensive assessment of the CVC for a suite of potential solutions.
2. Review and evaluate CVC Pool 2 Liner Raising Project design based on Task M – Post-expansion (1,422 cfs) HEC-RAS model compilation and hydraulic analysis.
   a. Meyer has completed 95 percent of the plans for the CVC Pool 2 Liner Raising - Phase 1 on December 23, 2021. Design was paused until the HEC-RAS model findings could be compared to Meyer's model. There was no direction given to Agency staff to continue completing the design of the CVC Pool 2 Liner Raising Project. Funds to complete the design are included in the 2025 CVC O&M Budget.
   b. Agency staff recommend raising the CVC Pool 2 liner elevation.
3. Request design proposal for CVC Pool 3 Liner Raising Project.
   a. Funds for the project design are included in the 2025 CVC O&M Budget pending the CVC Advisory Committee's approval to proceed with the project.

The CVC Pool 3 Liner Raising Project requires completion of the CVC Pool 2 Liner Raising Project.

b. Agency staff recommend raising the CVC Pool 3 liner elevation.

6. Field Verification of Model Evaluation

A. Requested by the HIP ad hoc committee during the May 1, 2023 meeting.
B. Description: Collect field data, including flow data, water surface elevations, Aqueduct deliveries and SCADA data for CVC Pools 1 through 6 at a flow rate near or greater than 1,000 cfs.
C. Work to be performed by Agency staff
D. Participant Group: CVC Integrated Canal Participants
E. Progress to Date:
   1. Scheduled preparation kick-off meeting.
   2. Discussed Agency staff roles and data collection process. Data collection work sheets and maps have been finalized for CVC Pools 1 through 3.
   3. Completed water surface elevation and flow data for CVC Pools 1 through 3 in March 2019.
F. Next project milestone:
   1. Conduct field verification on the model 1,000 cfs flow test of CVC Pools 4 through 6.
      a. Completed data collection field sheets and maps for CVC Pools 4 through 6.
      b. Collected water surface elevations and flow data on December 19, 2023. Measured flow was 790 cfs in Pool 4, 602 cfs in Pool 5, and 371 cfs in Pool 6.
   2. Discuss field verification data following data collection.

Completed Projects

1. Task C – Pumping Plant B Spare Pump Procurement

A. Description: Procure one spare 800-horsepower (hp) pump, two spare 700-hp pumps and one spare 600-hp pump for 'B' Pumping Plants.
B. Consultant Contract: GEI – Task C
C. Participant Group: CVC Integrated Canal Participants
D. Progress to Date:
   1. Performed Agency staff review of Cascade Pump 600-hp spare pump proposal.
   2. Completed evaluation of existing 600-hp motor thrust values.
   3. Reviewed spare pump alternatives based on existing motor thrust rating limitations.
   4. Received updated Cascade Pump 600-hp spare pump price quotation.
   5. Completed review of updated Cascade Pump 600-hp spare pump price quotation.
   6. Received Agency Board approval to executed change order #4 on September 23, 2021.
   7. Issued the Notice to Proceed to Cascade Pumps.
   8. Performed field measurements of existing pump by Cascade Pumps.
   9. Received pump submittals and analysis from Cascade Pumps on February 2, 2022.
   10. Completed submittal review and provided Cascade review comments.
   11. Finalized submittal.
   12. Received completed pump design from Cascade Pump's engineering department.
   13. Finalized the casting machining process and fabricated the pump.
   14. Coordinated the delivery of the 600-hp motor to Cascade Pump, which occurred in December 2022.
   15. Inspected and tested the 600-hp pump.
   16. Received pump, bowl assembly and motor from Cascade Pump.

17. Filed Notice of Completion in June 2023.
18. Project complete.

2. Task E – Pumping Plant Power Outage Mitigation

A. Description: Develop modifications to the pumping plant electrical control relays to provide more information to Agency staff during electrical outages and allow Agency staff to restore electrical power more quickly.
B. Consultant Contract: GEI – Task E
C. Electrical Field Consultants: Electrical Power Systems (EPS) and Northern Digital Inc. (NDI)
D. Participant Group: CVC Integrated Canal Participants
E. Progress to Date:
   1. Completed staff recommendation and implementation plan for mitigation measures.
   2. Completed evaluation facility scheduled outages for implementation of mitigation measures.
   3. Received engineering consultant design proposal for implementation of mitigation measures.
   4. Reviewed and evaluated the submitted proposals for all the pumping plants.
   5. Requested a revised proposal to focus on Pumping Plant Nos. 1B and 2B.
   6. Received consultant proposals for Pumping Plant Nos. 1B and 2B.
   7. Received electrical consultant recommended changes to engineering consultant's proposal that design was not needed and issues could be addressed with updated programming at the individual sites.
   8. Performed site evaluation at all 'B' Pumping Plants and modified programming.
   9. Operated 'B' Pumping Plants with programming modifications to determine if issues were addressed.
   10. Discussed 'A' Pumping Plants with consultants and developed a plan to address outage issues.
   11. Reviewed 'A' Pumping Plant plan and determined cost and schedule.
   12. Performed site evaluation at all 'A' Pumping Plants.
   13. Prepare construction plans for conduit and equipment installation.
   14. Project completed.

3. Pioneer Inlet Modifications and Repair

A. Description: Prepare Computational Fluid Dynamics (CFD) model on the Pioneer Inlet (Inlet) to evaluate and provide final design parameters based on the selected alternative from the feasibility study. Once the CFD model is completed, the design to repair and modify the Inlet to minimize impacts of Inlet operations in CVC Pool 5. The project will also address structural damage to the Inlet and adjoining CVC concrete canal liner from 2017 high-flow operations.
B. Consultant Contract: GEI
C. Participant Group: CVC Integrated Canal Participants
D. Progress to Date:
   1. Completed final conceptual design based on CFD model.
   2. Completed final inlet facility design.
   3. Received, reviewed and commented on 30, 60 and 99 percent complete drawings.
   4. Issued notice to proceed for the geotechnical analysis.
   5. Received and reviewed geotechnical investigation report.
   6. Authorized GEI proposal to finalize plans, specifications and cost estimate package, prepare construction schedule, provide bid, and design support during construction.
   7. Met with Agency staff to determine project schedule.

8. Receive 100 percent complete plans and specifications.
9. Finalize bid set.
10. Received Agency Board approval for Notice to Invite Bids on September 22, 2022.
11. Opened bids October 28, 2022.
12. Presented and obtained recommendation to award contract at the November 14, 2022 CVC Advisory Committee meeting.
13. Presented and obtained approval to award contract at the November 16, 2022 Agency Board meeting.
14. Filed Notice of Completion recorded July 1, 2024.
15. Project completed.

4. Task L – Pre-Expansion (922 cfs) Hydraulic Capacity Evaluation

A. Description: Prepare a HEC-RAS model reflecting changes to the CVC between 1976 and 2007 to analyze the flow of the canal prior to Expansion.
B. Consultant Contract: GEI – Task L
C. Participant Group: CVC Integrated Canal Participants
D. Progress to Date:
1. Reviewed consultant proposal with HIP ad hoc.
2. Received Agency Board approval to execute Task L on January 27, 2022.
3. Held start-up meeting with HIP ad hoc on February 17, 2022.
4. Performed hydraulic model testing and verification to validate parameters.
   a. Reviewed Boyle Technical Memorandum No. 4 Final – 10/11/04.
   b. Reviewed October 5, 2020 CVC Hydraulic Improvements Project - CVC Original Construction Hydraulic Capacity Evaluation Final Technical Memorandum.
5. Met with HIP ad hoc on March 23, 2022 to review hydraulic model testing and verification to validate parameters.
6. Received proposal for out-of-scope work for additional analysis as requested by HIP ad hoc.
7. Met with HIP ad hoc to review proposal for out-of-scope work (Task L -3A).
8. Provided Task L general project update to CVC Advisory Committee on April 27, 2022.
9. Received recommendation to approve Task L – 3A from CVC Advisory Committee on April 27, 2022.
10. Received Agency Board approval to execute Task L – 3A on April 28, 2022.
11. Presented Task L - 3A parameter recommendations to the HIP ad hoc on May 31, 2022.
12. Received approval from HIP ad hoc on May 31, 2022 to use recommended parameters and move forward with model runs.
13. Received additional questions about recommended parameters from HIP ad hoc on June 6, 2022.
14. Hold work on the model runs until concurrence from HIP ad hoc.
15. Received direction from HIP ad hoc on June 28, 2022 to present consultant findings and recommendations to CVC Advisory Committee and request direction.
16. Presented Task L-3A parameter recommendations and general project update to CVC Advisory Committee on July 27, 2022.
17. Received direction from CVC Advisory Committee on July 27, 2022 to move forward with Task 5 utilizing consultant recommendations for model parameters.
18. Completed Task 5, CVC Pools 1 through 6 model runs using design flowrates and recommended parameters.
19. Discussed results with HIP ad hoc and developed additional eight model run scenarios.
20. Presented Task 5 final model run scenario results with HIP ad hoc on September 12, 2022.

21. Prepared draft hydraulic analysis report and submitted to HIP ad hoc on October 10, 2022 for review and comment.
22. Collected and compiled comments from HIP ad hoc review by November 1, 2022.
23. Presented Task 5 results and general project update at the November 14, 2022 CVC Advisory Committee meeting.
24. Finalized final hydraulic analysis report on December 1, 2022.
25. Distributed final report to the CVC Advisory Committee members.
26. Project complete.

5. Task M – Post-Expansion (1,422 cfs) Hydraulic Capacity Evaluation

A. Description: Prepare a HEC-RAS model reflecting changes to the CVC based on the 2007 canal Expansion.
B. Consultant Contract: GEI – Task M
C. Participant Group: CVC Integrated Canal Participants
D. Progress to Date:
   1. Reviewed consultant proposal with HIP ad hoc.
   2. Received Agency Board approval to execute Task M on November 16, 2022.
   3. Scheduled preparation meetings and HIP ad hoc meetings.
   4. Discussed Post-expansion parameters and geometry data, which will be used in the model runs, with the HIP ad hoc for concurrence.
   5. Completed CVC Pools 1 through 6 model runs using design flowrates, recommended parameters and defined geometry.
   6. Discussed results with HIP ad hoc and developed additional eight model run scenarios.
   7. Presented final model run scenario results to HIP ad hoc.
   8. Presented Task M findings and general project update to CVC Advisory Committee on February 22, 2023.
   9. Prepared draft hydraulic analysis report and submitted to HIP ad hoc for review and comment.
   10. Collected and compiled comments from HIP ad hoc.
   11. Received final hydraulic analysis report on August 4, 2023.
   12. Final hydraulic analysis report completed August 4, 2023. All comments were addressed in an email and sent out to HIP ad hoc. Final report sent to the CVC Advisory Committee on May 5, 2025.

MEMORANDUM

20.3.3

TO: Cross Valley Canal Advisory Committee
Agenda Item No. 7a

FROM: Steve Yoder

DATE: August 27, 2025

SUBJECT: Report on Cross Valley Canal Operations and Deliveries

Issue:
Report on Cross Valley Canal operations and deliveries.

Recommended Motion:
None – information only.

Discussion:
A summary and graph of the Cross Valley Canal operations, maintenance and deliveries for July 2025 is provided as Attachment 1.

CROSS VALLEY CANAL
REPORT ON OPERATIONS, MAINTENANCE AND DELIVERIES
AUGUST 2025

CROSS VALLEY CANAL

OPERATIONS

Preliminary inflows and deliveries for the month of July were as follows:

Deliveries by Turnout:	California Aqueduct SWP (AF)	California Aqueduct CVP (AF)	CVC Total (AF)
Rosedale-Rio Bravo Turnout No. 1	3,967	-	3,967
Arvin-Edison Turnout	6,210	-	6,210
Friant-Kern Canal Pump-in	885	4,052	4,937
Lined Losses - Pools 1-6	138	48	186
Lined Losses – Pool 7	4	-	4
Henry C. Garnett Water Purification Plant	421	-	421
Total	11,625	4,100	15,725

MAINTENANCE AND REPAIRS

- Repaired the packing box on and reinstalled pump 3G (100 hp) at CVC Pumping Plant No. 3A;
- Rebuilt a spare siphon breaker actuator for CVC pumps;
- Cleaned CVC pumps and pumping plant buildings using the water truck;
- Pulled motor 1D (565 hp) at CVC Pumping Plant No. 1A and delivered it to the motor shop for repairs;
- Installed pump 1A (100 hp) at CVC Pumping Plant No. 1A;
- Pulled pump 4B (250 hp) at CVC Pumping Plant No. 4A;
- Cleaned the ARMCO trashracks for Improvement District No. 4 (ID4) using the Gradall excavator;
- Installed a new Programable Logic Control terminal block at CVC Pumping Plant No. 3B;
- Performed electrical preventative maintenance on CVC turnouts;
- Electrically disconnected pump 6M (600 hp) at CVC Pumping Plant No. 6B;
- Replaced the speed sensor on pump 1A (100 hp) at CVC Pumping Plant No. 1A;
- Made an emergency delivery to ID4;
- Dewatered River Turnout No. 1 and performed a gate inspection;
- Escorted the contractor to troubleshoot CVC Supervisory Control and Data Acquisition radios;
- Replaced air conditioner filters at all CVC pumping plants;
- Transported recyclable metals to recycling site;
- Performed mechanical cleaning of pumping plant forebays and walk decks using Gradall excavator;
- Burned tumbleweeds along CVC fence lines and rights-of-way when permitted by San Joaquin Valley Air Pollution Control District;
- Assisted electrical staff with multiple motor control issues at various pumping plants;
- Continued to collect groundwater level measurements from CVC Pools 1-8 piezometers;
- Performed spare motor maintenance by spinning motor shafts on all spare motors at CVC Operations and Maintenance (O&M) Center;
- Performed post-emergent herbicide applications;

- Performed minor fence and gate repairs;
- Performed road and levee maintenance and washout repairs along CVC rights-of-way;
- Performed siphon breaker and compressor checks throughout entire CVC system;
- Performed electrical preventative maintenance checks and testing at all CVC Motor Control Centers (MCC);
- Performed routine maintenance activities that included vehicle and heavy equipment maintenance repairs, pump maintenance and interior MCC buildings cleaning; and
- Performed a monthly safety inspection at the CVC O&M Center.

MEMORANDUM

20.3.3

TO: Cross Valley Canal Advisory Committee
Agenda Item No. 7b

FROM: Monica Tennant

DATE: August 27, 2025

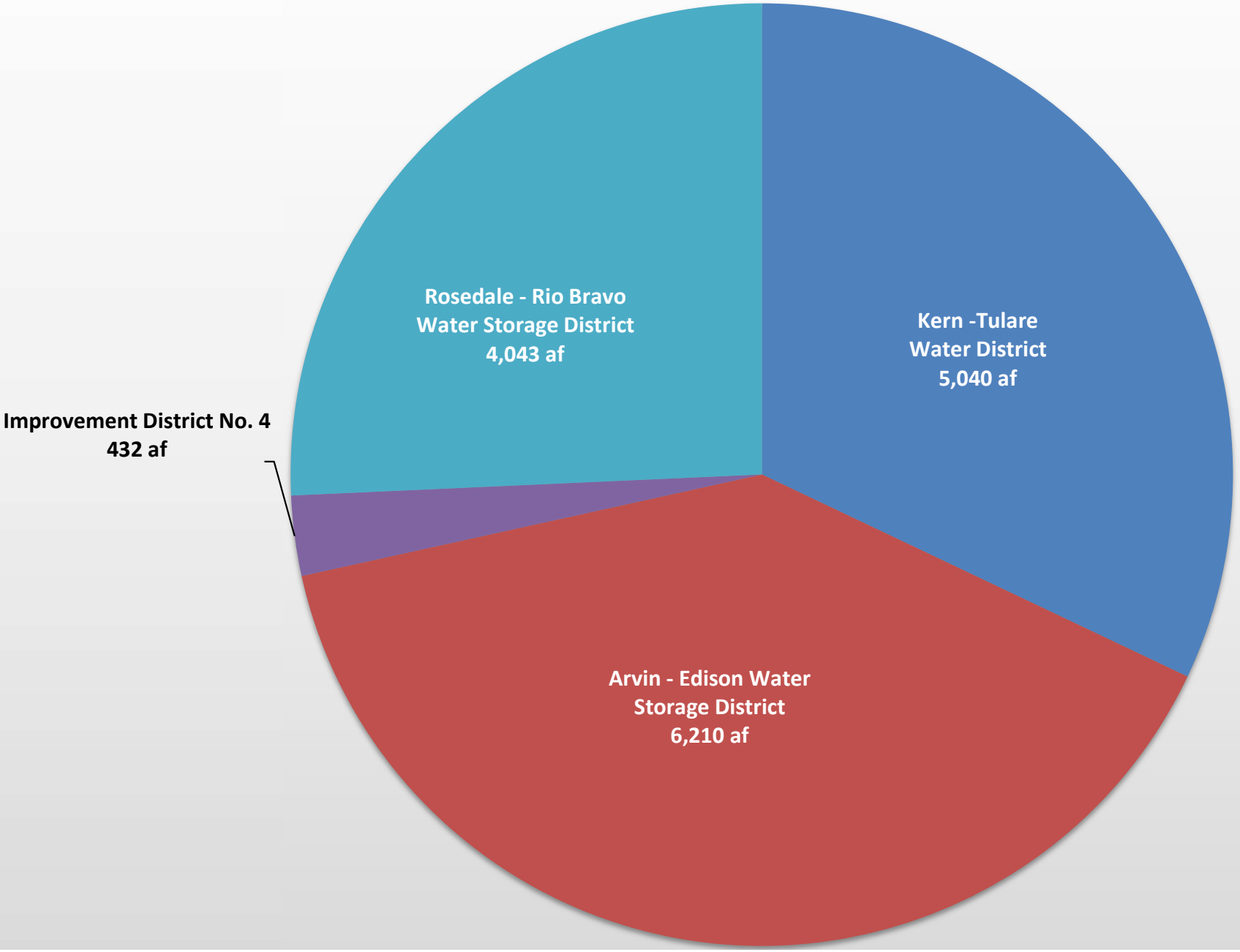
SUBJECT: Report on Cross Valley Canal Operations and Deliveries

Issue:
Report on Cross Valley Canal operations and deliveries.

Recommended Motion:
None – information only.

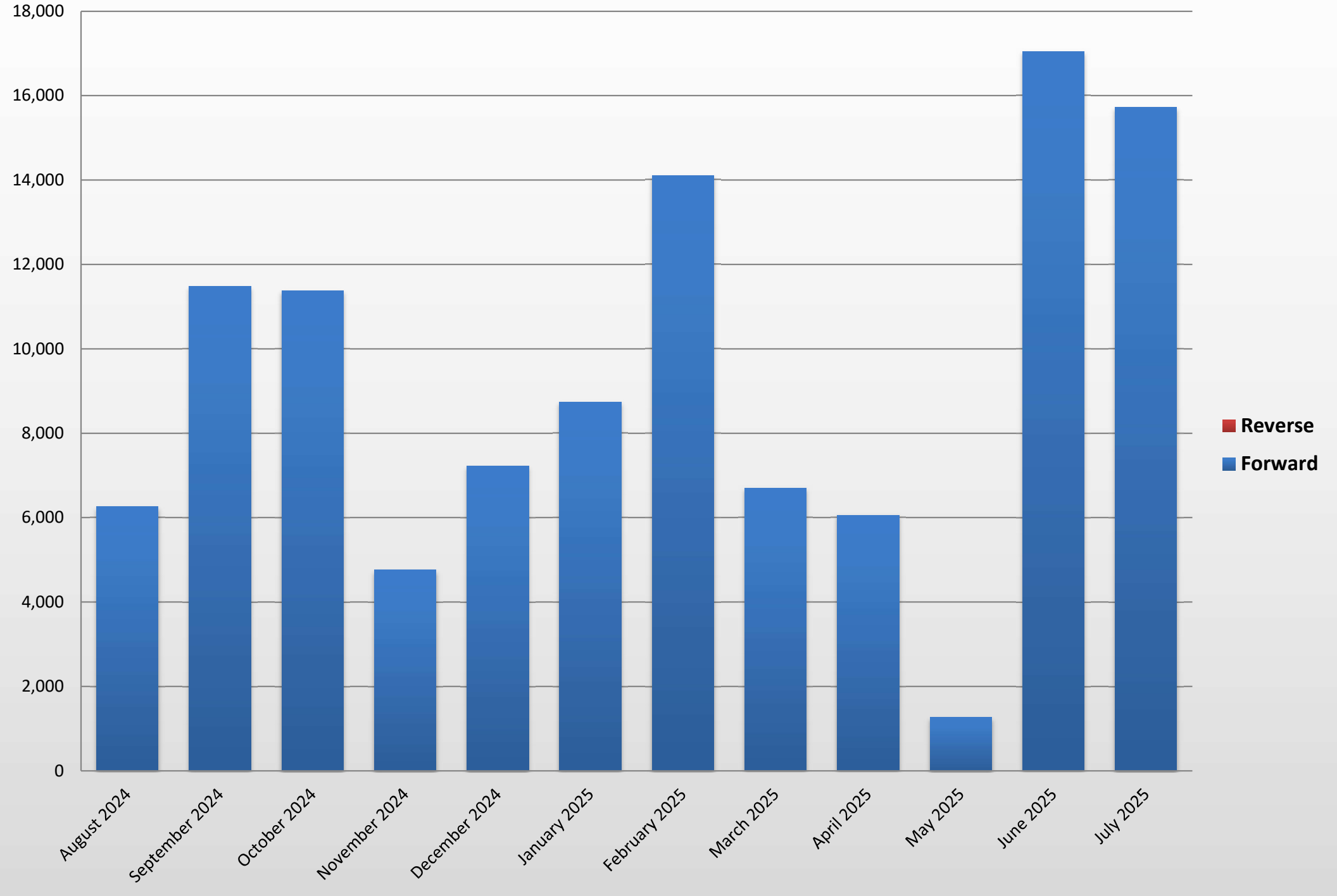
Discussion:
A summary and graph of the Cross Valley Canal (CVC) operations, maintenance and deliveries for July 2025 is provided as Attachment 1. Graphs illustrating deliveries by direction of flow and by source over the last 12 months are provided as Attachments 2 and 3. A schematic illustrating current CVC operations is provided as Attachment 4. A schematic illustrating the current maintenance and availability status of the pumps and motors at each pumping plant is provided as Attachment 5.

Cross Valley Canal
July 2025 Deliveries
Total deliveries 15,725 af



Attachment 2

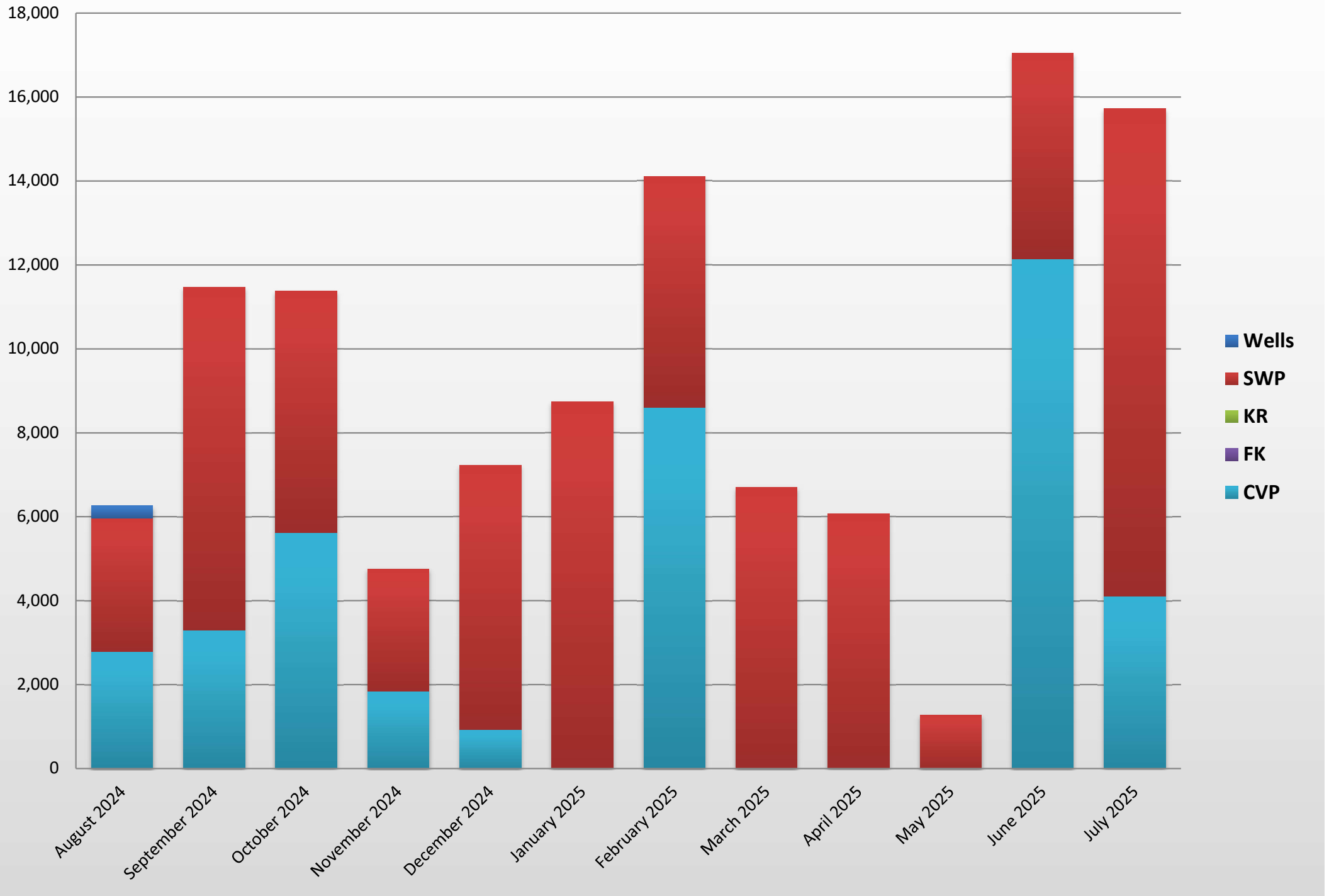
Cross Valley Canal
Twelve Month Delivery by Direction

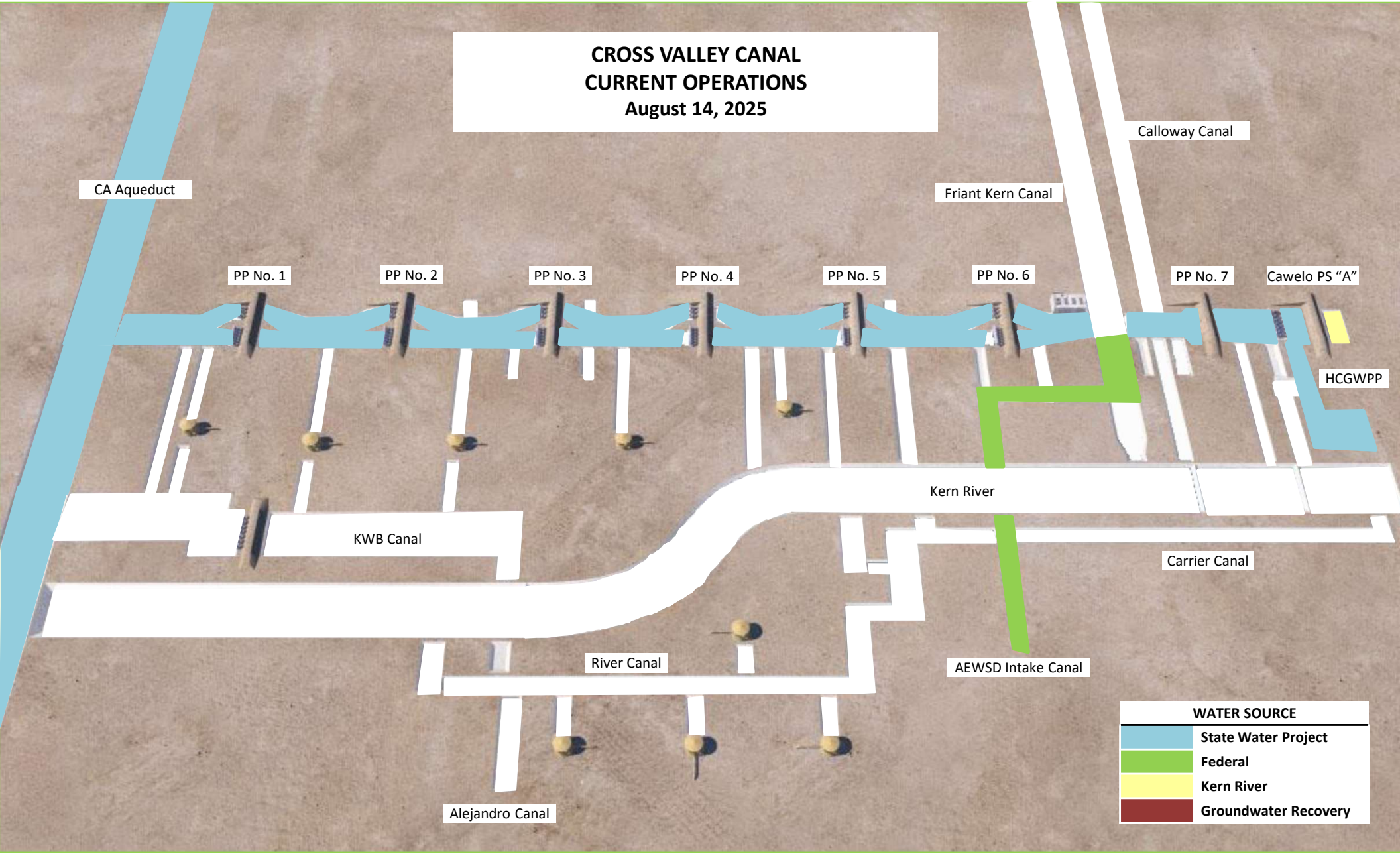


Attachment 3

Cross Valley Canal

Twelve Month Delivery by Source




CROSS VALLEY CANAL
CURRENT OPERATIONS
August 14, 2025
CA Aqueduct
Calloway Canal
Friant Kern Canal
PP No. 1
PP No. 2
PP No. 3
PP No. 4
PP No. 5
PP No. 6
PP No. 7
Cawelo PS "A"
HCGWPP
Kern River
KWB Canal
Carrier Canal
River Canal
AEWSD Intake Canal
Alejandro Canal
WATER SOURCE
State Water Project
Federal
Kern River
Groundwater Recovery

Cross Valley Canal

Pump and Flow Configuration

Last Updated on August 21, 2025

		'A' Pumping Plants										'B' Pumping Plants					
		A	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**J**	**Total cfs**	**K**	**L**	**M**	**N**	**Total cfs**	**Total cfs**
Pumping Plant No. 1	Estimated Horsepower	100	250	565	565	565	565	250	100			800	800	800			
	Estimated Flow Rate (cfs)	31	70	180	9/18/25	180	180	70	31		**742**	167	167	167		**500**	**1,242**
Pumping Plant No. 2	Estimated Horsepower	100	250	565	565	565	565	250	100			700	700	700			
	Estimated Flow Rate (cfs)	31	70	180	180	10/1/25	180	70	31		**922**	167	167	167		**500**	**1,422**
Pumping Plant No. 3	Estimated Horsepower	100	250	565	565	565	250	100	250	100		700	700	700			
	Estimated Flow Rate (cfs)	31	70	180	180	180	70	31	70	31	**843**	167	167	167		**500**	**1,343**
Pumping Plant No. 4	Estimated Horsepower	100	250	565	565	565	250	100	250	100		700	700	700			
	Estimated Flow Rate (cfs)	31	9/1/25	180	180	180	70	31	70	31	**773**	167	167	167		**500**	**1,273**
Pumping Plant No. 5	Estimated Horsepower	100	250	565	565	565	250	100	250	100		700	700	700			
	Estimated Flow Rate (cfs)	31	70	180	180	180	70	31	70	31	**843**	167	167	167		**500**	**1,343**
Pumping Plant No. 6	Estimated Horsepower	100	250	565	565	565	250	250	100			200	600	600	350		
	Estimated Flow Rate (cfs)	31	70	180	180	180	70	70	31		**812**	40	193	9/18/25	90	**323**	**1,135**
Pumping Plant No. 7	Estimated Horsepower	100	250	250	250	250	100										
	Estimated Flow Rate (cfs)	31	70	70	70	70	31				**342**						**342**

Note: Return to service dates are subject to change.

Current spares:

- Bell/Bowl/Impeller sets: 100 hp (31cfs), 250 hp (70cfs) and 400 hp (140 cfs);
- Pump/Appurtenances: 600 hp (200 cfs), 700 hp (167 cfs) and 800 hp (167 cfs); and
- Motors: 100 hp, 200 hp, 250 hp, 350 hp, 400 hp, 600 hp, 700 hp and 800 hp.

Pump out for service

Motor out for service

MEMORANDUM

20.3.3

TO: Cross Valley Canal Advisory Committee
Agenda Item No. 8

FROM: J.T. Gardiner

DATE: August 27, 2025

SUBJECT: Recommendation to Request Proposals for Engineering and Design Services for the Input/Output Card Modernization Project at the Cross Valley Canal Pumping Plants

Issue:
Consider authorizing the Water Resources Manager to request proposals for Engineering and Design Services for the Input/Output Card Modernization Project at the Cross Valley Canal Pumping Plants.

Recommended Motion:
Recommend the Water Resources Manager to request proposals for Engineering and Design Services for the Input/Output Card Modernization Project at the Cross Valley Canal Pumping Plants, subject to approval of General Counsel as to legal form, as outlined in the August 27, 2025 staff memorandum to the Cross Valley Canal Advisory Committee, Agenda Item No. 8.

Discussion:
The Supervisory Control and Data Acquisition (SCADA) system for the 13 Cross Valley Canal (CVC) pumping plants relies on now outdated Programable Logic Controllers (PLC) and Signal Line Circuit Input/Output (I/O) cards. Since the equipment is obsolete, obtaining replacement parts and service is very difficult. The Kern County Water Agency (Agency) requires a qualified electrical engineering consultant to develop a complete set of bid documents for public bidding of the work to upgrade all the existing PLCs and I/O cards at each of the 13 CVC pumping plants. The new equipment will be designed to communicate with the existing CVC SCADA system.

Agency staff are seeking authorization to request proposals from contractors for the Engineering and Design Services for the Input/Output Card Modernization Project at the CVC Pumping Plants.

Agency staff will notify qualified contractors to promote the Request for Proposal, as provided as Attachment 1. Proposals will be opened in late September 2025. After the proposals are opened and reviewed, staff will present a recommendation to the Agency Board of Directors at the next regularly scheduled meeting following the bid opening. Money for this project will be expended from the 2025 CVC Operations and Maintenance Budget.

Kern County Water Agency

Request for Proposal for:

Engineering and Design Services for the Input/Output Card Modernization Project at Cross Valley Canal Pumping Plants

A. Introduction

The Kern County Water Agency (Agency) is soliciting proposals through this Request for Proposal for a Consultant to provide electrical engineering design services to prepare the bidding documents (specifications and plans) for the Input/Output (I/O) Card Modernization Project at the thirteen (13) Cross Valley Canal (CVC) pumping plants. Work includes providing all labor, materials and equipment necessary to prepare a complete set of documents for public bidding of the project by the Agency.

B. Instructions to Consultants

The Agency will be accepting proposals up to **3:00 p.m. on Wednesday, September 24, 2025**. Proposals shall include the Agency's Request for Proposal and the Schedule of Work Items in Attachment A and shall be submitted to J.T. Gardiner at jgardiner@kcwa.com.

Alterations or additions to the typewritten portion of the forms that add new or different terms or change the intent of the forms will not be considered by the Agency, may be deemed by the Agency to render a proposal as non-responsive, and if a Consultant is awarded a Contract will not be deemed incorporated into the Contract. Proposals that are incomplete, unbalanced, obscure, contain irregularities or do not comply with requirements of the Request for Proposal may be deemed by the Agency to render a Proposal as non-responsive.

The Consultant's proposal shall include a fee breakdown showing the various tasks, number of hours and labor rates for the various tasks. The proposed fee shall be on a time and materials expended, not-to-exceed basis.

The Consultant's proposal shall also include relevant experience and qualifications, demonstrating the Consultant's capabilities and capacity to perform the work. In addition, resumes of key staff (i.e., project manager, engineers and subconsultants) shall be included.

C. General Information

The Agency is seeking a Consultant to develop bidding documents for modernizing the programmable logic controllers (PLC) and I/O cards at the Agency's thirteen (13) CVC pumping plants. The Agency will execute a Contract with the selected Consultant. A sample of the Contract is included as Attachment B.

In connection with its proposal, the Consultant must certify that its firm has a minimum of five (5) years of experience in the design of similar power and control upgrades.

The Agency reserves the right to reject any and all proposals and to waive any irregularities in the proposals submitted.

The Agency's Engineering and Groundwater Services Department Manager will select the Consultant to perform the work based on the proposal provided.

Any proposal submitted must be valid for a period of 90 calendar days from the date of submission to the Agency.

Being selected as the design consultant for this project will **NOT** preclude the Consultant from bidding on the construction component of the project (i.e., equipment procurement, installation and integration of the new equipment).

D. Background Information on the Cross Valley Canal

The CVC is 21.5 miles in length. The majority of the canal is concrete lined to minimize water loss, while a small unlined section allows for recharge (percolation). The CVC consists of seven pumping plants and is divided into eight pools, between pumping plants. Pumping Plant Nos. 1 through 6 each have two separate pump stations, an A side and a B side, as the canal is bifurcated prior to the forebay and after the afterbay of each pumping plant. The A side and B side of each of the pumping plants are equipped with multiple pumps. At Pumping Plant No. 7, there is only a single set of pumps (side A). The pump sizes range from 100 horsepower (hp) to 800 hp. Depending on the pool, the canal may include siphons, turn-outs, interties or discharge pipes that enable water to be delivered into or be diverted from the canal. The CVC connects to the California Aqueduct, groundwater banking projects, various water district turnouts, the Agency's Henry C. Garnett Water Purification Plant and the Friant-Kern Canal. Water conveyed through the CVC is used for agricultural, municipal and industrial and groundwater banking purposes.

E. Scope of Services

The goal of this project is to provide a complete set of bid documents for public bidding of the work to upgrade all the existing PLCs and I/O cards at each of the thirteen (13) CVC pumping plants. These upgrades apply to Pumping Plant Nos. 1 through 6, both the A and B sides, and Pumping Plant No. 7 (A side only). The existing Supervisory Control and Data Acquisition (SCADA) system utilizes Allen-Bradley equipment. All new equipment specified must be able to communicate with the existing SCADA system. The bid documents shall cover the following work items for complete procurement, installation, integration and commissioning by the future Contractor:

1. Removal of the existing and obsolete Allen Bradley Signal Line Circuit (SLC) I/O modules;
2. Procurement and installation of new PLCs and I/O modules at each of the pumping plants;
3. Rewiring;
4. PLC programming;
5. Loop testing;
6. Start up; and
7. Commissioning.

The Consultant shall provide the following design deliverables to the Agency for review and comment during the design:

1. Preliminary design report. At a minimum, the report shall include the following information and/or drawings:
   a. Panel design modifications required for the equipment upgrades;
   b. Basic specifications and features of the proposed equipment;
   c. Verification of compatibility with the existing SCADA system;
   d. Preliminary cut over plan for installation of the upgrades to minimize the amount of time any and all systems and equipment are shut down or under manual operation;
   e. List of all materials and equipment needed for installation of the project; and
   f. Cost estimate to procure, install, program and commission the new equipment for full functionality.

2. Bid document submittals at 70 percent and 100 percent design for review and comment by the Agency. The bid documents will include requirements for:
   a. Specifications for all equipment to be provided by the Contractor;
   b. Details on removal of existing equipment and installation of new PLC equipment;
   c. Complete plans and specifications detailing the upgrades, modifications and new construction for a fully functional system at each pumping plant with full compatibility with the existing SCADA system;
   d. PLC Programming;
   e. Loop checks;
   f. Commissioning;
   g. System cutover and start up;
   h. Final document preparation for Agency use; and
   i. Customer/User training.

3. The 70 percent and 100 percent design submittals shall include an engineer's estimate of the equipment and installation costs for a complete and fully functional system.

4. Final bid set of documents ready for public bidding by the Agency with all Agency comments addressed and incorporated.

The Consultant's proposal shall include a proposed schedule for execution of the design services. The design services shall be completed no later than 160 calendar days from execution of the Contract. The 160 days shall include time for Agency review and comment on design submittals. The Consultant may assume that each of the Agency reviews will take no longer than 14 calendar days.

Consultant shall provide project management, including coordination with the Agency and monitoring the project schedule and budget.

The Agency will perform/provide the following:

1. Provide record drawings and information as available; and

2. Conduct a tour for the selected Consultant and provide access to all affected panels and equipment.

F. Submittals

During the course of the Contract, the Consultant shall submit the following items for review and acceptance by the Agency:

1. Preliminary Design Report in PDF format;

2. Bid documents and engineer's cost estimate, as defined above, at 70 percent design, in PDF format;

3. Specifications in Microsoft Word document format; and

4. Bid documents and engineer's cost, as defined above, at 100 percent design, in PDF, AutoCAD, Microsoft Word and Microsoft Excel.

All files submitted become the property of the Agency.

G. Attachments

1. Attachment A – Schedule of Work Items

2. Attachment B – Contract Sample

H. Project Constraints

1. Consultant will have 160 calendar days from Agency's execution of the Contract to complete all work.

2. Consultant will only access pumping plants, panels and equipment when accompanied by Agency staff.

I. Miscellaneous

1. Consultant must comply with personal protective equipment requirements as requested by the Agency.

2. Consultant shall include all applicable sales taxes in the total price.

Please contact J.T. Gardiner at (661) 634-1460 or jgardiner@kcwa.com with any questions regarding this request for proposal or if you would like to schedule an on-site visit prior to the proposal submittal date.

ATTACHMENT A

SCHEDULE OF WORK ITEMS

Item No.	Item	Proposed Fee (in figures)
1	Preliminary Design Report, including all preliminary work	$
2	70 percent Design Documents	$
3	100 percent Design & Final Documents	$
4	Project Management	$
Total Base Bid Price:	$	

Attach fee and labor estimate to Attachment A.

The proposal and questions shall be emailed to J.T. Gardiner at jgardiner@kcwa.com . The proposal must be received no later than 3:00 p.m. on September 24, 2025.

Signature of Consultant: _____

Printed Name: _____

Title: _____

Company: _____

Dated: _____

ATTACHMENT B

KERN COUNTY WATER AGENCY
AGREEMENT
FOR
PROFESSIONAL CONSULTING SERVICES

This Agreement is made this ___ day of ___, 2025 by and between the Kern County Water Agency, a political subdivision of the State of California, hereinafter referred to as "Agency", and _____, hereinafter referred to as "Consultant".

WITNESSETH:

WHEREAS, the Agency requires professional electrical engineering services for the Input/Output (I/O) Card Modernization at Cross Valley Canal (CVC) Pump Stations Project; and

WHEREAS, said services require familiarity with electrical and controls engineering and guidelines; and

WHEREAS, Consultant is knowledgeable and experienced in the areas required for successful completion of the activities set forth below and possesses special knowledge and expertise on the specific projects involved.

NOW, THEREFORE, in consideration of the covenants and conditions herein contained, the parties hereto agree as follows:

The Agency does hereby retain Consultant as an independent contractor and Consultant shall provide the necessary professional services as specified herein.

I. Scope of Service:

Consultant shall provide consulting services, advice and assistance as requested by the Agency's Engineering and Groundwater Services Manager or such other person or officer whom the Agency or the General Manager may designate. Consultant shall be responsible for the competent performance of requested services. Consultant's scope of services is included herein as Exhibit A.

II. Subcontract Services:

It is agreed that subcontracting of services shall not ordinarily be required. Subcontracts must be approved in writing by the Agency prior to commencement of any work which must be specifically authorized by the Agency.

III. Term of Agreement:

A. This Agreement shall become effective on _____, 2025 and shall terminate _____, 2025.

B. The Agency and/or Consultant may terminate this Agreement for any reason with thirty (30) days written notice.

C. In the event of termination, all finished or unfinished data, studies, maps, reports and other documents prepared by Consultant for the Agency, shall upon payment in full for services completed prior to termination, become the Agency's property and Consultant shall deliver such items to the Agency.

D. In the event of termination, the Agency shall pay Consultant for all authorized services performed and all authorized expenses incurred to date of termination of the Agreement.

IV. Compensation:

Compensation under this Agreement shall not exceed $_____ in total without express written approval of the Engineering and Groundwater Services Manager or General Manager as authorized by the Agency Board of Directors.

V. Payment of Compensation:

Charges shall be billed monthly to the Agency prior to the 10th of each month and payment by the Agency shall be made within 60 days of receipt of each undisputed monthly invoice. Detailed invoices shall include billing for all hours worked and expenses incurred by Consultant during each month of services rendered to the Agency in conformance with the Agreement plus any charges for approved subcontracted services. Invoices shall be submitted in duplicate to the Kern County Water Agency, 3200 Rio Mirada Drive, Bakersfield, CA 93308, Attention: Accounts Payable. Consultant shall keep adequate records of all services and charges to the Agency and make them available if requested by the Agency.

VI. Documents:

All data, studies, maps, reports and other documents shall, upon payment in full for the services described in the Agreement, be furnished to and become the property of the Agency. Consultant at his option may retain copies of data, studies, maps, reports and other documents for his files.

VII. Insurance and Indemnification:

Consultant agrees with the Agency that:

A. To the fullest extent permitted by law, Consultant will indemnify and hold harmless the Agency, its directors, officers, employees and authorized volunteers from and against any and all claims, costs, losses, damages and demands of all persons arising out of the performance of the work described herein to the extent caused by Consultant's willful misconduct or negligent performance of its duties and obligations under this Agreement. Consultant is not responsible for any claims, costs, losses, damages or demands of all persons resulting from the negligence, or willful misconduct of the Agency, its directors, officers, employees and authorized volunteers.

B. By Consultant's signature hereunder, Consultant certifies that Consultant is aware of the provisions of section 3700 of the California Labor Code which requires every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and that Consultant will comply with such provisions if employing individuals.

C. Consultant will file with the Agency, if requested, before beginning professional services, a certificate of insurance satisfactory to the Agency evidencing general liability coverage of not less than $1,000,000 per occurrence for bodily injury, personal injury and property damage; auto liability of at least $1,000,000 for bodily injury and property damage each accident limit; and professional liability insurance with a policy limit of at least $1,000,000. The general liability coverage shall give the Agency, its directors, officers, employees and authorized volunteers additional insured status. Any insurance, self-insurance or other coverage maintained by the Agency, its directors, officers, employees, or authorized volunteers shall not contribute to it. Coverage is to be placed with a carrier with an A.M. Best rating or no less than A-: VII, or equivalent, or as otherwise approved by the Agency. In the event that the Consultant employs subcontractors as part of the work covered by this Agreement (subject to the prior written

approval of the Agency), it shall be the Consultant's responsibility to require and confirm that each subcontractor meets the minimum insurance requirements specified above.

D. If any of the required coverages expire during the term of this Agreement, the Consultant shall deliver the renewal certificate(s) including the general liability additional insured endorsement to the Agency at least ten (10) days prior to the expiration date.

E. Premiums for all insurance required hereunder are the responsibility or Consultant and not of the Agency.

F. Consultant will comply with applicable local, State, and federal regulations and statutes including Cal/OSHA requirements.

IX. Attorneys' Fees:

In the event an action is commenced by a party to this Agreement against any other party or parties hereto to enforce its rights or obligations arising from this Agreement, the prevailing party in such action, in addition to any other relief and recovery awarded by the court, shall be entitled to recover all statutory costs plus a reasonable amount of attorneys' fees.

X. Successors and Assigns:

All of the terms, conditions, and provisions hereof shall inure to the benefit of and be binding upon the parties hereto, and their respective successors and assigns; provided, however, that no assignment of this Agreement shall be made without written consent of the parties to this Agreement. It is acknowledged by Consultant that the primary interest of the Agency in entering the contract is to obtain the personal expertise and knowledge of Consultant and that acceptance or rejection of any proposed assignment is within the sole discretion of the Agency.

XI. Notice:

Any notice or instrument required to be given or delivered by this Agreement may be given or delivered by personal delivery or by depositing the same in a United States Post Office, registered or certified, postage prepaid, addressed to:

AGENCY: Kern County Water Agency
3200 Rio Mirada Drive
Bakersfield, CA 93308
ATTN: Engineering and Groundwater Services Manager

CONSULTANT: _____
_____
_____
ATTN: _____

and shall be effective upon receipt thereof.

XII. Legal Representation:

The parties represent and acknowledge that each of them has had the opportunity to be represented by legal counsel with respect to this Agreement and that each party has had the opportunity to be fully advised with respect to all rights that are affected by this Agreement.

XIII. Integration:

This Agreement represents the entire understanding of the Agency and Consultant as to those matters contained herein. No prior oral or written understanding shall be of any force or effect with

respect to those matters covered hereunder. This Agreement may not be modified or altered except by an amendment to this Agreement evidenced in writing and executed by the parties hereto.

IN WITNESS WHEREOF, the Agency and Consultant have executed this Agreement on the day and year first herein above set forth.

KERN COUNTY WATER AGENCY

By:_____
Engineering and Groundwater Services Manager

CONSULTANT

By:_____
Name of Consultant Firm

EXHIBIT A

(Scope of Work)

The Consultant will perform the following engineering services for the Input/Output (I/O) Card Modernization at CVC Pump Stations Project;

1. Provide Project Management (Attachment A Item 4)
    A. Coordinate with the Agency
    B. Monitor schedule
    C. Monitor budget

2. Prepare project design (Attachment A Items 1 – 3)
    A. Attend a site visit and inspection of the programmable logic controllers (PLC) and controls equipment at each of the thirteen pump stations with Agency staff.
    B. Prepare a preliminary design report for Agency review and comments, including:
        i. The needed panel design modifications required for the upgrades;
        ii. Basic specifications and features of the proposed equipment;
        iii. Verification of compatibility with the existing Supervisory Control and Data Acquisition (SCADA) system;
        iv. Preliminary cut over plan for installation of the upgrades (The cutover plan shall minimize the amount of time any and all systems and equipment are shut down or under manual operation.); and
        v. An estimated cost/material list of all materials and equipment needed for installation of the project.
    C. Prepare 70% bid documents submittal and submit for Agency review and comments. As a minimum, the bid documents shall include requirements and details for the following:

        i. Specifications for all equipment to be provided by the Contractor;
        ii. Details on removal of existing equipment and installation of new PLC equipment;
        iii. Complete plans and specifications detailing the upgrades, modifications and new construction for a fully functional system at each pump station with full compatibility with the existing SCADA system;
        iv. PLC Programming;
        v. Loop checks;
        vi. Commissioning;
        vii. System cutover and start up;
        viii. Final document preparation for Agency use; and

ix. Customer training.

D. Prepare 100% bid documents submittal and submit for Agency review and comments.
E. Prepare an Engineer's Estimate of Probable Cost and Construction Schedule for the complete installation and startup of the proposed upgrades. Submit the estimates as part of the 70% and 100% bid documents submittal.
F. Prepare final bid set for public bidding by the Agency.

Meeting of the Board of Directors of
South Valley Water Resources Authority
Agenda

Kern Water Bank Authority Office
1620 Mill Rock Way, Suite 500
Bakersfield, CA, 93311

August 28, 2025, at 10:00 am

Call to Order

1. **Public Input**—This portion of the meeting is set aside to provide the public an opportunity to bring to the attention of the Board members any matter not on the agenda and over which the Board has jurisdiction, provided no action shall be taken on any such matter unless otherwise provided.

2. **Minutes**
   Approval of minutes of 7/14/25 special board meeting

3. **Directors Forum –** discussion only, no action
   a. SGMA
   b. SWP & KCWA
   c. Kern River
   d. Other

4. **New Business for Consideration at Future Meetings and Announcements**

5. **Adjournment**

Project Management Committee (Special Activity Agreement #1)
of South Valley Water Resources Authority

Fish Friendly Diversion Project
Agenda

Kern Water Bank Authority Office
1620 Mill Rock Way, Suite 500
Bakersfield, CA, 93311

August 28, 2025, at 10:02 am

Call to Order

1. **Public Input**—This portion of the meeting is set aside to provide the public an opportunity to bring to the attention of the Committee members any matter not on the agenda and over which the Committee has jurisdiction, provided no action shall be taken on any such matter unless otherwise provided.

2. **Minutes**
   Approval of committee meeting minutes of 7/14/25

3. **Financial Reports**
   a. Presentation of financial reports for July.
   b. July accounts payable.

4. **Fish Friendly Diversion Demonstration Project**
   a. Project Financial Status - Budget vs Actual
   b. Demonstration Project permitting status
   c. Demonstration Project scheduled. Review of construction cost estimate for Demonstration Project
   d. Approval of construction contract for Demonstration Project

5. **Water Blueprint for the San Joaquin Valley**
   Update

6. **Collaborative Action Plan for the San Joaquin Valley**
   Update

7. **USBR SJR Valley Plan**
   Update

8. **New Business for Consideration at Future Meetings and Announcements**

9. **Adjournment**

			Budget (2024-2025)	Expenses 7/1/24 to 7/31/25	Remaining	
Pre-Construction			$	$		
Engineering - Provost & Pritchard*						
	Concept Design		7,500	7,500	-	
	100% Design		86,500	51,444	35,056	
	Permitting Support		16,000	38,646	(22,646)	
	Bid Support		10,000	247	9,753	
Geotech			30,000	34,050	(4,050)	
Permitting - ESA			150,000	93,962	56,038	
Biological Consultants			6,000	2,400	3,600	
Lease			5,000	5,000	-	
Young Wooldridge			16,000	6,538	9,462	
Contingency ($0.10/share)			88,033		88,033	
Total Preconstruction			415,033	239,787	175,246	
Construction						
Lyles - Construction			1,200,000			
Viking - Dewatering			160,000			
PGE - Power			20,500			
Total			1,380,500			

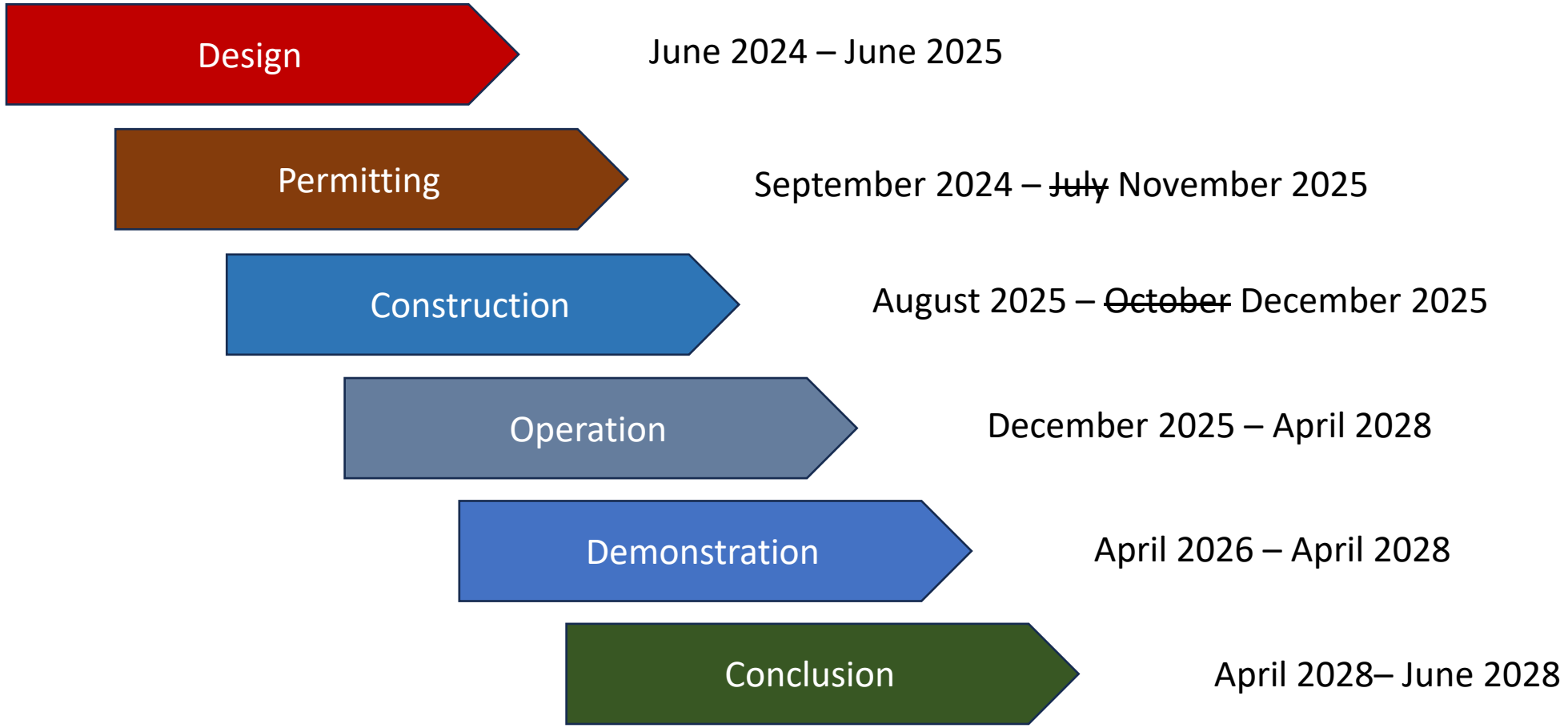
Project Participants District	Project #1 Shares	Percent	Construction Cost 2025
Berrenda Mesa	92,600	10.5%	$145,211
Lost Hills	119,110	13.5%	$186,783
Belridge	121,508	13.8%	$190,544
Semitropic	155,000	17.6%	$243,064
Cawelo	38,200	4.3%	$59,904
Rosedale	29,900	3.4%	$46,888
Kern Delta	25,500	2.9%	$39,988
West Kern	31,500	3.6%	$49,397
Wheeler Ridge	197,088	22.4%	$309,065
Tehachapi	19,300	2.2%	$30,265
Tejon-Castac	5,278	0.6%	$8,277
Dudley Ridge	45,348	5.2%	$71,113
Total	880,332	100.0%	$1,380,500

FFD- Permits

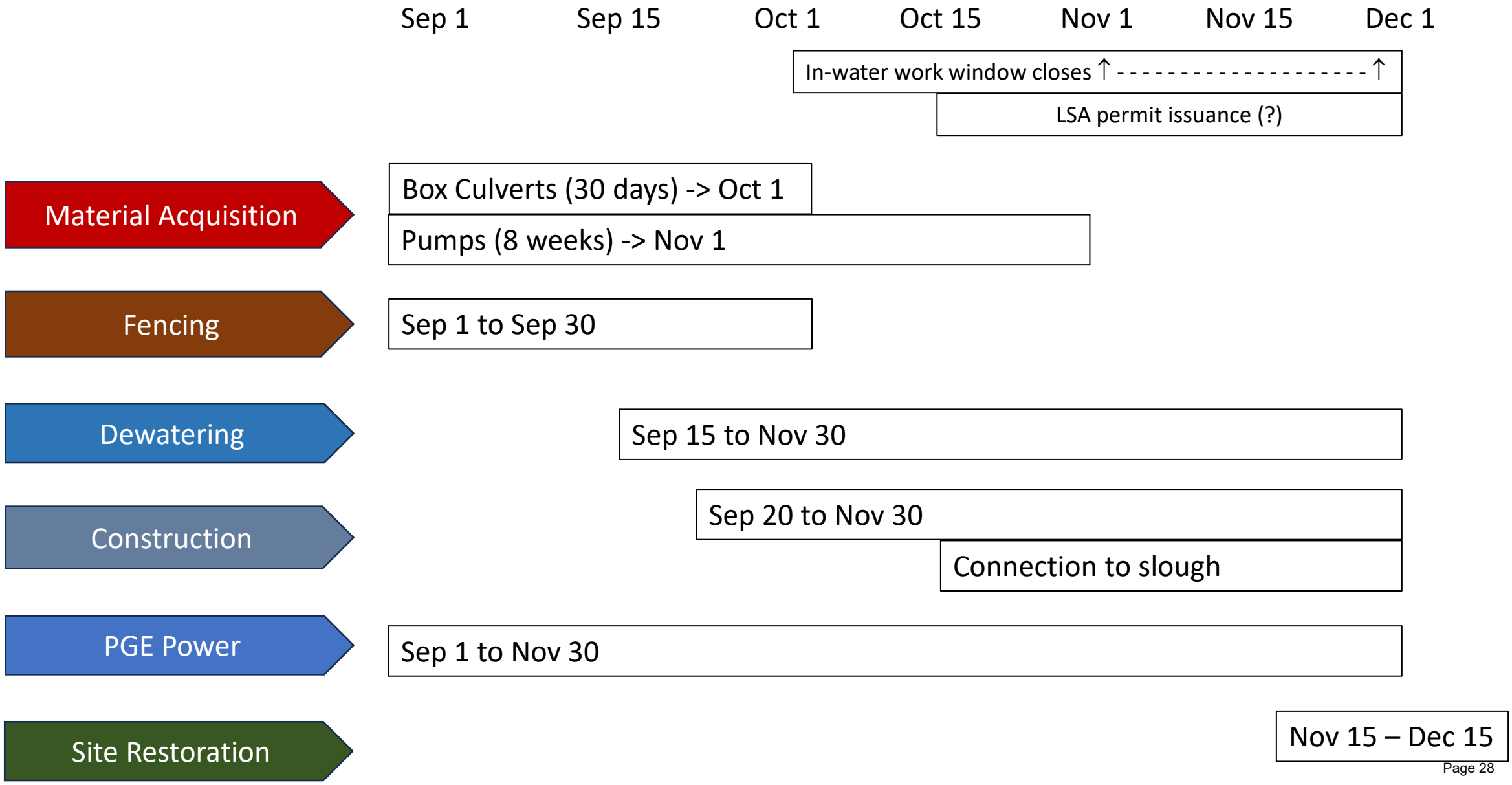
Activity/Permit	Permit or Compliance Trigger/Notes
Biological and cultural surveys	Needed to inform permits and CEQA/NEPA compliance
CEQA compliance – Initial Study/Mitigated Negative Declaration (IS/MND)	Assumes work can meet requirements of the CEQA IS/MND (be constructed outside of special status species black out days, etc.) and no significant and unavoidable impacts
NEPA compliance	Assumed already covered through USACE's Clean Water Act (CWA) Section 404 Nationwide Permit (NWP)
Federal Endangered Species Act (ESA) Section 7 Consultation (USFWS/NMFS)	Federal ESA Section 7 Consultation is required for the Clean Water Act (CWA) Section 404 permit. Assumes ESA will be able to use existing fisheries info regarding the demonstration project for this effort.
National Historic Preservation Act (NHPA) Section 106 Consultation	NHPA Section 106 Consultation is required for the CWA Section 404 permit.
CWA Section 404/10	Installation of an intake along Italian Slough or potential impacts to waters of the US on the property would trigger a CWA Section 404 NWP
CWA Section 401/Waste Discharge Requirement	Needed for CWA Section 404 permit
CDFW Lake and Streambed Alteration Agreement (LSA)	In ESA's experience, the CDFW's LSA Program will claim authority over this area. Therefore, we believe CDFW will require an LSA for the project.
State ESA compliance	Documentation will largely point to the analyses in the Federal ESA
Permit Coordination/Meetings/PM	
Approx. Total	

Project Phases

Draft Schedule



Draft Construction Schedule



W. M. LYLES CO.
CONTRACTOR
Since 1945
Progress Through Performance®

Item	Description	Qty	Unit	Total Price
1	Mobilization	1	LS	$ 30,000.00
2	Dewater Pipe	1,200	LF	$ 15,000.00
3	Earthwork	2,200	CY	$ 320,000.00
4	CMP Culvert with Concrete Headwall and 48" Slide Gate	2	EA	$ 160,000.00
5	4" Manifold Pipe	400	LF	$ 35,000.00
6	12" Manifold Pipe	80	LF	$ 18,000.00
7	4" Perforated Pipe (half well casing/half sewer)	250	LF	$ 12,500.00
8	6" Perforated Pipe	80	LF	$11,500.00
9	4" Valves	10	EA	$32,500.00
10	12" Valves	2	EA	$ 17,000.00
11	4" Flow Meters	10	EA	$24,500.00
12	12" Flow Meters	2	EA	$ 12,500.00
13	15" Discharge Pipe	250	LF	$ 60,000.00
14	96" Diameter Pump Manhole	1	EA	$ 75,000.00
15	Gravel	150	CY	$ 41,250.00
16	Pump (1,300 GPM)	1	EA	$ 75,000.00
17	Electrical Service (300')	1	EA	$ 56,000.00
18	Control Panel	1	EA	$ 62,000.00
19	Fencing	1,200	LF	$ 40,000.00
20	Office	1	EA	$ 27,500.00
21	Restore Site	1	EA	$ 15,000.00
22	Fuel/Oil Dewatering Generator (Initial)	6	EA	$ 26,000.00
23	Fuel/Oil Dewatering Generator (Working)	6	EA	$ 21,500.00
24	Provide Water Truck for Dewatering Subcontractor	3	EA	$ 7,350.00
			TOTAL =	$ 1,195,100.00

Date: August 22, 2025

To: Provost & Pritchard Consulting Group
1518 Mill Rock Way, Suite 100
Bakersfield, CA 93311

Attn: Ken Bonesteel

Re: Environmental (Fish) Friendly Pilot Project

We are pleased to provide the following Opinion of Probable Construction Costs (OPCC) for work on the above referenced project. This OPCC includes labor, equipment, management, and materials as described below:

Item	Description	Qty	Unit	Total Price
1	Mobilization	1	LS	$ 30,000.00
2	Dewater Pipe	1,200	LF	$ 15,000.00
3	Earthwork	2,200	CY	$ 320,000.00
4	CMP Culvert with Concrete Headwall and 48” Slide Gate	2	EA	$ 160,000.00
5	4” Manifold Pipe	400	LF	$ 35,000.00
6	12” Manifold Pipe	80	LF	$ 18,000.00
7	4” Perforated Pipe (half well casing/half sewer)	250	LF	$ 12,500.00
8	6” Perforated Pipe	80	LF	$11,500.00
9	4” Valves	10	EA	$32,500.00
10	12” Valves	2	EA	$ 17,000.00
11	4” Flow Meters	10	EA	$24,500.00
12	12” Flow Meters	2	EA	$ 12,500.00
13	15” Discharge Pipe	250	LF	$ 60,000.00
14	96” Diameter Pump Manhole	1	EA	$ 75,000.00
15	Gravel	150	CY	$ 41,250.00
16	Pump (1,300 GPM)	1	EA	$ 75,000.00
17	Electrical Service (300’)	1	EA	$ 56,000.00
18	Control Panel	1	EA	$ 62,000.00
19	Fencing	1,200	LF	$ 40,000.00
20	Office	1	EA	$ 27,500.00
21	Restore Site	1	EA	$ 15,000.00
22	Fuel/Oil Dewatering Generator (Initial)	6	EA	$ 26,000.00
23	Fuel/Oil Dewatering Generator (Working)	6	EA	$ 21,500.00
24	Provide Water Truck for Dewatering Subcontractor	3	EA	$ 7,350.00
			TOTAL =	$ 1,195,100.00

Scope Clarifications/Assumptions:

1. **Mobilization:**
    a. WML has included the furnish, install and removal of 500 LF of silt fence and 500 LF of 500 LF of fiber rolls.
    b. WML has included 1 stabilized construction entrance consistent with Caltrans Standard Details.
    c. WML has included a budget of $3,500 for a SWPP Plan. We will perform monitoring as required.
    d. WML has included a total of 40 hours of a laborer and gang truck to maintain BMP’s for the duration of the project.
    e. WML has included 1 mobilization to the site. Additional mobilizations will be invoiced on a T&M basis.
    f. WML has not included the filing of the NOI or any other permit requirements.

2. **Dewater Pipe:**
    a. WML has included the furnish, installation, and removal of 1,200 LF of 4" pipe for dewatering purposes.
    b. Dewatering systems to be by others as indicated.

3. **Earthwork:**
    a. Includes clearing and grubbing of approximately 45,000 SF of material. Spoils to be left onsite at the spoils disposal area.
    b. Includes excavation of approximately 4,800 CY of material. Spoils to be left onsite at the spoils disposal area.
    c. Includes the excavation and backfill of 1 ea 96" diameter manholes.
    d. Includes approximately 12,000 SF of access road, to be 4" class 2 road base.
    e. Includes approximately 14,000 SF of gravel area around office, vaults, and storage containers. This includes furnishing and placing 4" of class 2 road base in this area.
    f. Includes furnish and install 4 each stair as indicated on the plans. WML has included a budget price of $5,000 per stair case for a simple metal design.
    g. Included a 10' x 10' area at the 15" piped outlet for rip rap. WML has included 10 tons of rip rap for this area.
    h. For the connections into Italian Slough, it is anticipated that we will be able to excavate directly into the slough. We have not accounted for any cofferdams or any water barriers.

4. **CMP Culvert with Precast Concrete Headwall and 48" Slide Gate:**
    a. Includes furnishing and installing all materials to construct precast cast in place headwalls with a 40 foot length of CMP pipe behind each headwall.
    b. Includes furnish and installation of steel plating to extend the wing walls.
    c. Includes a concrete cutoff wall at the bottom of the inlet.
    d. Includes backfill and placement of 50 tons of rip rap at each inlet.

5. **4" Manifold Pipe:**
    a. WML has included the furnish and installation of 400 LF of 4" schedule 40 PVC manifold pipe with fittings, as indicated on the drawings.
    b. WML has included the excavation and backfill of this pipe from the percolation area to the manhole.

6. **12" Manifold Pipe:**
    a. WML has included the furnish and installation of 80 LF of 12" schedule 40 PVC manifold pipe with fittings, as indicated on the drawings.

7. **4" Perforated Pipe:**
    a. WML has included the furnish and installation of 250 LF of 4" schedule 40 PVC perforated pipe with fittings, as indicated on the drawings.

8. **6" Perforated Pipe:**
    a. WML has included the furnish and installation of 80 LF of 6" schedule 40 PVC perforated pipe with fittings, as indicated on the drawings.

9. **4" Butterfly Valves:**
    a. WML has included the furnish and installation of 10 each 4" butterfly valves, as indicated on the drawings.
    b. Each valve to have a PVC riser and cap to access actuator.

10. **12" Butterfly Valves:**
    a. WML has included the furnish and installation of 2 each 12" butterfly valves, as indicated on the drawings.
    b. Each valve to have a PVC riser and cap to access actuator.
11. **4" Flow Meters:**
    a. WML has included the furnish and installation of 10 each 4" flow meters.
    b. WML has included a budget price of $1,000 for each flow meter.

12. **12" Flow Meters:**
    a. WML has included the furnish and installation of 2 each 12" flow meters.
    b. WML has included a budget price of $2,500 for each flow meter.

13. **15” Discharge Pipe:**
    a. WML has included the furnish and installation of 250 LF of 15” PVC Schedule 40 discharge piping.
    b. WML has included 25 each pipe supports.

14. **96” Diameter Pump Manhole:**
    a. Includes 1 ea 96” diameter manhole, approximately 20 ft deep.
    b. WML has included a cast in place concrete base.
    c. Manhole to have a cone section for top with a 24” opening.

15. **Gravel:**
    a. WML to furnish and install 150 CY of ¾” crushed rock in the bottom of the excavation for the percolation basin.
    b. WML has not included any filter fabric in this item.

16. **Pumps:**
    a. WML has included furnishing and installing 2 each 650 GMP submersible pumps.
    b. WML has included a budget of $5,000 for piping inside the vault.
    c. WML has included a budget of $20,000 for each pump.

17. **Electrical Service:**
    a. WML has included a budget of $40,000 for an electrical subcontractor to hook up the control panel to this service, hook up the office, connect the pumps, and connect the flowmeters to the service.
    b. PGE connection fees are excluded.
    c. It is assumed that PG&E will run the overhead wire and drop pole to the site, as shown on the drawing from P&P.

18. **Control Panel:**
    a. WML has included a budget of $40,000 for the furnish of a control panel with two each variable frequency drive to adjust flow rates on the pumps.
    b. Control panel to be furnished by our integration group, AIC, Inc.
    c. It is assumed that the power available will be 1 phase, 240 volt at a minimum. 3 Phase 240 volt is preferred, but we can design a system with a single phase 240 volt connection at the pole. 200 amps is the minimum power needed.
    d. Control panel to include an ultrasonic level in the manhole, along with 3 each floats.
    e. Panel to include a NEMA 3R Wall mount, main breaker disconnect, 2 ea VFD disconnect breakers, 2 ea 7.5 HP VFD’s, 2 ea pump controls, fan kit, panel heater & thermostat, nameplates, terminal blocks, and relays as required.
    f. This panel is not setup to communicate with any SCADA systems or remote monitoring system. If that is desired, we would be more than happy to quote that.

19. **Fencing:**
    a. WML has included the furnish and installation of a 3 strand barbed wire fence with 3 each 20’ pipe gates.

20. **Office/Storage Container:**
    a. WML has included $25,000 to deliver an 8 foot by 40 foot shipping container office/storage unit combo. Office to come furnished with desk and chair, table, and window mounted air conditioner.

21. **Restore Site:**
    a. WML has not included backfilling the system or any demolition of manholes, pipe, or headwalls. It is assumed this will be done at a later date under time and materials.
    b. WML has included a budget of $7,5000 for site hydroseeding when work is completed.
    c. WML has included a 2 person laborer crew to clean up site as needed.

22. **Fuel/Oil Generator for Initial Dewatering:**
    a. WML has included an operator mechanic to visit the site to fuel the generator 6 times.
    b. WML has included an operator mechanic to visit the site to change the oil in the generator 5 times.
    c. This pricing is based on 1.7 G.P.H usage rate provided by Viking, and assumes that a 250 gallon fuel cell will be provided with the generator, from Viking.
    d. Diesel fuel assumed to be $5 per gallon.
    e. No additional site visits or service visits are included.
    f. Additional site/service visits to be billed on a T&M basis.

23. **Fuel/Oil Generator While Onsite:**
    a. WML has included an operator mechanic to visit the site and fuel the generator 6 times.
    b. WML has included an operator mechanic to visit the site and change the oil in the generator 5 times.
    c. This pricing is based on 1.7 G.P.H usage rate provided by Viking, and assumes that a 250 gallon fuel cell will be provided with the generator, from Viking.
    d. Diesel fuel assumed to be $5 per gallon.
    e. No additional site visits or service visits are included.

24. **Water Truck for Dewatering Operations:**
    a. Provide an operated 4,000 gallon water truck for 3 days to assist in dewatering operations.
    b. 2 hours per day of overtime have been included.
    c. Includes the purchase of water from a nearby source.

General Clarifications

1. This quote is based on current labor and material pricing and should only be considered valid for 30 days from the date of this letter.
2. This price is based on completing the full scope of work prior to July 1, 2026. Any work performed after this date will require a price adjustment based on updated union labor rates.
3. This price excludes payment and performance bonds. If required, add **0.5%** to the price above.
4. This quote is based on the above mentioned bid items as an entire package.
5. Schedule of work is subject to an approved agreeable schedule between Provost and Prichard Consulting Group (Owner) and W. M. Lyles Co (WML).
6. Builder's risk coverage is excluded.
7. This quote is based on mutually agreeable contract terms and conditions.
8. This quote is based on standard 8 hour work days. No overtime, weekend, or holiday work has been allowed.
9. W. M. Lyles Co. is signatory to the following trades: Laborers, Carpenters, Operating Engineers, Millwrights, Cement Masons.
10. This quote does not include any environmental/biological allowances in the event that special-status plants or species are discovered, or the actions that will be required if such event occurs.
11. This quote is based on one (1) mobilization. Additional mobilizations will be invoiced on a T&M basis.
12. This proposal is conditioned upon the use of an industry standard Contract, and we reserve the right to suggest and make contractual changes to any Contract with good faith and direct negotiations.
13. This proposal includes costs for typical insurance policies: General Liability ($2 million/$4 million) and Automobile ($2 million) with additional insured as requested along with standard Worker's Compensation ($1 million) coverage. Additional insurance coverage that is requested or any payment of deductibles may be at an additional cost.
14. By law, the duty to indemnify shall not extend to the acts of willful misconduct, active negligence, or sole negligence, on the part of the Owner or anyone associated with him including design or engineering work submitted for our Scope.
15. Items to be supplied by the Owner including but not limited to
    a. Site security.
    b. Water source onsite.
    c. Clear access to the work area.

General Exclusions

1. This quote is based on the following exclusions:
    a. Union agreements outside of unions that W. M. Lyles Co are signatory to, or any requirements associated with any Project Labor Agreements.
    b. All third-party testing and inspections including but not limited to, Concrete sampling, cylinders, and testing, Compaction testing, and Special inspections.
    c. Purchasing, hauling, and/or disposal of construction and testing water.
    d. Liquidated damages and/or acceleration.
    e. WML to have all work completed by June 30, 2026. No labor escalation has been carried past this date.
    f. All permits and associated fees including but not limited to:
        i. Storm water pollution prevention plan, permits, fees.
        ii. Dust control plan, permits, fees.
        iii. California Regional Water Quality Control Board permits, fees, discharge requirements.
        iv. Encroachment permits
    g. Landscape, and irrigation.
    h. Tree Removal

i. Mitigation of Groundwater (if encountered). Dewatering to be provided by others.
j. Mitigation of Hazardous Materials (if encountered).
k. All Performance Guarantees.
l. American Iron & Steel (AIS), Buy America, Buy American or any similar domestic material requirements.
m. Special coatings (chemical resistance, graffiti coatings, etc.).
n. Noise mitigation and/or noise barriers.
o. Rock excavation (if encountered).
p. Any cofferdam or shoring wall required near the Italian Slough.
q. Removal, replacement and/or relocation of existing utilities not shown on the plans.
r. Any pricing for offsite piping, including but not limited to Raw Water, Treated Water, Storm Drain, Sewer, etc.
s. Curb, Gutter, Sidewalk, or ADA Ramps.
t. Rough grading, mass excavation, and/or mass balancing sites, unless specifically indicated above.
u. Seepage Pit soil testing, reports, logs, analysis, etc.
v. All final restoration measures by others. This includes final raising of manholes to match final paving, final paving, concrete flatwork, slurry seal.
w. Fire service lines are excluded, and any fire protection engineering is excluded.

General Terms and Conditions

1. We reserve the right to request financial data to support the Owner's/Contractor's ability to make timely payments for our work and will not start our scope of work until we have received evidence, to our satisfaction, that there are sufficient funds set aside to pay for the work performed and directed. The Owner shall be obligated to disclose all potential lien rights and/or financing party information on the property.
2. This proposal is conditioned upon the use of an industry standard Contract and we reserve the right to suggest and make contractual changes to any Contract with good faith and direct negotiations.
3. This proposal includes costs for typical insurance policies: General Liability ($2 million/$4 million) and Automobile ($2 million) with additional insured as requested along with standard Worker's Compensation ($1 million) coverage. Additional insurance coverage that is requested or any payment of deductibles may be at an additional cost.
4. By law, the duty to indemnify shall not extend to the acts of willful misconduct, active negligence, or sole negligence, on the part of the Owner or anyone associated with him including design or engineering work submitted for our Scope.
5. If hazardous materials, unsuitable ground conditions, change in soil conditions or concealed conditionals are encountered, we will cease all operations and the Owner will determine the nature and extent of such conditions, and will recommend the nature and extent of remediation. Any hazardous materials, unsuitable ground conditions, change in soil conditions or concealed conditions that are encountered shall be considered "extra work" under an approved Change Order.
6. Any authorized cost plus or force account work shall be completed under written direction per the agreed time and material section within the contractual documents or in absence, using our annual and most current labor and equipment rates along with our time and material calculation sheet.
7. Any and all claims, controversies or disputes arising out of or relating to this agreement, or the breach thereof, which remain unresolved after good-faith and direct negotiations between the on-site Project Managers and after with the Corporate Officer(s) and authorized representative of the Owner (parties), shall then be submitted to confidential mediation with written notice in accordance with the rules and procedures for mediation then in effect under either JAMS for Mediation or the Construction Industry Mediation Rules of the American Arbitration Association. Continuing claims, controversies or disputes thereafter shall be submitted to binding Arbitration as allowed by California Law.
8. Monthly payments shall be agreed in the final executed contractual documents or as follows; Payment for services rendered by the 15th of each month for 95% of all work performed during the preceding month. Final payment to be made within 35 days after completion and acceptance of our scope of work. Late payments shall incur an interest charged by law or at a minimum rate of eighteen percent (18%) per annum on past-due accounts.
9. Contractor warrants to Owner that all materials and equipment furnished shall be new unless otherwise specified and that all work under this Agreement will be performed in a good and workmanlike manner, shall be of good quality, free from faults and defects for a period of one (1) year from the date of W.M. Lyles Co.'s scope of work completion.
10. All contractual correspondence and payments shall be directed to our Corporate Office at 525 W. Alluvial Ave, Fresno, CA 93711.

W. M. Lyles Co.

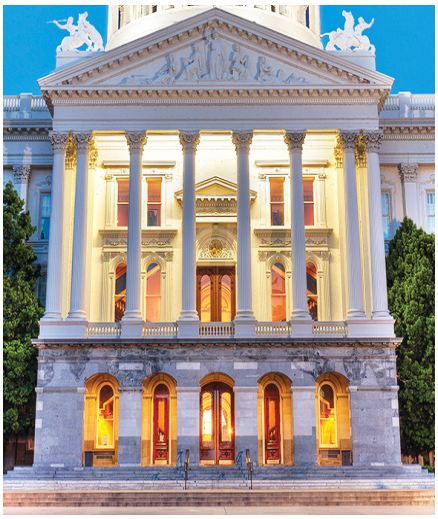
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Marc Vanden
Asst. V.P./Sr. Estimator

SACRAMENTO REPORT

August 2025

Volume 20, Issue 8



NEWS BRIEFS

Farmers in West Fresno County GSA to Consider 200% Pumping Fee Hike

July 29, 2025—The Pleasant Valley Groundwater Sustainability Agency (GSA)—located in West Fresno County, near Coalinga—voted to propose a steep increase in groundwater pumping fees: from $8 to $25 per acre-foot, a ~212% hike, subject to voter approval under Proposition 218

A Proposition 218 election will allow growers to vote on the fee increase; if approved, a public hearing is scheduled for October

continued on next page

Only 19 Working Days Remain in Legislative Session

The California Legislature returns from summer recess on Monday, August 18 to complete its work in the first year of the two year session by September 12, 2025.

The Senate and Assembly Appropriations committees will have full hearing agendas as they work to meet the August 29, 2025, deadline to hear and report bills to the floor. The Legislature will convene in Floor Session only between September 2 and 12, when interim recess begins upon adjournment.

Significant work remains to be done regarding the appropriation of Proposition 4 climate bond proceeds as well as budget trailer bills, including two such bills sought by Governor Newsom to expedite the start of construction of the Delta Conveyance Project and limit CEQA review of water quality control plans by the State Water Resources Control Board and the nine regional water quality control boards. The Governor and Legislature are also considering an early extension of the state's Cap and Trade program, which generates revenue for the Greenhouse Gas Reduction Fund (GGRF). The latter fund provides over $100 million annually for the State Water Resources Control Board's SAFER Program that assists disadvantaged communities with safe drinking water and wastewater project funding with many projects completed to date located in the San Joaquin Valley. GGRF is also the primary source of funding for the High-Speed Rail Project.

*See **Legislative Session,** page 2*

DWR Releases Draft Subsidence Guidelines

On July 29, 2025, the Department of Water Resources (DWR) released the Draft Subsidence Best Management Practices (BMP) document, a comprehensive set of guidelines that DWR believes will help groundwater sustainability agencies (GSAs) halt and reverse land subsidence.

"Subsidence has significantly impacted our major water conveyance facilities, levees, roads and other land uses affecting water supply reliability and public safety," said Paul Gosselin, DWR Deputy Director of Sustainable Water Management. "Understanding that conditions and solutions vary by region, it's critical to hear from our local partners and the public on this draft document to ensure that subsidence is minimized effectively."

*See **Subsidence Guidelines,** page 3*

Inside Sacramento Report

Newsom Announces DCP Accountability Plan 4
State Board Includes HRL in Draft Update to Bay-Delta Plan 6
State's Proposed Fee Change for Pumpers Falls Flat 7
Water Blueprint Calls for Urgent Action on Water Infrastructure 8

NEWS BRIEFS *continued*

28, 2025, where growers may protest. If the pumping fee hike succeeds, the Pleasant Valley Water District, which also acts as the GSA, would reduce existing land assessment fees from $6 per acre to $3.25 per acre. The revenue generated—estimated at $493,000 over a 13-month project—will fund a revised groundwater sustainability plan to address deficiencies flagged by the Department of Water Resources in February; if unaddressed, the region may be placed under SGMA probation, triggering state intervention and additional grower requirements.

The Pleasant Valley GSA is the largest of three GSAs in the Pleasant Valley subbasin, which covers about 48,000 acres west of Interstate 5 near Coalinga. The other two GSAs are the City of Coalinga GSA and Fresno County Pleasant Valley GSA Area.

DWR Advances Climate-Resilient Flood Mapping Through FEMA Partnership

The California Department of Water Resources (DWR), in collaboration with the Federal Emergency Management Agency (FEMA) under the Cooperating Technical Partners Program, has completed a flood mapping study for the Tuolumne River area in Stanislaus County. The project integrates future climate scenarios into flood inundation modeling to improve understanding of evolving flood risks. The study projects that by 2070, floods currently classified as 1-in-100-year events could double in peak flow, with a 5% chance of nearly tripling, expanding

continued on next page

Legislative Session, *continued from page 1*

"Complicating the usual end-of-session workload this year will be a proposed Congressional redistricting proposal by Governor Newsom that could result in another five Democratic districts in California in a legislative Republican delegation that now stands at nine out of 52 total congressional districts," said Bob Reeb, VAWC Executive Director. " Governor Newsom will call for a special election on November 4, 2025, if he is successful shepherding legislation through the legislature in the final weeks of the session. Also, the 'to-do' list includes revising and extending the state's Cap and Trade Program and various budget trailer bills left unfinished when the legislature left Sacramento last month."

There has been significant advocacy work during the legislative recess in support of the Governor's Delta Conveyance Project budget trailer bill. VAWC is neutral on the proposal given the large geographic reach and diversity of its membership. The budget trailer bill has not been introduced as legislation. Support for passage of a bill seems to be stronger in the Assembly than in the Senate where a planned leadership change has complicated the ability of advocates to secure the necessary 21 votes. Amendments to the budget trailer bill are anticipated—some technical in nature and others that were negotiated between Newsom Administration representatives and the legislative Native American Caucus led by Assembly Member James Ramos (D-San Bernardino).

Work on the Governor's water quality control plan budget trailer bill has been much quieter. The proposal would exempt water quality control plans that do not weaken existing water quality objectives from the California Environmental Quality Act. On a related front, the State Water Resources Control Board announced on July 24, 2025, important proposed updates to the Water Quality Control Plan for the San Francisco Bay/Sacramento-San Joaquin Delta Watershed (Bay-Delta Plan). The announcement begins a public review and comment period on the proposal that would update measures in the Bay-Delta Plan to protect the Sacramento River, the Delta, and associated tributaries (Sacramento/Delta), including the San Joaquin River tributaries upon which many VAWC members rely on for their water supply.

The State Water Board's proposed updates include two distinct pathways for water users and agencies to comply with water quality requirements: one that incorporates voluntary agreements (VAs) proposed by some state and federal agencies and other water users, known as the Healthy Rivers and Landscapes Program (HRL), and a regulatory pathway for those who are not parties to approved VAs. Both pathways will create legally enforceable requirements. The inclusion of HRL is a huge win for farm water suppliers and others who will seek the pathway to comply with water quality requirements rather than forgo up to 55 percent of stream flows feeding their hydroelectric and water supply reservoirs between March and June each year.

The proposed updates also incorporate tribal beneficial uses and formally designates Tribal Tradition and Culture beneficial uses in the watershed in recognition of the intrinsic connection between native fish populations—including salmon—and tribal tradition and culture. This issue has been the subject of legislation the past two years on which VAWC has engaged, opposing the legislation without amendments to limit the legislation to requiring the incorporation of tribal beneficial uses in water quality control plans at the state and regional levels.

"The proposed updates to the Bay-Delta Plan would improve conditions for fish and wildlife through a combination of flow and habitat measures while consid-

Legislative Session, *page 3*

Legislative Session, *continued from page 2*

ering the needs of cities, towns and farms," said State Water Board Executive Director Eric Oppenheimer. "It reflects a holistic approach to the Bay-Delta that leverages cooperation to advance ecosystem benefits as soon as possible."

The proposed updates are based on the September 2023 State Water Board staff report and an October 2024 draft plan. According to the State Water Board, they are also informed by extensive public input gathered across 11 topic-specific meetings, a multi-day hearing, a multi-day workshop, consultation with independent subject matter experts and a comprehensive scientific basis report, which was written collaboratively by board staff, the California Department of Water Resources and the California Department of Fish and Wildlife. The proposal includes new narrative Sacramento/Delta inflow, cold water habitat, Delta outflow, interior Delta flow, and fish viability objectives. The State Water Board will implement these objectives via new requirements on water right holders, through either the HRL or regulatory pathway.

The State Water Board is accepting written comments on the proposed updates through September 10. It will hold a public hearing to receive oral comments on September 8, with the potential to extend the hearing to September 9 if needed. The board will consider adopting the proposal at a future date.

Subsidence Guidelines, *continued from page 1*

Land subsidence, the lowering of land surface elevations, can result from empty spaces between soil particles collapsing and compacting the earth. Subsidence due to excessive groundwater pumping remains an ongoing issue in several parts of California, particularly in the San Joaquin Valley.

Under the Sustainable Groundwater Management Act (SGMA), land subsidence is one of the six "undesirable results" that GSAs must prevent in their basins. GSAs are required to establish standards for managing or avoiding land subsidence in their groundwater sustainability plans (GSPs).

According to the guidelines, the expansion of agricultural acreage and drought periods between 2000 and 2023 coincided with reduced surface water availability, resulting in increased groundwater pumping, which, in turn, increased subsidence to more than one foot per year in parts of the San Joaquin Valley. The impacts of subsidence can be staggering. Already, subsidence in many parts of the state has caused billions of dollars of damage to water conveyance, flood control, transportation infrastructure, and groundwater wells. Though recent land subsidence rates have decreased following the wetter, higher precipitation 2023 water year and subsequent reduction in groundwater pumping, future dry periods could lead to an uptick in subsidence rates again unless pumping is reduced in certain areas.

The new BMP is intended to help GSPs meet the SGMA mandate with SGMA implementation is now underway.

The draft BMP identifies several cornerstone strategies:

- Expand monitoring networks for groundwater levels and land surface elevation using various methods, including satellite radar, GPS stations, and on-the-ground surveys.
- Use advanced hydrologic and geomechanical models to predict where and when subsidence may strike.

See ***Subsidence Guidelines,*** *page 4*

NEWS BRIEFS *continued*

floodplains beyond current FEMA 100-year maps.

This risk-informed approach is intended to help planners, emergency managers, and communities assess potential flood scenarios, their likelihood, and possible severity. By moving beyond historical data and incorporating climate projections, DWR aims to guide future state and local flood infrastructure investments toward where flood risks are headed. The study also aligns with DWR's broader climate planning initiatives, including the State Water Project (SWP) Delivery Capability Report, upcoming SWP Adaptation Strategy, and the San Joaquin Watershed Studies.

More information is available on DWRs website.

Lunch-Mar Webinar

The next Lunch-Mar webinar will be held on Wednesday, September 3, 2025, 12:30 pm to 1:30 pm PST. These monthly webinars explore key topics relevant to Flood-MAR, such as water rights, data tools, and geophysics. The September session will be presented by staff from the Public Policy Institute of California (PPIC) and will focus on the amount of water available for recharge in the Central Valley.

PPIC published a report on this topic in earlier this year. The study found that groundwater recharge increased in the Central Valley during 2023; however, many basins still fell short of recharge targets in part due to infrastructure and regulatory constraints. The report emphasized the need for flexible upstream diversion protocols, enhanced partnerships, and policy frame-

continued on next page

NEWS BRIEFS *continued*

works to enable recharge when river flows are ample but still below flood stage. Join Link (recurring): Zoom Meeting

More information and links to view all past Lunch-MAR recordings are on the Flood-MAR Network website here: https://floodmar.org/get-involved/#events

Project Nexus Leads to New Statewide Efforts

In a pilot dubbed Project Nexus, California is testing solar canopies over irrigation canals in the Central Valley to simultaneously tackle water and energy challenges. Funded with $20 million by the state, installation began in early 2025 over sections of the Turlock Irrigation District's canals. The initiative—developed with TID, Solar AquaGrid, UC Merced, and DWR—follows a 2021 UC Merced feasibility study that estimated covering California's 4,000 miles of canals could save enough water for 2 million people annually and generate clean electricity for 2 million homes. Early outcomes include energy generation (around 1.3 GWh annually at the pilot site) and reduced evaporation and algae growth thanks to cooling shade effects.

The project has sparked the California Solar Canal Initiative a collaborative academic effort to assess statewide scaling and policy frameworks in order to accelerate solar panel deployment over canals. The pilot has already earned environmental recognition, and future phases will evaluate long-term energy performance, environmental in-

continued on next page

Subsidence Guidelines, *continued from page 3*

- Shift to surface water where possible, increase water-use efficiency, and manage demand to reduce aquifer overdraft.
- Invest in managed aquifer recharge projects using floodwaters, stormwater capture, and imported water.
- Work with transportation, utility, and flood control agencies to safeguard assets and plan new projects with subsidence in mind.
- Engage local communities, landowners, and stakeholders in transparent decision-making.
- Continuously adjust management actions based on monitoring results and emerging science.

DWR is accepting comments on the BMP document until September 22, 2025. Interested parties are strongly encouraged to submit comments and attend upcoming in-person meetings held in Delano on September 9th, Clovis on September 10th, and Willows on September 11th. These meetings will include an overview of the draft document and serve as a venue to ask questions and provide public comments.

Once finalized following public review, the document will serve as a guide for groundwater managers on the basics of subsidence, how to best manage it, and available technical assistance. This document does not replace any existing, local, state, or federal regulations, but serves as a resource that local agencies can add to their water management toolkit.

The draft BMP document is available for review here.

Newsom Announces DCP Accountability Plan

Earlier this month, Governor Gavin Newsom announced a new Accountability Action Plan for the Delta Conveyance Project (DCP), pairing it with a $200 million Community Benefits Program aimed at supporting communities in and around the Sacramento–San Joaquin Delta during project construction.

The DCP is a multibillion-dollar proposed unit of the State Water Project that includes two new intakes on the Sacramento River, a 45-mile underground tunnel, and a new pumping station south of the Delta. Designed to improve long-term water supply reliability, it would divert water directly from the Sacramento River to the State Water Project (SWP), which supplies over 27 million Californians and farms. By bypassing the fragile Delta, the DCP aims to address declining water quality, saltwater intrusion, and environmental damage, while also mitigating risks from climate change, earthquakes, and sea-level rise.

"Critics of the Delta Conveyance Project, including those in the Legislature, have repeatedly made false claims that the concerns of the communities in the Delta are not being heard," said Governor Newsom. "This Accountability Action Plan shows that my administration is listening, and we are taking action to hold ourselves accountable and respond to community concerns during the construction of this important infrastructure project."

The plan includes five core components:

- Ombudsman Office – Serves as a single point of contact for community concerns.

See ***DCP Accountability Plan,*** *page 5*

DCP Accountability Plan, *continued from page 4*

- Regulatory Mitigation – Implements a Mitigation Monitoring and Reporting Program (MMRP) to track environmental commitments under California Environmental Quality Act (CEQA) and other regulations.
- Community Benefits Program – Allocates $200 million for local projects, such as recreation, cultural preservation, infrastructure improvements, and economic development.
- Community Advisory Engagement – Provides for ongoing involvement of local groups in project-related decision-making.
- Performance Tracking and Reporting – Establishes measurable metrics to monitor the plan's effectiveness.

The Community Benefits Program is described as separate from regulatory mitigation requirements and intended to provide "tangible and lasting benefits" to the local area. Project selection will be informed by community input and will focus on projects that reflect the Delta's cultural, recreational, agricultural, and environmental values.

The Department of Water Resources (DWR) stated it will implement these measures prior to and during construction, with the goal of maintaining transparency and addressing local impacts as the Delta Conveyance Project moves forward.

The Newsom administration stated that the goal of the plan is to avoid, minimize, or offset potential impacts of project construction. According to an August 6 press release, the plan was developed, in part, to address concerns expressed in various community and public input forums during the process.

Over the past few months, Governor Newsom's push to fast-track the DCP through a budget trailer bill has continued to draw controversy from both environmental groups and legislators.

Earlier this year, Governor Gavin Newsom included a proposal to fast-track the DCP as part of his May Revision to the state budget. The proposal included new rules to streamline legal challenges, such as preventing the court from stopping construction, and imposed timelines for filing and resolution. This proposal was ultimately rejected by the Senate Budget Subcommittee 2 on Resources, Environmental Protection, and Energy.

Just last month, Assemblymember Rhodesia Ransom (D-Stockton) brought forth an audit request to identify amounts spent, and underlying funding sources used by DWR for the DCP between 2022 and 2025. In a June 18 letter responding to Assemblymember Ransom's request, DWR Director Karla Nameth noted that much of the questions asked by the audit request is information that is already publicly available, thus an audit would be unnecessary and would create a costly delay. The Joint Legislative Audit Committee (JLAC) declined to approve a proposed audit, but could reexamine the issue again later this summer.

Those opposed to the DCP have decried the accountability plan as a "hollow" attempt to appease criticism.

"Governor Newsom's announcement of a so-called Delta Conveyance Project 'Accountability Action Plan' and a $200 million Community Benefits Program is nothing more than a thinly veiled attempt to recycle a plan the Department of Water Resources has been touting for years, pretending it's new news to buy silence from the very communities that will be most devastated by the Delta Tunnel Conveyance Project," wrote the Delta Counties Coalition in a response to the release of the plan.

See ***DCP Accountability Plan,*** *page 6*

NEWS BRIEFS *continued*

teractions, and feasibility across diverse canal systems. By conserving water, limiting maintenance, reducing land use, and producing renewable power, it demonstrates a multi-benefit, land-saving approach—especially valuable given California's drought and decarbonization targets.

SSJID and OID Launch Canyon Tunnel Project

The South San Joaquin Irrigation District and Oakdale Irrigation District announced the launch of the Canyon Tunnel Project, an $84 million infrastructure initiative designed to improve water security for tens of thousands of acres of farmland an cities like Manteca, Lathrop, and Tracy. The project involves constructing a 12,000-foot tunnel beneath the Sierra foothills to bypass a vulnerable segment of the century-old Joint Supply Canal, which has been prone to landslides and disruptions.

Funded primarily by SSJID (72%) and OID (28%) based on historic water use, the project is expected to be completed by 2028. The new tunnel will protect against risks like the 2013 rockfall that interrupted water flow, modernize the existing infrastructure, and reduce costly maintenance. Overall, the Canyon Tunnel Project represents a significant investment in local water reliability, ensuring a stable supply for agriculture and communities in the region well into the future.

For more information, visit: https://canyontunnelproject.org/

Drought Status Update for

continued on next page

NEWS BRIEFS *continued*

California-Nevada

The August 5, 2025 drought update from the National Integrated Drought Information System (NDIS) noted that the California-Nevada region faces continued risk of drought, heat, and wildfire impacts during the remaining dry season.

Since the start of the water year, areas of drought in the region increased by 28% and intensified, with new areas of Abnormally Dry or worse conditions creeping northward according to the U.S. Drought Monitor. Existing drought conditions are forecast to persist over the next one to three months. Drought impacts, such as to vegetation, agriculture, public health, and fire potential, are expected to continue in central and southern parts of California and much of Nevada as we wrap up the warm season. The El Niño–Southern Oscillation (ENSO) is currently neutral and likely to stay that way this fall. As we transition from fall to winter, forecasts favor remaining neutral or La Niña conditions. It remains to be seen what this means for the 2025-2026 wet season and drought relief or intensification.

NIDIS and partners will continue to provide the latest information on conditions, outlooks, and impacts through the next water year.

Draft 2025 Agricultural Water Management Plan Guidebook Open to Public Comments

DWR is accepting public comment on the Draft 2025 Agricultural Water Management Plan (AWMP) Guidebook. Up-

DCP Accountability Plan, *continued from page 5*

"Governor Newsom is putting lipstick on a pig," said Barbara Barrigan Parrilla, Executive Director of Restore the Delta. "His $100 billion tunnel will harm tribes and communities from Sacramento all the way down to Los Angeles."

Supporters of the DCP, however, lauded the accountability plan as a critical response to "misleading narratives" being pushed by opponents of the project.

"For too long, critics have wrongly claimed that the concerns of Delta communities were being ignored," wrote the Southern California Water Coalition in a statement. "The Accountability Action Plan decisively refutes those claims. It outlines specific, trackable, and transparent commitments to local communities, demonstrating that the state is listening and taking action to avoid, minimize, or offset project impacts during construction."

For more information on the DCP Accountability Action Plan, please visit the DCP webpage.

State Board Includes HRL in Draft Update to Bay-Delta Plan

On July 24, 2025, the California State Water Resources Control Board (State Water Board) staff released a revised draft of the updates to the Water Quality Control Plan for the San Francisco Bay/Sacramento-San Joaquin Delta Watershed (Bay-Delta Plan or Plan). For the first time, State Water Board staff incorporated the Healthy Rivers and Landscapes Program (HRL) and its voluntary agreements into this draft update.

The HRL program is a comprehensive, multi-year solution that brings together local, state, and federal partners to pool resources and take concrete actions to increase river flows and expand habitat in the Sacramento and San Joaquin Rivers, their tributaries, and the Bay-Delta. Through this approach, the state would dedicate a large quantity of water to the environment and restore 45,000 acres of aquatic habitat for fish and other animals. Guided by scientific monitoring and collaborative decision making, this new approach allows water managers to adapt operations based on real-time conditions and enable broad coordination across watersheds to manage flows for maximal benefits. For example, the HRL program includes major investments in landscape-scale restoration, which focuses on maintaining the functions of a river that supports ecosystem health, as well as habitat restoration projects.

Earlier this year, State Water Board staff included provisions based on voluntary agreements in the previous update, and included a possible program of implementation should the program be adopted.

Valley Ag Water Coalition signed onto comment letters from the California Chamber of Commerce (CalChamber) and the Association of California Water Agencies (ACWA) supporting the integration of the HRL program into the Bay-Delta Plan while simultaneously warning against the inclusion of the unimpaired flows approach.

According to the CalChamber letter, an unimpaired flows approach lacks the clarity and predictability necessary to maintain economic stability, potentially resulting in significant impacts to water reliability for several industries dependent on the Bay-Delta. The HRL program, however, provides a more robust and balanced approach that could protect all beneficial uses of water.

See ***Bay Delta Plan,*** *page 7*

Bay Delta Plan, *continued from page 6*

The 2025 revised draft update now explicitly proposes the incorporation of VAs in the Plan. This includes a pathway for water rights included in approved VAs and regulatory provisions for water rights not included as part of approved VAs, with both pathways having regulatory effect.

The previous draft identified three possible options for bypass flow provisions for preventing new water supply projects, including water right applications and water right change petitions involving increased diversion of water, from reducing the additive effect of VA flows. These options have been transformed into a new proposed narrative provision in the revised 2025 draft update identifying that in processing new water right applications or change petitions involving expanded use of water, the State Water Board would consider needed measures to protect base flows and additive flows provided pursuant to the provisions of the plan update. Other changes relating to VAs and HRL include, among others, refinements to: the description of the VA flow commitments; provisions for continuation, modification, or termination of VAs; VA proposed fish protection objectives; and VA habitat accounting.

The revised 2025 draft update also includes modifications to the inflow, cold water habitat, inflow-based Delta outflow, and interior Delta flow objectives; water supply adjustments that allow for lowering the percent of unimpaired flow requirements under certain conditions; and the incorporation of Tribal Beneficial Uses and the designation of the Tribal Tradition and Culture beneficial use for the Bay-Delta watershed.

Written comments on the revised 2025 draft update must be received by September 10, 2025.

Comments should be submitted via email to **SacDeltaComments@waterboards.ca.gov** with the subject "Comment Letter – Revised Draft Sacramento/Delta BayDelta Plan Updates."

The State Water Board will also hold two public hearings to receive comments on the revised 2025 draft update on September 8 and September 9.

For more information, please visit the State Water Board's Update to the Bay-Delta Plan webpage.

State's Proposed Fee Change for Pumpers Falls Flat

The State Water Resources Control Board reversed course on a proposed fee change for groundwater extraction in the San Joaquin Valley after receiving a volley of negative letters, saying changes are "premature."

The update came during an online Water Rights Fees meeting July 31. Fees target pumpers in overdrafted subbasins placed on probation by the Water Board for lacking adequate groundwater plans.

State fees – $300 per well, per year plus $20-per-acre-foot pumped – are intended to repay the state an estimated $5.5 million a year that it says it costs to oversee six groundwater basins in the San Joaquin Valley where plans have been deemed inadequate.

Water Board staff had suggested creating a graduated fee structure based on farm size, giving small growers a break at $5-per-acre-foot pumped and charging large growers $40 per acre foot pumped.

See ***Pumpers Fee Falls Flat,*** *page 8*

NEWS BRIEFS *continued*

dates to this guidebook were made to improve clarity and provide additional resources and references. A written comment period commences on July 23, 2025, and closes on August 22, 2025. All inquiries should be directed to the contacts listed below.

AWMPs for the 2025 cycle must be adopted by April 1, 2026 and must be submitted to DWR within 30 days of adoption via the WUEdata Portal. The Water Conservation Act of 2009 (SB X7-7) requires an agricultural water supplier serving more than 25,000 irrigated acres (excluding recycled water deliveries) to adopt and submit an Agricultural Water Management Plan to DWR. The plan shall satisfy the requirements of Water Code Section 10826.

Comments must be submitted by 5pm on Friday, August 22, 2025. Instructions can be found here.

WRC Releases 2024 Impact Report

The Water Resilience Coalition (WRC) had released its 2024 Impact Report, From Risk to Opportunity: Driving Business Action for Corporate Water Stewardship. The WRC is an industry-driven, CEO-led initiative of the CEO Water Mandate that aims to address the global water crisis and preserve the world's freshwater resources through collective action in water-stressed basins and ambitious, quantifiable commitments. The 2024 Impact Report dives into the WRC's progress, highlights from collective action in priority basins, and examines the road ahead. The report provides a snapshot of WRC member companies' impact in 2024 and discusses the benefits of harnessing the power of tech-

NEWS BRIEFS *continued*

nology and AI to prevent operational, financial, and reputational consequences attributed to water risks.

Extension of Groundwater Extraction Reporting Period and Reporting Deadline Under SGMA

The State Water Resources Control Board (State Water Board) extended the reporting period and deadline for the first groundwater extraction reports in the Tule Subbasin required under the Sustainable Groundwater Management Act (SGMA).

The new extended reporting period will be from January 1 through December 31, 2025; the new reporting deadline will be May 1, 2026. These updates apply only to the first reporting period and reporting deadline following the Tule Subbasin's designation as a probationary basin under SGMA. Reporting deadlines for subsequent years remain unchanged.

The Tule Subbasin was designated as probationary on September 17, 2024, under State Water Board Resolution No. 2024-0030. This extension is authorized by the State Water Board's Executive Director and will take effect 30 days after the date of the notice, consistent with the resolution.

For more background information, visit the Tule Subbasin webpage: https://bit.ly/sgma-tule

Pumpers Fee Falls Flat, *continued from page 7*

Out of 4,000 pumpers in the Tule subbasin, more than 3,500 would pay $5 per acre foot while 34 would pay the $40 fee, according to state statistics. Both the Tule and Tulare Lake subbasins have been placed on probation by the Water Board.

The fee change was anticipated to generate $6.6 million in revenue.

Instead, the proposal generated a slew of 18 negative letters, nearly all from the Tule subbasin in southern Tulare County.

Letter writers felt the proposed fee change unfairly targeted the Tule subbasin, was an unconstitutional overreach and would incentivize large land holders to restructure their organizations in order to drop into a lower fee tier.

"Each subbasin should pay their own way," states a letter from six Tule stakeholders, including Frank Junio, Jim Morehead, Vincent Sola, Bill De Groot, Mike Faria and Geoff Vanden Heuvel.

"Tule subbasin growers alone should not shoulder the expense of this," the men wrote.

A letter from Freestyle Orchards, LLC of Fresno states the proposed fee structure would disproportionately impact larger growers who are investing in water conservation technologies and practices to comply with mandates under the Sustainable Groundwater Management Act (SGMA).

"Adding a tiered free structure risks undermining these efforts by diverting limited financial resources away from on-farm improvements," states the letter, signed by Sara Pernu.

The lone letter in favor of the fee structure was signed by five non-governmental agencies, including Community Alliance with Farm Farms and Community Water Center.

"Tiered charges such as those used by utility companies for electric and gas charges can incentivize conservation," the letter reads. "This is an important precedent to set as SGMA implementation continues and the state seeks ways to equitably and sustainably manage our groundwater resources for all beneficial uses and users."

In the end, however, Water Board staff opted to keep the existing fee structure. Though Natalie Stork, director of the Office of Sustainable Groundwater Management, said the state will continue to evaluate alternative fee structures.

"There is significant uncertainty since we have not collected probationary reporting fees before," she said.

Author: Lisa McEwen , Source: SJVWATER.Org

Water Blueprint Calls for Urgent Action on Water Infrastructure

The Water Blueprint for the San Joaquin Valley—a coalition of farmers, water agencies, rural communities, conservationists, and local governments—has issued a strong appeal to federal leaders for increased investment in the region's aging water systems.

In recent letters to the San Joaquin Valley Congressional Delegation and U.S. Secretary of the Interior Doug Burgum, the group expressed gratitude for the $1

See ***Urgent Action,*** *page 9*

Urgent Action, *continued from page 8*

billion included in the recently passed One Big, Beautiful Bill Act, but stressed that this is only a first step toward addressing decades of underinvestment.

The Blueprint points to critical needs across the region, including repairing key conveyance systems like the Friant-Kern Canal, Delta-Mendota Canal, San Luis Canal, and California Aqueduct, as well as expanding water storage to improve drought resilience. Without decisive action, a recent UC Davis study warns the Valley could lose up to nine million acre-feet of water annually by 2050, causing as much as $14.5 billion in economic damage and forcing the fallowing of three million acres of farmland.

Beyond funding, the Blueprint is urging the federal government to prioritize California's water infrastructure in planning decisions, modernize operational rules for state and federal water projects, remove unnecessary regulatory barriers, and fast-track permitting for critical projects. The coalition estimates more than $12 billion will be needed to fully modernize the Valley's water system and ensure long-term water security for both people and the environment.

"The Blueprint represents a united voice for the San Joaquin Valley—farmers, water agencies, communities, and conservationists—working together to secure a sustainable water future," said Eddie Ocampo, Chair of the Water Blueprint. "We are grateful for the progress made, but we must keep pushing forward. The future of our region depends on it."

For more information on Water Blueprint for San Joaquin Valley, please visit: https://waterblueprintca.com/

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UPCOMING MEETINGS

State Water Resources Control Board
August 22, 2025
Byron Sher Room, 2nd Floor
1001 I St.,Sacramento, CA 95814
Agenda and Participation Guide

Central Valley Flood Protection Board
August 22, 2025; 9:00am
715 P Street, Rm 2-221B-C
(2nd Floor), Sacramento, CA
Zoom Link, Agenda

Delta Stewardship Council
August 28, 2025
Location TBA
Agenda *(Available Aug. 18)*

Department of Water Resources
Draft Subsidence Best Management Practices – Delano
September 10, 2025
1200 Garzola Avenue
Delano, CA 93215
Registration and Information

Department of Water Resources
Draft Subsidence Best Management Practices – Clovis
September 9, 2025
808 4th Street
Clovis, CA 93612
Registration and Information

Valley Ag Water Coalition

The mission of the Valley Ag Water Coalition is to represent the collective interests of its San Joaquin Valley member agricultural water companies and agencies in California legislative and regulatory matters by providing leadership and advocacy on issues relating to the development and delivery of a reliable farm water supply.

Website: SitesProject.org

Reservoir Committee/Authority Board Meeting **August 22, 2025**
9:00 AM – Noon

Meeting Virtual Link Call in: **1-916-538-7066**

122 Old Hwy 99W, Maxwell, CA 95955 Code: **160 307 636#**
(additional locations below)

Authority Board Chair:	Fritz Durst (Reclamation District 108)
Authority Board Vice-Chair:	Jeff Sutton (Glenn-Colusa Irrigation District)
Reservoir Committee Chair:	Robert Kunde (Wheeler Ridge-Maricopa Water Storage District)
Reservoir Committee Vice-Chair:	Jordon Navarrot (RD108 & Dunnigan Water District)
Treasurer:	Jamie Traynham (Davis Water District)

AGENDA

ROLL CALL & CALL TO ORDER:

- Introduction
- Pledge of Allegiance
- Approval of meeting agenda, August 22, 2025
- Announcement of Closed Session
- Period for Public Comment

People may speak about any subject of concern, provided it is within the Reservoir Committee's (RC) and Authority Board's (AB) jurisdiction. Before speaking, you must submit a public comment card electronically or on paper. The time allotted for receiving such public communication shall be 3 minutes per person. Note: No action shall be taken on comments made during this period. If your comment is related to a specific agenda item, please indicate this on your comment card, and you will be called upon at that time.

1. Consent Agenda

Approximate start time 9:10 am

The Executive Director reviewed the following items. To his knowledge, there is no opposition to the action. The items can be acted on in one consolidated motion as recommended or may be removed from the Consent Calendar and separately considered at the request of any person. Each item indicates the body authorized to approve such actions according to the JPA, Bylaws and Project Agreement.

1.1 Reservoir Committee and Authority Board consider approval of July 18, 2025, Reservoir Committee and Authority Board Meeting Minutes. **(Attachments A & B)**

1.2 Reservoir Committee and Authority Board consider acceptance of the Sites Project Authority Treasurer's Report. **(Attachment A)**

1.3 Reservoir Committee and Authority Board consider approval of the Sites Project Authority Payment of Claims. **(Attachments A & B)**

1.4 Reservoir Committee and Authority Board consider acceptance of the Sites Project Authority's Second Quarter 2025 Budget Year Quarterly Financial Report. **(Attachment A)**

1.5 Reservoir Committee and Authority Board consider approval of a consulting agreement/contract with Starting Line Advisory to provide Financial Accounting services in the amount not to exceed $50,000 ($5,000/month) for the period of September 1, 2025, through June 30, 2026. **(Attachments A & B)**

1.6 Reservoir Committee and Authority Board consider approval of a task order amendment with CH2M (Operations) for additional modeling services in the amount of $340,277 increasing the total task order amount from $3,847,125 to a revised total not to exceed of $4,187,402 for the period of January 1, 2022 through December 31, 2025.

2. Action Items: Approximate start time 9:20 am

2.1 Reservoir Committee and Authority Board consider approval to submit the Sites Project's Step 2 Operations Biological Assessment (project-level analysis) to the Bureau of Reclamation for consultation under the Federal Endangered Species Act.

3. Discussion and Information Items: Approximate start time 9:40 am
No action from the Reservoir Committee or Authority Board.

3.1 Review and comment on preparations to issue a request for Interim Construction Financing and related services.

4. Reports: Approximate start time 9:50 am

4.1 Chairpersons' Reports:

This time is set aside to allow the Reservoir Committee & Authority Board Chair/Vice-Chair an opportunity to disclose/discuss items related to the Project.

4.2 Committee & Workgroup Chairpersons' Reports:

This time is set aside to allow the Committee & Workgroup Chairpersons an opportunity to disclose/discuss items related to the Sites Project. Agendas are located on the project website (sitesproject.org).

4.3 Authority Board & Reservoir Committee Participant Reports:

This time is set aside to allow Representatives or their Alternates to disclose/discuss items related to the Sites Project.

4.4 Executive Director's Reports:

- Joint Powers Authority's 15-Year Anniversary!
- Monthly status report. **(Attachment A)**
- Action Items from last month's meeting. **(Attachment B)**

5. Closed Session: Approximate start time 10:20 am

5.1 Negotiations concerning water right permit terms and conditions (Govt. Code §54956.9(c) and §54956.9(d)(1)).

5.2 Conference with Real Property Negotiators (Gov. Code § 54956.8).

Property: Various parcels comprising the Sites Reservoir and related facilities.

Agency negotiators: Jerry Brown, Ali Forsythe
Negotiating parties: California Department of Fish and Wildlife

Under negotiation: Price and terms of payment for water storage and conveyance capacity.

5.3 Conference with Real Property Negotiators (Gov. Code §54956.8):

Property: Various parcels comprising the Sites Reservoir and related facilities.

Agency Negotiators: Jerry Brown, Ali Forsythe

Negotiating Parties: U.S. Bureau of Reclamation

Under Negotiation: Price and terms of payment for water storage and conveyance capacity.

5.4 Conference with Real Property Negotiators (Gov. Code §54956.8):

Property: Various parcels comprising the Sites Reservoir and related facilities.

Agency Negotiators: Jerry Brown

Negotiating Parties: Colusa County, Glenn County, Yolo County

Under Negotiation: Price and terms of payment

6. Report from Closed Session Approximate start time 11:55 am

7. Recap: Approximate start time 11:58 am

7.1 Suggested Future Agenda Items.

7.2 Next Board Meeting, **Friday, September 19, 2025** (9:00 am to noon).

Meetings are held virtually and in the Maxwell Project Office.

Virtual Information will be provided on the meeting agenda at Sitesproject.org.

ADJOURN

ADA COMPLIANCE: Upon request, agendas will be made available in alternative formats to accommodate persons with disabilities. In addition, any person with a disability who requires a modification or accommodation to participate or attend this meeting may request the necessary accommodation. Please make your request to the Board Clerk, specifying your disability, the format in which you would like to receive this Agenda and any other accommodation required no later than 24 hours before the start of the meeting.

This meeting will be recorded.

Alternate Meeting Locations:

Desert Water Agency, 1200 S. Gene Autry Trail, Palm Springs, CA 92264

Metropolitan Water District, 1121 L Street, Suite 900, Sacramento, CA 95814

Rosedale Rio Bravo Water District, 849 Allen Road, Bakersfield, CA 92214

Santa Clarita Valley Water Agency, 26501 Summit Circle, Santa Clarita, CA 91350

San Gorgonio Pass Water Agency 1210 Beaumont Ave, Beaumont, CA 92223

Zone 7 Water Agency, 1840 Diamond Street, San Diego, CA 92109