



BUILDING A SUSTAINABLE WATER SUPPLY TO HELP OUR COMMUNITY THRIVE

REGULAR MEETING OF THE BOARD OF DIRECTORS
ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT
849 ALLEN ROAD, BAKERSFIELD, CA 93314

AGENDA

December 12, 2023
8:00 a.m.

1. CALL TO ORDER / ROLL CALL

2. APPROVAL OF MINUTES

- a) Special Board Meeting Minutes of November 13, 2023
- b) Regular Board Meeting Minutes of November 14, 2023
- c) Adjourned Board Meeting Minutes of November 20, 2023

3. FINANCIAL REPORT

- a) Treasurer's Report (MM)
- b) Accounts Payable (MM)
- c) Revenue and Expenditures (MM)
- d) Consideration of Revisions to Financial Policy (MM)
- e) Consideration of 2024 Budget (MM/DB)
- f) Consideration of Resolution No. 537 - Setting Rate for 2024 Groundwater Charge (DB)

4. OPERATIONS AND MAINTENANCE REPORT

- a) District Groundwater Levels (MN)
- b) Operations (ZS)
- c) Maintenance (ZS)

5. WATER RESOURCES REPORT

- a) State Water Project Operations (TT)
- b) California Delta Conveyance Project (TT)
- c) Update on Landowner Banking Program (TT)

6. MANAGER'S REPORT

- a) ACWA Conference Report (MN)

- b) State Water Project Tour (RE)
- c) Strategic Plan Update (RE)
- d) Consideration of Continuing Emergency Action - Public Contract Code §22050(c)(1) – Resolution No.531 (RE)
- e) Consideration of 2022 Operations Report (DB)

7. ENGINEER'S REPORT

- a) Onyx Ranch Project
 - i. Operations (DB)
 - ii. Consideration of Resolution - FEMA Disaster Relief Application (RE)
- b) Improvement Projects (MN)

8. COMMITTEE/SPECIAL PROJECT ACTIVITIES

- a) Groundwater Banking Joint Powers Authority (DB & TT)
- b) James Groundwater Banking Authority (DB)
- c) Sustainable Groundwater Management Act (DB & TT)
 - i. Consideration of KGA Budget
- 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) Consideration of Employee Compensation & Adoption of District Salary Schedule (DR)
- b) Consideration of Consulting Rate Increase (DR)

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)*: One (1) Matter
- b) Conference with legal counsel – Anticipated Litigation: Initiation of Litigation – *Government Code*

Section 54956.9(d)(4): One (1) Matter

- 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. City of Bakersfield v. Rosedale-Rio Bravo Water Storage District (McAllister CEQA)
 - iii. Department of Water Resources v. All Persons Interested (Validation Action)
 - iv. Rosedale-Rio Bravo Water Storage District, et al. vs. Kern County Water Agency, et al. (CVC Litigation)
 - v. Buena Vista Water Storage District, et al. v. Rosedale-Rio Bravo Water Storage District (Three Separate Suits) (Onyx Ranch CEQA Litigation)
 - vi. Rosedale-Rio Bravo Water Storage District v. Buena Vista Water Storage District, et al. (Onyx Ranch Declaratory Relief Litigation)
 - vii. 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: James / McCallister Ranch. Negotiating Parties: Various parties and Rosedale-Rio Bravo Water Storage District. Under negotiation: Price & Terms of Payment
 - iii. Property: Water Supply (2023 Supplies). Negotiating parties: Various parties and Rosedale-Rio Bravo Water Storage District. Under negotiation: Price & Terms of Payment
 - iv. Property: License / Easement for Canal Facility. Negotiating parties: Various parties and Rosedale-Rio Bravo Water Storage District. Under negotiation: Price & Terms of Payment
 - v. Property: Various Parcels – Potential District Projects. Negotiating parties: Various parties and Rosedale-Rio Bravo Water Storage District. Under negotiation: Price & Terms of Payment
 - vi. Property: APN 104-240-49 & 51. Negotiating Parties: SH Bakersfield LLC and Rosedale-Rio Bravo Water Storage District. Under negotiations: Price & Terms of Payment.
 - vii. Property: APN 104-250-27. Negotiating Parties: Jack Schweikart Rev. Trust and Rosedale-Rio Bravo Water Storage District. Under negotiations: Price & Terms of Payment.
 - viii. Property: APN 104-260-08. Negotiating Parties: Marc McCaslin and Rosedale-Rio Bravo Water Storage District. Under negotiations: Price & Terms of Payment.
 - ix. Property: APN 104-292-09. Negotiating Parties: Lonnie Dillard and Rosedale-Rio Bravo Water Storage District. Under negotiations: Price & Terms of Payment.

- e) Personnel – Government Code Sections 54957 and 54957.6 – Performance Evaluation – District Employees. Conference with Labor Negotiator – District Representative: DanRaytis; Unrepresented Employees – District Employees

14. ADJOURNMENT

DECLARATION OF POSTING: I, Rachele 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 December 8, 2023. ***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
November 13, 2023
7:30 a.m.

DIRECTORS PRESENT

Roy Pierucci, Gary Unruh and Barry Watts

DIRECTORS ABSENT

Jason Selvidge & Mitch Millwee

OTHERS PRESENT

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

Public – None

CALL TO ORDER

President Pierucci called the meeting to order at approximately 7:30 a.m.

PUBLIC COMMENT

None

CLOSED SESSION*

During the meeting, the Board met in closed session, as follows: At 7:31 a.m. President Pierucci announced the Board would meet in closed session. At 3:00 p.m. the Board reconvened to open session and Mr. Raytis announced there were no reportable actions taken in closed session.

ADJOURNMENT

At 3:00 p.m. President Pierucci adjourned the meeting.

*Notice: The closed-session portion of this meeting occurred outside of the District's boundaries to inspect real and personal property which cannot be conveniently brought into the District's boundaries. (Cal. Gov't Code § 54954(b)).

BOARD OF DIRECTORS
ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT
MINUTES OF THE REGULAR BOARD MEETING
November 14, 2023
8:00 a.m.

DIRECTORS PRESENT

Roy Pierucci, Jason Selvidge, Gary Unruh, and Barry Watts

DIRECTORS ABSENT

Mitch Millwee

OTHERS PRESENT

District Staff / Consultants – Dan Bartel, Trent Taylor, Megan Misuraca, Markus Nygren, Dan Raytis, Zach Smith, Rachelle Echeverria, Jennifer Spaletta, Monique Roberts
Public – Jonathan Ens, Brad DeBranch, Vincent Sorena, Geordy Wise, Travis Millwee, James Dunlarey, Edward Kosareff and John Kosareff

CALL TO ORDER

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

APPROVAL OF MINUTES

- a) Regular Board Meeting Minutes – October 10, 2023
A motion was made by Director Unruh with a second by Director Watts to approve the Board of Directors regular meeting minutes of October 10, 2023. The motion was unanimously passed.
AYES: Directors Pierucci, Selvidge, Unruh and Watts
NOES: None
ABSTAINED: None

FINANCIAL REPORT

- a) Treasurer’s Report – Ms. Misuraca reviewed the treasurer’s report as of October 31, 2023.
- b) Accounts Payable/ October 7, 2023 through November 10, 2023 — Ms. Misuraca reviewed the accounts payable report with the Board. Director Unruh requested that the financial policy be updated to reflect that a Board member is to sign all checks including those checks cut between board meetings. Ms. Misuraca promised to bring a revised financial policy back to the Board for consideration at its December meeting. A motion was made by Director Watts and seconded by Director Unruh to ratify and approve payment of the accounts payable in the total amount of \$1,058,243.23. The motion unanimously passed.
AYES: Directors Pierucci, Selvidge, Unruh and Watts
NOES: None
ABSTAINED: None
- c) Revenue and Expenditures Report – Ms. Misuraca reviewed the current Revenue and Expenditures Report through October 31, 2023, including budget vs. actual.

d) Public Hearing- Consideration of Resolution No. 536 / Ordinance No. 2- Declaring Results of Protest Preceding & Adopting Water Charge –

At the request of President Pierucci, Mr. Raytis announced that the public hearing was open at 8:37AM. Mr. Raytis announced to the Board and the public the following:

- The public hearing is the time and place for the Board to consider protests to a proposed water charge in the District to be charged against consumptive use in excess of available supply.
- The District’s staff has provided notice of the public hearing in the following manner: mailed to all affected landowners shown in the appendix to the rate study; posted on the District’s website; posted at the office; and published in a newspaper of general circulation in the District.
- The purpose of the proposed water charge is to fund projects intended to generate supply or to reduce demand in an effort to bring the District supply and use into balance and to meet the requirements of SGMA.
- The order of the presentation during the hearing will be as follows: First, Dan Bartel (Engineer-Manager) will be providing a general introduction to the subject and genesis of the Water Charge. Second, Monique Roberts (outside consulting professional engineer) will walk the Board and public through the rate study that AECOM prepared in support of the water charge. Third, Trent Taylor (Water Resources Manager) will go through the various policies that staff is recommending that relate to implementation of the proposed water charge. And after Trent is done the Board will have its own discussion and hear questions and comments from the public. Time for comments may be limited in the discretion of the President. Once all comments and protests are received, we will count them to determine whether a majority protest exists and, if not, then the Board can continue to consider whether to adopt a water charge.

Mr. Bartel, Ms. Roberts, and Mr. Taylor gave presentations to the Board and public as outlined by Mr. Raytis. The Board discussed the proposed water charge and echoed comments that they had received from various landowners. The Board opened the floor for public comments. None were received. At the request of President Pierucci, Mr. Raytis announced that a majority protest did not exist (with 8.32% protests received) and the public hearing was closed at 9:30AM. Mr. Raytis provided an overview of the proposed Ordinance No. 2 and Resolution No. 536, and provided the Board with the staff recommendation. Upon recommendation of staff, a motion was made by Director Unruh with a second by Director Selvidge to waive the first reading of Ordinance No. 2 and adopt Resolution No. 536 - Declaring the Results of a Proposition 218 Majority Protest Process. A roll call vote was taken and the motion unanimously passed.

AYES: Directors Pierucci, Selvidge, Unruh and Watts

NOES: None

ABSTAINED: None

OPERATIONS AND MAINTENANCE REPORT

- a) District Groundwater Levels – Mr. Nygren advised the Board of current groundwater levels with reference to the District’s minimum thresholds under SGMA.

- b) Operations Report – Mr. Smith reviewed water conveyance and recharge operations and estimated balances with the Board.
- c) Maintenance Report – Mr. Smith reviewed maintenance projects that have taken place over the last month.

WATER RESOURCES REPORT

- a) State Water Project Operations – Mr. Taylor gave a detailed report on current state water project operations. Mr. Taylor also reviewed the 8-station index graph and reservoir conditions with the Board.
- b) California Delta Conveyance Project – Mr. Taylor gave a brief status report on the DCP project.
- c) Update on Landowner Banking Programs – Mr. Taylor briefed the Board on the latest landowner banking program updates.

MANAGER’S REPORT

- a) Strategic Plan Update – Ms. Echeverria briefed the Board on staff’s progress for Goal #4 of the District’s adopted strategic plan to live out an intentional and focused project plan for major initiatives.
- b) Consideration of Resolution No. 531 Flood Emergency Declaration – Ms. Echeverria reported on updated water and emergency conditions. A motion was made by Director Watts with a second by Director Unruh to continue the emergency action of Resolution 531 – declaring a flood emergency and to authorize procurement of equipment, services and supplies for such emergencies without giving notice for bids to let contracts. The motion unanimously passed.

AYES: Directors Pierucci, Selvidge, Unruh and Watts

NOES: None.

ABSTAINED: None.

ENGINEERS / PROJECTS REPORT

- a) Onyx Ranch
 - i. Operations Report – Mr. Bartel briefed the Board on the status of the Onyx Ranch operations and the Smith ditch cleaning efforts.
 - ii. FEMA Disaster Relief Application – Ms. Echeverria briefed the Board on the process and current status to receive funds from FEMA for the repairs required from the flooding at Onyx Ranch.
 - iii. Consideration of Pipeline Easements for Weldon Regional Water District – Mr. Bartel reviewed the proposed easement acquisition for Weldon Regional Water District prepared by Dee Jaspar and Associates. A motion was made by Director Selvidge with a second by Director Watts to approve a pipeline easement for Weldon Regional Water District to include a total acreage of 2.73 acres across APNs 426-032-10, 426-032-12, and 426-032-13 with a total payment of \$12,465 to the District. The motion unanimously passed.

AYES: Directors Pierucci, Selvidge, Unruh and Watts

NOES: None

ABSTAINED: None

- iv. Consideration of Purchase and Installation of Metal Shop Building – Mr. Smith reported on the dilapidated shop building at the Onyx Ranch headquarters. A motion was made by Director Watts with a second by Director Selvidge to authorize the purchase and installation of a new metal shop building in an amount not to exceed \$95,000. The motion unanimously passed.

AYES: Directors Pierucci, Selvidge, Unruh and Watts

NOES: None

ABSTAINED: None

- b) Improvement Projects – Mr. Nygren reported on latest NEPA efforts to break ground on the Bowling/McCaslin recovery well project.

COMMITTEE REPORTS

- a) Groundwater Banking Joint Powers Authority – Mr. Bartel reported on the presentation of Alternative No. 5 for the CVC turnout to the Department of Water Resources.
- b) James Groundwater Banking Authority – Mr. Bartel reported the Operations Committee met and adopted the 2024 budget.
- c) Sustainable Groundwater Management Act
 - i. GSP Deficiency Resolution – Mr. Bartel briefed the Board on the latest Kern Subbasin Coordination Committee efforts.
- d) Kern Fan Monitoring Committee – No report.
- e) Cross Valley Canal Advisory Committee – Mr. Taylor reported that staff (together with Cawelo Water District and Lower-Tule River ID) signed and send a letter to the Kern County Water Agency objecting to the budget for certain costs for improvement projects presented to the Cross Valley Canal budget subcommittee. Mr. Taylor reported that the budget was approved and adopted at the CVCAC meeting.
- f) Pioneer Project Committee – Mr. Taylor reported the budget was approved for the Pioneer Project with Rosedale's share over \$900,000.
- g) Kern River Watershed Coalition Authority (KRWCA) – No report.
- h) Kern Fan Authority – No report.
- i) Joint Operating Committee (JOC) – No report.
- j) Committee for Delta Reliability – Mr. Taylor reported that there will be a meeting at the Marriott Bakersfield Convention Center on November 16, 2023.
- k) South Valley Water Resources Authority – Mr. Taylor briefed the Board on the Fish Friendly Diversion project.
- l) Valley Ag Water Coalition – No report.
- m) Kern Integrated Regional Water Management Plan – No report.
- n) Sites Reservoir Project – Mr. Taylor briefed the Board on the latest activities and reported the project has received a Governor's certification for judicial streamlining of the Sites Reservoir project.

- o) Association of California Water Agencies – Mr. Taylor reported that staff and Director Pierucci will attend the Fall ACWA conference and report back in December.

ATTORNEY’S REPORT

None.

OLD OR NEW BUSINESS

None.

CORRESPONDENCE

None.

PUBLIC COMMENT

None.

CLOSED SESSION

During the meeting, the Board met in closed session, as follows: At 10:44 a.m. President Pierucci announced the Board would meet in closed session. At 11:36 a.m. the Board reconvened to open session. Mr. Raytis announced that the Board had authorized staff to execute a legal services agreement with Stoel Rives, upon the motion of Director Selvidge, seconded by Director Unruh, with all directors present voting in favor.

ADJOURNMENT

At 11:37 a.m., President Pierucci announced that the Board had not completed all of the business on the Agenda, and that the meeting was adjourned to November 20, 2023, at 8:00 a.m. at the District office.

BOARD OF DIRECTORS
ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT
MINUTES OF THE ADJOURNED BOARD MEETING
November 20, 2023
8:00 a.m.

DIRECTORS PRESENT

Roy Pierucci, Jason Selvidge, Gary Unruh (via teleconference), and Barry Watts

DIRECTORS ABSENT

Mitch Millwee

OTHERS PRESENT

District Staff / Consultants – Dan Bartel, Trent Taylor, Megan Misuraca, Dan Raytis

CALL TO ORDER

President Pierucci called the adjourned meeting to order at approximately 8:10 a.m.

FINANCIAL REPORT

Consideration of Ordinance No. 2 - Adopting Water Charge – Second Presentation – Mr. Raytis explained to the Board that Ordinance No. 2 adopting a water charge had been presented to the Board at its regular meeting on November 14, 2023, and was being presented a second time at this adjourned meeting for consideration and adoption. Mr. Raytis explained that Ordinance No. 2 would finalize the adoption of the water charge, which had been considered at a public hearing on November 14, 2023, and subjected to a majority protest proceeding. Mr. Raytis reminded the Board that a majority protest did not exist. Upon discussion, a motion was made by Director Selvidge with a second by Director Watts to adopt Ordinance No. 2. A roll call vote was taken and the motion unanimously passed.

AYES: Directors Pierucci, Selvidge, Unruh and Watts

NOES: None

ABSTAINED: None

PUBLIC COMMENT

None.

CLOSED SESSION

During the meeting, the Board met in closed session, as follows: At 8:10 a.m. President Pierucci announced the Board would meet in closed session. At 9:00 a.m. the Board reconvened to open session and Mr. Raytis announced there were no reportable actions taken in closed session.

ADJOURNMENT

The meeting was adjourned at 9:08 AM.

Rosedale- Rio Bravo WSD
RRB Monthly Board Cash Report
 As of November 30, 2023

	<u>Credit</u>	<u>Debit</u>	<u>Balance</u>
10006 · Tri-Counties Bank-Operations			4,063,640.35
Total 10006 · Tri-Counties Bank-Operations	5,660,132.91	935,029.38	8,788,743.88
10007 · Tri-Counties Bank-Payroll			76,867.25
Total 10007 · Tri-Counties Bank-Payroll	160,142.00	120,192.41	116,816.84
10100 · General County Fund # 60510			465,870.73
Total 10100 · General County Fund # 60510	195,053.80	0.00	660,924.53
10101 · Operations County Fund # 60520			48,975.88
Total 10101 · Operations County Fund # 60520	121.85	0.00	49,097.73
10102 · Bond Debt County Fund # 60526			5,192.75
Total 10102 · Bond Debt County Fund # 60526	12.94	0.00	5,205.69
10103 · Bond Reserve County Fund #60527			949.50
Total 10103 · Bond Reserve County Fund #60527	2.37	0.00	951.87
10503 · 2018 COP Reserve Fund Account			1,089,262.84
Total 10503 · 2018 COP Reserve Fund Account			1,089,262.84
10504 · 2020 COP W.F. Trust Funds M.M.			519.76
Total 10504 · 2020 COP W.F. Trust Funds M.M.	2.31	0.00	522.07
10551 · Goldman Sachs Money Market			8,731,291.48
Total 10551 · Goldman Sachs Money Market	0.00	5,500,000.00	3,231,291.48
TOTAL CASH	6,015,468.18	6,555,221.79	13,942,816.93
10550 · Investment AMG - Wells Fargo			12,319,602.17
Total 10550 · Investment AMG - Wells Fargo			12,319,602.17
TOTAL CASH EQUIVALENT	0.00	0.00	12,319,602.17
Total Cash and Cash Equivalent	6,015,468.18	6,555,221.79	26,262,419.10

Rosedale- Rio Bravo WSD
Accounts Payable Report
November 11 through December 8, 2023

Type	Num	Date	Name	Account	Paid Amount
Check		11/30/2023	Tri Counties Bank	10006 · Tri-Counties Bank-Operations	
				60100 · Bank Service Charges	-132.25
TOTAL					-132.25
Bill Pmt -Check	ACH	11/13/2023	Jeffries Bros., Inc.	10006 · Tri-Counties Bank-Operations	
Bill	138708	10/28/2023	Groundwater Banking, JPA:West Enos Recharge	61800 · Fuel	-2,008.08
TOTAL					-2,008.08
Bill Pmt -Check	ACH	11/14/2023	Jeffries Bros., Inc.	10006 · Tri-Counties Bank-Operations	
Bill	138176	10/30/2023	Groundwater Banking, JPA:West Enos Recharge	61800 · Fuel	-292.28
Bill	138720	10/30/2023	Groundwater Banking, JPA:West Enos Recharge	61800 · Fuel	-1,640.66
TOTAL					-1,932.94
Bill Pmt -Check	ACH	11/16/2023	Jeffries Bros., Inc.	10006 · Tri-Counties Bank-Operations	
Bill	138972	11/01/2023	Groundwater Banking, JPA:West Enos Recharge	61800 · Fuel	-928.40
TOTAL					-928.40
Bill Pmt -Check	ACH	11/20/2023	Jeffries Bros., Inc.	10006 · Tri-Counties Bank-Operations	
Bill	139192	11/04/2023	Groundwater Banking, JPA:West Enos Recharge	61800 · Fuel	-2,069.39
TOTAL					-2,069.39
Bill Pmt -Check	ACH	11/21/2023	Jeffries Bros., Inc.	10006 · Tri-Counties Bank-Operations	
Bill	139204	11/06/2023	Groundwater Banking, JPA:West Enos Recharge	61800 · Fuel	-1,610.64
TOTAL					-1,610.64
Bill Pmt -Check	ACH	11/24/2023	Jeffries Bros., Inc.	10006 · Tri-Counties Bank-Operations	
Bill	139302	11/08/2023	Groundwater Banking, JPA:West Enos Recharge	61800 · Fuel	-1,481.87
Bill	139540	11/10/2023	Groundwater Banking, JPA:West Enos Recharge	61800 · Fuel	-1,585.12
TOTAL					-3,066.99
Bill Pmt -Check	ACH	11/28/2023	Jeffries Bros., Inc.	10006 · Tri-Counties Bank-Operations	
Bill	139638	11/13/2023	Groundwater Banking, JPA:West Enos Recharge	61800 · Fuel	-1,703.80
Bill	139520	11/13/2023	Groundwater Banking, JPA:West Enos Recharge	61800 · Fuel	-233.82
Bill	139914	11/17/2023	Jeffries Bros., Inc.	20000 · Accounts Payable	0.00
TOTAL					-1,937.62
Bill Pmt -Check	ACH	11/30/2023	Jeffries Bros., Inc.	10006 · Tri-Counties Bank-Operations	
Bill	139750	11/15/2023	Groundwater Banking, JPA:West Enos Recharge	61800 · Fuel	-1,623.60
TOTAL					-1,623.60
Bill Pmt -Check	ACH	12/01/2023	Jeffries Bros., Inc.	10006 · Tri-Counties Bank-Operations	
Bill	139921	11/17/2023	Groundwater Banking, JPA:West Enos Recharge	61800 · Fuel	-985.30
TOTAL					-985.30
Bill Pmt -Check	ACH	12/05/2023	Jeffries Bros., Inc.	10006 · Tri-Counties Bank-Operations	
Bill	139953	11/20/2023	Groundwater Banking, JPA:West Enos Recharge	61800 · Fuel	-1,932.86
TOTAL					-1,932.86
Bill Pmt -Check	ACH	12/05/2023	Jeffries Bros., Inc.	10006 · Tri-Counties Bank-Operations	
Bill	140030	11/21/2023	Groundwater Banking, JPA:West Enos Recharge	61800 · Fuel	-116.91
TOTAL					-116.91
Bill Pmt -Check	ACH	12/07/2023	Kern River Watershed Coalition Authority	10006 · Tri-Counties Bank-Operations	
Bill	2023-12-07	01/01/2024		61450 · Regulatory Program Compliance	-313.00

Rosedale- Rio Bravo WSD
Accounts Payable Report
November 11 through December 8, 2023

	<u>Type</u>	<u>Num</u>	<u>Date</u>	<u>Name</u>	<u>Account</u>	<u>Paid Amount</u>
TOTAL						-313.00
	Bill Pmt -Check	2904	12/05/2023	CDTFA	10006 · Tri-Counties Bank-Operations	
	Bill	L0023656441	11/15/2023	RRBWSD:Onyx Ranch	60200 · Licenses, Permits and Fees	-301.67
TOTAL						-301.67
	Bill Pmt -Check	2905	12/05/2023	Christensen, Inc.	10006 · Tri-Counties Bank-Operations	
	Bill	282860CT	11/15/2023	RRBWSD:Onyx Ranch	61800 · Fuel	-757.53
					61800 · Fuel	-3,116.79
TOTAL						-3,874.32
	Bill Pmt -Check	2906	12/05/2023	Esparza Enterprises, Inc	10006 · Tri-Counties Bank-Operations	
	Bill	118996	11/22/2023	RRBWSD:Onyx Ranch	63007 · Other Contracted Services	-4,133.48
	Bill	118859	11/15/2023	RRBWSD:Onyx Ranch	63007 · Other Contracted Services	-3,195.90
					63007 · Other Contracted Services	-680.00
TOTAL						-8,009.38
	Bill Pmt -Check	2907	12/05/2023	Heather Durham Reimbursement	10006 · Tri-Counties Bank-Operations	
	Bill	20231107	11/07/2023		65002 · Mileage Reimbursement Expense	-26.59
TOTAL						-26.59
	Bill Pmt -Check	2908	12/05/2023	Kern County Auditor/Controller	10006 · Tri-Counties Bank-Operations	
	Bill	1110-07134	11/06/2023		62000 · General Office Expense	-34.44
TOTAL						-34.44
	Bill Pmt -Check	2909	12/05/2023	Kern County Water Agency	10006 · Tri-Counties Bank-Operations	
	Bill	40564	11/13/2023		64000 · Water Transaction Fees	-1,767.41
	Bill	40563	11/13/2023		64000 · Water Transaction Fees	-10,142.95
	Bill	40616	11/16/2023		61400 · Third Party Project Operations	-31,079.00
	Bill	40674	11/20/2023		64000 · Water Transaction Fees	-4,450.00
	Bill	40568	11/20/2023		64000 · Water Transaction Fees	-5,900.00
	Bill	40570	11/20/2023		64000 · Water Transaction Fees	-5,900.00
	Bill	40676	11/20/2023		64000 · Water Transaction Fees	-4,740.00
	Bill	40621	11/21/2023		61400 · Third Party Project Operations	-32,825.00
TOTAL						-96,804.36
	Bill Pmt -Check	2910	12/05/2023	PG&E (3387844223-6)	10006 · Tri-Counties Bank-Operations	
	Bill	3387844223-6 Nov 23	11/14/2023	Groundwater Banking, JPA:West Enos Recharge	66000 · Utilities	-53.10
TOTAL						-53.10
	Bill Pmt -Check	2911	12/05/2023	Rachelle Echeverria - Reimbursement	10006 · Tri-Counties Bank-Operations	
	Bill	20231121	11/21/2023		62000 · General Office Expense	-120.00
					66011 · Technology Fees & Subscriptions	-14.99
					66011 · Technology Fees & Subscriptions	-14.99
					62000 · General Office Expense	-36.66
	Bill	20231127	11/27/2023		62000 · General Office Expense	-200.00
TOTAL						-386.64
	Bill Pmt -Check	2912	12/05/2023	Southern California Edison (700122257127)	10006 · Tri-Counties Bank-Operations	
	Bill	700722257127 Nov 23	11/06/2023	RRBWSD:Onyx Ranch	66000 · Utilities	-15.71
				RRBWSD:Onyx Ranch	66000 · Utilities	-27.26
				RRBWSD:Onyx Ranch	66000 · Utilities	-15.70
				RRBWSD:Onyx Ranch	66000 · Utilities	-62.43
				RRBWSD:Onyx Ranch	66000 · Utilities	-162.85
				RRBWSD:Onyx Ranch	61301 · GW Well Pumping Expense	-1.45
				RRBWSD:Onyx Ranch	66000 · Utilities	-14.27
				RRBWSD:Onyx Ranch	61301 · GW Well Pumping Expense	-25.02
				RRBWSD:Onyx Ranch	60200 · Licenses, Permits and Fees	-24.91
TOTAL						-349.60

Rosedale- Rio Bravo WSD
Accounts Payable Report
November 11 through December 8, 2023

Type	Num	Date	Name	Account	Paid Amount
Bill Pmt -Check	2913	12/05/2023	Spaletta Law	10006 · Tri-Counties Bank-Operations	
Bill	12265	11/08/2023	RRBWSD:Onyx Ranch	63000 · Legal Services	-325.00
Bill	12264	11/08/2023	RRBWSD:Onyx Ranch	63000 · Legal Services	-11,102.00
TOTAL					-11,427.00
Bill Pmt -Check	2914	12/05/2023	Standard Insurance	10006 · Tri-Counties Bank-Operations	
Bill	006492990038 Dec 23	11/14/2023	RRBWSD:Onyx Ranch	20035 · Benefit Liabilities	-62.19
				20035 · Benefit Liabilities	-645.25
TOTAL					-707.44
Bill Pmt -Check	2915	12/05/2023	SUBURBAN PROPANE	10006 · Tri-Counties Bank-Operations	
Bill	254638	11/14/2023		66000 · Utilities	-75.50
TOTAL					-75.50
Bill Pmt -Check	2916	12/05/2023	Megan Misuraca-Expense Acct	10006 · Tri-Counties Bank-Operations	
Bill	20231205	12/05/2023		62000 · General Office Expense	-300.00
TOTAL					-300.00
Bill Pmt -Check	2917	12/05/2023	Zach Smith-Reimbursement	10006 · Tri-Counties Bank-Operations	
Bill	20231113	11/13/2023	RRBWSD:CVC Litigation	67000 · Travel Expense	-100.00
TOTAL					-100.00
Total AP to be ratified					-141,108.02
Bill Pmt -Check	2918	12/08/2023	Abate-A-Weed	10006 · Tri-Counties Bank-Operations	
Bill	1025002	11/20/2023		61650 · Operating Supplies	-120.03
TOTAL					-120.03
Bill Pmt -Check	2919	12/08/2023	ACE HARDWARE	10006 · Tri-Counties Bank-Operations	
Bill	63628	11/01/2023		61650 · Operating Supplies	-14.27
Bill	63600	11/01/2023		61650 · Operating Supplies	-41.07
Bill	63657	11/03/2023		61650 · Operating Supplies	-14.42
Bill	63676	11/09/2023		61650 · Operating Supplies	-25.38
Bill	63731	11/22/2023		61650 · Operating Supplies	-44.19
Bill	63773	11/30/2023		61650 · Operating Supplies	-21.63
TOTAL					-160.96
Bill Pmt -Check	2920	12/08/2023	ACWA - JPIA (Benefits)	10006 · Tri-Counties Bank-Operations	
Bill	0701292	12/01/2023		20035 · Benefit Liabilities	-16,942.48
TOTAL					-16,942.48
Bill Pmt -Check	2921	12/08/2023	ACWA JPIA (W/C,Auto,GL,Prop)	10006 · Tri-Counties Bank-Operations	
Bill	2023-11-02	11/02/2023		41000 · Other Income	-85.00
Bill	2023-11-16	11/16/2023		41000 · Other Income	-85.00
TOTAL					-170.00
Bill Pmt -Check	2922	12/08/2023	Advanced Data Storage, Inc.	10006 · Tri-Counties Bank-Operations	
Bill	0174487	11/25/2023		62000 · General Office Expense	-41.40
TOTAL					-41.40
Bill Pmt -Check	2923	12/08/2023	AE-COM Engineering Inc	10006 · Tri-Counties Bank-Operations	
Bill	2000830256	12/31/2023		63004 · Engineering Services	-5,649.40
TOTAL					-5,649.40
Bill Pmt -Check	2924	12/08/2023	AMTEC	10006 · Tri-Counties Bank-Operations	

Rosedale- Rio Bravo WSD
Accounts Payable Report
November 11 through December 8, 2023

	<u>Type</u>	<u>Num</u>	<u>Date</u>	<u>Name</u>	<u>Account</u>	<u>Paid Amount</u>
	Bill	7256-11-23	11/20/2023		88100 · COP Administration Expense	-500.00
TOTAL						-500.00
	Bill Pmt -Check	2925	12/08/2023	BAKERSFIELD CALIFORNIAN	10006 · Tri-Counties Bank-Operations	
	Bill	1214590 2024	11/28/2023		62000 · General Office Expense	-359.88
TOTAL						-359.88
	Bill Pmt -Check	2926	12/08/2023	Bakersfield Prayer Breakfast	10006 · Tri-Counties Bank-Operations	
	Bill	2023-11-06	11/06/2023		62000 · General Office Expense	-500.00
TOTAL						-500.00
	Bill Pmt -Check	2927	12/08/2023	Barnes Welding Supply	10006 · Tri-Counties Bank-Operations	
	Bill	0091638809	11/30/2023		61500 · Equipment Rental Expense	-45.58
TOTAL						-45.58
	Bill Pmt -Check	2928	12/08/2023	Barry Watts	10006 · Tri-Counties Bank-Operations	
	Bill	November 2023	12/01/2023		62007 · Directors' Fees	-402.62
TOTAL						-402.62
	Bill Pmt -Check	2929	12/08/2023	Berchtold Equipment Company	10006 · Tri-Counties Bank-Operations	
	Bill	W10545	11/21/2023		65001 · Equip. Maint. & Repair	-1,303.37
	Bill	P28358	12/04/2023	RRBWSD:Onyx Ranch	61650 · Operating Supplies	-453.83
	Bill	W10636	11/29/2023	RRBWSD:Onyx Ranch	65001 · Equip. Maint. & Repair	-1,682.09
TOTAL						-3,439.29
	Bill Pmt -Check	2930	12/08/2023	Buena Vista GSA	10006 · Tri-Counties Bank-Operations	
	Bill	Funding Req #4	12/01/2023	RRBWSD:SGMA	61450 · Regulatory Program Compliance	-29,545.56
TOTAL						-29,545.56
	Bill Pmt -Check	2931	12/08/2023	Cal Valley Equipment	10006 · Tri-Counties Bank-Operations	
	Bill	1309843	11/01/2023	Grimmway Farms-Customer:Grimmway Pilot Projec	63007 · Other Contracted Services	-2,640.00
TOTAL						-2,640.00
	Bill Pmt -Check	2932	12/08/2023	Carroll's Tire Warehouse	10006 · Tri-Counties Bank-Operations	
	Bill	92532	11/21/2023		65000 · Auto and Truck Maint. & Repair	-98.72
TOTAL						-98.72
	Bill Pmt -Check	2933	12/08/2023	Christensen, Inc.	10006 · Tri-Counties Bank-Operations	
	Bill	284963CT	11/30/2023	RRBWSD:Onyx Ranch	61800 · Fuel	-544.67
					61800 · Fuel	-2,515.85
TOTAL						-3,060.52
	Bill Pmt -Check	2934	12/08/2023	Clara Gontero	10006 · Tri-Counties Bank-Operations	
	Bill	20231013	11/27/2023		60110 · Assesment Expense	-334.72
TOTAL						-334.72
	Bill Pmt -Check	2935	12/08/2023	ClearGov Inc.	10006 · Tri-Counties Bank-Operations	
	Bill	2023-13446	11/01/2023		66011 · Technology Fees & Subscriptions	-3,333.33
TOTAL						-3,333.33
	Bill Pmt -Check	2936	12/08/2023	Coastline Equipment Exchange LLC	10006 · Tri-Counties Bank-Operations	
	Bill	1073380	11/09/2023		65001 · Equip. Maint. & Repair	-115.17
TOTAL						-115.17
	Bill Pmt -Check	2937	12/08/2023	Comptel Services	10006 · Tri-Counties Bank-Operations	

Rosedale- Rio Bravo WSD
Accounts Payable Report
November 11 through December 8, 2023

Type	Num	Date	Name	Account	Paid Amount
Bill	62325	11/01/2023		66011 · Technology Fees & Subscriptions	-94.00
TOTAL					-94.00
Bill Pmt -Check	2938	12/08/2023	Daniel Howes	10006 · Tri-Counties Bank-Operations	
Bill	12052023_2	12/05/2023	RRBWSD:CVC Litigation	63000 · Legal Services	-6,290.00
Bill	12052023_3	12/05/2023	RRBWSD:CVC Litigation	63000 · Legal Services	-11,253.00
TOTAL					-17,543.00
Bill Pmt -Check	2939	12/08/2023	EquipmentShare	10006 · Tri-Counties Bank-Operations	
Bill	BFL-3021938-0003	11/27/2023	RRBWSD:Onyx Ranch	61500 · Equipment Rental Expense	-3,482.24
TOTAL					-3,482.24
Bill Pmt -Check	2940	12/08/2023	Esparza Enterprises, Inc	10006 · Tri-Counties Bank-Operations	
Bill	119171	11/29/2023	RRBWSD:Onyx Ranch	63007 · Other Contracted Services	-2,509.32
				63007 · Other Contracted Services	-546.72
Bill	119381	12/06/2023	RRBWSD:Onyx Ranch	63007 · Other Contracted Services	-2,964.70
				63007 · Other Contracted Services	-911.20
TOTAL					-6,931.94
Bill Pmt -Check	2941	12/08/2023	Gary Unruh	10006 · Tri-Counties Bank-Operations	
Bill	November 2023	12/01/2023		62007 · Directors' Fees	-1,055.54
TOTAL					-1,055.54
Bill Pmt -Check	2942	12/08/2023	GEI Consultants, Inc	10006 · Tri-Counties Bank-Operations	
Bill	3143711	12/08/2023		63004 · Engineering Services	-80.34
TOTAL					-80.34
Bill Pmt -Check	2943	12/08/2023	Hafenfeld Ranch, LLC	10006 · Tri-Counties Bank-Operations	
Bill	2590	12/01/2023	RRBWSD:Onyx Ranch	63007 · Other Contracted Services	-7,152.00
TOTAL					-7,152.00
Bill Pmt -Check	2944	12/08/2023	Jason Selvidge	10006 · Tri-Counties Bank-Operations	
Bill	November 2023	12/01/2023		62007 · Directors' Fees	-250.83
TOTAL					-250.83
Bill Pmt -Check	2945	12/08/2023	JSC Agricultural Supply	10006 · Tri-Counties Bank-Operations	
Bill	343079	11/01/2023		61650 · Operating Supplies	-442.04
Bill	344046	11/10/2023		61650 · Operating Supplies	-73.61
TOTAL					-515.65
Bill Pmt -Check	2946	12/08/2023	Judith A. Smith	10006 · Tri-Counties Bank-Operations	
Bill	20231013	11/27/2023		60110 · Assesment Expense	-3,000.22
TOTAL					-3,000.22
Bill Pmt -Check	2947	12/08/2023	Kern County Water Agency	10006 · Tri-Counties Bank-Operations	
Bill	40758	11/28/2023		61300 · SW Pumping Expense	-176,495.00
Bill	40630	11/29/2023		61400 · Third Party Project Operations	-46,984.00
TOTAL					-223,479.00
Bill Pmt -Check	2948	12/08/2023	Kern Fan Monitoring Committee	10006 · Tri-Counties Bank-Operations	
Bill	2023-1	12/06/2023		61450 · Regulatory Program Compliance	-5,869.00
TOTAL					-5,869.00
Bill Pmt -Check	2949	12/08/2023	Markus Nygren- Expense Acct	10006 · Tri-Counties Bank-Operations	
Bill	20231204	12/04/2023		67000 · Travel Expense	-362.56
Bill	2023-12-06	12/06/2023		67000 · Travel Expense	-628.10

Rosedale- Rio Bravo WSD
Accounts Payable Report
November 11 through December 8, 2023

	<u>Type</u>	<u>Num</u>	<u>Date</u>	<u>Name</u>	<u>Account</u>	<u>Paid Amount</u>
TOTAL						-990.66
	Bill Pmt -Check	2950	12/08/2023	Martinez Gardening Service	10006 · Tri-Counties Bank-Operations	
	Bill	886066	11/22/2023		65100 · Building Maintenance	-200.00
TOTAL						-200.00
	Bill Pmt -Check	2951	12/08/2023	Mission Uniform Service	10006 · Tri-Counties Bank-Operations	
	Bill	520466829	11/17/2023		63500 · Janitorial Expense	-92.51
	Bill	520546178	12/01/2023		63500 · Janitorial Expense	-92.51
TOTAL						-185.02
	Bill Pmt -Check	2952	12/08/2023	Mt. Mesa Automotive	10006 · Tri-Counties Bank-Operations	
	Bill	23441	11/30/2023	RRBWSD:Onyx Ranch	65000 · Auto and Truck Maint. & Repair	-1,793.53
TOTAL						-1,793.53
	Bill Pmt -Check	2953	12/08/2023	Nicholas Construction Inc.	10006 · Tri-Counties Bank-Operations	
	Bill	1612	11/06/2023	RRBWSD:McCaslin/Bowling Recovery	70101 · Capital Well Expenses	-19,438.87
TOTAL						-19,438.87
	Bill Pmt -Check	2954	12/08/2023	P & J Electric, Inc	10006 · Tri-Counties Bank-Operations	
	Bill	8651	11/30/2023		65200 · Booster Pump Maintenance Exp.	-25,320.35
TOTAL						-25,320.35
	Bill Pmt -Check	2955	12/08/2023	Patrick & Lisa Howes	10006 · Tri-Counties Bank-Operations	
	Bill	20231013	11/13/2023		60110 · Assesment Expense	-2,824.72
TOTAL						-2,824.72
	Bill Pmt -Check	2956	12/08/2023	PG&E (0439653883-9)	10006 · Tri-Counties Bank-Operations	
	Bill	0439653883-9 Dec 23	12/04/2023	RRBWSD-IRWD:Strand Ranch	61300 · SW Pumping Expense	-349.70
TOTAL						-349.70
	Bill Pmt -Check	2957	12/08/2023	PG&E (1338232537-4)	10006 · Tri-Counties Bank-Operations	
	Bill	1338232537-4 Dec 23	12/04/2023	RRBWSD-IRWD:SUP Wells	61301 · GW Well Pumping Expense	-1,132.22
TOTAL						-1,132.22
	Bill Pmt -Check	2958	12/08/2023	PG&E (3923107207-3)	10006 · Tri-Counties Bank-Operations	
	Bill	3923107207-3 Dec 23	12/04/2023	RRBWSD-IRWD:Strand Ranch	61301 · GW Well Pumping Expense	-1,503.12
TOTAL						-1,503.12
	Bill Pmt -Check	2959	12/08/2023	PG&E (5592643715-7)	10006 · Tri-Counties Bank-Operations	
	Bill	5592643715-7 Dec 23	12/04/2023	RRBWSD:WB Wells	61301 · GW Well Pumping Expense	-141.90
TOTAL						-141.90
	Bill Pmt -Check	2960	12/08/2023	PG&E (5919499601-9)	10006 · Tri-Counties Bank-Operations	
	Bill	5919499601-9 Dec 23	12/04/2023	RRBWSD:Enns Wells	61301 · GW Well Pumping Expense	-191.80
TOTAL						-191.80
	Bill Pmt -Check	2961	12/08/2023	PG&E (8190181094-5)	10006 · Tri-Counties Bank-Operations	
	Bill	8190181094-5 Dec 23	12/04/2023		61301 · GW Well Pumping Expense	-151.09
TOTAL						-151.09
	Bill Pmt -Check	2962	12/08/2023	Quinn Company	10006 · Tri-Counties Bank-Operations	
	Bill	25820704	11/28/2023	RRBWSD:Onyx Ranch	61500 · Equipment Rental Expense	-1,031.89
	Bill	WO080086991	11/29/2023		65001 · Equip. Maint. & Repair	-3,804.48
TOTAL						-4,836.37

Rosedale- Rio Bravo WSD
Accounts Payable Report
November 11 through December 8, 2023

Type	Num	Date	Name	Account	Paid Amount
Bill Pmt -Check	2963	12/08/2023	Rachelle Echeverria - Reimbursement	10006 · Tri-Counties Bank-Operations	
Bill	20231204	12/04/2023		67000 · Travel Expense	-387.56
Bill	20231205	12/05/2023		67000 · Travel Expense	-10.98
TOTAL					<u>-398.54</u>
Bill Pmt -Check	2964	12/08/2023	Roy Pierucci	10006 · Tri-Counties Bank-Operations	
Bill	November 2023	12/01/2023		62007 · Directors' Fees	-1,056.07
TOTAL					<u>-1,056.07</u>
Bill Pmt -Check	2965	12/08/2023	Southern California Edison (700102049704)	10006 · Tri-Counties Bank-Operations	
Bill	700102049704 Nov 23	11/29/2023	RRBWSD:Onyx Ranch	66000 · Utilities	-374.95
TOTAL					<u>-374.95</u>
Bill Pmt -Check	2966	12/08/2023	Southern California Edison (700511405161)	10006 · Tri-Counties Bank-Operations	
Bill	700511405161 Nov 23	11/29/2023	RRBWSD:Onyx Ranch	66000 · Utilities	-117.24
TOTAL					<u>-117.24</u>
Bill Pmt -Check	2967	12/08/2023	Spectrum Business	10006 · Tri-Counties Bank-Operations	
Bill	1355119120123	12/04/2023		66001 · Phone / Internet Expense	-149.98
TOTAL					<u>-149.98</u>
Bill Pmt -Check	2968	12/08/2023	SSD Alarm	10006 · Tri-Counties Bank-Operations	
Bill	R-00492285	12/08/2023		66000 · Utilities	-237.51
TOTAL					<u>-237.51</u>
Bill Pmt -Check	2969	12/08/2023	SUPERIOR SANITATION	10006 · Tri-Counties Bank-Operations	
Bill	3C100283	12/01/2023		66000 · Utilities	-231.68
TOTAL					<u>-231.68</u>
Bill Pmt -Check	2970	12/08/2023	TARGET SPECIALTY PRODUCTS	10006 · Tri-Counties Bank-Operations	
Bill	INVP501336888	11/14/2023		65500 · Weed Control/Chemicals	-4,554.29
Bill	INVP501336887	11/14/2023		65500 · Weed Control/Chemicals	-1,327.15
TOTAL					<u>-5,881.44</u>
Bill Pmt -Check	2971	12/08/2023	Teacher's Ag Seminar	10006 · Tri-Counties Bank-Operations	
Bill	20231206	12/06/2023		62005 · Dues and Membership	-501.00
TOTAL					<u>-501.00</u>
Bill Pmt -Check	2972	12/08/2023	Thomas Refuse Service, Inc	10006 · Tri-Counties Bank-Operations	
Bill	3C104477	12/01/2023	RRBWSD:Onyx Ranch	66000 · Utilities	-236.67
TOTAL					<u>-236.67</u>
Bill Pmt -Check	2973	12/08/2023	United Rentals	10006 · Tri-Counties Bank-Operations	
Bill	220648729-007	11/14/2023		61500 · Equipment Rental Expense	-1,536.07
TOTAL					<u>-1,536.07</u>
Bill Pmt -Check	2974	12/08/2023	Verizon Wireless	10006 · Tri-Counties Bank-Operations	
Bill	9948593570	11/06/2023		66001 · Phone / Internet Expense	-1.52
TOTAL					<u>-1.52</u>
Bill Pmt -Check	2975	12/08/2023	Workforce go!	10006 · Tri-Counties Bank-Operations	
Bill	CINV-0000085	11/16/2023		60001 · Payroll Expense	-2,365.20
Bill	INV-0030287	12/01/2023		60001 · Payroll Expense	-52.74
TOTAL					<u>-2,417.94</u>

Rosedale- Rio Bravo WSD
Accounts Payable Report
November 11 through December 8, 2023

Type	Num	Date	Name	Account	Paid Amount
Bill Pmt -Check	2976	12/08/2023	WSI Internet Consulting, LLC	10006 - Tri-Counties Bank-Operations	
Bill	7466	12/01/2023		66011 - Technology Fees & Subscriptions	-30.00
TOTAL					-30.00
Bill Pmt -Check	2977	12/08/2023	Belden Blaine Raytis, LLP	10006 - Tri-Counties Bank-Operations	
Bill	21879	12/05/2023	James Water Bank Authority	63000 - Legal Services	-570.00
Bill	21881	12/05/2023	RRBWSD:CVC Litigation	63000 - Legal Services	-20,643.50
Bill	21880	12/05/2023	RRBWSD:Onyx Ranch	63000 - Legal Services	-47.50
TOTAL					-4,389.00
Bill Pmt -Check	2978	12/08/2023	Tri Counties Bank	10006 - Tri-Counties Bank-Operations	
Bill	20231121	11/21/2023		Tri-Counites CC	-13,715.49
TOTAL					-13,715.49
Total AP Current					-\$448,508.87
Total AP Current + Ratified					-\$589,616.89

Rosedale- Rio Bravo WSD
Revenue and Expenditures
January through November 2023

	TOTAL			
	Nov 23	Jan - Nov 23	Budget	% of Budget
Ordinary Income/Expense				
Income				
40000 · Assessment Income	180,834.75	5,992,608.97	5,809,040.00	103.16%
40010 · Prior Year Assessment Income	2,988.78	182,953.82	18,000.00	1,016.41%
40503 · SW Pumping Reimbursement	0.00	0.00	50,000.00	0.0%
40506 · Groundwater Mitigation Income	0.00	280.15	100,000.00	0.28%
40507 · O & M Reimbursement Income	308,974.18	591,606.42	175,000.00	338.06%
40508 · Groundwater Banking Income	0.00	5,481,949.00	5,481,949.00	100.0%
40509 · Lease Income	11,990.00	77,546.36	70,000.00	110.78%
40510 · Groundwater Recovery Reimb.	0.00	739,290.56	6,250,000.00	11.83%
40511 · Non-Reoccurring Water Sale	0.00	0.00	3,250,000.00	0.0%
40600 · Interest Income	27,148.50	1,084,507.16	300,000.00	361.5%
41000 · Other Income	-85.00	13,561.57	5,000.00	271.23%
41001 · Refunds and Credits	0.00	43,454.37	150,000.00	28.97%
41005 · Income from Sale of Asset	0.00	360,918.20		
41010 · Grant Income	0.00	3,110.90	1,600,000.00	0.19%
41050 · Resource Management Income	23,420.00	152,936.08	100,000.00	152.94%
Total Income	555,271.21	14,724,723.56	23,358,989.00	63.04%
Gross Profit	555,271.21	14,724,723.56	23,358,989.00	63.04%
Expense				
60000 · Wages and Salaries Expense	111,404.80	1,298,823.01	1,484,000.00	87.52%
60001 · Payroll Expense	4,440.79	27,707.81	33,000.00	83.96%
60005 · Benefits Health,Dent.Life.Vis.D	11,414.82	131,663.43	180,000.00	73.15%
60006 · Benefits- CalPers Retirement	9,300.38	151,320.77	210,000.00	72.06%
60007 · Workers Compensation Insurance	2,202.06	26,121.43	33,000.00	79.16%
60100 · Bank Service Charges	169.67	1,774.86	4,000.00	44.37%
60110 · Assesment Expense	6,159.66	32,179.98	125,000.00	25.74%
60200 · Licenses, Permits and Fees	646.67	48,375.03	10,000.00	483.75%
61000 · KCWA SWP Expense	0.00	4,171,924.00	3,477,791.00	119.96%
61001 · City of Bak. Basic Contract Exp	0.00	656,899.62	585,000.00	112.29%
61050 · Other Water Purch Expense	0.00	506,347.50	250,000.00	202.54%
61300 · SW Pumping Expense	556,269.75	1,029,995.72	200,000.00	515.0%
61301 · GW Well Pumping Expense	2,819.35	867,439.60	8,000,000.00	10.84%
61350 · Groundwater Mitigation Expense	0.00	3,971.00	50,000.00	7.94%
61400 · Third Party Project Operations	110,888.00	893,882.11	1,144,000.00	78.14%
61401 · Delta Conveyance Project Expens	0.00	757,720.00	757,720.00	100.0%
61450 · Regulatory Program Compliance	0.00	60,640.07	60,000.00	101.07%
61500 · Equipment Rental Expense	9,090.89	58,648.59	50,000.00	117.3%
61650 · Operating Supplies	4,571.01	35,307.85	30,000.00	117.69%
61655 · Water Quality Testing	0.00	13,924.54	50,000.00	27.85%
61660 · Property Lease Expense	0.00	71,604.00	61,200.00	117.0%
61800 · Fuel	22,423.97	236,887.13	90,000.00	263.21%
62000 · General Office Expense	7,881.31	24,363.92	25,000.00	97.46%
62001 · Printing & Reproduction	175.27	1,801.35	12,000.00	15.01%
62003 · Publications and Notices	57.50	4,574.50	2,000.00	228.73%
62005 · Dues and Membership	515.00	77,965.00	83,675.00	93.18%
62007 · Directors' Fees	0.00	26,317.41	35,000.00	75.19%
62008 · Educational Expenses	1,300.00	7,309.64	5,000.00	146.19%
62009 · Postage and Delivery	0.00	1,597.04	3,500.00	45.63%
63000 · Legal Services	41,454.75	342,795.51	500,000.00	68.56%
63002 · Audit and Accounting Services	0.00	40,950.00	40,000.00	102.38%
63004 · Engineering Services	245.83	89,407.42	50,000.00	178.82%
63005 · Environmental Consultants	0.00	38,250.00	50,000.00	76.5%
63006 · Hydrogeology Consultants	18,071.25	99,451.25	100,000.00	99.45%
63007 · Other Contracted Services	20,860.07	371,564.38	150,000.00	247.71%
63010 · GL/Property/Auto Insurance Prem	266.00	90,099.83	70,000.00	128.71%
63500 · Janitorial Expense	185.02	6,999.87	9,000.00	77.78%
64000 · Water Transaction Fees	32,900.36	54,073.36	50,000.00	108.15%
65000 · Auto and Truck Maint. & Repair	4,729.26	35,882.92	25,000.00	143.53%
65001 · Equip. Maint. & Repair	7,812.81	61,272.02	50,000.00	122.54%

Rosedale- Rio Bravo WSD
Revenue and Expenditures
 January through November 2023

	TOTAL			
	Nov 23	Jan - Nov 23	Budget	% of Budget
65002 · Mileage Reimbursement Expense	26.59	147.11	500.00	29.42%
65100 · Building Maintenance	200.00	42,216.87	15,000.00	281.45%
65101 · Water Structure Maintenance	0.00	67,171.34	20,000.00	335.86%
65200 · Booster Pump Maintenance Exp.	25,320.35	25,320.35	20,000.00	126.6%
65201 · Well Maintenance Expense	0.00	60,974.40	100,000.00	60.97%
65500 · Weed Contol/Chemicals	5,881.44	87,259.07	100,000.00	87.26%
66000 · Utilities	1,459.95	16,125.91	14,000.00	115.19%
66001 · Phone / Internet Expense	385.19	12,486.98	16,000.00	78.04%
66011 · Technology Fees & Subscriptions	3,581.80	32,638.86	62,000.00	52.64%
67000 · Travel Expense	2,261.75	11,887.68	5,000.00	237.75%
68000 · Taxes - Property	0.00	183,483.50	200,000.00	91.74%
70000 · Capital Water Structure Expense	0.00	129,709.28	500,000.00	25.94%
70001 · Capital Building Expense	0.00	4,959.03	75,000.00	6.61%
70100 · Capital Booster Pump	0.00	0.00	50,000.00	0.0%
70101 · Capital Well Expenses	19,438.87	142,099.87	1,200,000.00	11.84%
70200 · Capital Engineering Consult Exp	0.00	56,917.50	250,000.00	22.77%
70201 · Capital Environmental Cons Exp.	0.00	0.00	50,000.00	0.0%
70500 · Capital - Auto and Truck Exp.	0.00	44,255.71	50,000.00	88.51%
70501 · Capital Equipment Expense	0.00	30,860.43	120,000.00	25.72%
70600 · Capital Office Equipment Expens	0.00	2,420.29	18,000.00	13.45%
70602 · Capital Land Expense	0.00	1,534,080.63	532,194.00	288.26%
70700 · Third Party Projects- Capital	0.00	851,000.00	4,833,000.00	17.61%
88004 · 2020 COP- Debt Service Expense	120,891.74	3,769,809.14	3,930,597.00	95.91%
88100 · COP Administration Expense	500.00	8,700.00	5,500.00	158.18%
Total Expense	1,168,203.93	19,572,357.42	30,311,677.00	64.57%
Net Income	-612,932.72	-4,847,633.86	-6,952,688.00	69.72%

TO: Rosedale-Rio Bravo Water Storage District Board of Directors and Staff

FROM: Dan W. Bartel

DATE: December 12, 2023

RE: Internal Financial Policy

Discussion:

Due to the request of the Board to improve financial controls, below is an initial framework of how duties have been assigned.

Accounts Payable:

Receiving and Preparation of AP – REcheverria
Review and Approval of AP – DBartel, ZSmith, MMisuraca
Printing of AP Checks – MMisuraca
Signing of AP Checks – DBartel, ZSmith and at least 1 Director
Delivery of AP Checks – REcheverria

1st AP batch of checks to sign by regular Board meeting (2nd Tuesday of the month)
Prep AP for review Thursday/Friday
Print AP checks Friday
Staff sign AP checks Friday or Monday
Board members sign AP checks at monthly Board meeting 2nd Tuesday of the month

2nd AP batch of checks to sign the 4th week of each month if necessary. Board ratifies at following meeting:
Prep AP for review by Thursday
Print AP checks by Friday
Staff and at least one Board member to sign AP checks by Friday

MMisuraca to process Tri-Counites CC and Pitney Bowes payment electronically through the online portal. DBartel and 1 Director to sign off on each payment confirmation.

Account Administrators:

Tri-Counties Bank Administrator – DBartel
Tri-Counties Bank CC – DBartel and MMisuraca
AmeriFuel – ZSmith
Verizon – ZSmith and MMisuraca
Large Contractors – DBartel and MNygren
AMG Investments- DBartel
Kern County Fund Account – DBartel
CalPers – MMisuraca and DBartel
ACWA JPIA - MMisuraca

Order and Store Checks - ZSmith

Payroll:

Processed through third-party: **Work Force Go**

Timecard and Reimbursement Preparation – By employee

Timecard and Reimbursement Review/Approval– ZSmith, DBartel and MMisuraca

Preparation of Payroll - MMisuraca

Printing of Payroll Checks/Direct Deposit – Work Force Go

Signing of Payroll Checks – Work Force Go- Signature Stamp

Delivery of Payroll Checks – FedEx

Payroll Report – MMisuraca – reviewed by DBartel and monthly by Board Treasurer

Payroll is Bi-Weekly with pay date on Friday and processing on Wednesday.

Accounts Receivable:

AR Preparation – DBartel, ZSmith, TTaylor, and MMisuraca

Invoice Preparation and Tracking - MMisuraca

Receiving and Deposit to Bank – REcheverria

Deposit Recording – MMisuraca

Monthly Financial Reports:

Treasurer Reports – MMisuraca

Receive Bank Statements – Recheverria and MMisuraca

Bank Account Reconciliations – MMisuraca and TTaylor

AP Report – MMisuraca - reviewed by DBartel

Revenue and Expense to Budget Report – MMisuraca - reviewed by DBartel and Board of Directors

Recommendation: The board approve the revision to the internal financial policies and procedures.



Rosedale-Rio Bravo Water Storage District Digital Budget Book



Proposed Version - 12/04/2023



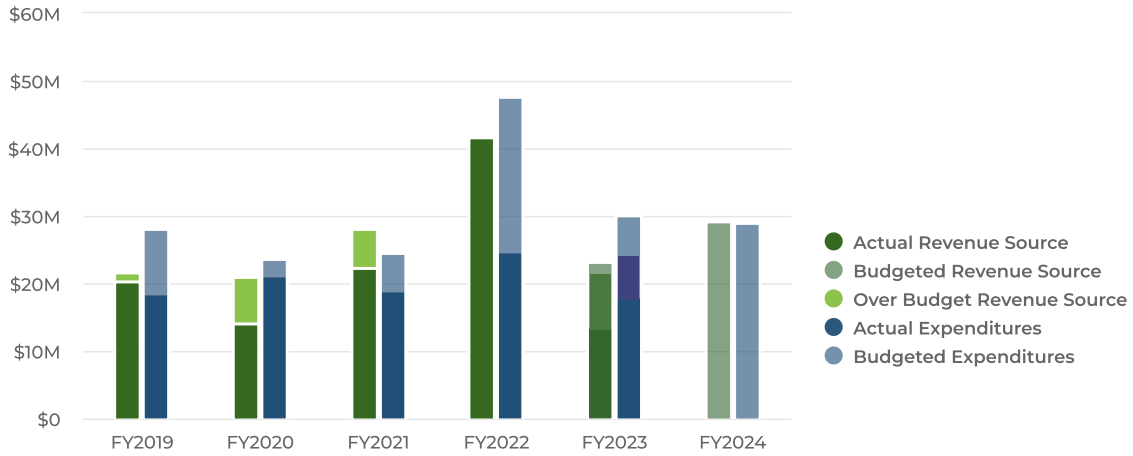
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FUND SUMMARIES

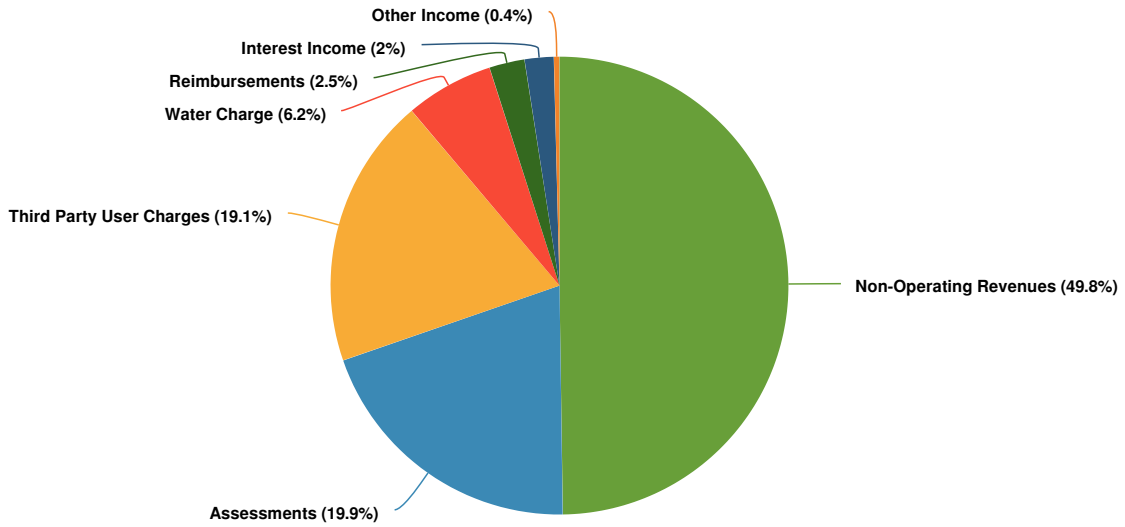
Summary

Rosedale-Rio Bravo Water Storage District is projecting \$29.28M of revenue in FY2024, which represents a 25.3% increase over the prior year. Budgeted expenditures are projected to decrease by 4.3% or \$1.3M to \$29.01M in FY2024.

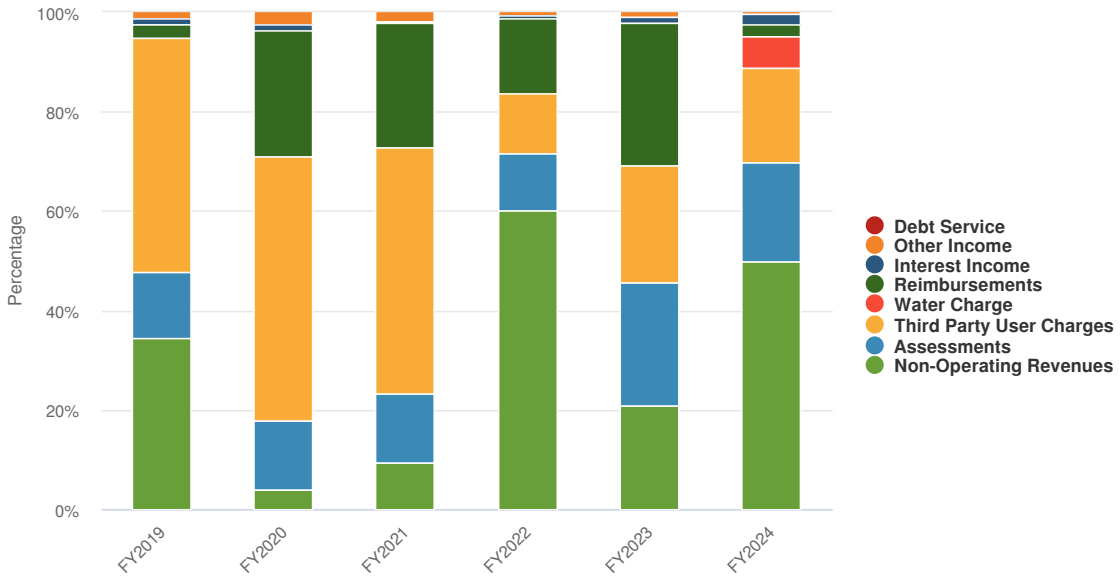


Revenues by Source

Projected 2024 Revenues by Source



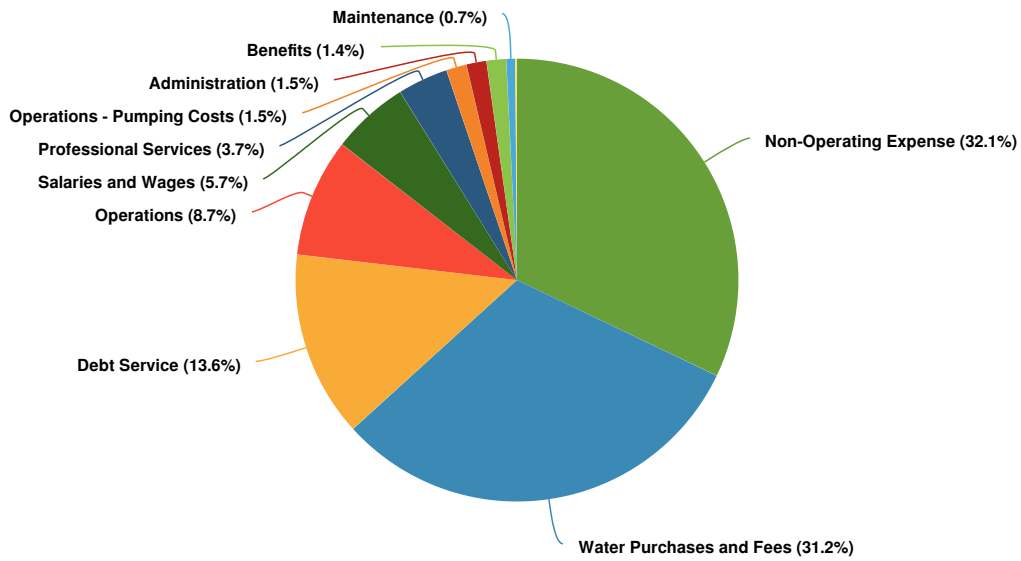
Budgeted and Historical 2024 Revenues by Source



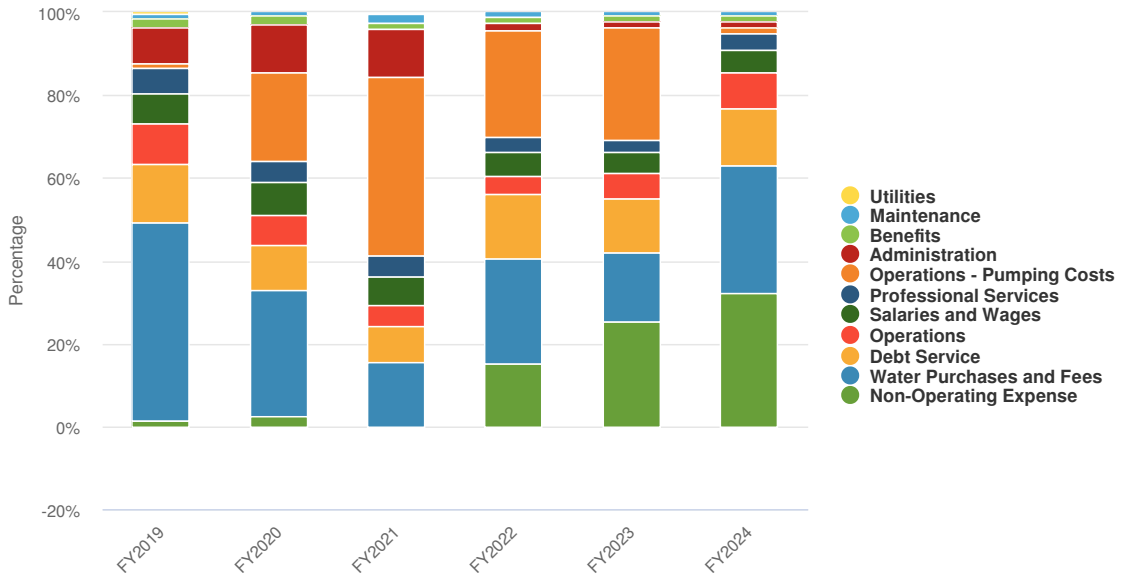
Name	FY2023 Adopted	FY2023 Projected	FY2024 Budgeted	FY2023 Adopted vs. FY2024 Budgeted (% Change)
Revenue Source				
Assessments				
40000 · Assesment Income	\$5,809,040.00	\$5,807,810.86	\$5,809,040.00	0%
40010 · Prior Year Assesment Income	\$18,000.00	\$176,815.00	\$25,000.00	38.9%
Total Assessments:	\$5,827,040.00	\$5,984,625.86	\$5,834,040.00	0.1%
Water Charge				
40500 - Water Charge			\$1,824,000.00	N/A
Total Water Charge:			\$1,824,000.00	N/A
Third Party User Charges				
40501 · Water Sales		\$5,750,000.00	\$0.00	N/A
40508 · Groundwater Banking Income	\$5,481,949.00	\$5,481,949.00	\$5,600,000.00	2.2%
Total Third Party User Charges:	\$5,481,949.00	\$11,231,949.00	\$5,600,000.00	2.2%
Reimbursements				
40503 · SW Pumping Reimbursement	\$50,000.00	\$1,325,000.00	\$320,000.00	540%
40506 · Groundwater Mitigation Income	\$100,000.00	\$3,200.00	\$32,000.00	-68%
40507 · O & M Reimbursement Income	\$175,000.00	\$220,000.00	\$180,000.00	2.9%
40510 · Groundwater Recovery Reimb.	\$6,250,000.00	\$775,000.00	\$24,000.00	-99.6%
41050 · Resource Management Income	\$100,000.00	\$300,000.00	\$175,000.00	75%
Total Reimbursements:	\$6,675,000.00	\$2,623,200.00	\$731,000.00	-89%
Other Income				
40509 · Lease Income	\$70,000.00	\$64,346.00	\$65,000.00	-7.1%
41001 · Refunds and Credits	\$150,000.00	\$39,627.66	\$50,000.00	-66.7%
Total Other Income:	\$220,000.00	\$103,973.66	\$115,000.00	-47.7%
Non-Operating Revenues				
40511 · Non-Reoccurring Water Sale	\$3,250,000.00		\$0.00	-100%
41000 · Other Income	\$5,000.00	\$14,000.00	\$5,000.00	0%
41005 · Income from Sale of Asset		\$360,918.20	\$12,618,250.00	N/A
41010 · Grant Income	\$1,600,000.00	\$3,110.90	\$1,950,000.00	21.9%
Total Non-Operating Revenues:	\$4,855,000.00	\$378,029.10	\$14,573,250.00	200.2%
Interest Income				
40600 · Interest Income	\$300,000.00	\$860,000.00	\$600,000.00	100%
Total Interest Income:	\$300,000.00	\$860,000.00	\$600,000.00	100%
Total Revenue Source:	\$23,358,989.00	\$21,181,777.62	\$29,277,290.00	25.3%

Expenditures by Expense Type

Budgeted Expenditures by Expense Type



Budgeted and Historical Expenditures by Expense Type



Name	FY2023 Adopted	FY2023 Projected	FY2024 Budgeted	FY2023 Adopted vs. FY2024 Budgeted (% Change)
Expense Objects				
Salaries and Wages				
60000 · Wages and Salaries Expense	\$1,484,000.00	\$1,450,000.00	\$1,573,040.00	6%
60001 · Payroll Expense	\$33,000.00	\$29,500.00	\$34,650.00	5%
60007 · Workers Compensation Insurance	\$33,000.00	\$31,000.00	\$34,650.00	5%
Total Salaries and Wages:	\$1,550,000.00	\$1,510,500.00	\$1,642,340.00	6%
Benefits				
60005 · Benefits Health,Dent.Life.Vis.D	\$180,000.00	\$150,000.00	\$194,400.00	8%
60006 · Benefits- CalPers Retirement	\$210,000.00	\$210,000.00	\$222,600.00	6%
Total Benefits:	\$390,000.00	\$360,000.00	\$417,000.00	6.9%
Administration				
60100 · Bank Service Charges	\$4,000.00	\$2,500.00	\$4,200.00	5%
60110 · Assessment Expense	\$125,000.00	\$80,000.00	\$80,000.00	-36%
60200 · Licenses, Permits and Fees	\$10,000.00	\$48,000.00	\$20,000.00	100%
62000 · General Office Expense	\$25,000.00	\$25,000.00	\$26,000.00	4%
62001 · Printing & Reproduction	\$12,000.00	\$1,600.00	\$3,000.00	-75%
62003 · Publications and Notices	\$2,000.00	\$4,500.00	\$1,500.00	-25%
62005 · Dues and Membership	\$83,675.00	\$77,950.00	\$83,030.00	-0.8%
ACWA	\$0.00	\$24,655.00	\$25,395.00	N/A
AECA-Agriculture Energy Consumers Association	\$0.00	\$500.00	\$500.00	N/A
Association of Environmental Professionals	\$0.00	\$175.00	\$175.00	N/A
Committee for Delta Reliability	\$0.00	\$29,900.00	\$30,000.00	N/A
Costco	\$0.00	\$60.00	\$60.00	N/A
ESRI Maintenance	\$0.00	\$500.00	\$500.00	N/A
Farm Bureau Membership & Sponsor	\$0.00	\$250.00	\$300.00	N/A
Kern Fan Authority	\$0.00		\$3,000.00	N/A
Kernville Chamber of Commerce (Onyx)	\$0.00	\$100.00	\$100.00	N/A
LAFCO	\$0.00	\$5,970.00	\$6,000.00	N/A
North West Kern Resources Conservation	\$0.00	\$2,000.00	\$2,000.00	N/A
San Joaquin Valley Ag Water Com	\$0.00	\$200.00	\$200.00	N/A
South Valley Water Resources Authority	\$0.00	\$8,970.00	\$9,700.00	N/A
Underground Service Alert Fee	\$0.00	\$300.00	\$300.00	N/A
Valley Ag Water Coalition	\$0.00	\$3,080.00	\$3,000.00	N/A
Water Association of Kern County	\$0.00	\$1,290.00	\$1,800.00	N/A
62007 · Directors' Fees	\$35,000.00	\$35,000.00	\$37,000.00	5.7%
62008 · Educational Expenses	\$5,000.00	\$5,300.00	\$8,000.00	60%
62009 · Postage and Delivery	\$3,500.00	\$1,600.00	\$2,500.00	-28.6%
63010 · GL/Property/Auto Insurance Prem	\$70,000.00	\$89,833.83	\$90,000.00	28.6%
63500 · Janitorial Expense	\$9,000.00	\$8,900.00	\$9,180.00	2%
65002 · Mileage Reimbursement Expense	\$500.00	\$200.00	\$500.00	0%

Name	FY2023 Adopted	FY2023 Projected	FY2024 Budgeted	FY2023 Adopted vs. FY2024 Budgeted (% Change)
66011 · Technology Fees & Subscriptions	\$62,000.00	\$33,000.00	\$50,000.00	-19.4%
67000 · Travel Expense	\$5,000.00	\$10,500.00	\$10,500.00	110%
Total Administration:	\$451,675.00	\$423,883.83	\$425,410.00	-5.8%
Water Purchases and Fees				
61000 · KCWA SWP Expense	\$3,477,791.00	\$4,171,924.00	\$4,662,105.00	34.1%
61001 · City of Bak. Basic Contract Exp	\$585,000.00	\$213,520.00	\$2,494,400.00	326.4%
61050 · Other Water Purch Expense	\$250,000.00	\$1,934,415.00	\$1,000,000.00	300%
61401 · Delta Conveyance Project Expens	\$757,720.00	\$757,720.00	\$833,492.00	10%
64000 · Water Transaction Fees	\$50,000.00	\$50,000.00	\$50,000.00	0%
Total Water Purchases and Fees:	\$5,120,511.00	\$7,127,579.00	\$9,039,997.00	76.5%
Operations - Pumping Costs				
61300 · SW Pumping Expense	\$200,000.00	\$1,600,000.00	\$400,000.00	100%
61301 · GW Well Pumping Expense	\$8,000,000.00	\$875,000.00	\$30,000.00	-99.6%
Total Operations - Pumping Costs:	\$8,200,000.00	\$2,475,000.00	\$430,000.00	-94.8%
Operations				
61350 · Groundwater Mitigation Expense	\$50,000.00	\$5,000.00	\$5,000.00	-90%
61400 · Third Party Project Operations	\$1,144,000.00	\$855,000.00	\$1,880,000.00	64.3%
<i>Cross Valley Canal</i>	<i>\$0.00</i>	<i>\$450,000.00</i>	<i>\$375,000.00</i>	<i>N/A</i>
<i>Pioneer Project</i>	<i>\$0.00</i>	<i>\$205,000.00</i>	<i>\$975,000.00</i>	<i>N/A</i>
<i>Sites Reservoir</i>	<i>\$0.00</i>	<i>\$50,000.00</i>	<i>\$80,000.00</i>	<i>N/A</i>
<i>GBJPA/Kern Fan Operations</i>	<i>\$0.00</i>	<i>\$150,000.00</i>	<i>\$450,000.00</i>	<i>N/A</i>
61450 · Regulatory Program Compliance	\$60,000.00	\$130,000.00	\$60,000.00	0%
61500 · Equipment Rental Expense	\$50,000.00	\$56,000.00	\$50,000.00	0%
61650 · Operating Supplies	\$30,000.00	\$34,000.00	\$35,000.00	16.7%
61655 · Water Quality Testing	\$50,000.00	\$15,000.00	\$15,000.00	-70%
61660 · Property Lease Expense	\$61,200.00	\$72,000.00	\$75,000.00	22.5%
61800 · Fuel	\$90,000.00	\$230,000.00	\$100,000.00	11.1%
65500 · Weed Contol/Chemicals	\$100,000.00	\$110,000.00	\$100,000.00	0%
68000 · Taxes - Property	\$200,000.00	\$185,000.00	\$190,000.00	-5%
Total Operations:	\$1,835,200.00	\$1,692,000.00	\$2,510,000.00	36.8%
Professional Services				
63000 · Legal Services	\$500,000.00	\$349,000.00	\$500,000.00	0%
63002 · Audit and Accounting Services	\$40,000.00	\$40,950.00	\$46,000.00	15%
63004 · Engineering Services	\$50,000.00	\$93,000.00	\$150,000.00	200%
63005 · Environmental Consultants	\$50,000.00	\$50,000.00	\$50,000.00	0%
63006 · Hydrogeology Consultants	\$100,000.00	\$120,000.00	\$120,000.00	20%
63007 · Other Contracted Services	\$150,000.00	\$444,000.00	\$200,000.00	33.3%
Total Professional Services:	\$890,000.00	\$1,096,950.00	\$1,066,000.00	19.8%

Name	FY2023 Adopted	FY2023 Projected	FY2024 Budgeted	FY2023 Adopted vs. FY2024 Budgeted (% Change)
Maintenance				
65000 · Auto and Truck Maint. & Repair	\$25,000.00	\$30,000.00	\$27,000.00	8%
65001 · Equip. Maint. & Repair	\$50,000.00	\$55,000.00	\$52,000.00	4%
65100 · Building Maintenance	\$15,000.00	\$45,000.00	\$17,000.00	13.3%
65101 · Water Structure Maintenance	\$20,000.00	\$75,000.00	\$22,000.00	10%
65200 · Booster Pump Maintenance Exp.	\$20,000.00	\$60,000.00	\$22,000.00	10%
65201 · Well Maintenance Expense	\$100,000.00	\$61,000.00	\$50,000.00	-50%
Total Maintenance:	\$230,000.00	\$326,000.00	\$190,000.00	-17.4%
Utilities				
66000 · Utilities	\$14,000.00	\$17,000.00	\$17,500.00	25%
66001 · Phone / Internet Expense	\$16,000.00	\$15,000.00	\$16,000.00	0%
Total Utilities:	\$30,000.00	\$32,000.00	\$33,500.00	11.7%
Non-Operating Expense				
70000 · Capital Water Structure Expense	\$500,000.00	\$178,000.00	\$1,725,000.00	245%
70001 · Capital Building Expense	\$75,000.00	\$75,000.00	\$75,000.00	0%
70100 · Capital Booster Pump	\$50,000.00	\$0.00	\$50,000.00	0%
70101 · Capital Well Expenses	\$1,200,000.00	\$300,000.00	\$3,200,000.00	166.7%
70200 · Capital Engineering Consult Exp	\$250,000.00	\$100,000.00	\$350,000.00	40%
<i>Capital Engineering Consult Exp.</i>	<i>\$0.00</i>	<i>\$100,000.00</i>	<i>\$350,000.00</i>	<i>N/A</i>
70201 · Capital Environmental Cons Exp.	\$50,000.00	\$10,000.00	\$50,000.00	0%
70500 · Capital - Auto and Truck Exp.	\$50,000.00	\$44,255.71	\$50,000.00	0%
70501 · Capital Equipment Expense	\$120,000.00	\$30,860.43	\$50,000.00	-58.3%
70600 · Capital Office Equipment Expens	\$18,000.00	\$4,000.00	\$12,000.00	-33.3%
70602 · Capital Land Expense	\$532,194.00	\$1,534,080.00	\$2,000,000.00	275.8%
70700 · Third Party Projects- Capital	\$4,833,000.00	\$851,000.00	\$1,755,000.00	-63.7%
<i>James Water Bank</i>	<i>\$0.00</i>		<i>\$155,000.00</i>	<i>N/A</i>
<i>Kern Fan Project Capital Development</i>	<i>\$0.00</i>	<i>\$851,000.00</i>	<i>\$1,600,000.00</i>	<i>N/A</i>
Total Non-Operating Expense:	\$7,678,194.00	\$3,127,196.14	\$9,317,000.00	21.3%
Debt Service				
88004 · 2020 COP- Debt Service Expense	\$3,930,597.00	\$3,891,000.00	\$3,928,054.18	-0.1%
88100 · COP Administration Expense	\$5,500.00	\$9,000.00	\$9,000.00	63.6%
Total Debt Service:	\$3,936,097.00	\$3,900,000.00	\$3,937,054.18	0%
Total Expense Objects:	\$30,311,677.00	\$22,071,108.97	\$29,008,301.18	-4.3%

Rosedale-Rio Bravo WSD Comprehensive Summary

Name	FY2023 Adopted	FY2023 Projected	FY2024 Budgeted
Beginning Fund Balance:	\$34,025,955.22	\$34,025,955.22	\$33,136,623.87
Revenues			
Assessments	\$5,827,040.00	\$5,984,625.86	\$5,834,040.00
Water Charge			\$1,824,000.00
Third Party User Charges	\$5,481,949.00	\$11,231,949.00	\$5,600,000.00
Reimbursements	\$6,675,000.00	\$2,623,200.00	\$731,000.00
Other Income	\$220,000.00	\$103,973.66	\$115,000.00
Non-Operating Revenues	\$4,855,000.00	\$378,029.10	\$14,573,250.00
Interest Income	\$300,000.00	\$860,000.00	\$600,000.00
Total Revenues:	\$23,358,989.00	\$21,181,777.62	\$29,277,290.00
Expenditures			
Salaries and Wages	\$1,550,000.00	\$1,510,500.00	\$1,642,340.00
Benefits	\$390,000.00	\$360,000.00	\$417,000.00
Administration	\$451,675.00	\$423,883.83	\$425,410.00
Water Purchases and Fees	\$5,120,511.00	\$7,127,579.00	\$9,039,997.00
Operations - Pumping Costs	\$8,200,000.00	\$2,475,000.00	\$430,000.00
Operations	\$1,835,200.00	\$1,692,000.00	\$2,510,000.00
Professional Services	\$890,000.00	\$1,096,950.00	\$1,066,000.00
Maintenance	\$230,000.00	\$326,000.00	\$190,000.00
Utilities	\$30,000.00	\$32,000.00	\$33,500.00
Non-Operating Expense	\$7,678,194.00	\$3,127,196.14	\$9,317,000.00
Debt Service	\$3,936,097.00	\$3,900,000.00	\$3,937,054.18
Total Expenditures:	\$30,311,677.00	\$22,071,108.97	\$29,008,301.18
Total Revenues Less Expenditures:	-\$6,952,688.00	-\$889,331.35	\$268,988.82
Ending Fund Balance:	\$27,073,267.22	\$33,136,623.87	\$33,405,612.69

**RESOLUTION OF THE
BOARD OF DIRECTORS OF THE
ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT
IN THE MATTER OF
SETTING THE RATE OF THE WATER CHARGE
FOR WATER USE DURING CALENDAR YEAR 2024**

RESOLUTION NO. 537

WHEREAS, Rosedale-Rio Bravo Water Storage District (“District”) is a California Water Storage District formed and existing under the California Water Storage District Law (Wat. Code, §§ 39000 *et seq.*).

WHEREAS, Water Code § 43006 authorizes the District to “fix tolls or charges for the use of water, including the use of groundwater.”

WHEREAS, Water Code § 10730.2 authorizes the District to impose “fees on the extraction of groundwater from the basin to fund costs of groundwater management, including...activities necessary or convenient to implement [its GSP],” which may be “charged on a volumetric basis [and may] increase based on the quantity of groundwater produced annually, the year in which the production of groundwater commenced from a groundwater extraction facility, and impacts to the basin.”

WHEREAS, after a protest hearing conducted under the requirements of Article 13D, Section 6 of the California Constitution (“Prop 218”), the District has adopted a “Water Charge” with a maximum rate of \$256 per acre-foot used in excess of available supply and has established policies governing implementation of the Water Charge.

WHEREAS, the Water Charge is a volumetric charge for water use on agricultural parcels within the District that is in excess of the amount of available water supplies, which is being imposed in order to equitably distribute the financial burden of “sustainability” (i.e., balance) to those landowners who require more water than the District’s Project provides, in proportion to their respective overages.

WHEREAS, the Water Charge was included as a potential management action in the District’s Groundwater Sustainability Plan (GSP).

WHEREAS, the Water Charge is necessary to fund projects and the acquisition of land and water in order to generally balance the water supply and demand in the District and to meet the requirements of SGMA.

WHEREAS, the District’s Board of Directors has considered the District’s projected revenues and expenses as well as the anticipated costs and need for land, water, and project construction in the future.

NOW, THEREFORE, IT IS RESOLVED by the Board of Directors (“Board”) of the District that:

1. Each of the above recitals is true and correct.

2. The Water Charge for the 2024 calendar year is hereby set at \$ ____ . ____ per-acre foot used in excess of available supply, as determined pursuant to the Water Charge Policy and the Rate Study attached to Resolution No. 536.
3. The time for paying the 2024 Water Charge will be in or around May 2025, with the exact date fixed by further action of the Board, and delinquencies in payment will be subject to the penalties and interest provided for in section 47182. The District will collect delinquent charges using the procedures set forth in sections 47183 through 47185, or any other procedure lawfully available to the District.
4. District staff shall implement the “Water Charge Policy” set forth in Exhibit D to Resolution No. 536, and take such other actions are necessary to effectuate the purposes of this Resolution and the Water Charge Policy.

This Resolution No. 537, being on motion of Director _____, seconded by Director _____, is PASSED, APPROVED AND ADOPTED on this 12th day of December, 2023, by the following roll call vote:

AYES:
 NOES:
 ABSTAIN:
 ABSENT:

I HEREBY CERTIFY that the foregoing resolution is the resolution of said District as duly passed and adopted by said Board of Directors on the 12th day of December, 2023.

WITNESS my hand and seal of the Board of Directors this 12th day of December, 2023.

ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT

 Board of Directors, President

Attest:

 Board of Directors, Secretary

WELCOME TO ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT

Rosedale-Rio Bravo Water Storage District was formed in 1959 to replenish the groundwater pumped by its overlying users. This important task is accomplished through the importation and recharge of surface water into the groundwater aquifer. To recharge groundwater, Rosedale utilizes a series of canals, wells, pipelines, and ponds to provide sustainable groundwater access for its landowners.



BOARD MEETING

[Next Meeting Agenda](#)

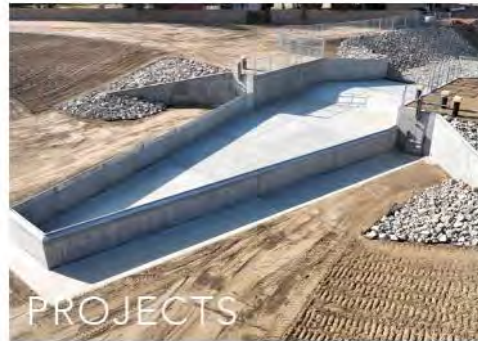
NEWS & UPDATES

[Notice of Proposed Water Charge](#)

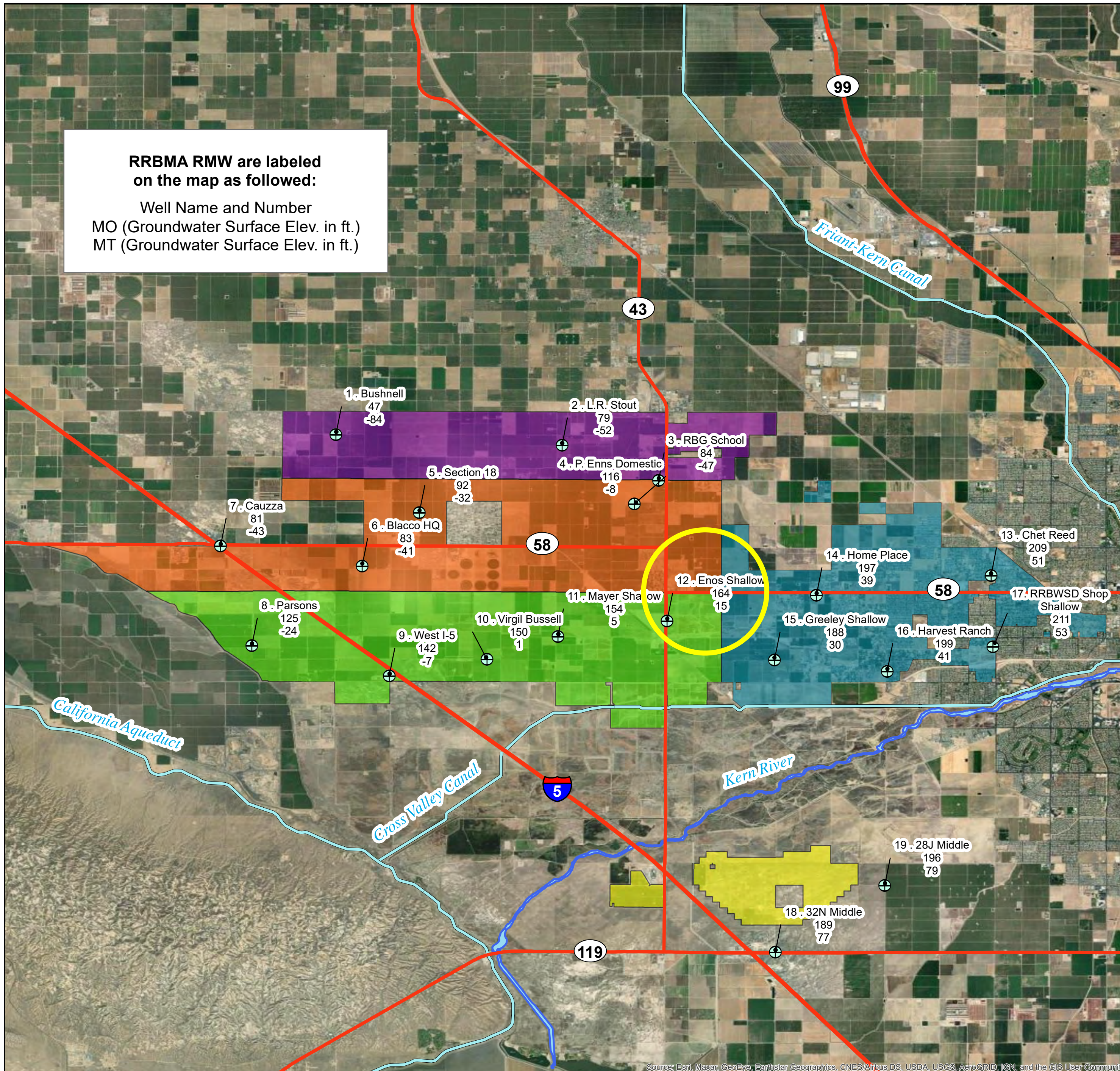
[Water Charge Rate Study](#)

[August 9, 2023 - Notice of Intent to Prepare GSP](#)

[VIDEO: How to find Depth to Water Data](#)



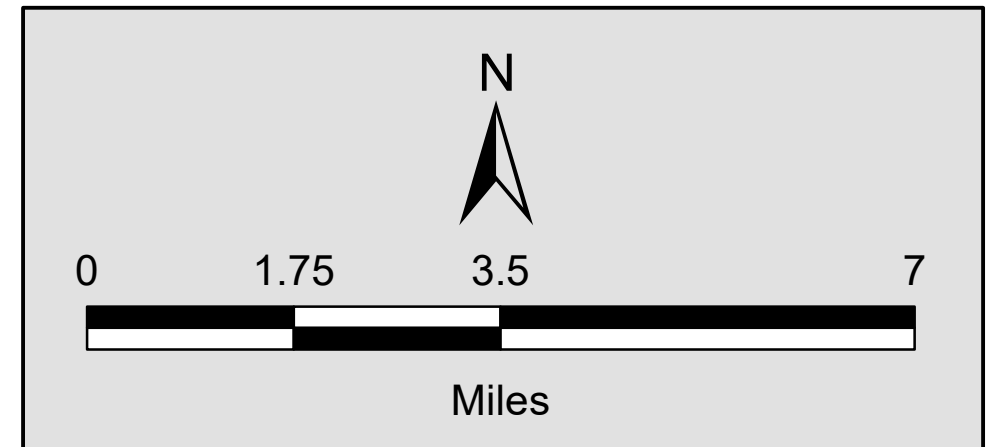
RRBMA Monitoring Areas - RMW Water Level MOs and MTs



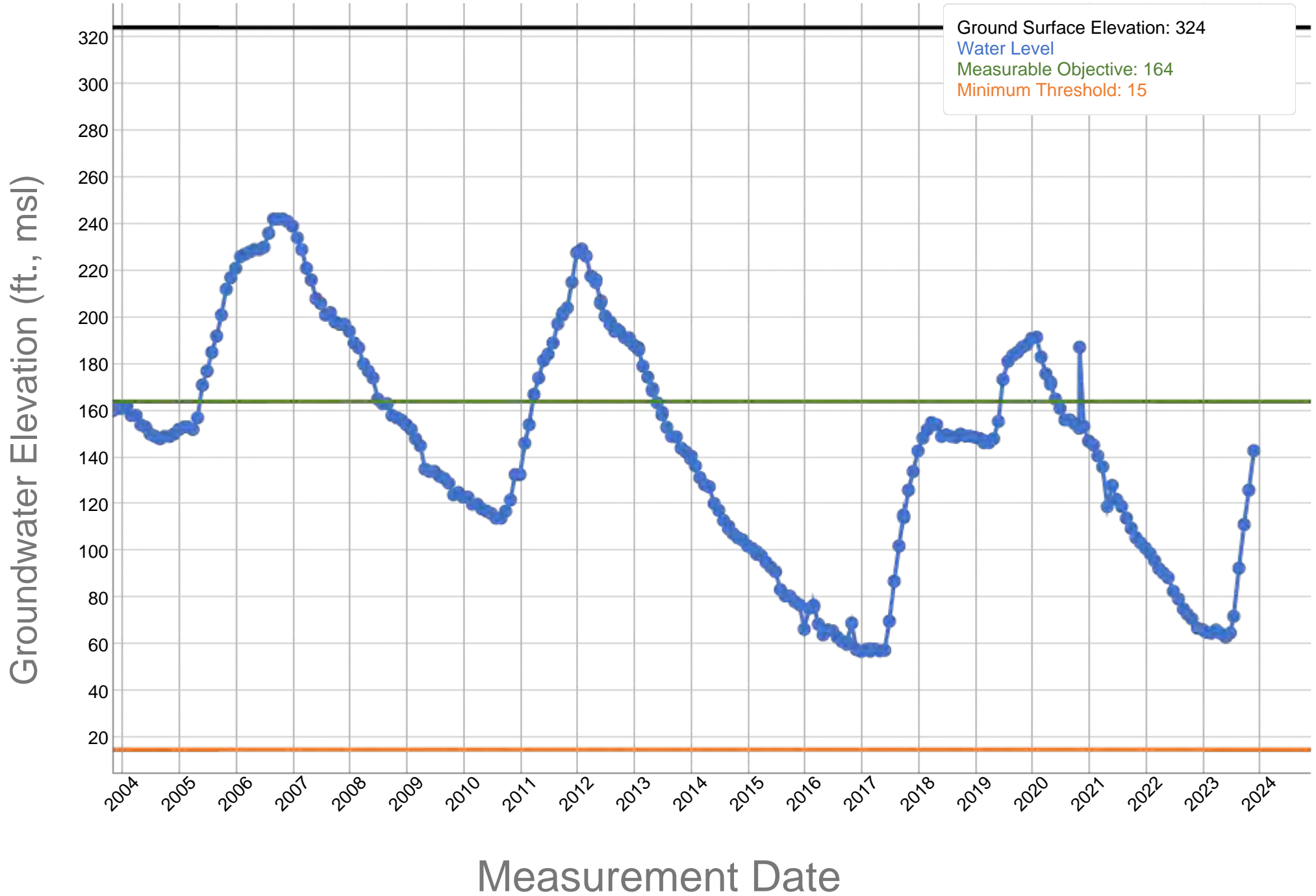
Legend

- ⊕ RRBMA RMW (Water Level)
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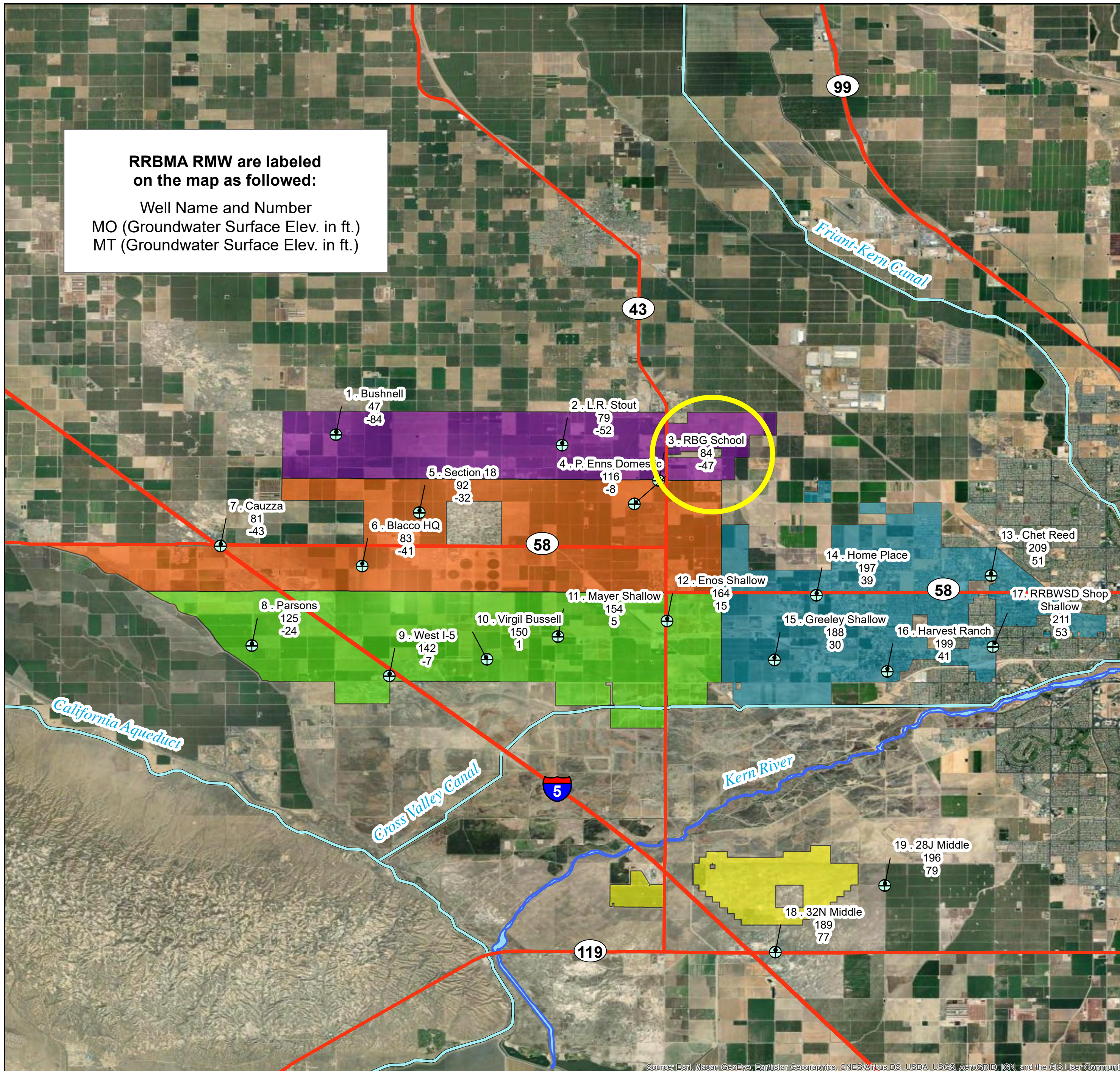
*RMW = Representative Monitoring Well
MO = Measurable Objective
MT = Minimum Threshold*



Rosedale-Rio Bravo Water Storage District - 25M Enos - 353760N1192498W002



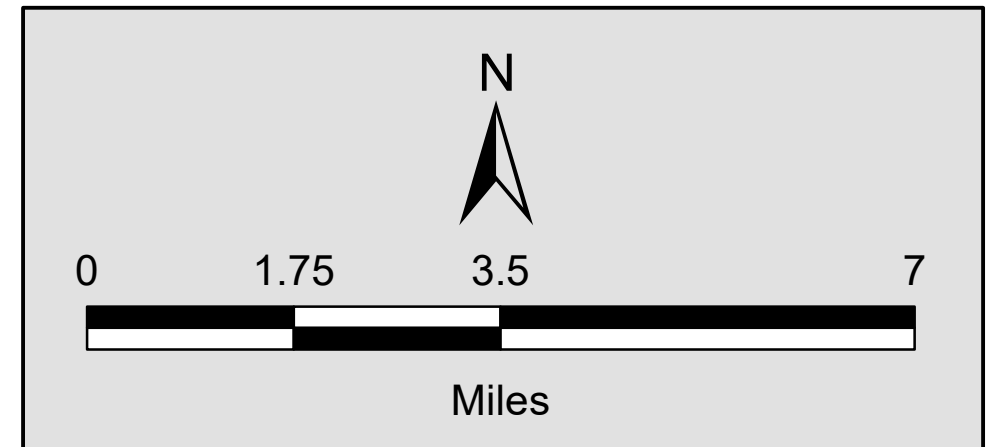
RRBMA Monitoring Areas - RMW Water Level MOs and MTs



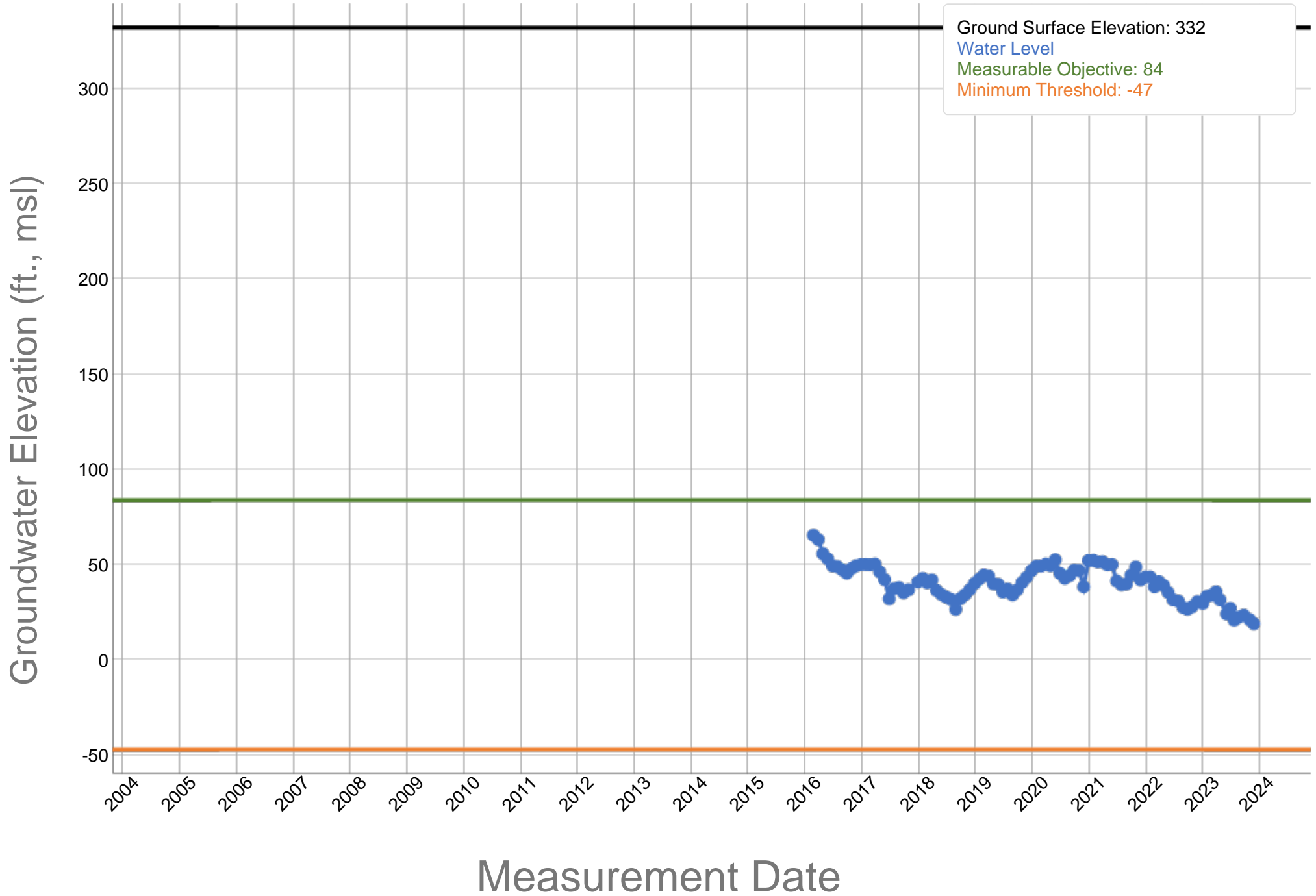
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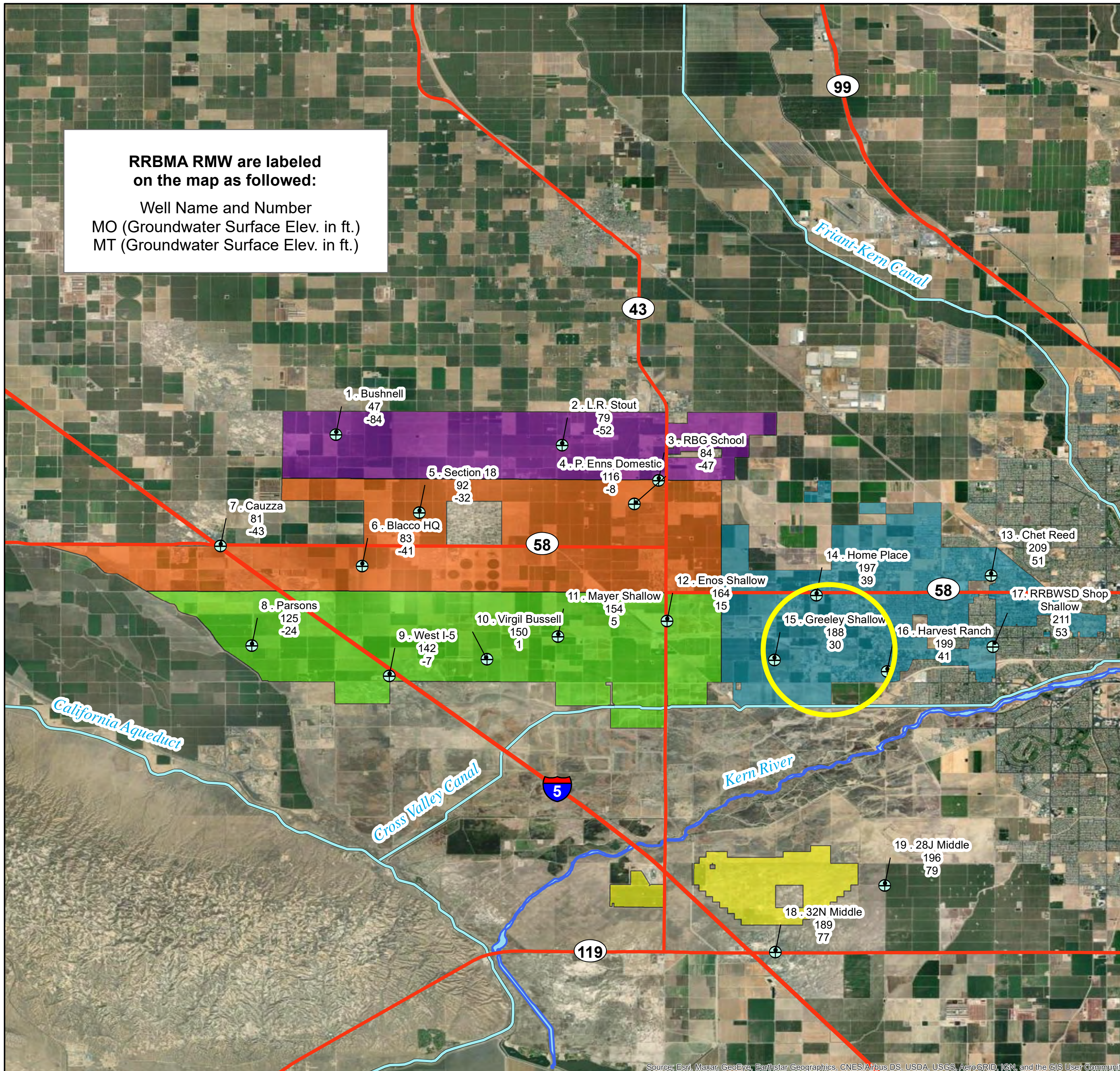
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Rosedale-Rio Bravo GSA - RBG School - 354197N1192544W001



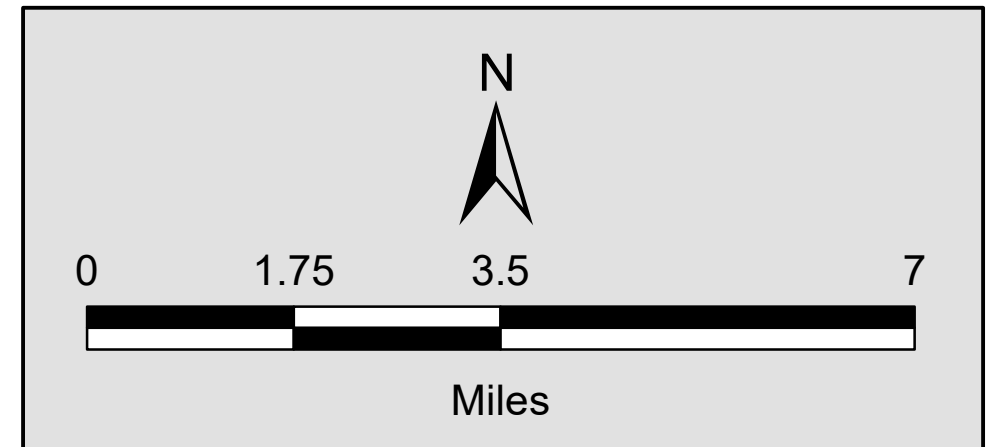
RRBMA Monitoring Areas - RMW Water Level MOs and MTs



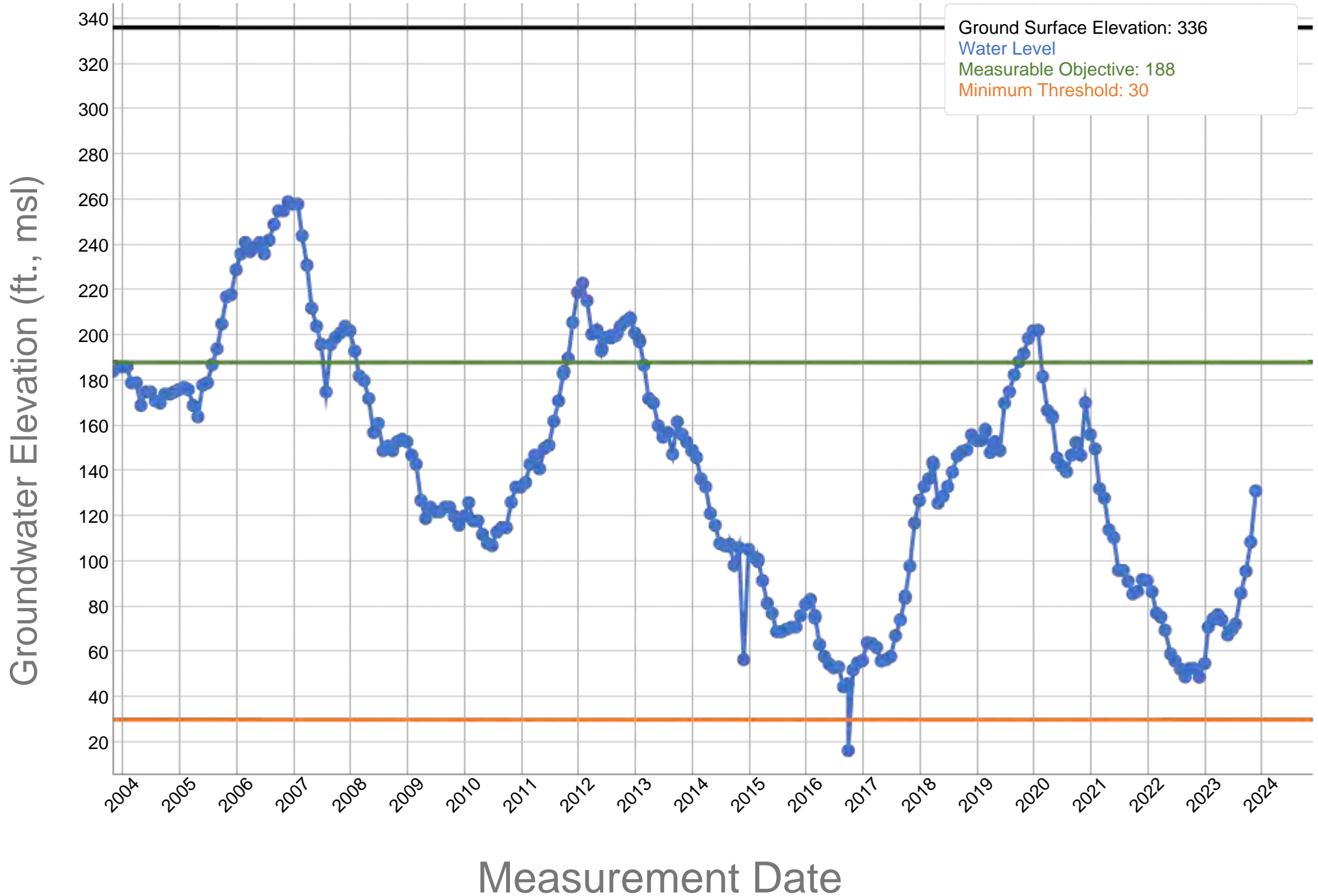
Legend

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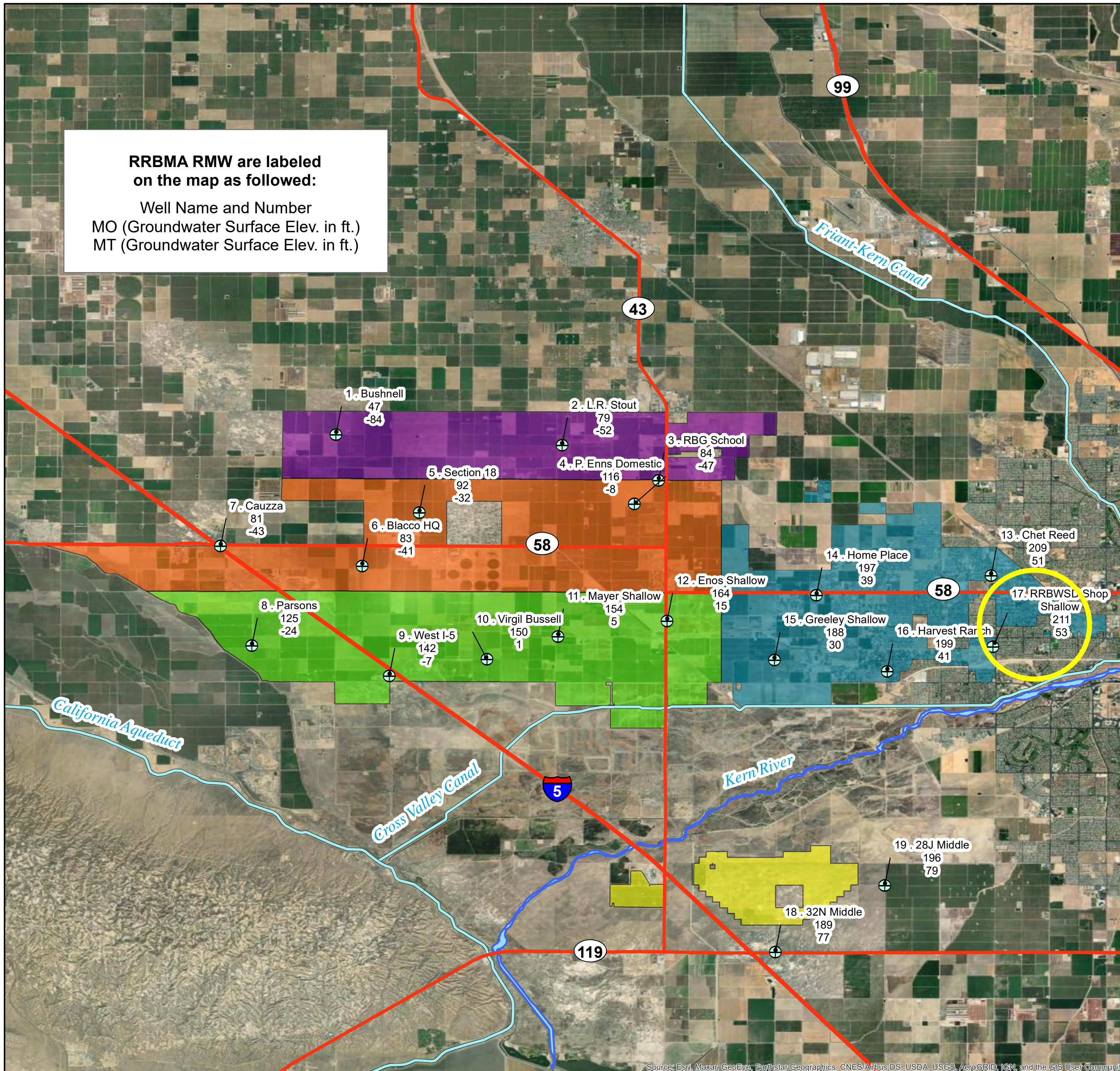
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Rosedale-Rio Bravo Water Storage District - 31H Greeley - 353618N1192169W001



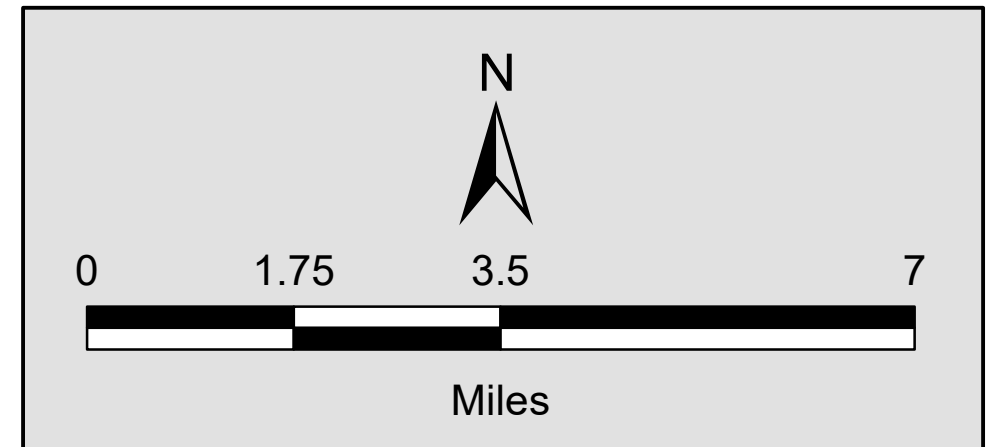
RRBMA Monitoring Areas - RMW Water Level MOs and MTs



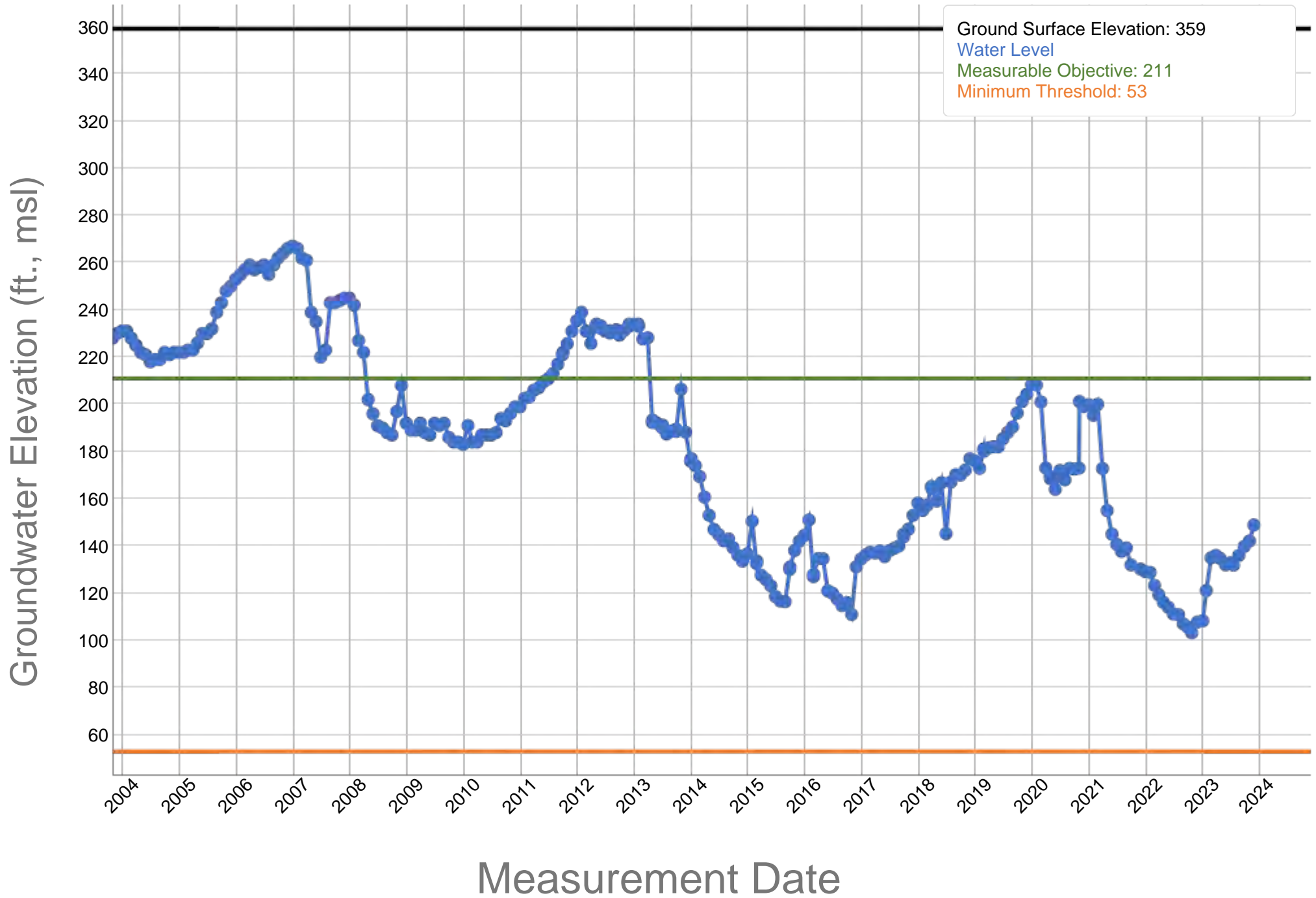
Legend

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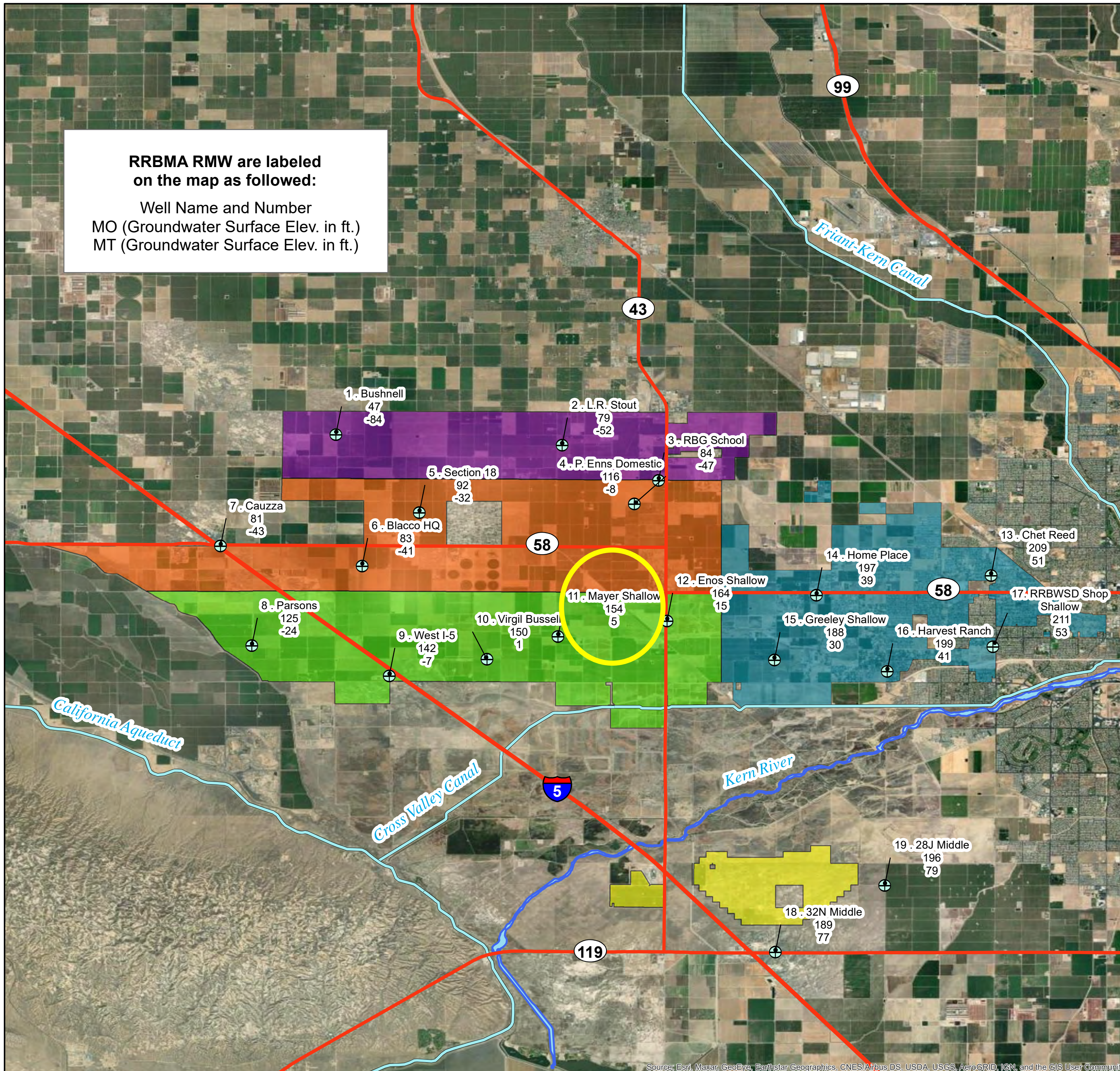
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Rosedale-Rio Bravo Water Storage District - 35H RRBWSD Shop - 353620N1191457W002



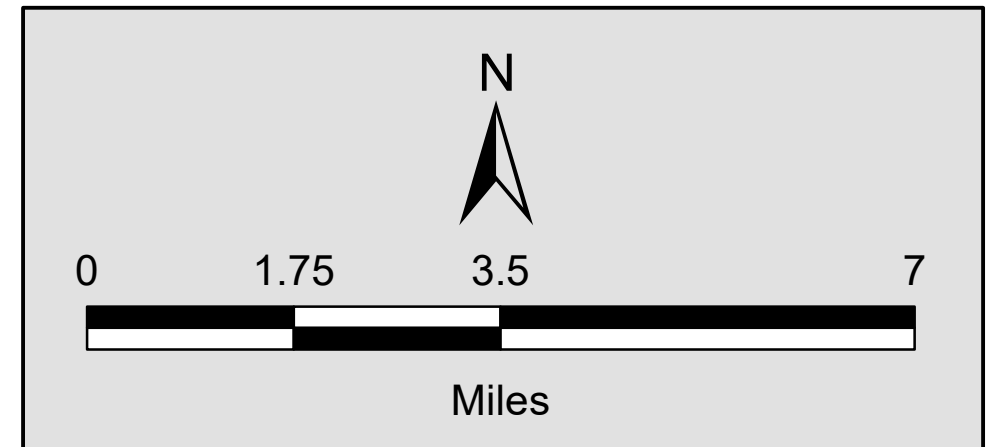
RRBMA Monitoring Areas - RMW Water Level MOs and MTs



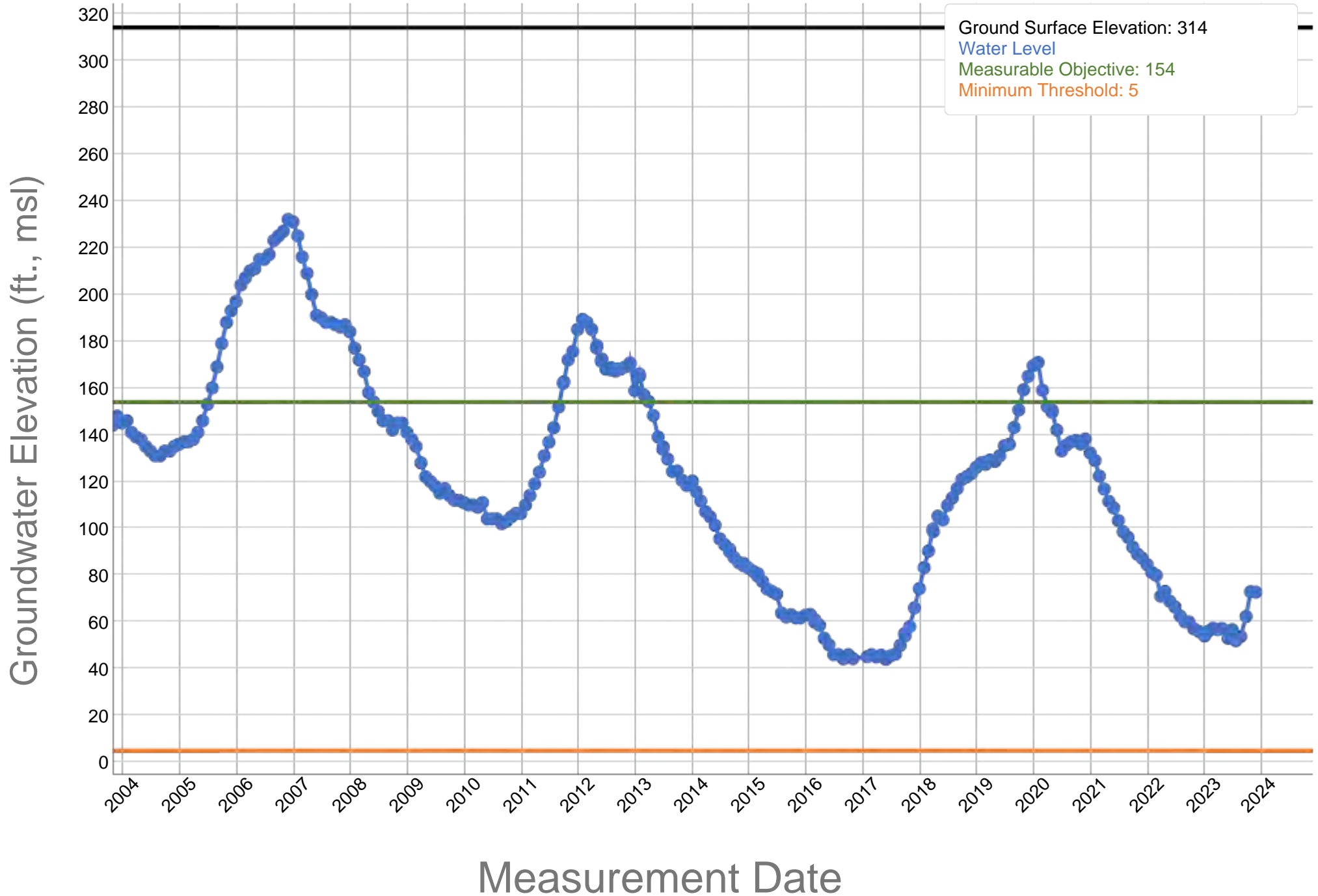
Legend

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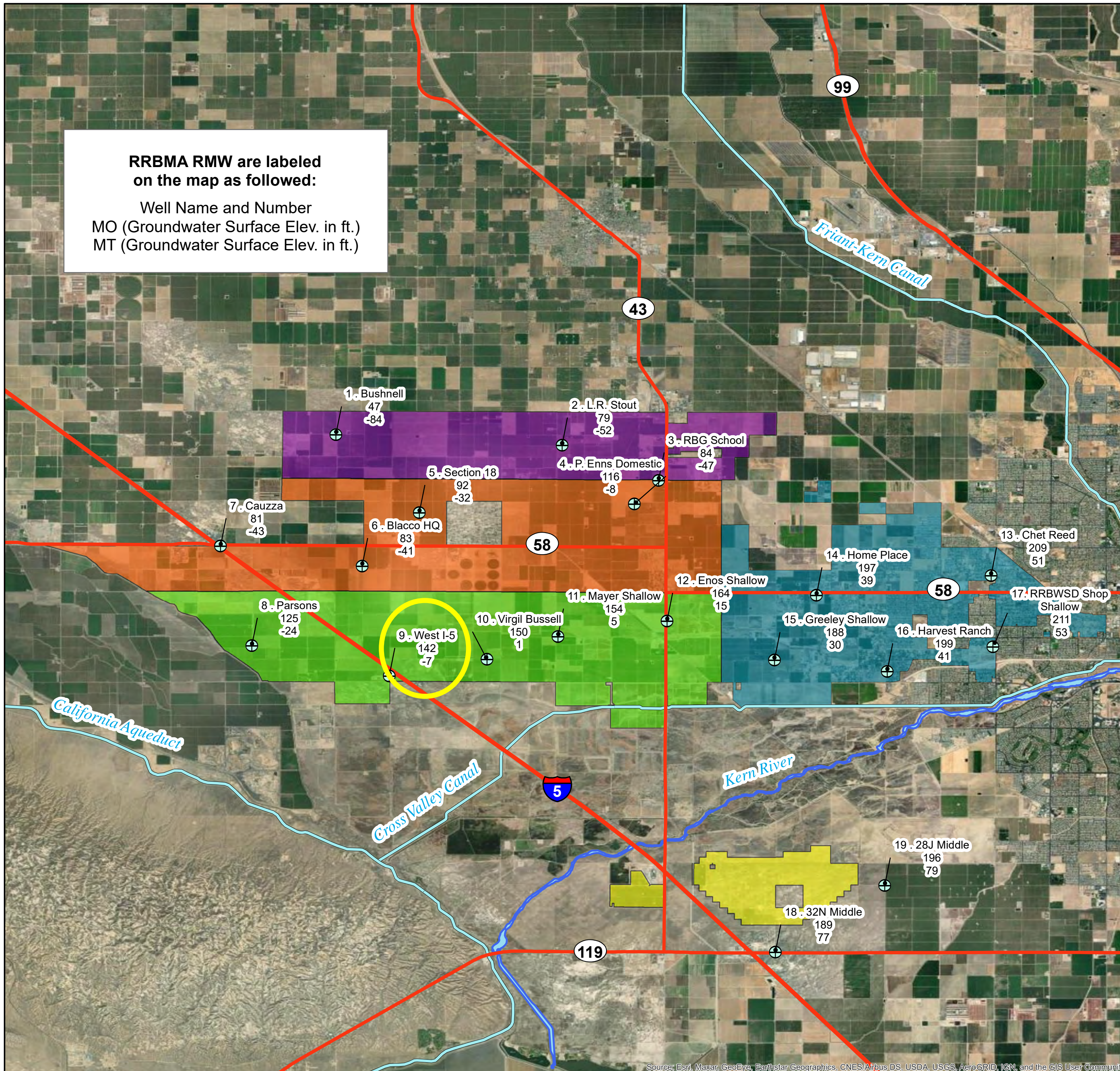
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Rosedale-Rio Bravo Water Storage District - 27N Mayer - 353699N1192856W002



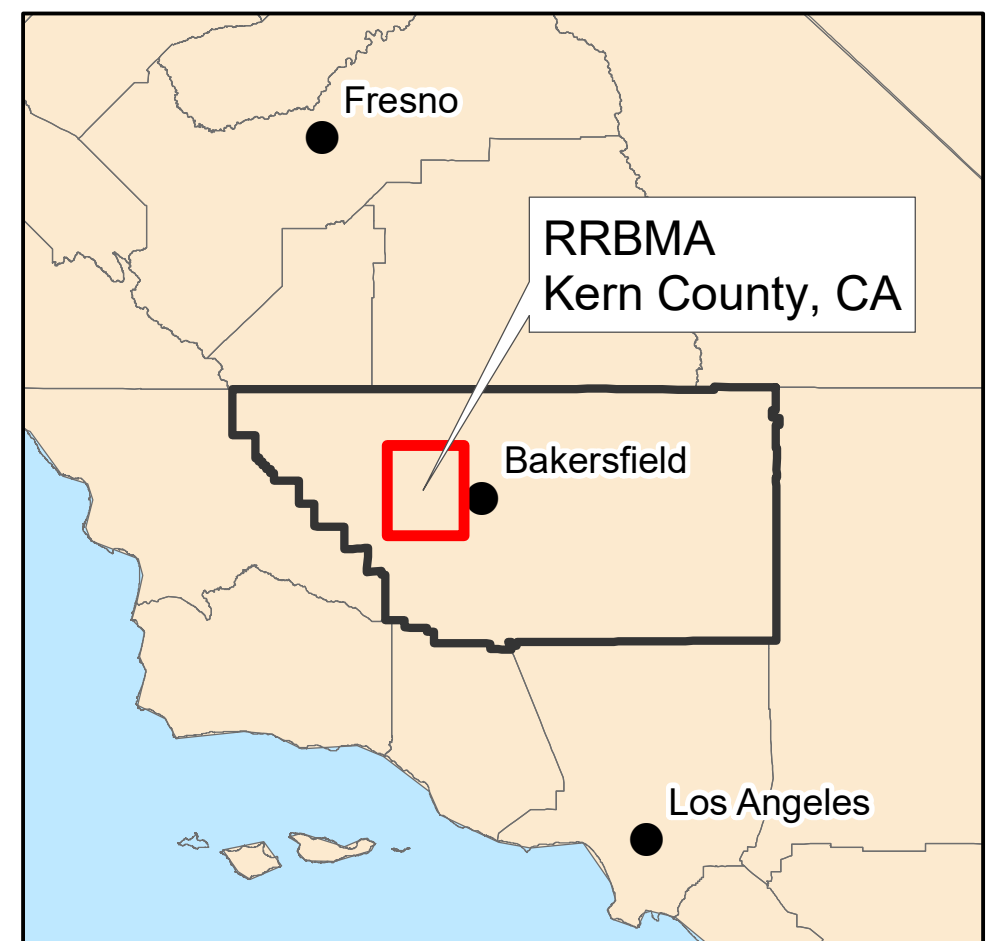
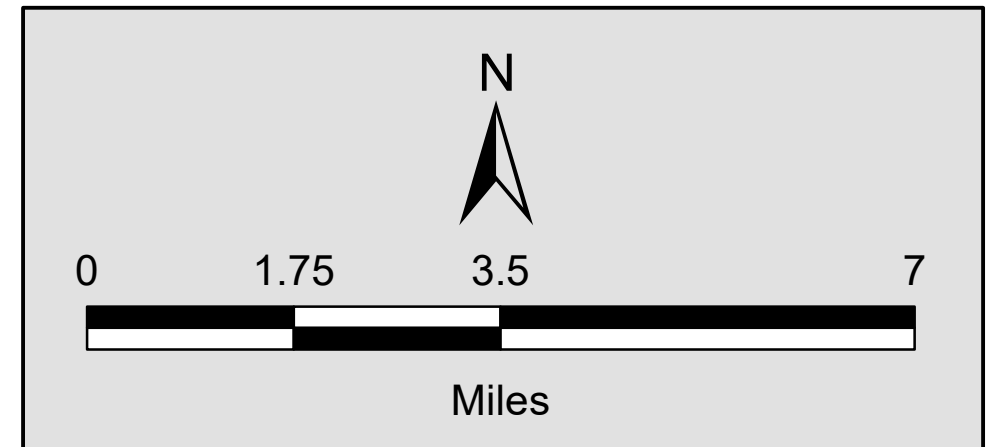
RRBMA Monitoring Areas - RMW Water Level MOs and MTs



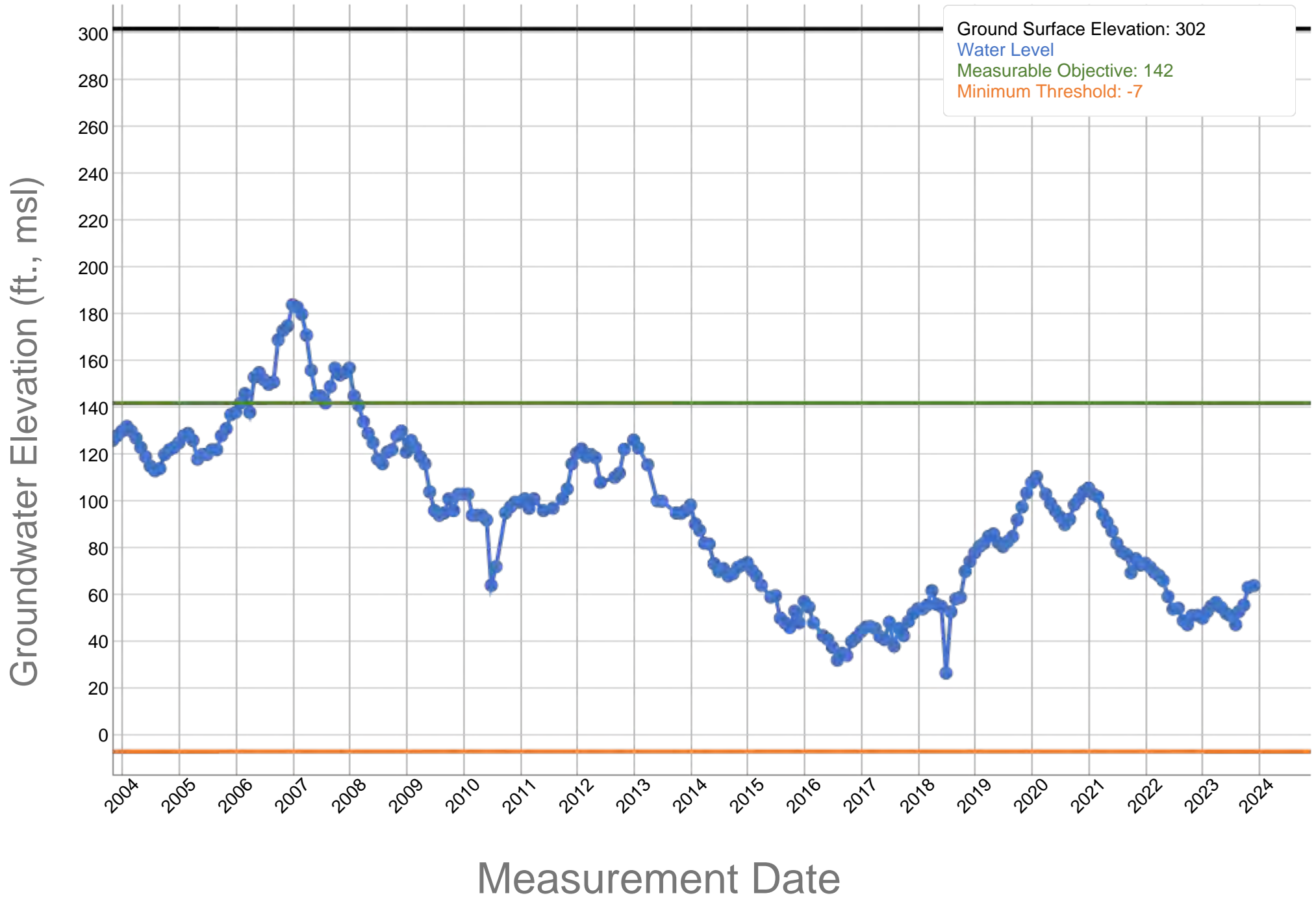
Legend

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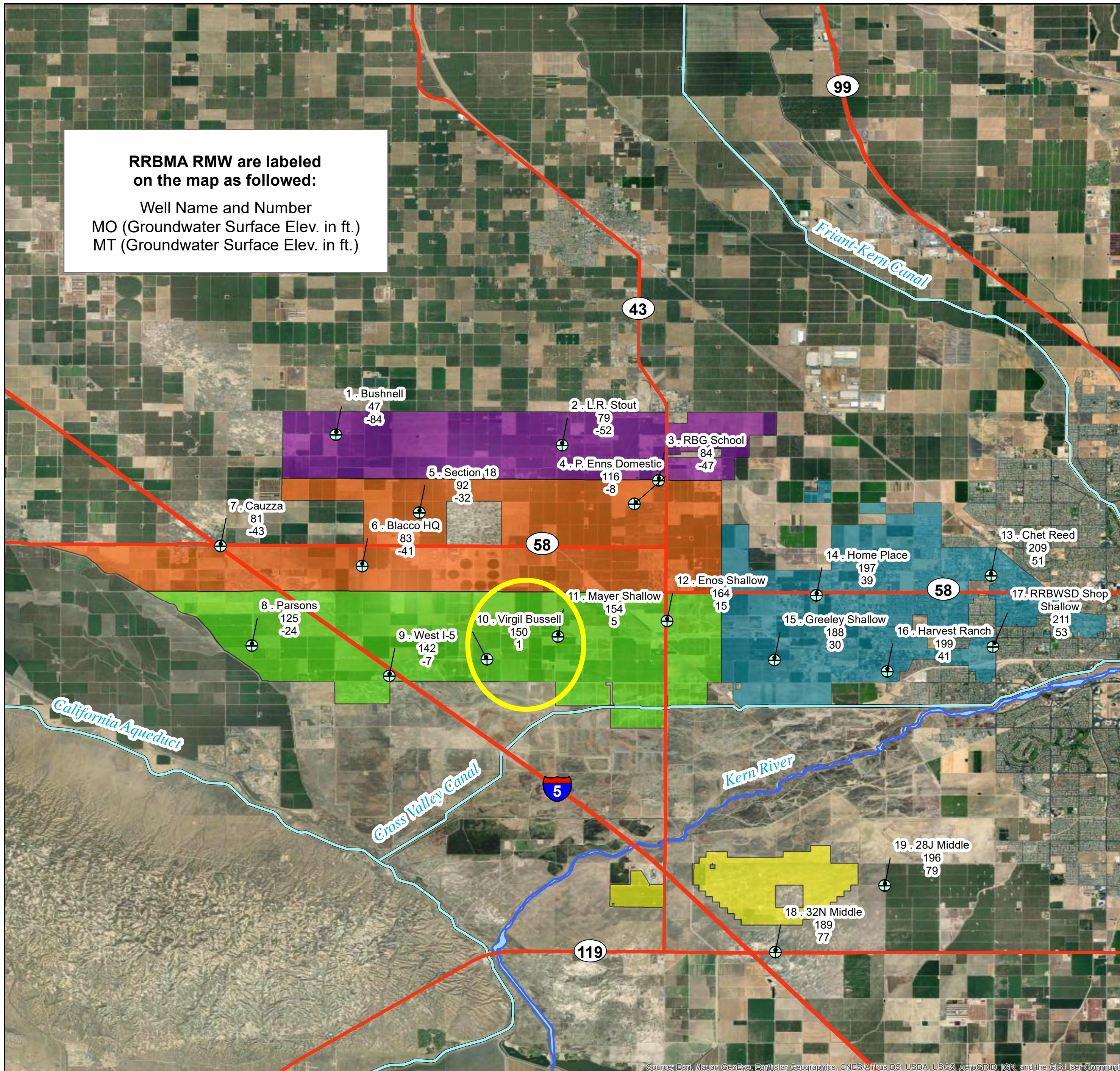
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Rosedale-Rio Bravo Water Storage District - West I-5 - 353564N1193412W001



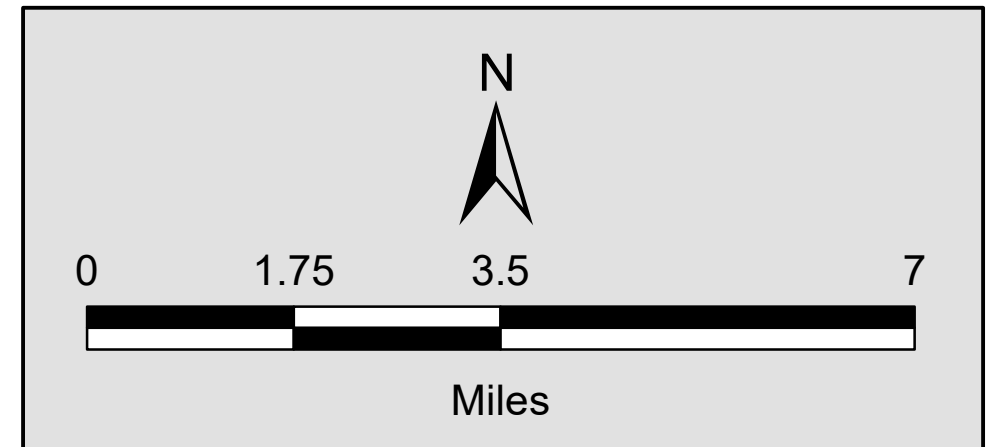
RRBMA Monitoring Areas - RMW Water Level MOs and MTs



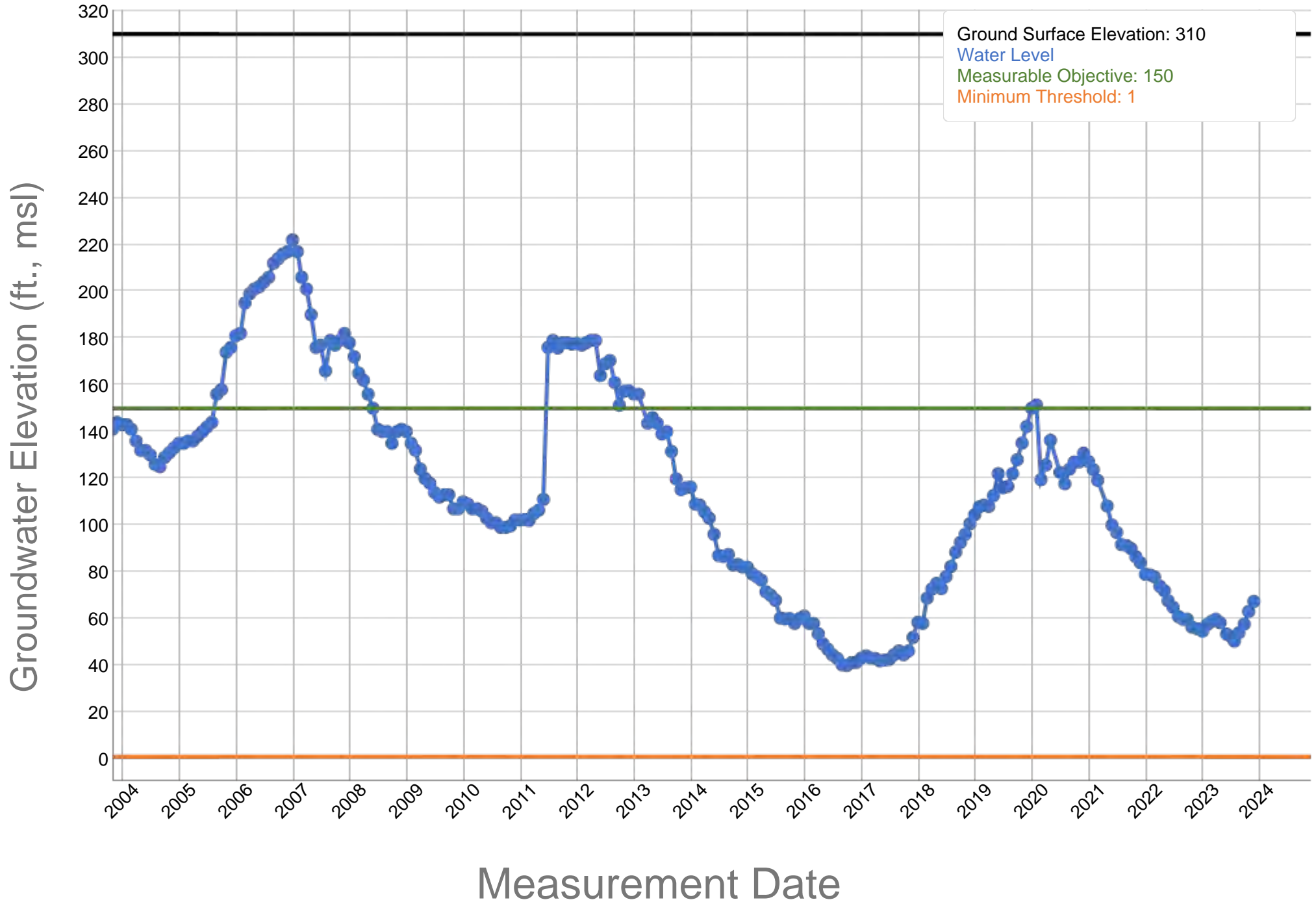
Legend

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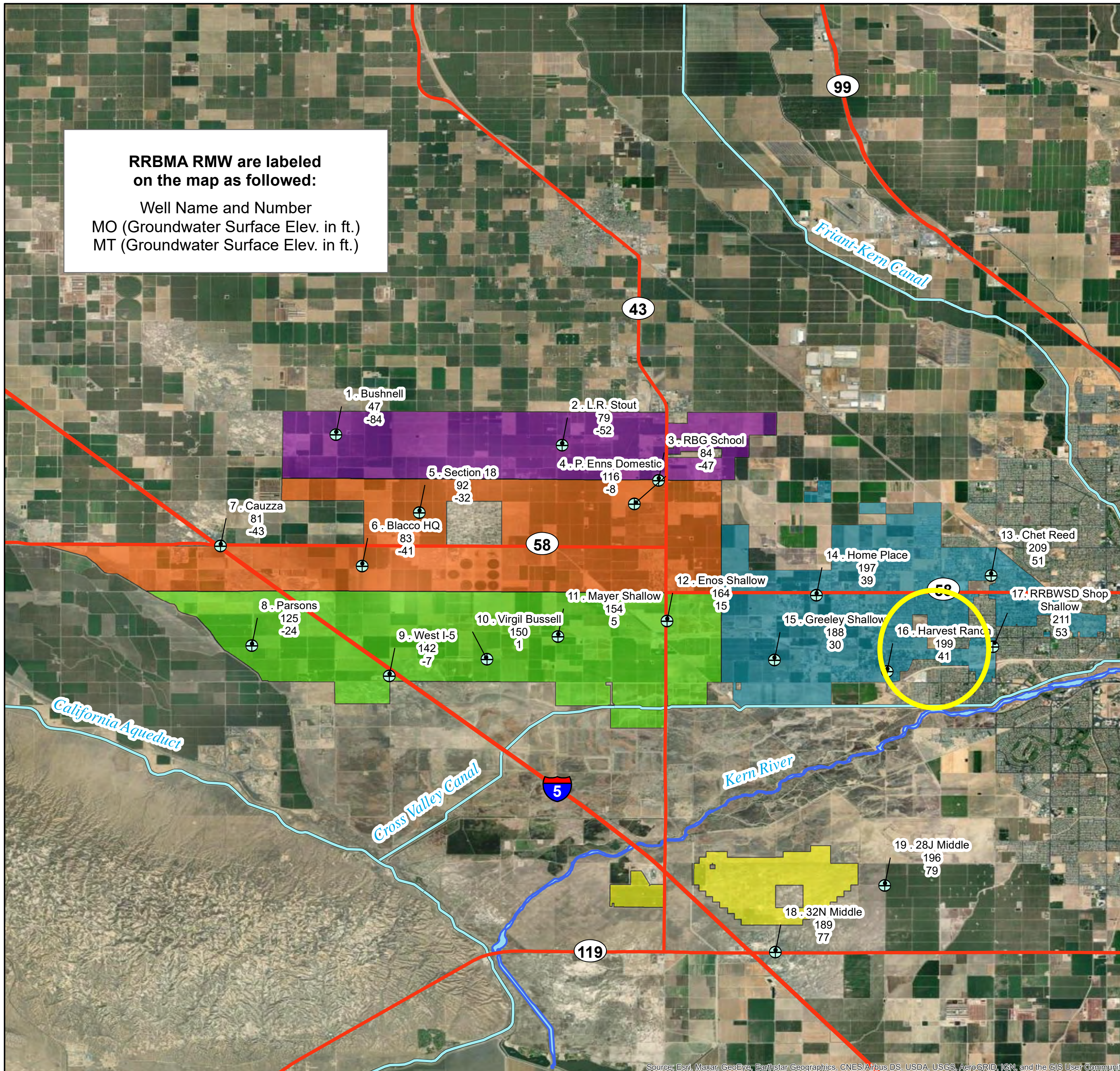
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Rosedale-Rio Bravo Water Storage District - Virgil Bussell - 353619N1193099W001



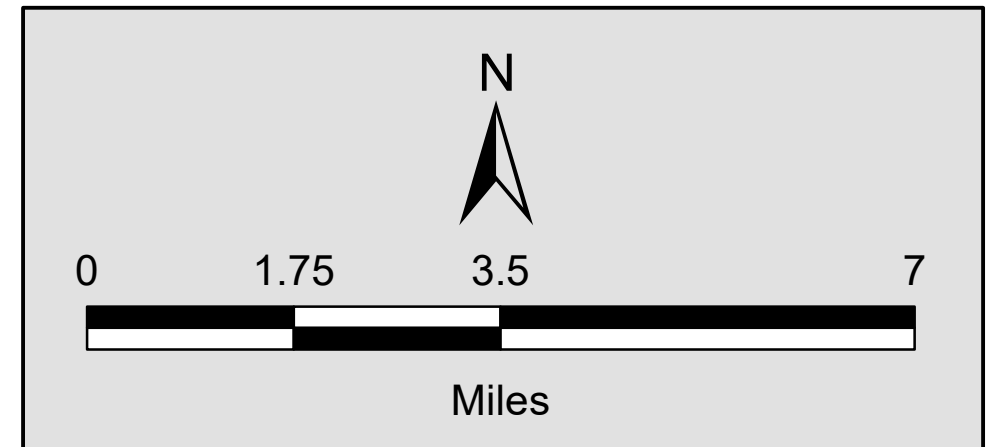
RRBMA Monitoring Areas - RMW Water Level MOs and MTs



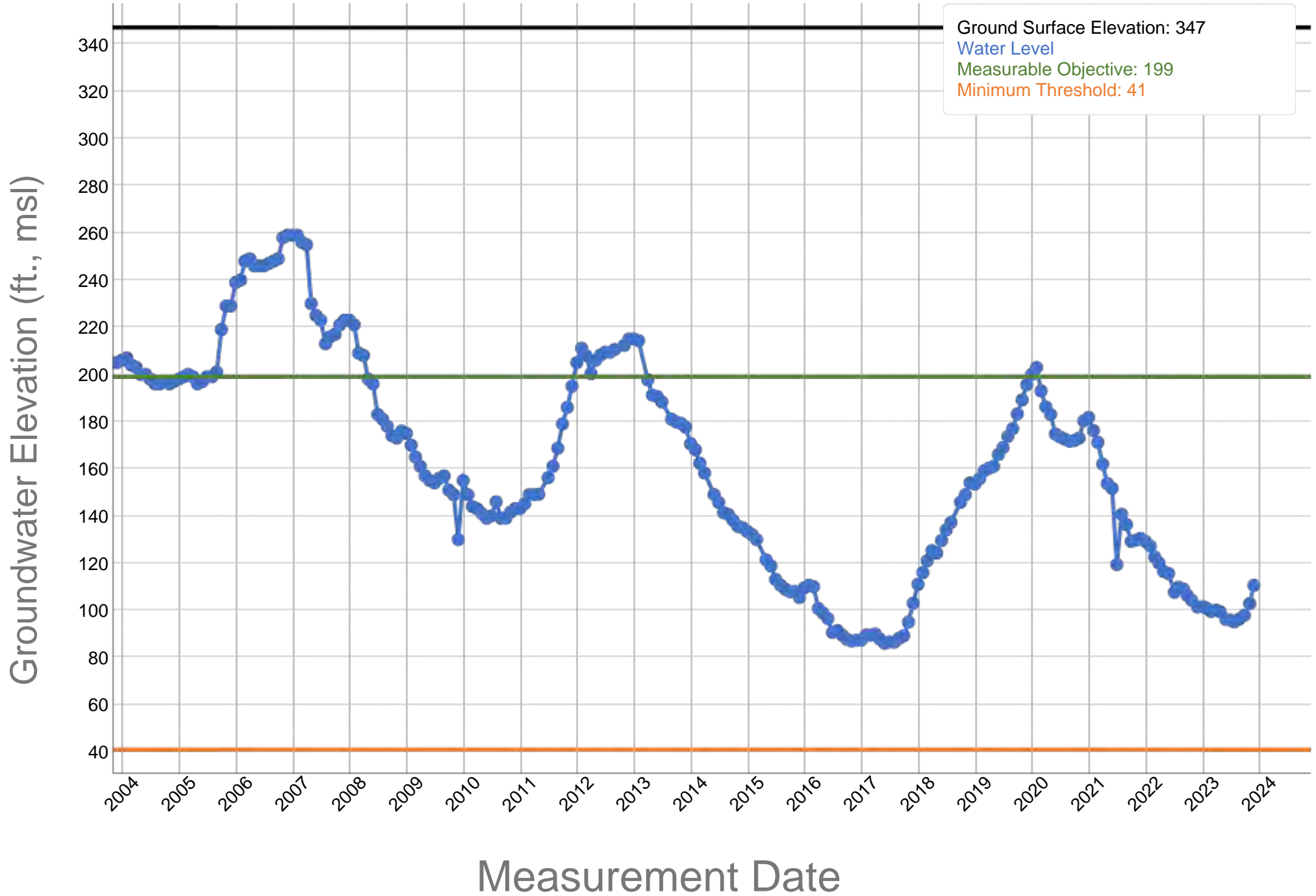
Legend

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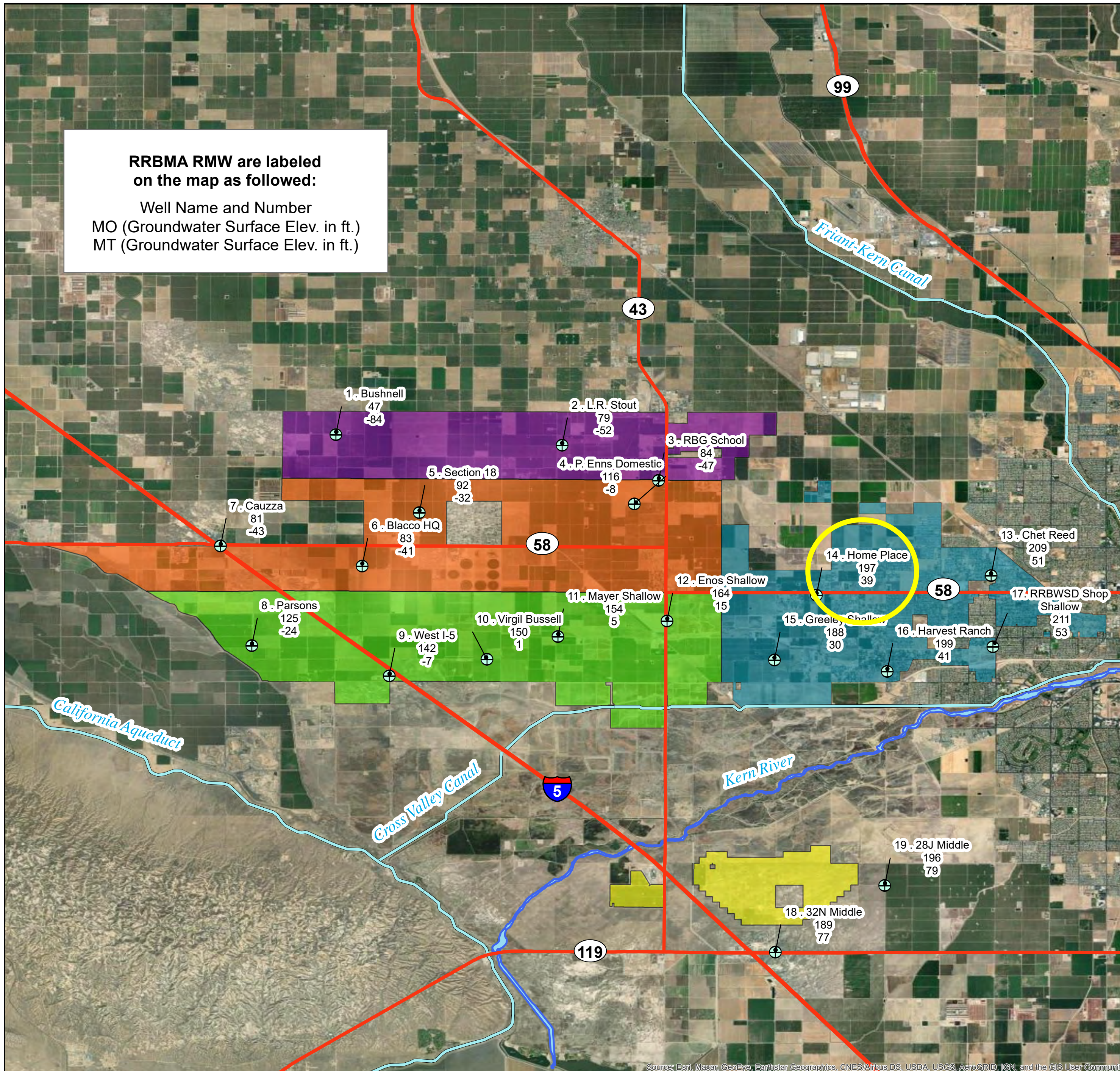
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Rosedale-Rio Bravo Water Storage District - Harvest Ranch - 353634N1191766W001



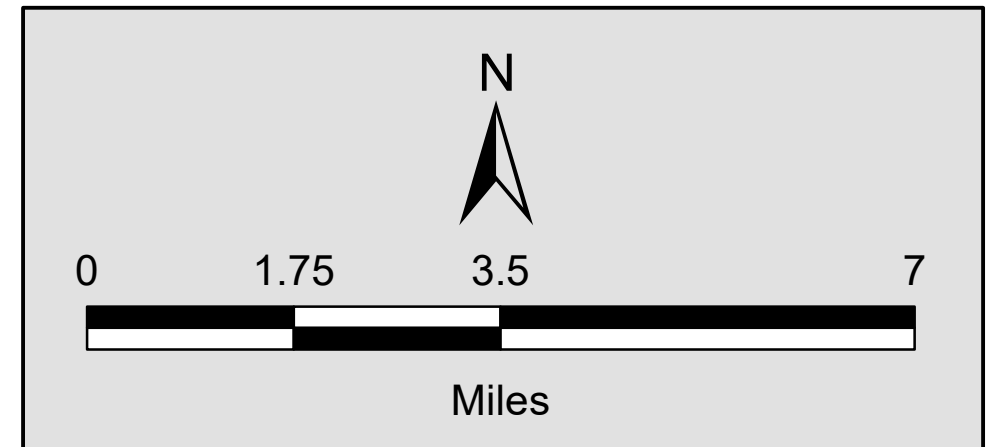
RRBMA Monitoring Areas - RMW Water Level MOs and MTs



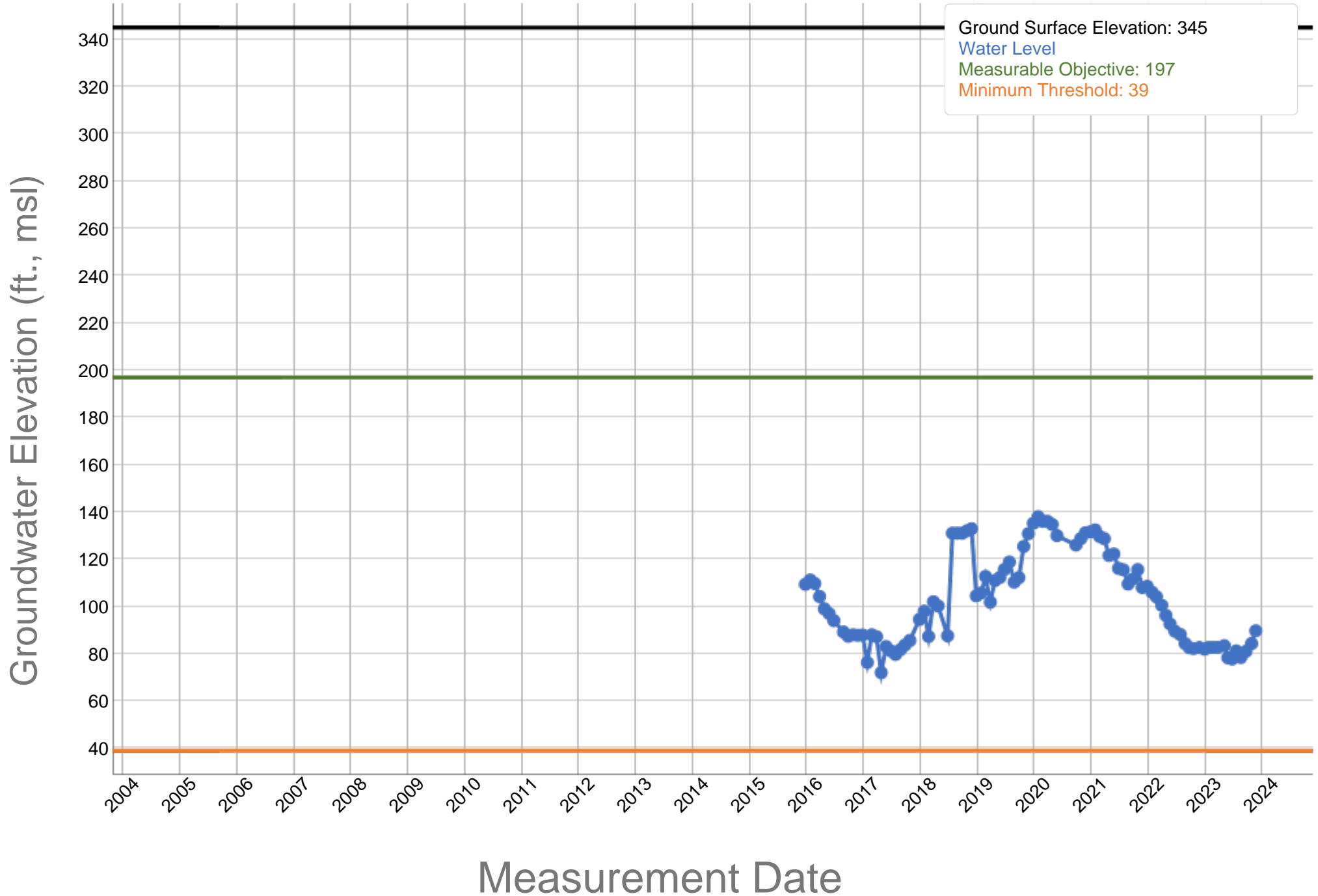
Legend

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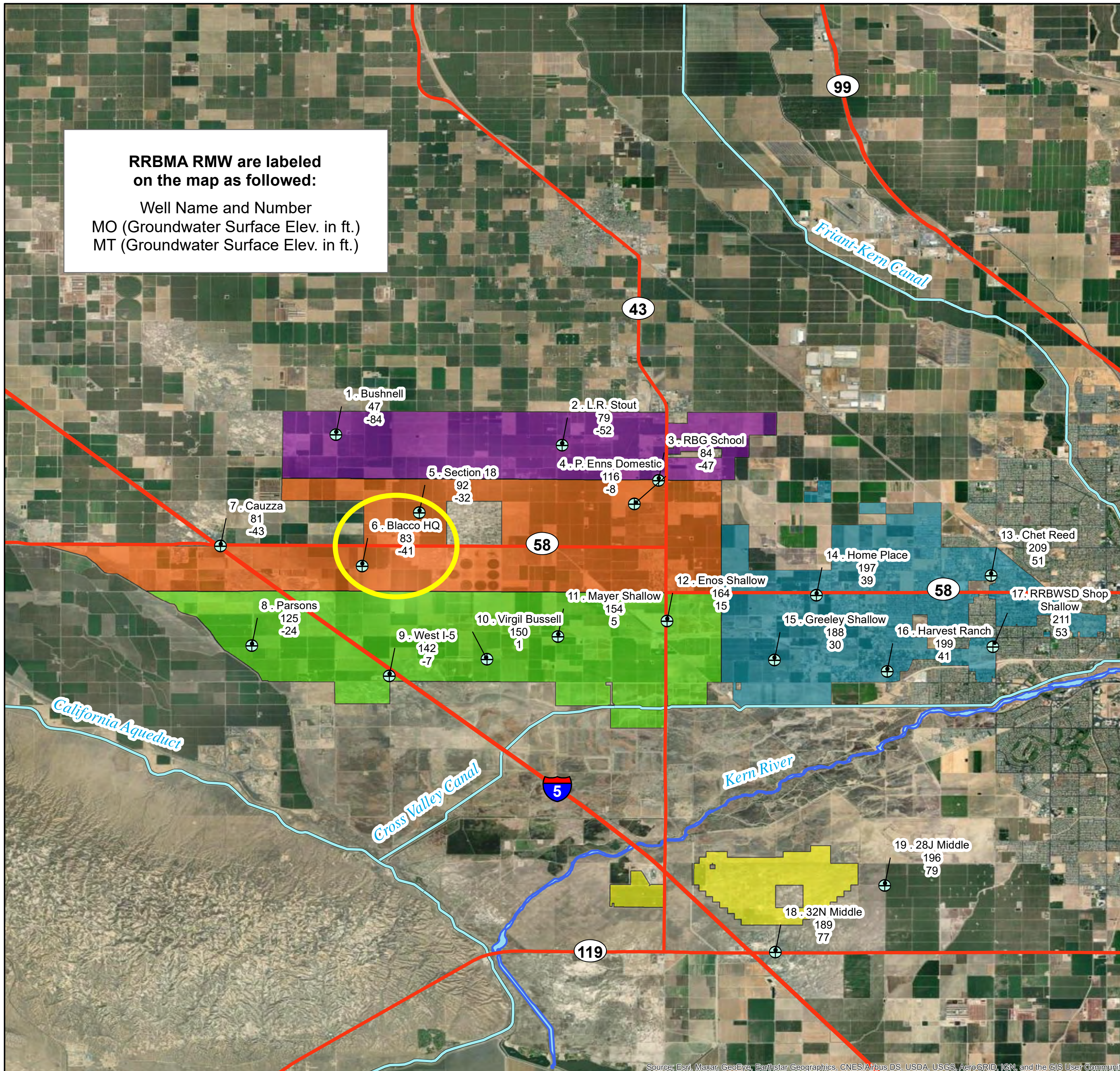
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Rosedale-Rio Bravo Water Storage District - Home Place - 353824N1192035W001



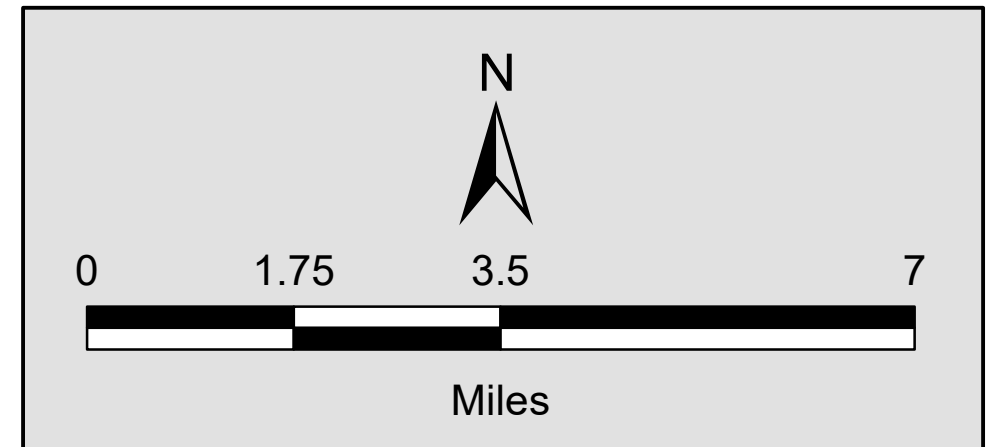
RRBMA Monitoring Areas - RMW Water Level MOs and MTs



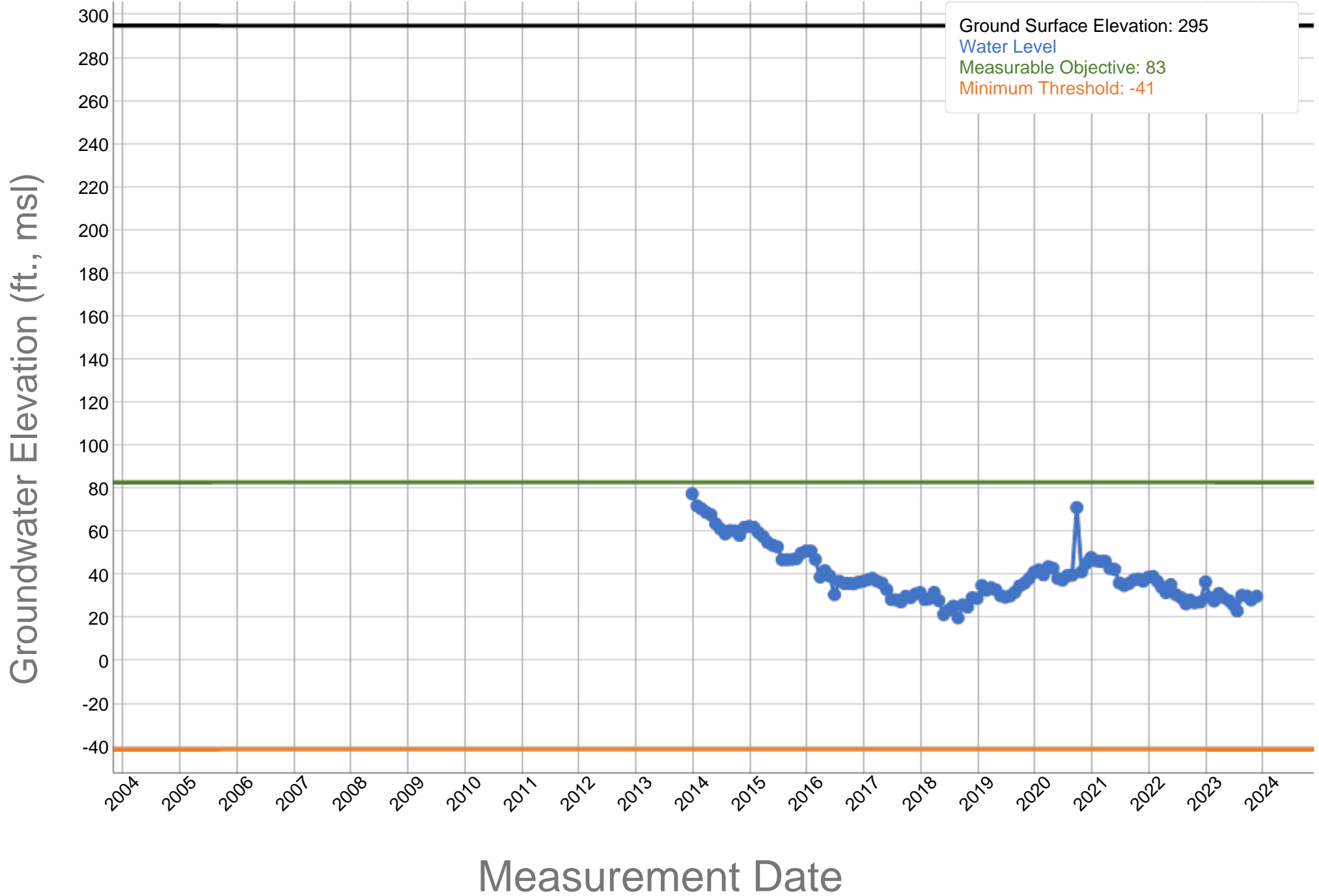
Legend

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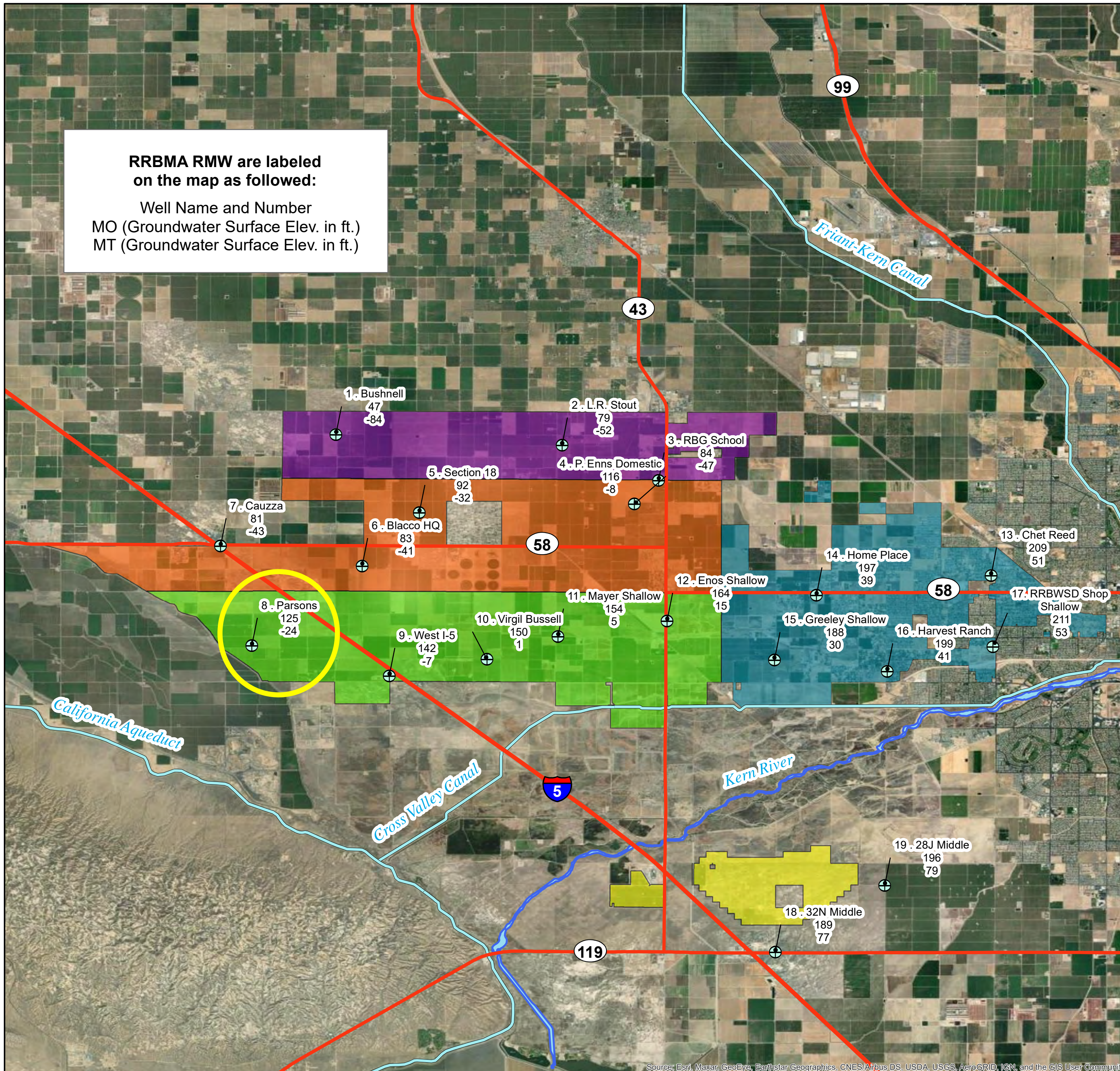
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Rosedale-Rio Bravo Water Storage District - Blacco HQ - 353915N1193454W001



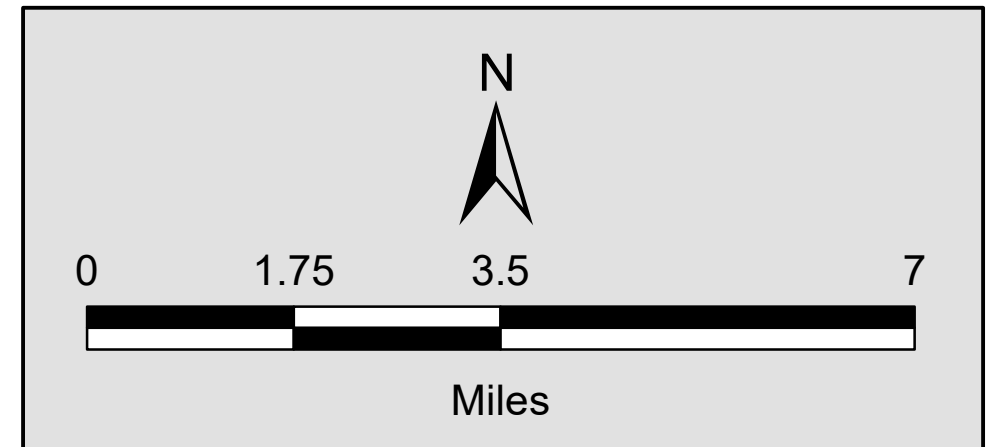
RRBMA Monitoring Areas - RMW Water Level MOs and MTs



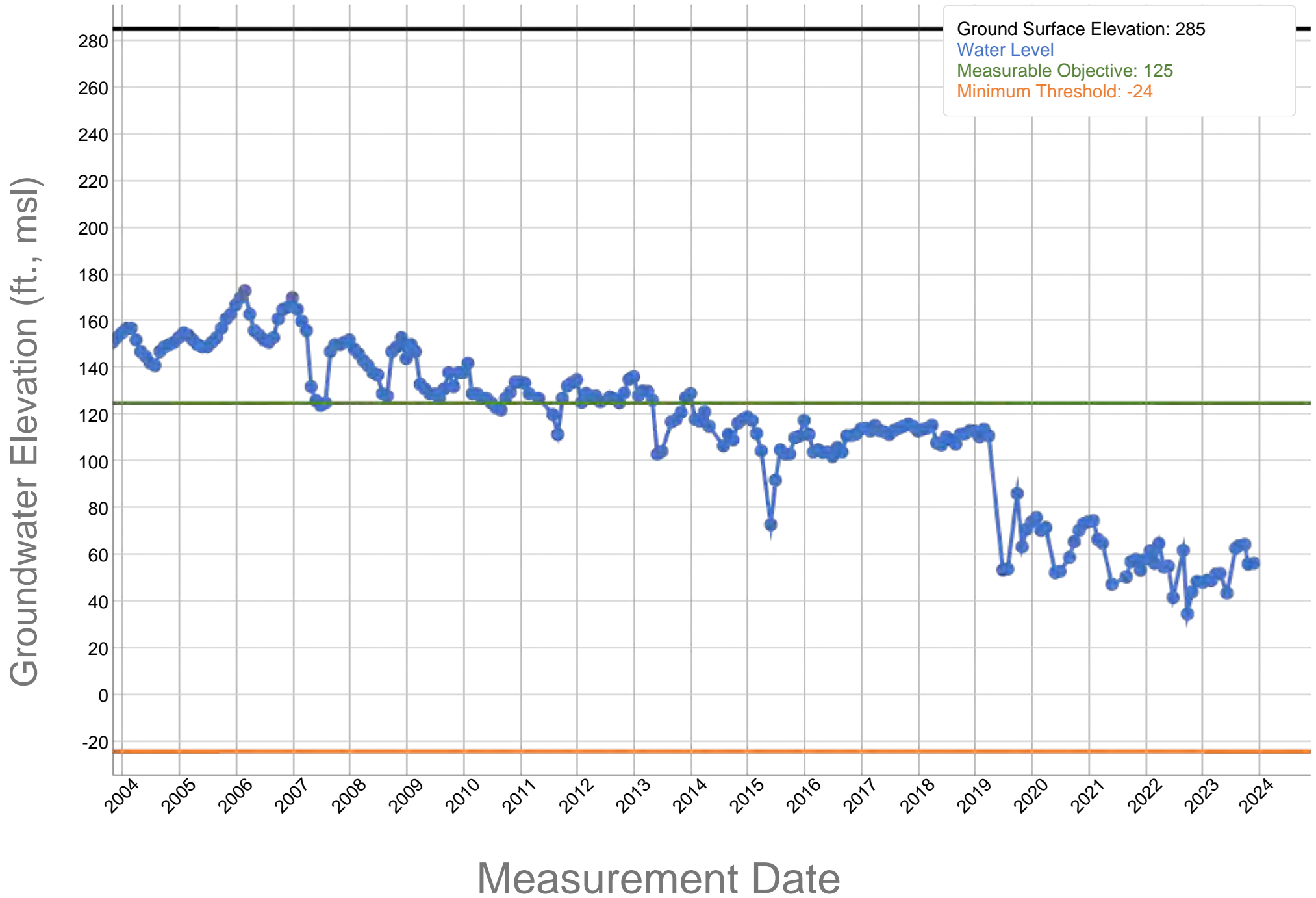
Legend

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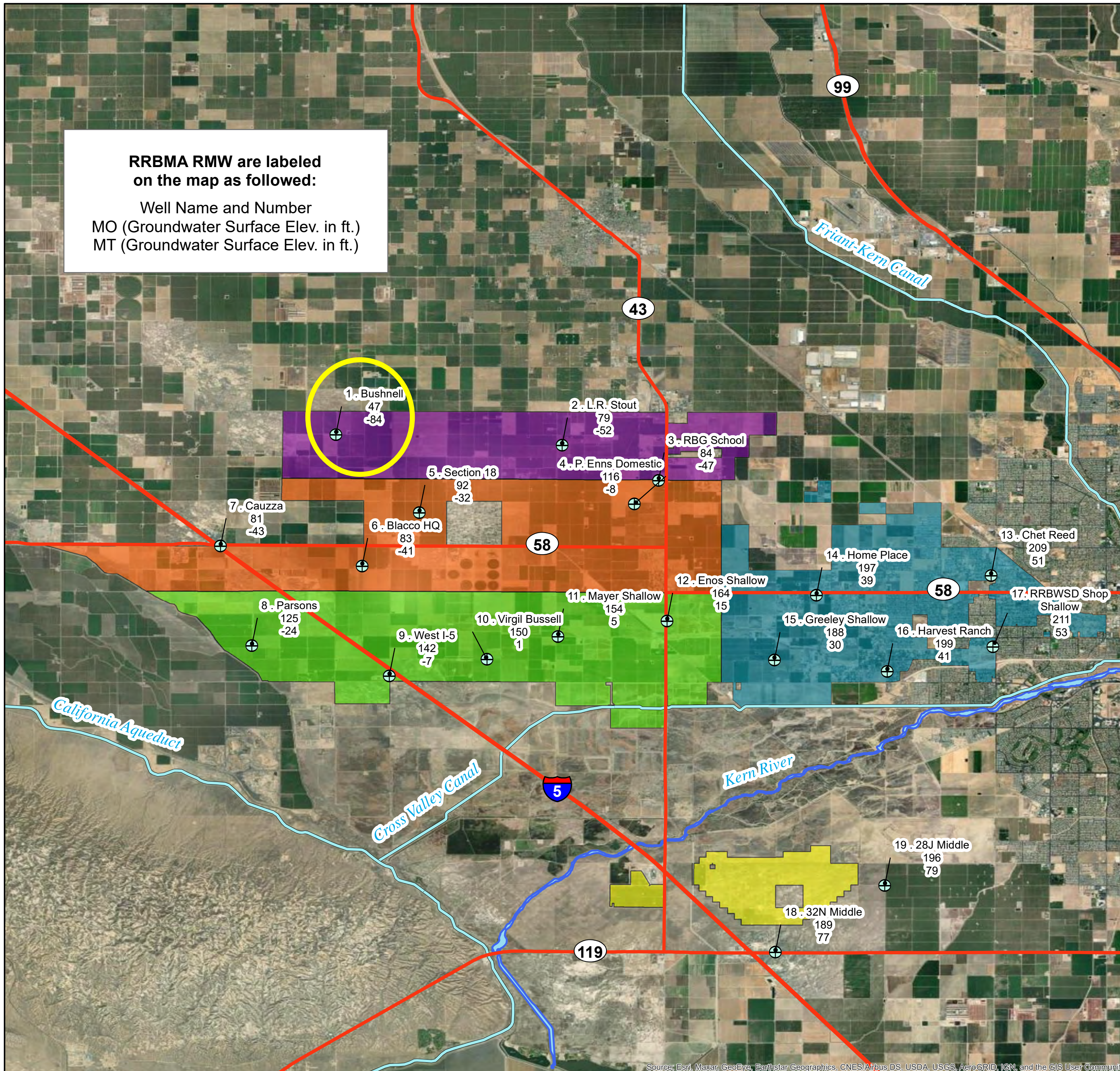
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Rosedale-Rio Bravo Water Storage District - Parsons - 353663N1193859W001



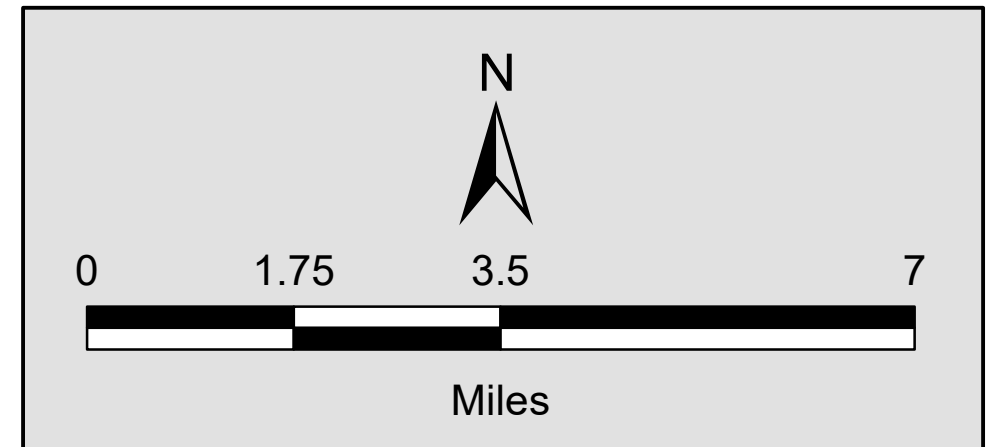
RRBMA Monitoring Areas - RMW Water Level MOs and MTs



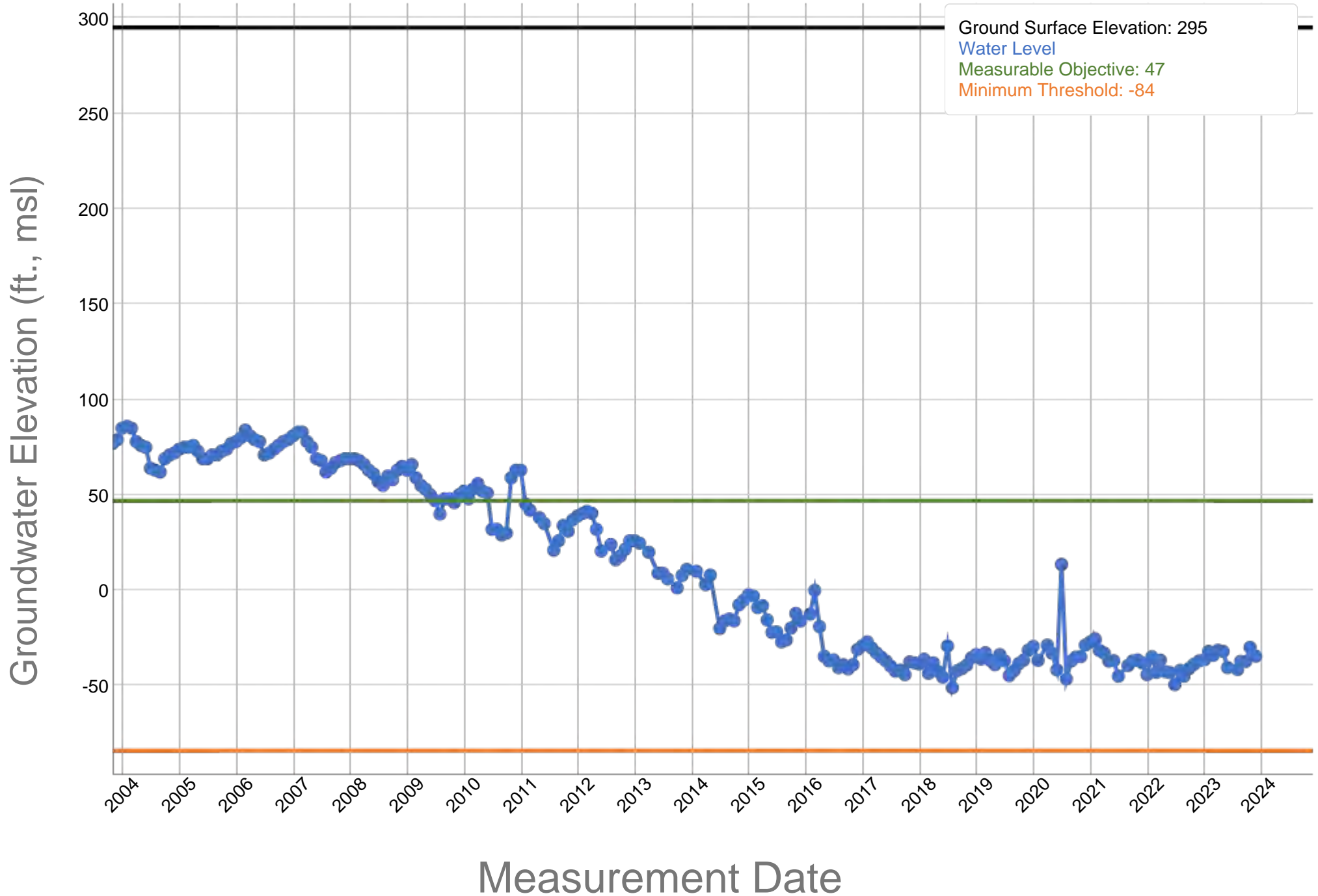
Legend

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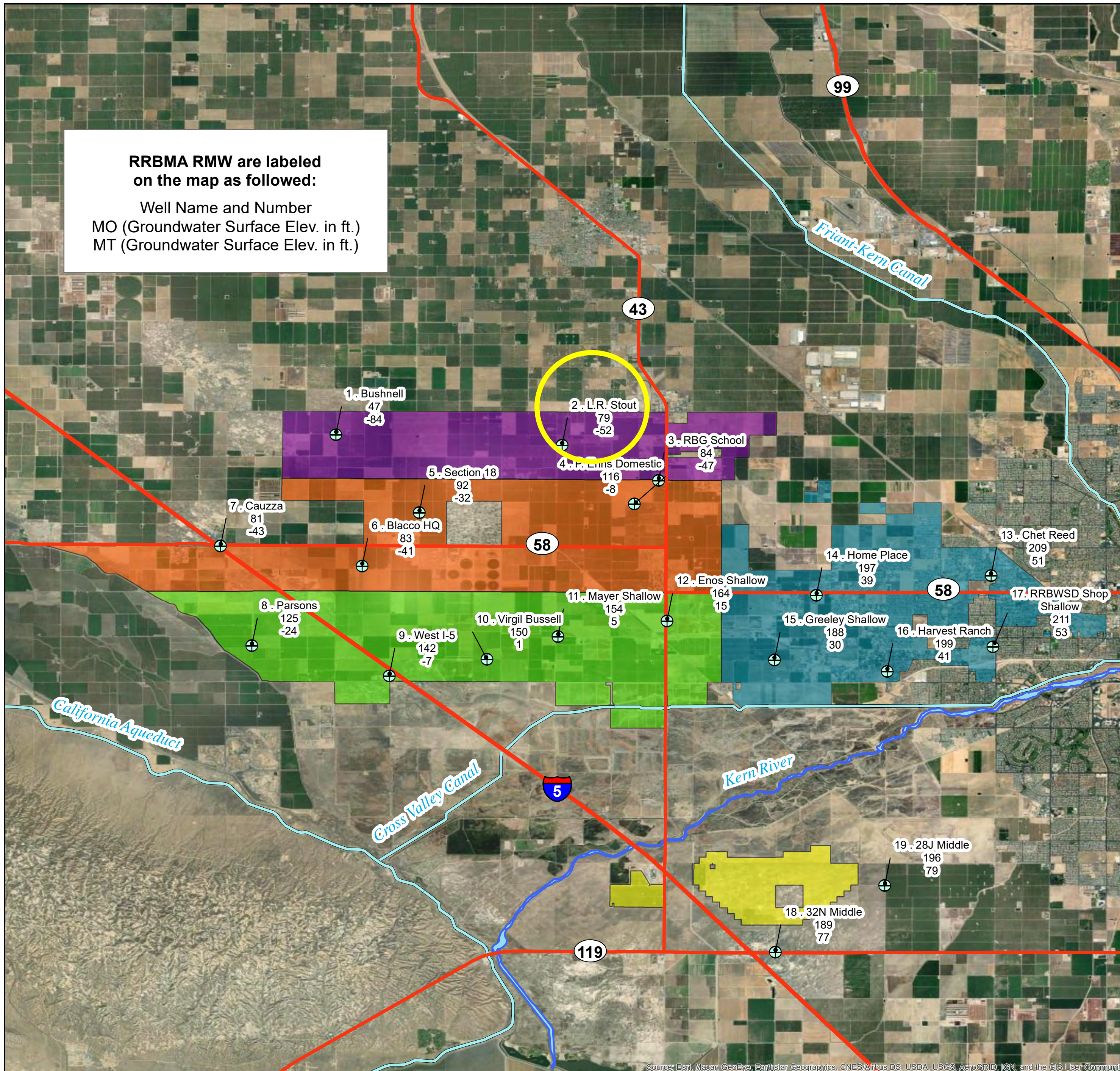
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Rosedale-Rio Bravo Water Storage District - Bushnell - 354350N1193586W001



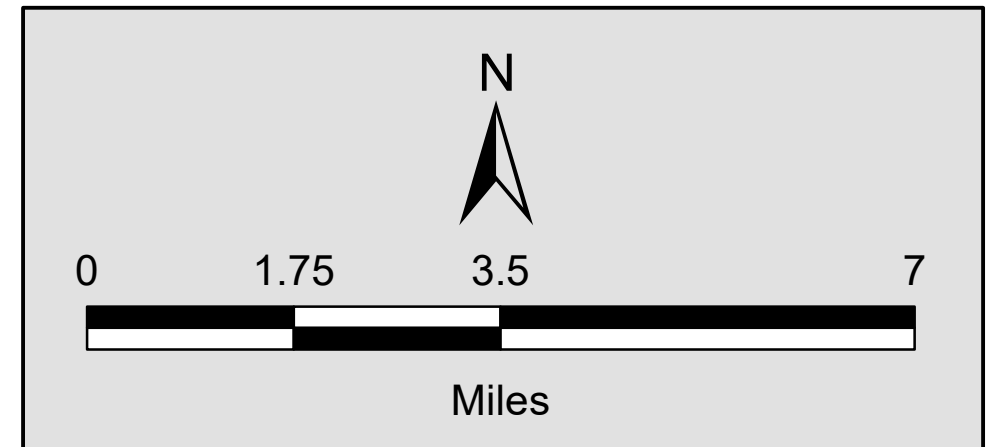
RRBMA Monitoring Areas - RMW Water Level MOs and MTs



Legend

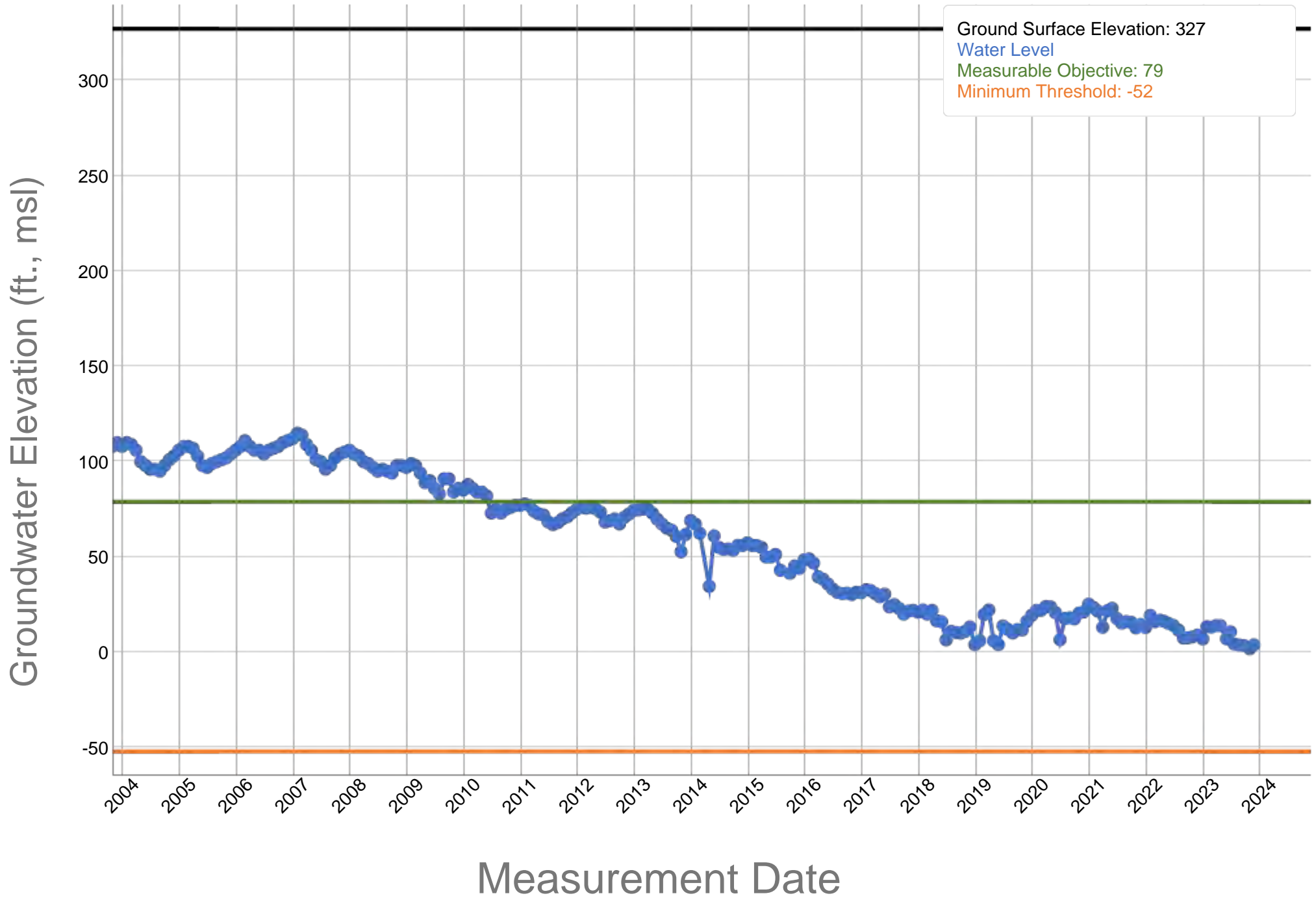
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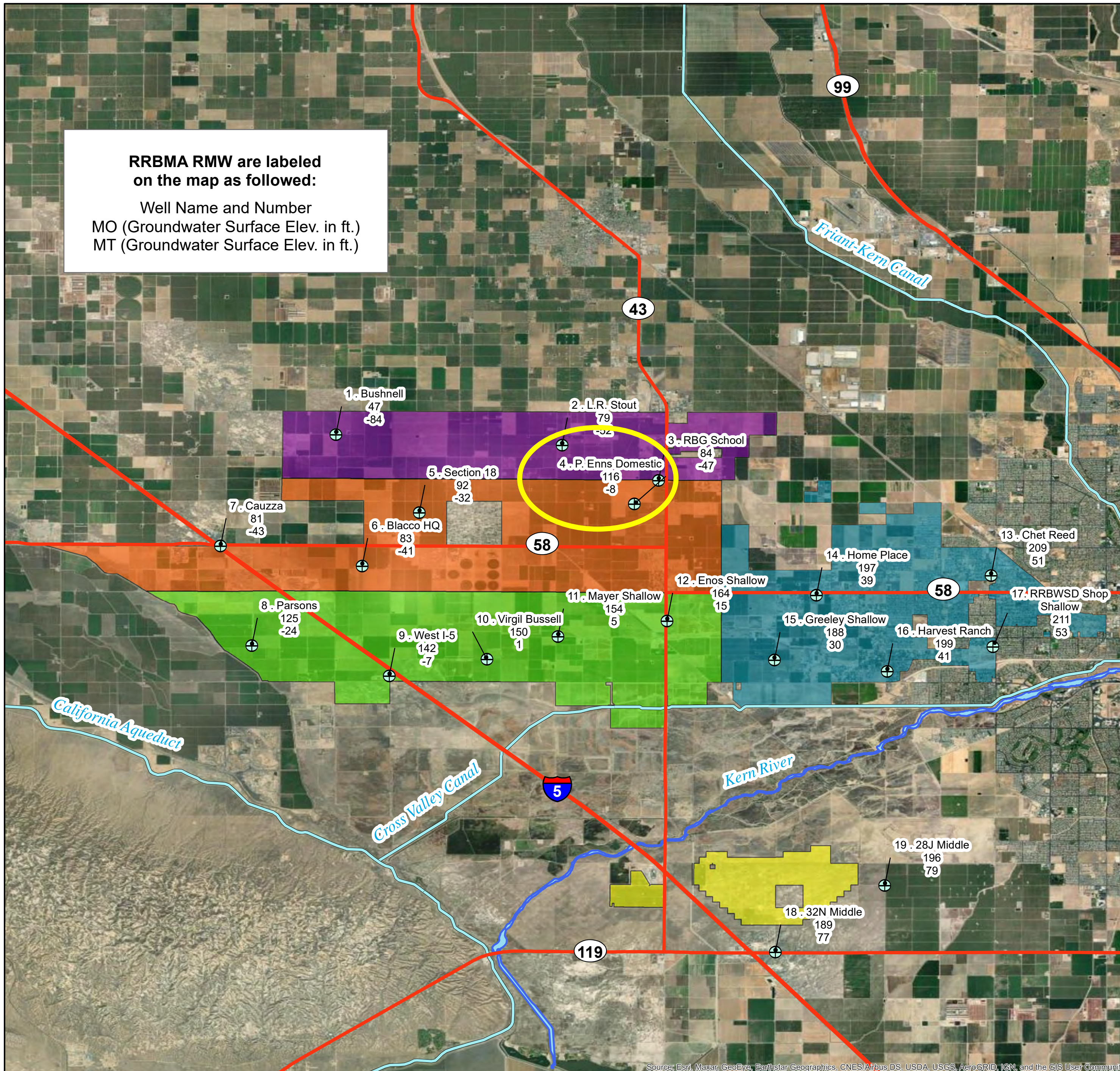


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Rosedale-Rio Bravo Water Storage District - L.R. Stout - 354309N1192859W001



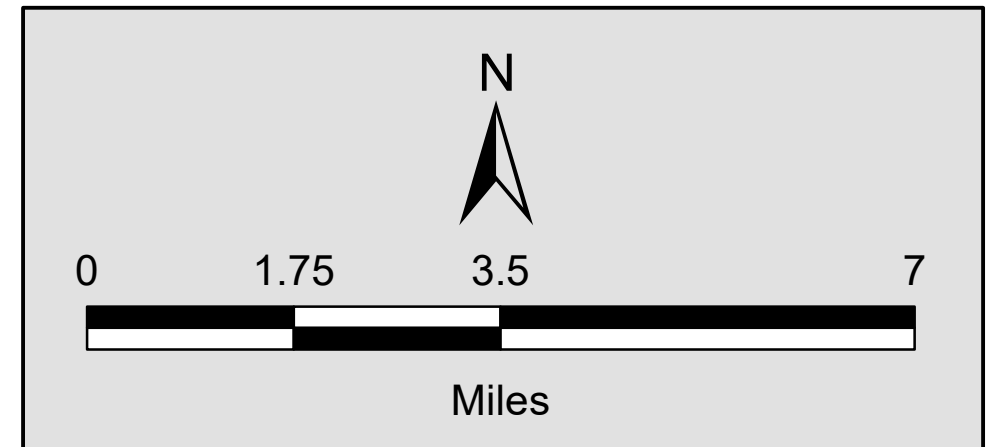
RRBMA Monitoring Areas - RMW Water Level MOs and MTs



Legend

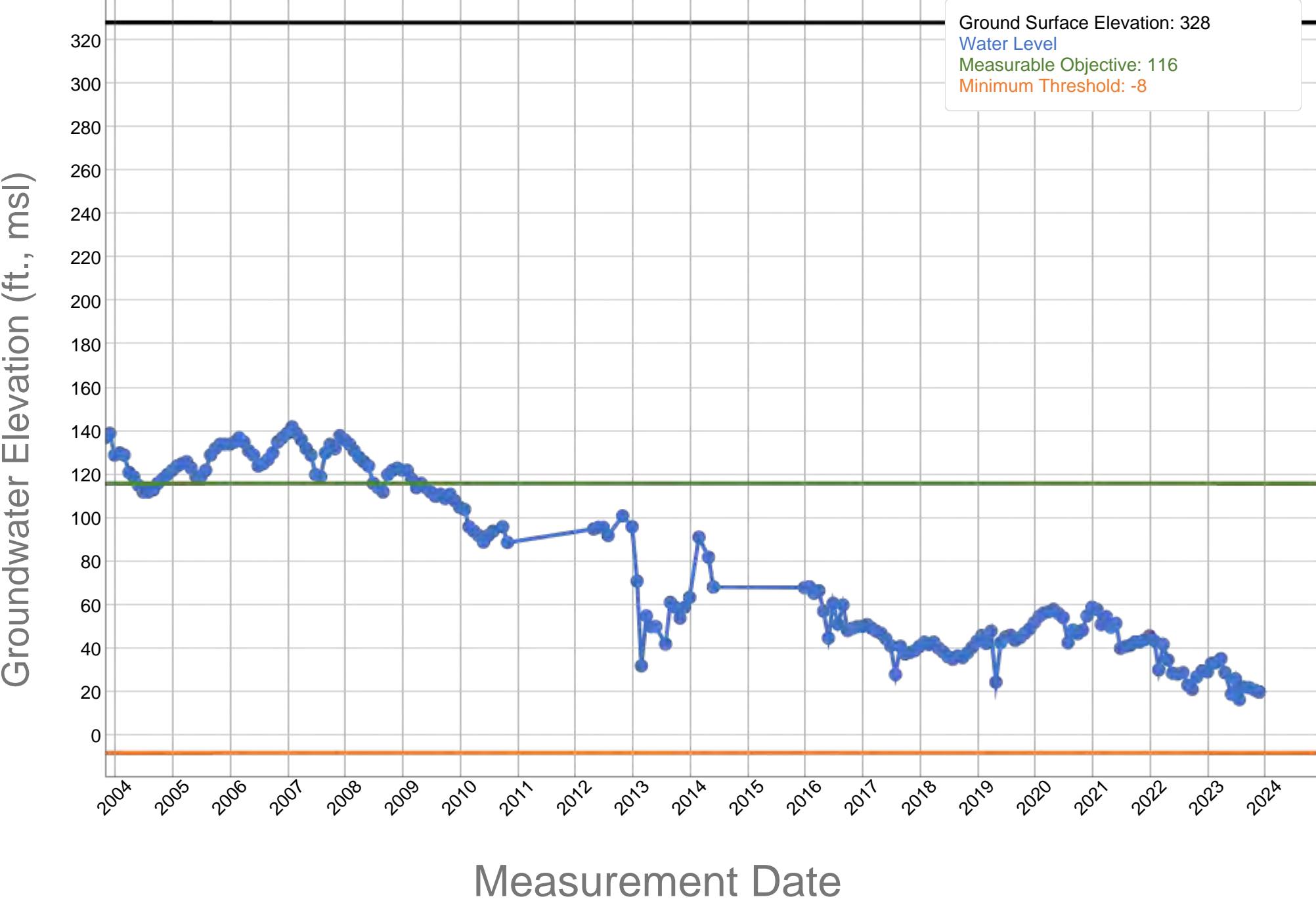
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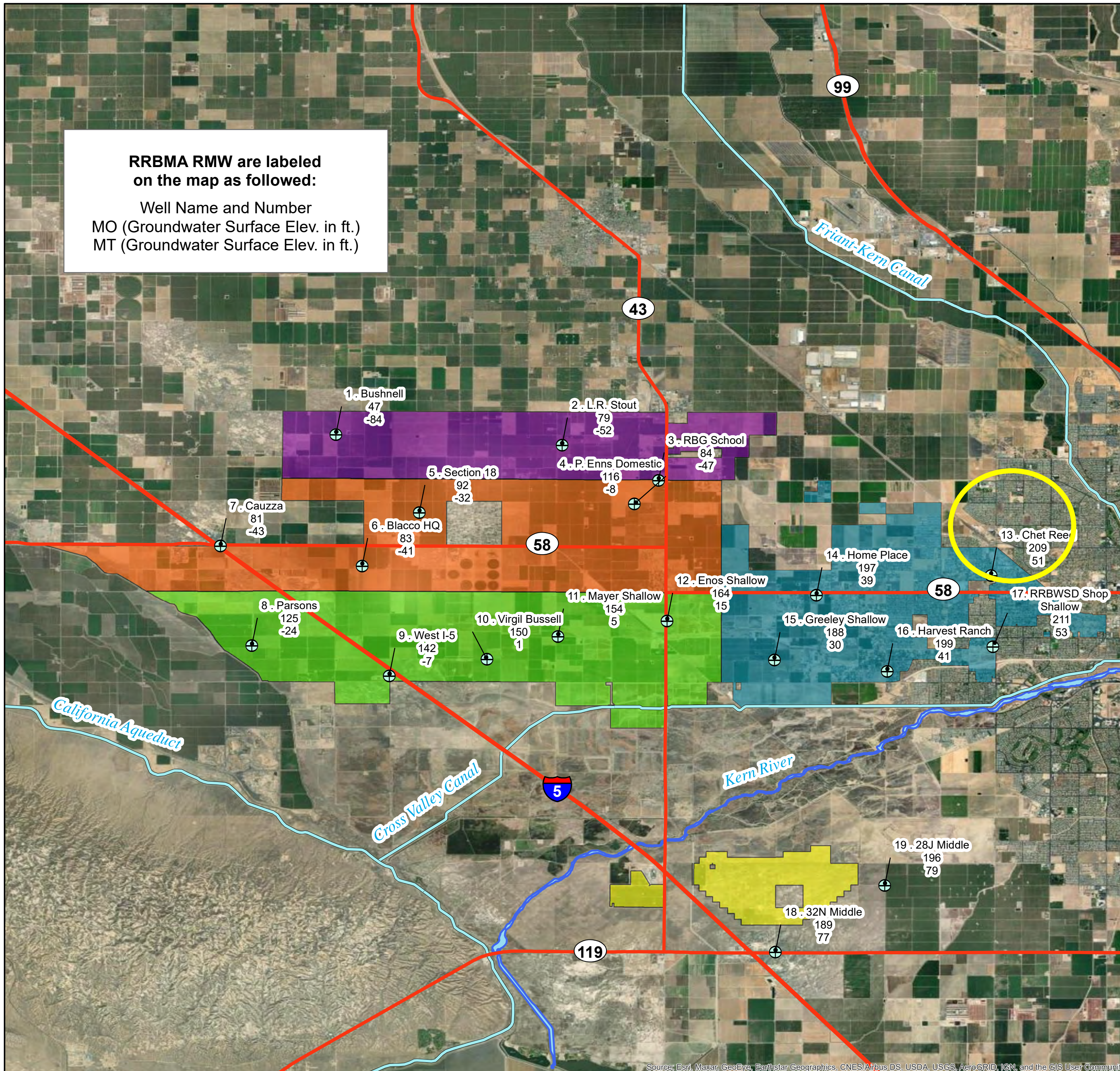


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Rosedale-Rio Bravo Water Storage District - P. Enns Domestic - 354121N1192623W001



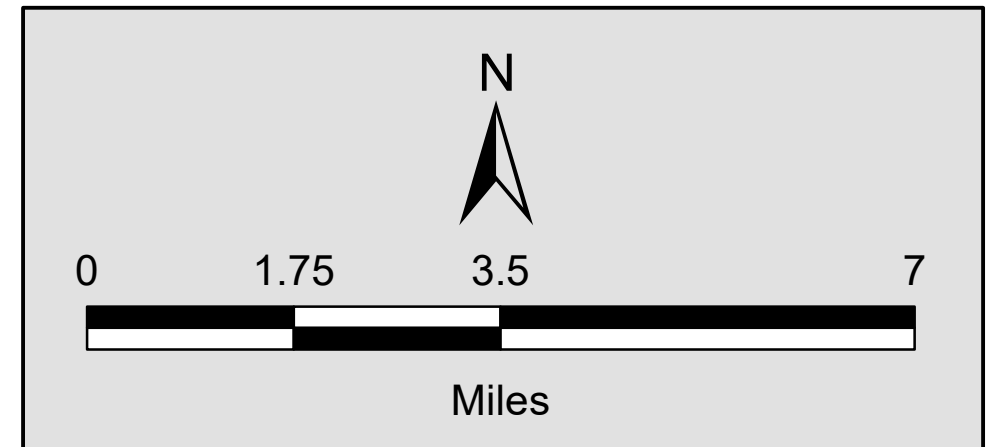
RRBMA Monitoring Areas - RMW Water Level MOs and MTs



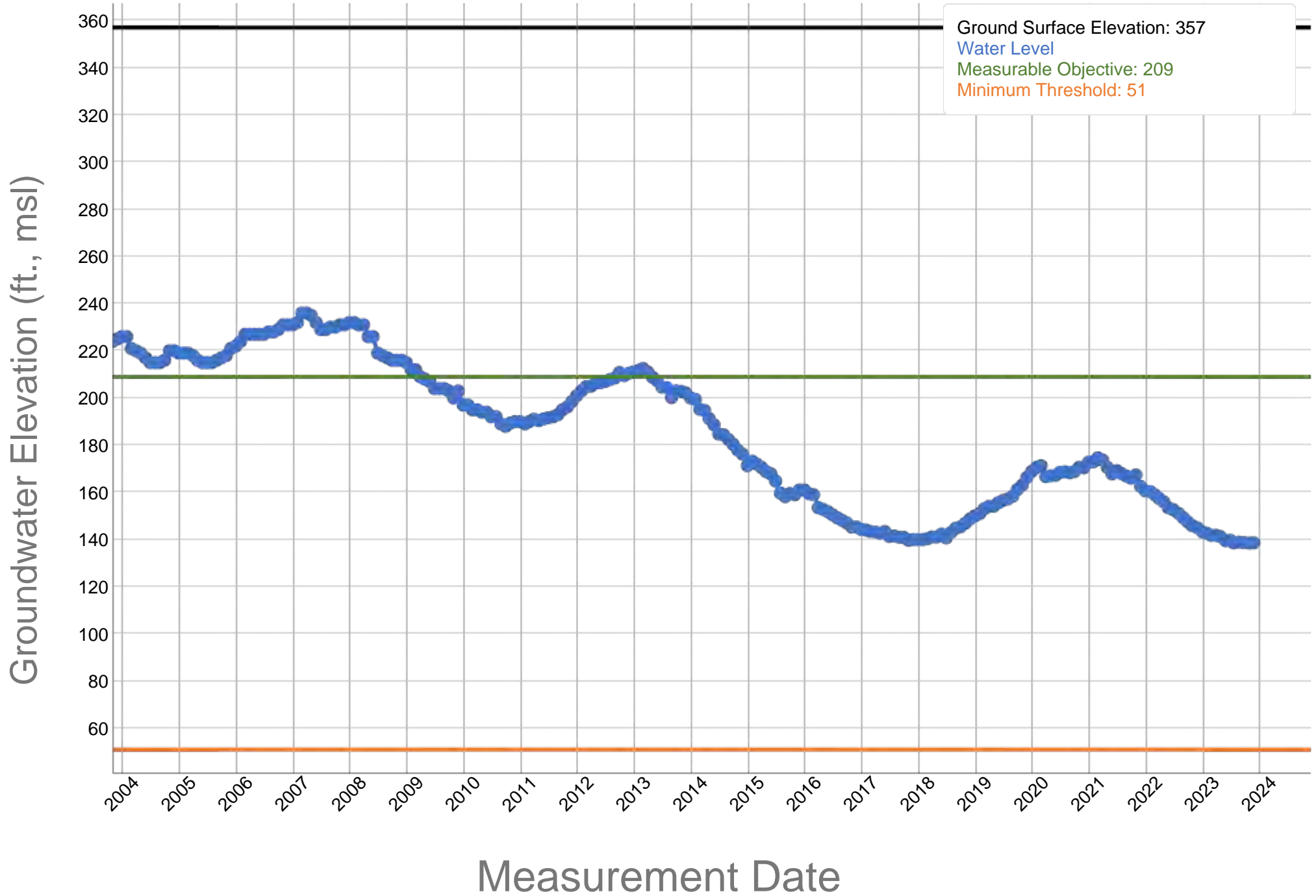
Legend

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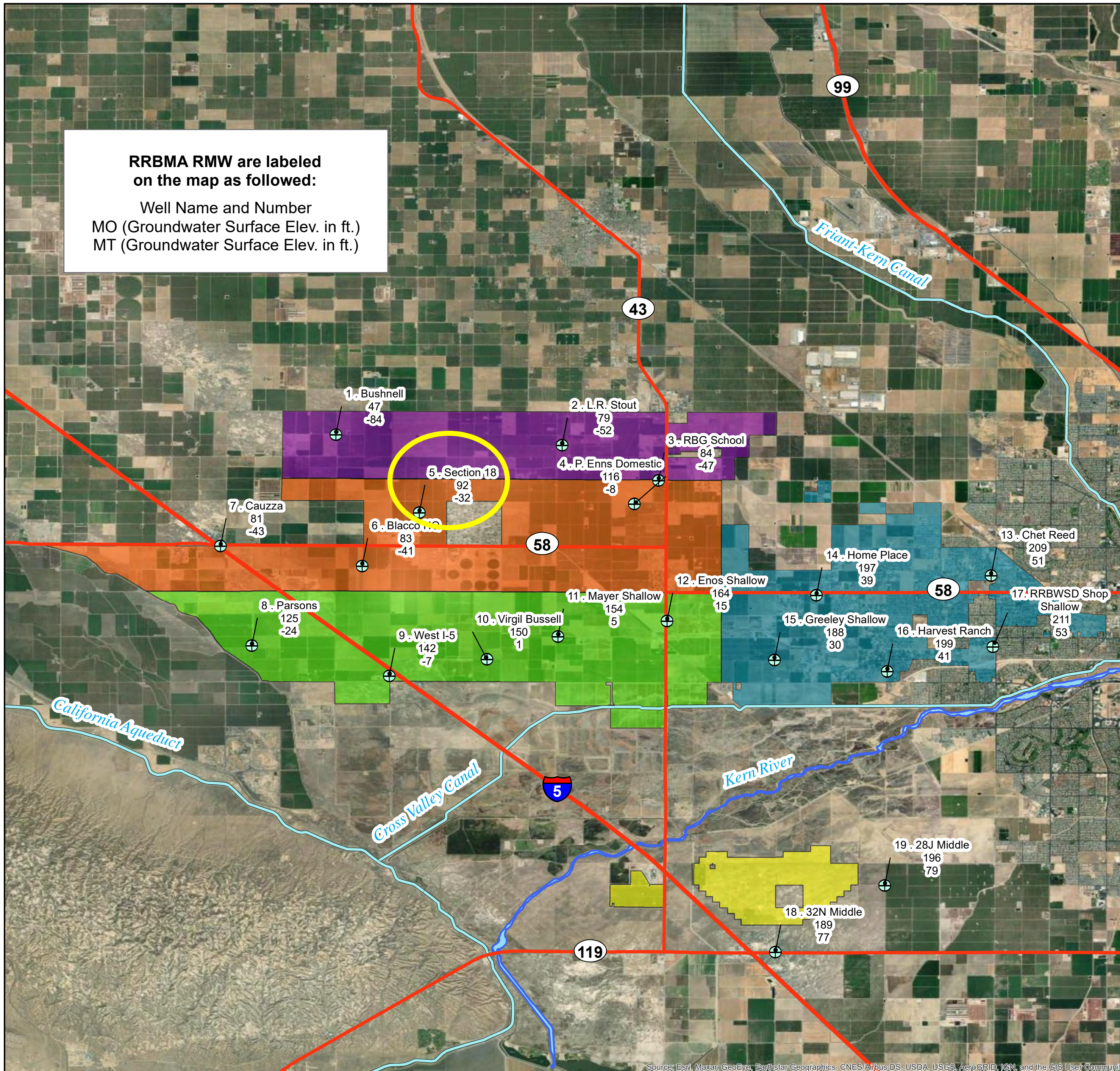
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Rosedale-Rio Bravo Water Storage District - Chet Reed - 353890N1191471W001



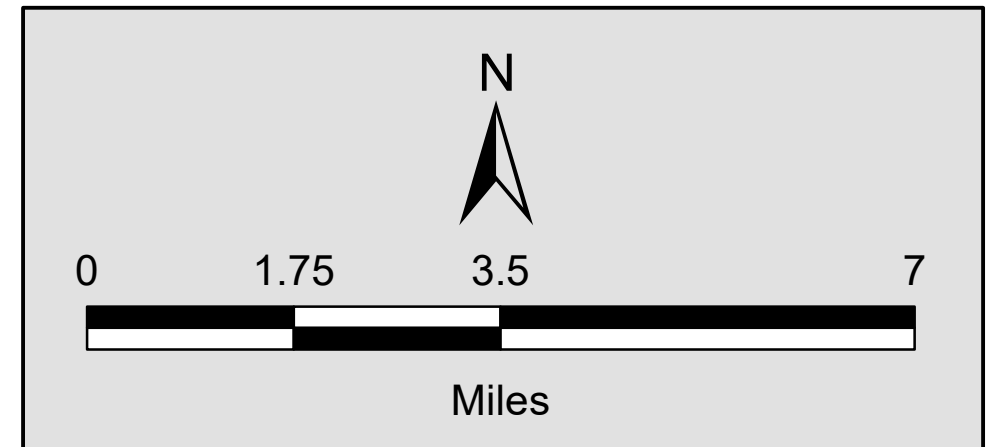
RRBMA Monitoring Areas - RMW Water Level MOs and MTs



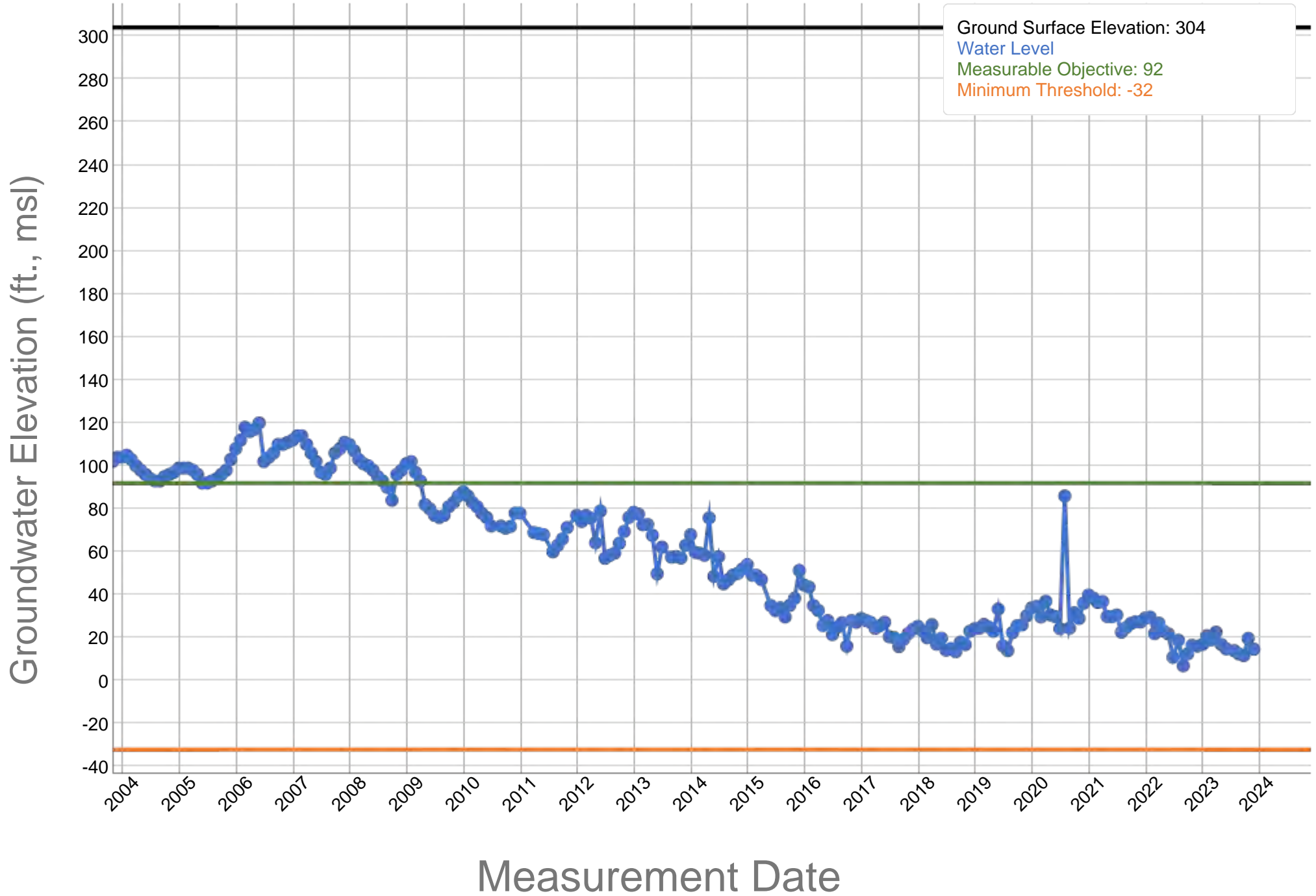
Legend

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- East Monitoring Area
- South of the River Monitoring Area

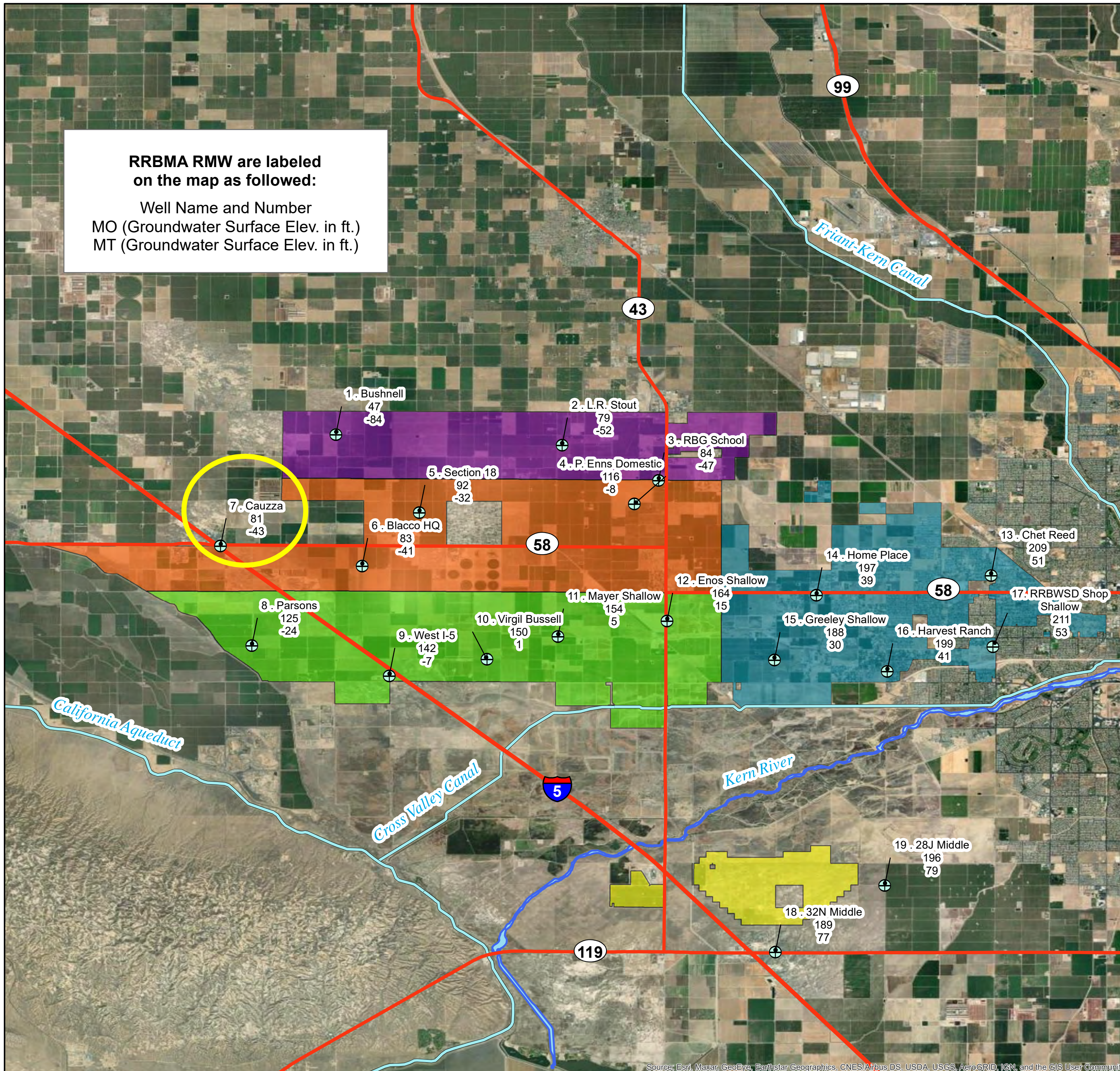
*RMW = Representative Monitoring Well
MO = Measurable Objective
MT = Minimum Threshold*



Rosedale-Rio Bravo Water Storage District - Section 18 - 354090N1193318W001



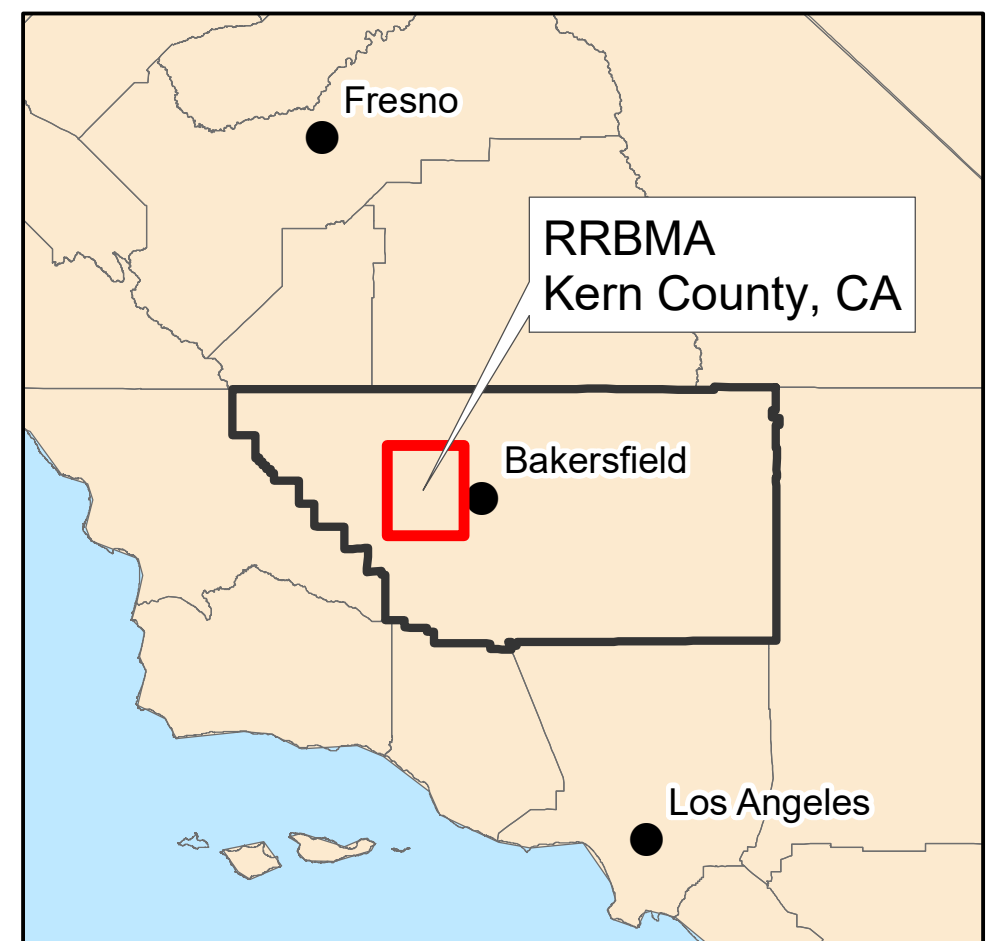
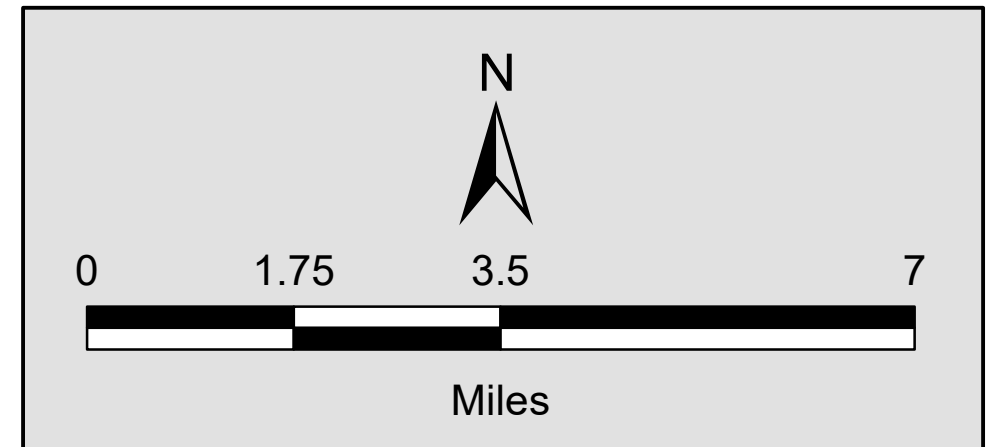
RRBMA Monitoring Areas - RMW Water Level MOs and MTs



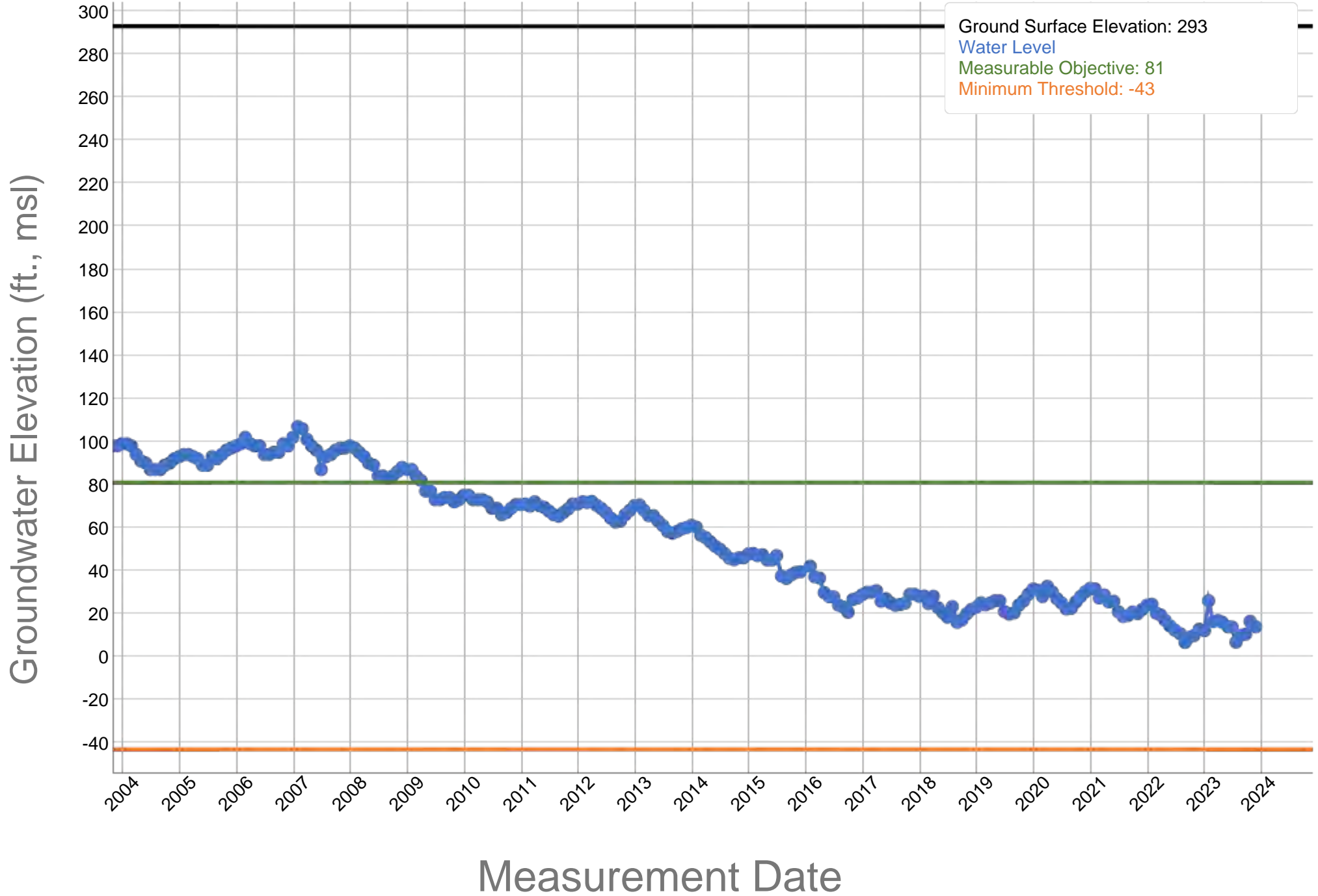
Legend

- ⊕ RRBMA RMW (Water Level)
- Major Highways
- Major Conveyance Facilities
- Kern River
- North Monitoring Area
- Central Monitoring Area
- South Monitoring Area
- East Monitoring Area
- South of the River Monitoring Area

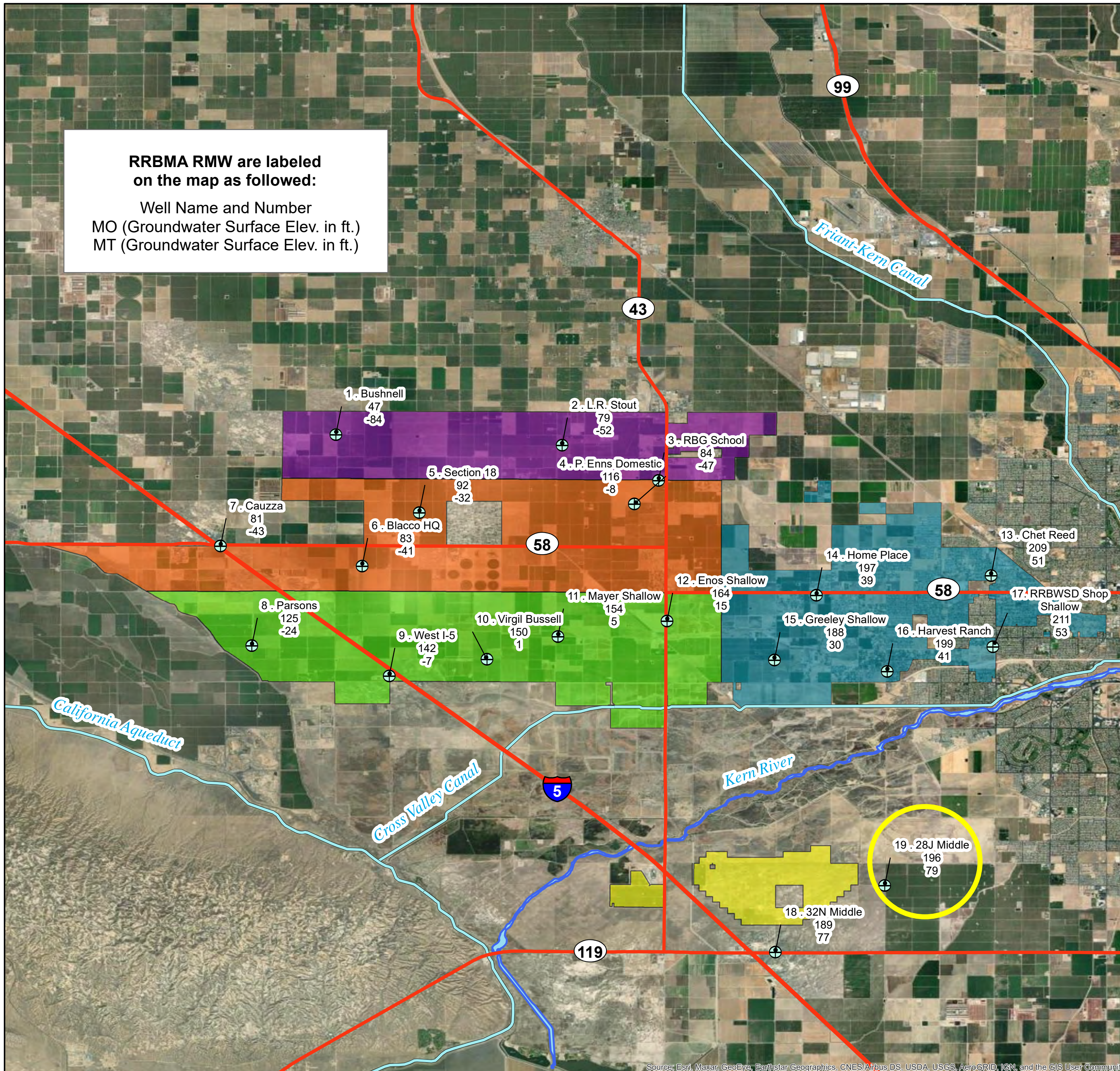
*RMW = Representative Monitoring Well
MO = Measurable Objective
MT = Minimum Threshold*



Rosedale-Rio Bravo Water Storage District - Cauzza - 353986N1193948W001



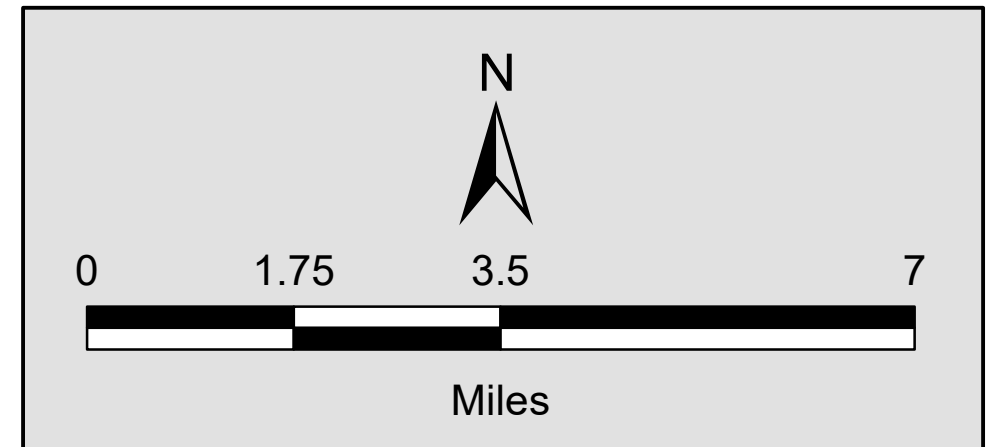
RRBMA Monitoring Areas - RMW Water Level MOs and MTs



Legend

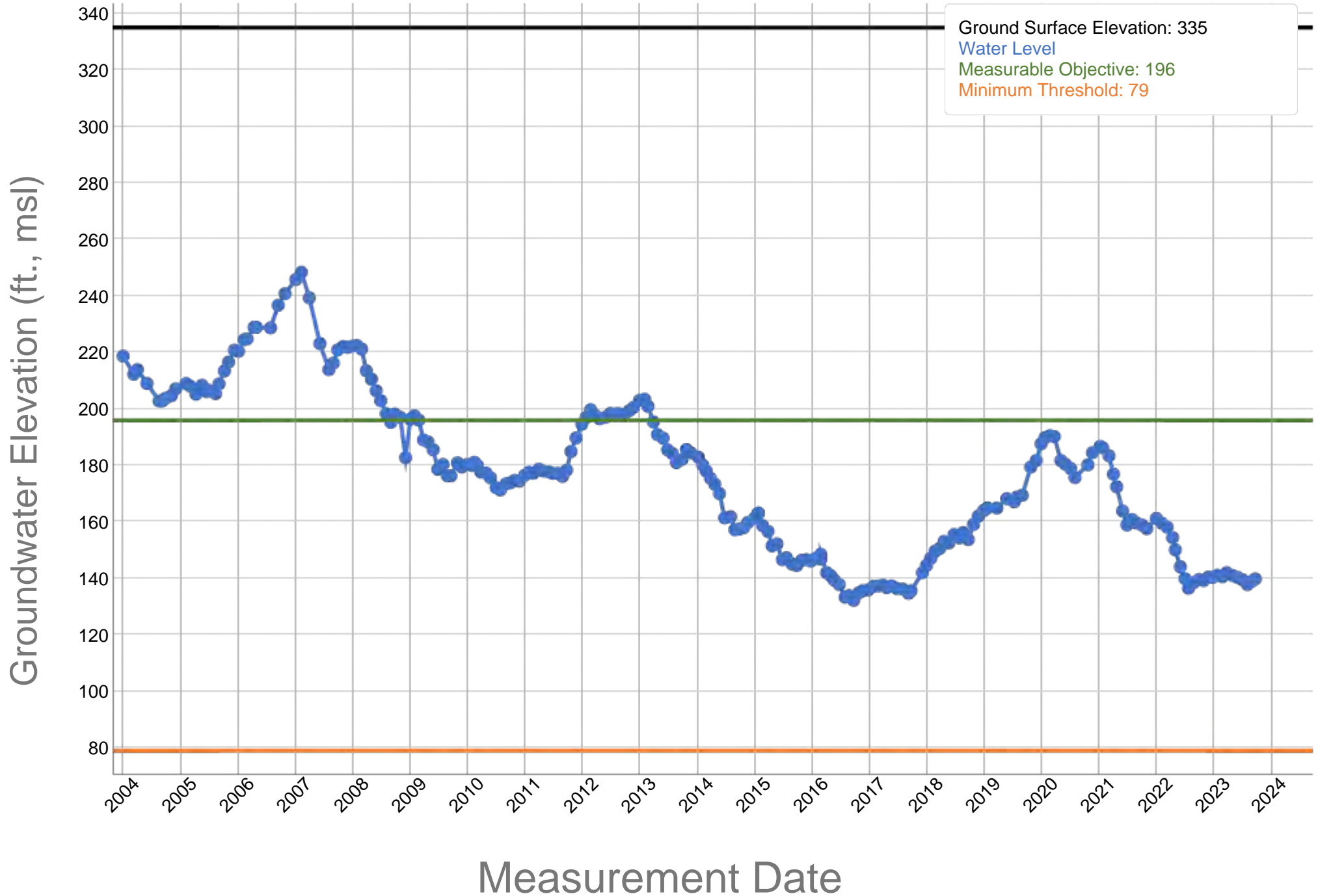
- ⊕ RRBMA RMW (Water Level)
- Major Highways
- Major Conveyance Facilities
- Kern River
- North Monitoring Area
- Central Monitoring Area
- South Monitoring Area
- East Monitoring Area
- South of the River Monitoring Area

*RMW = Representative Monitoring Well
MO = Measurable Objective
MT = Minimum Threshold*

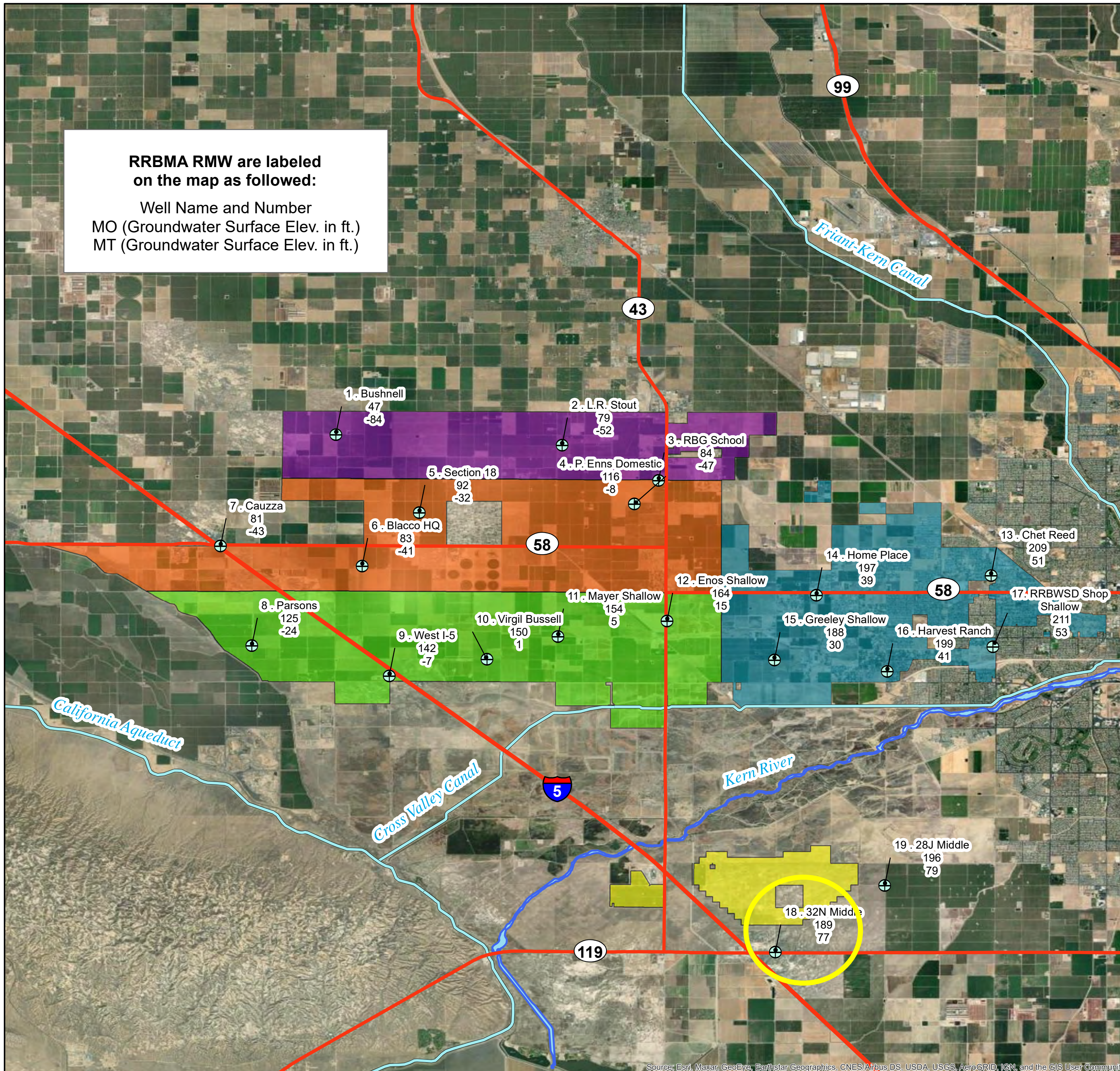


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Rosedale-Rio Bravo Water Storage District - 28J Triple - 352889N1191814W001



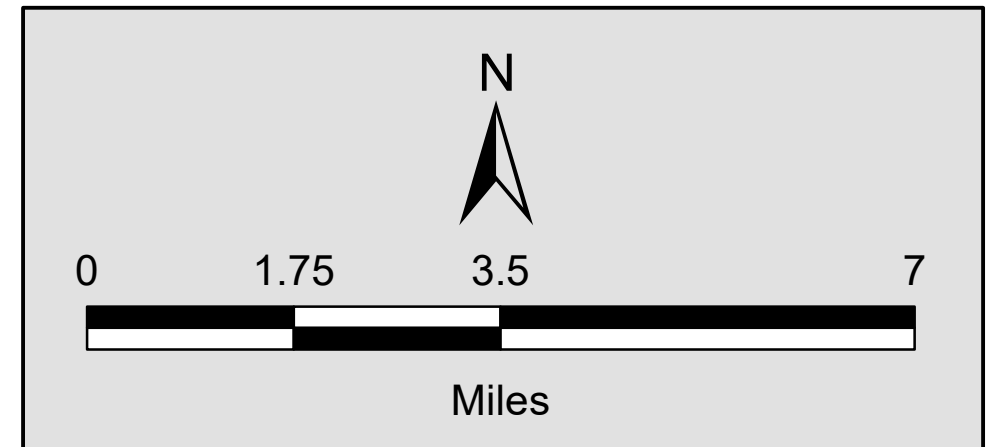
RRBMA Monitoring Areas - RMW Water Level MOs and MTs



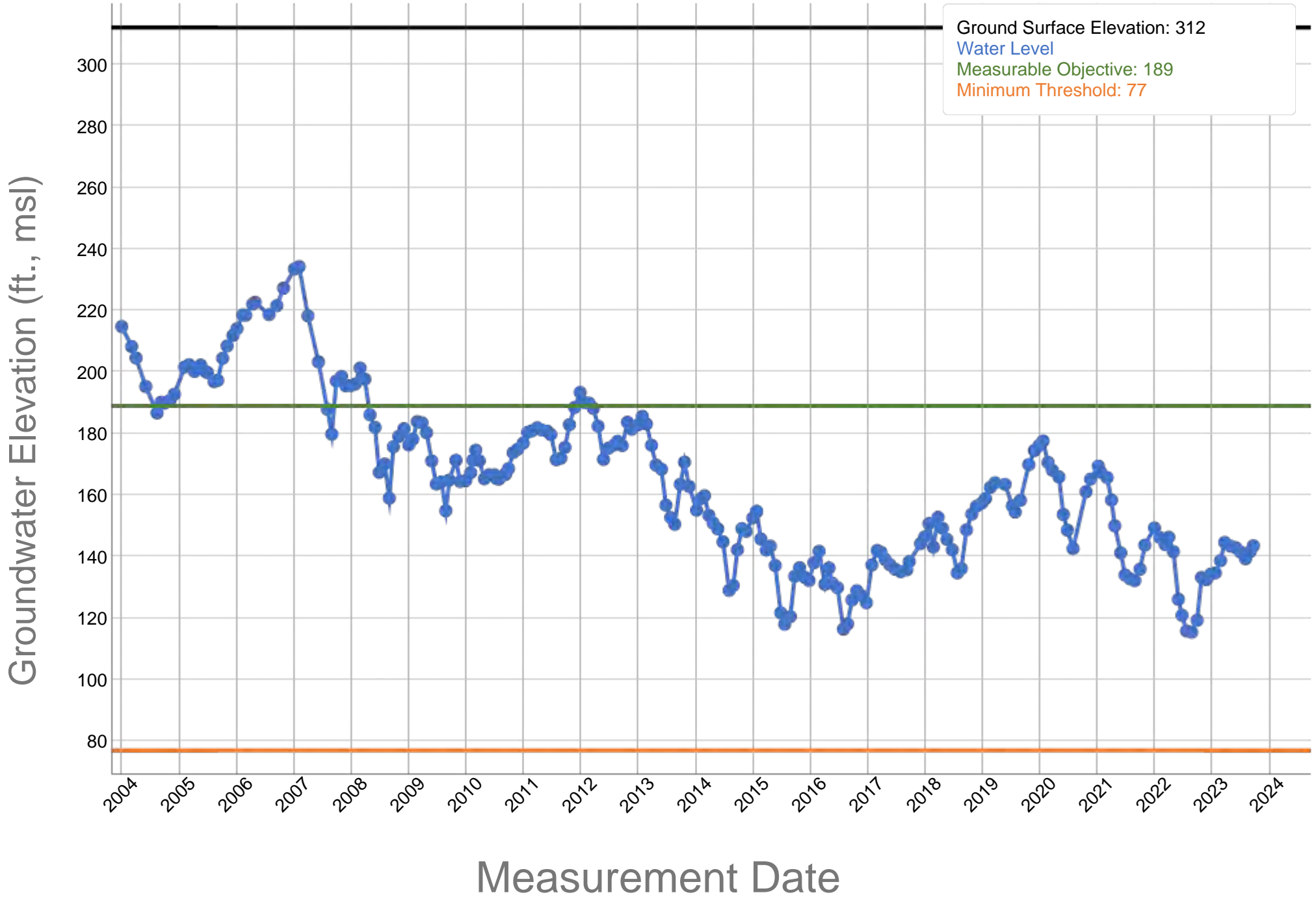
Legend

- ⊕ RRBMA RMW (Water Level)
- Major Highways
- Major Conveyance Facilities
- Kern River
- North Monitoring Area
- Central Monitoring Area
- South Monitoring Area
- East Monitoring Area
- South of the River Monitoring Area

*RMW = Representative Monitoring Well
 MO = Measurable Objective
 MT = Minimum Threshold*



Rosedale-Rio Bravo Water Storage District - 32N Triple - 352673N1192138W002



**ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT
DRAFT RECHARGE DELIVERIES
2023**

Delivery Point	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	Total
Kern River Intake	556	159	8,180	19,259	20,906	16,052	11,706	10,235	10,108	12,962	3,328		113,451
RRB Turnout No. 2	458	5,895	10,243	2,547	3,771	3,386	655	1,884	6,030	6,089	11,524		52,482
Central Intake	0	0	661	5,219	2,172	1,948	5,553	6,605	2,253	0	0		24,411
RRB Turnout No. 1	0	1,312	2,922	4,517	579	2,739	6,248	5,435	4,963	5,399	5,150		39,264
North Strand	0	0	4,165	4,501	4,155	4,115	3,989	3,011	2,904	2,539	1,065		30,444
South Strand	0	0	2,803	3,061	1,914	1,513	1,621	1,360	1,307	1,020	506		15,105
Stockdale West	0	0	3,719	4,505	2,628	1,815	1,603	1,954	1,521	1,579	1,350		20,674
RRB Westside In-Lieu	0	0	69	144	406	637	565	604	400	100	0		2,925
Grimmway Pilot	0	0	0	0	81	2,138	2,104	23	0	0	0		4,346
Pioneer Project	2,588	1,228	4,622	3,092	5,510	5,042	4,330	3,800	4,263	3,500	3,370		41,345
ID4 Exchange	0	0	1,187	979	0	0	0	0	0	0	0		2,166
TOTALS >	3,602	8,594	38,571	47,824	42,122	39,385	38,374	34,911	33,749	33,188	26,293	0	346,613

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

FROM: Zach Smith

DATE: December 12, 2023

RE: Maintenance Report

Discussion:

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

- Staff cleared old debris from pole barn located on West Superior.
 - Multiple trips to dump
 - Scrap metal to recycling
- Storage area west of office building cleaned and reorganized.
- Tractor with flail used to clean areas around West Enos.
- Hand-cleaned weeds along fence at Stockdale East and Strand.
- Backhoe used to repair multiple leaks and levees throughout District.
- Staff completed monthly cleaning of electrical panels on recovery wells.

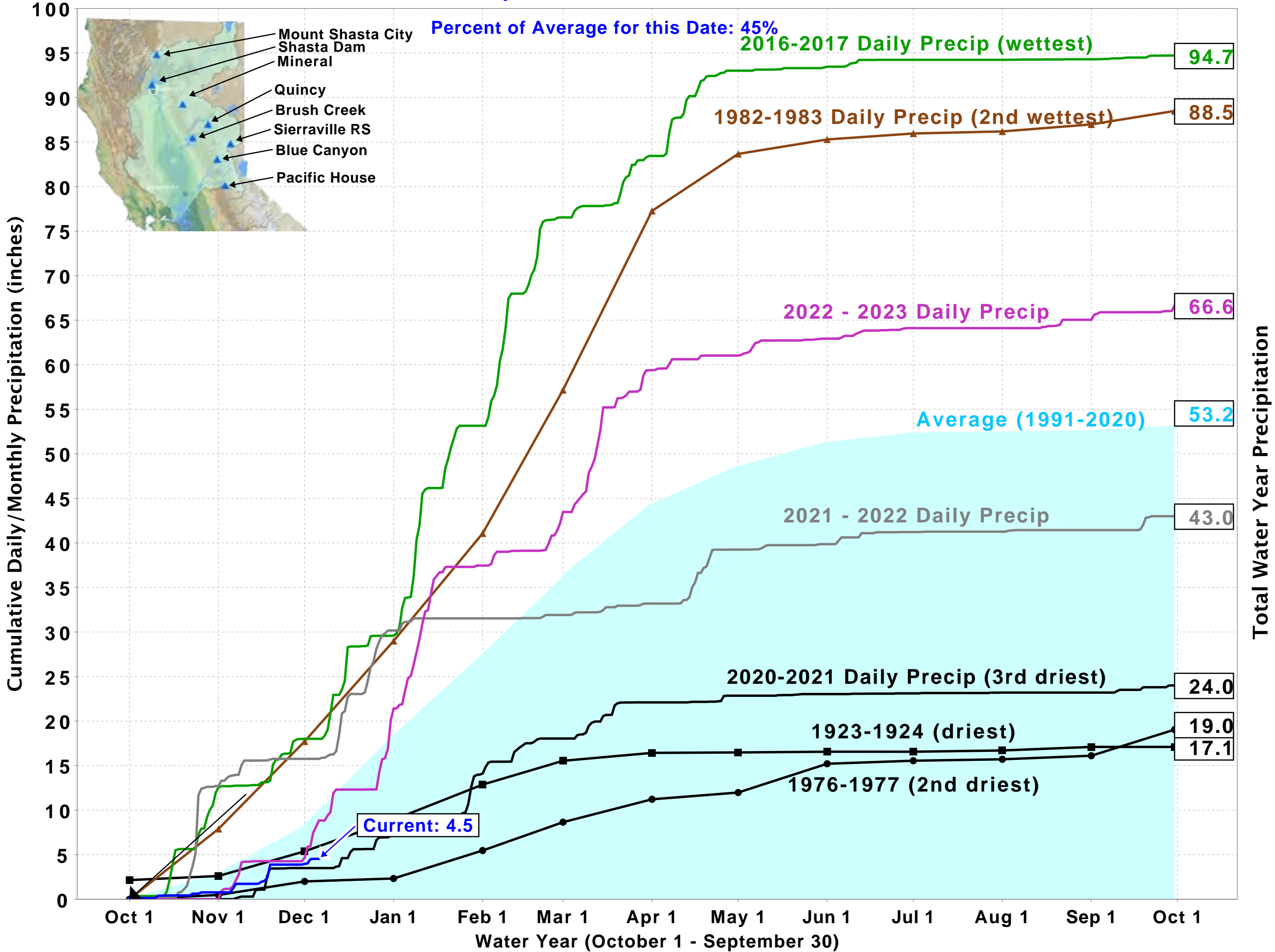


West Superior Cleanup

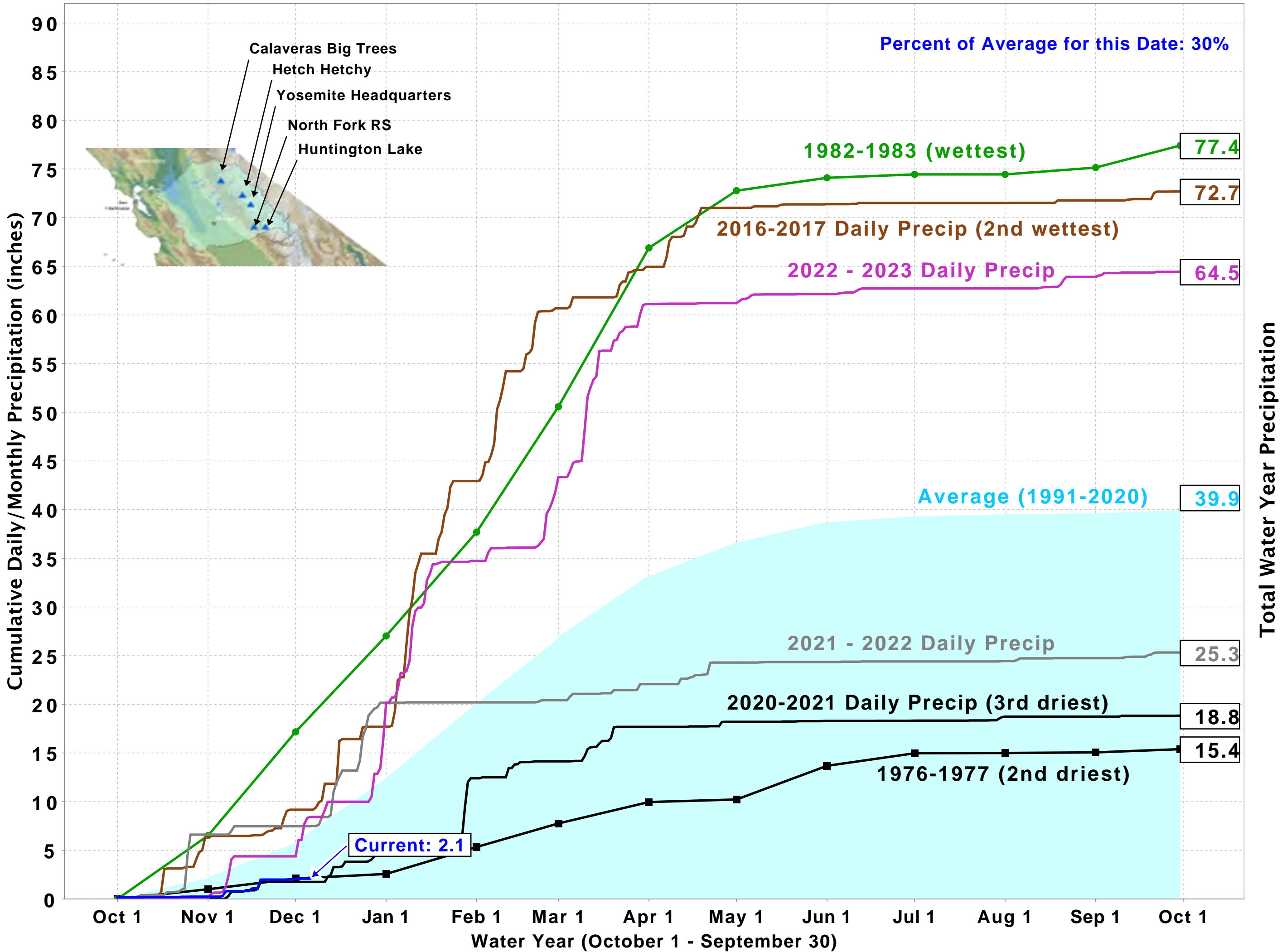


West Enos Cleaning

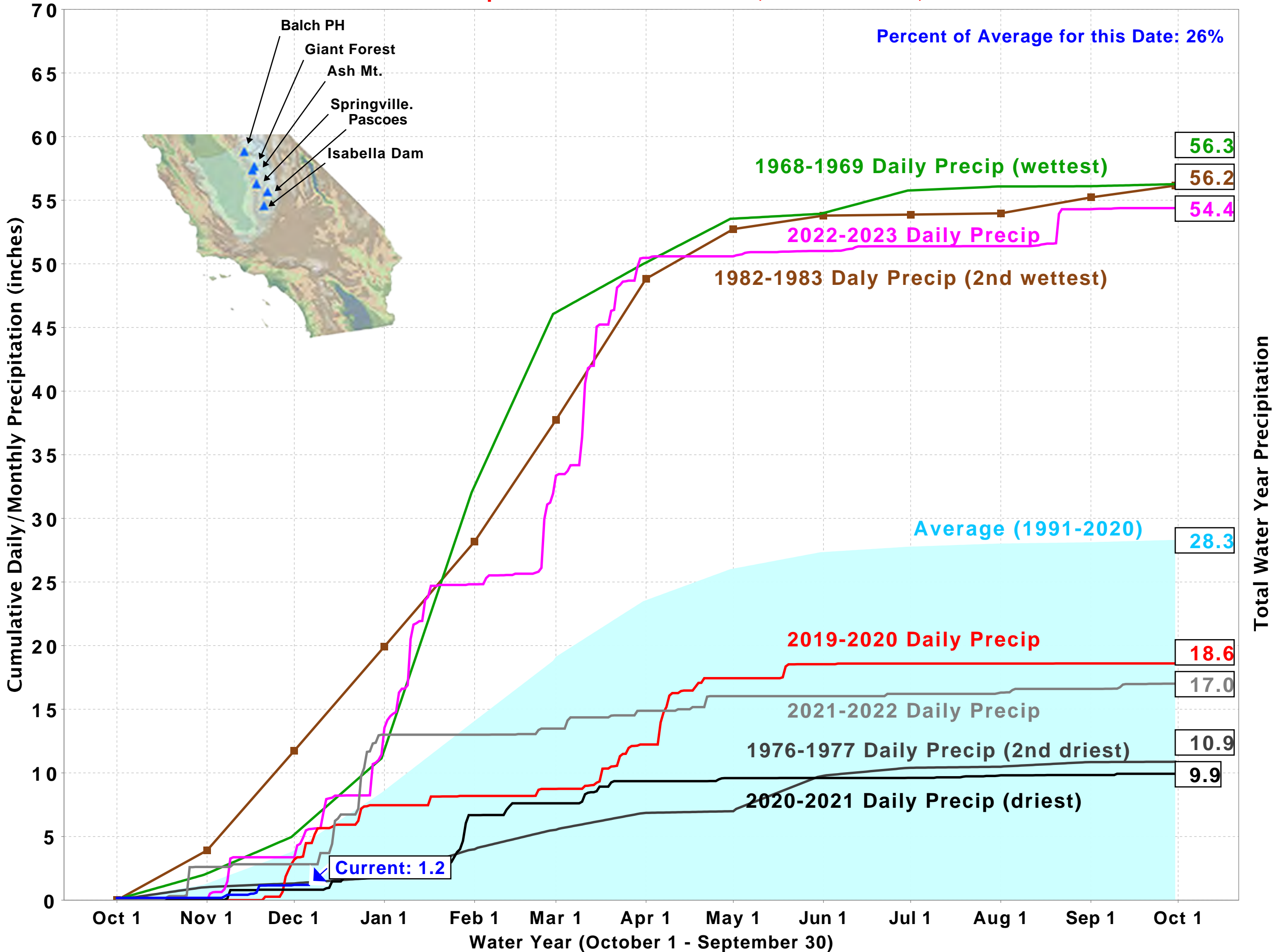
Northern Sierra Precipitation: 8-Station Index, December 06, 2023



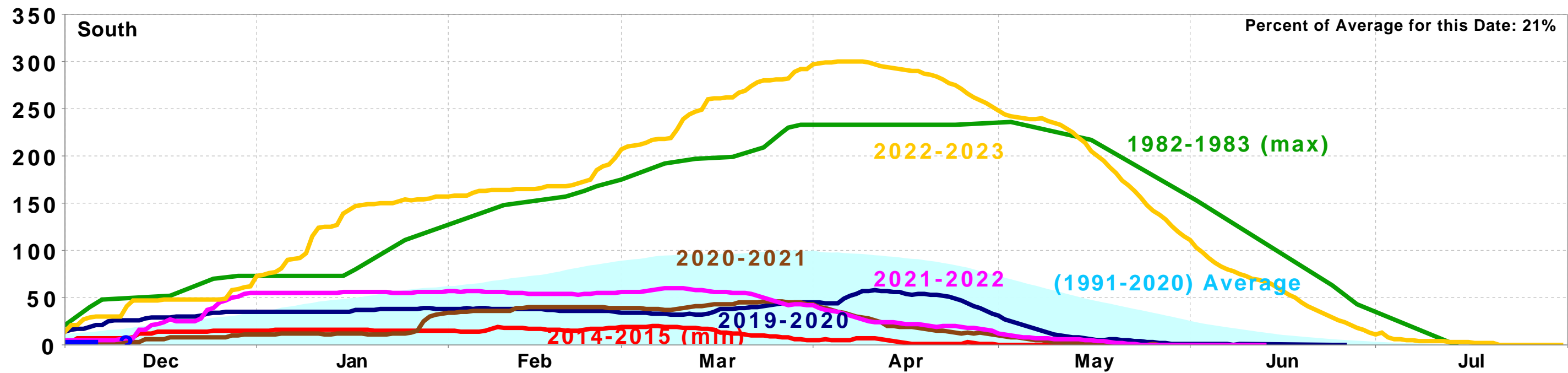
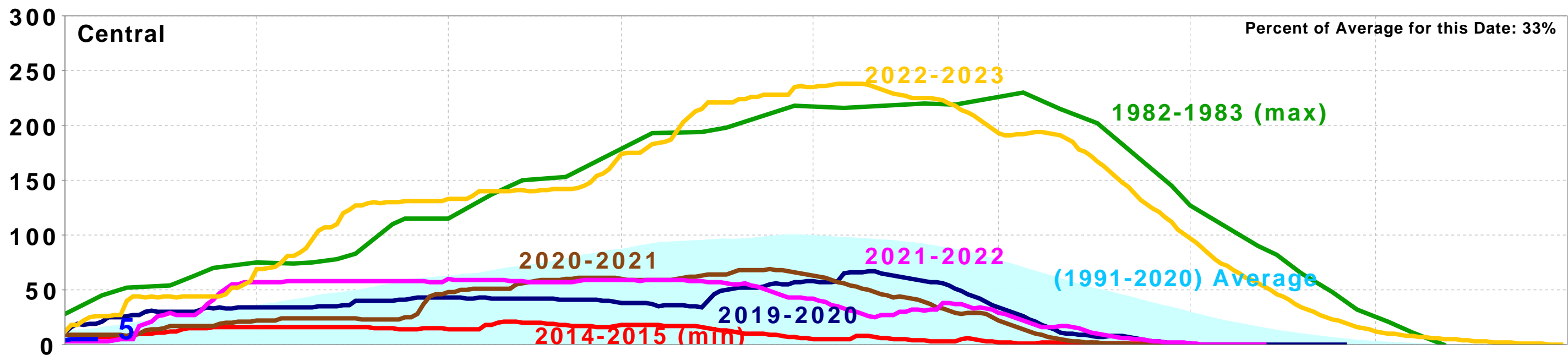
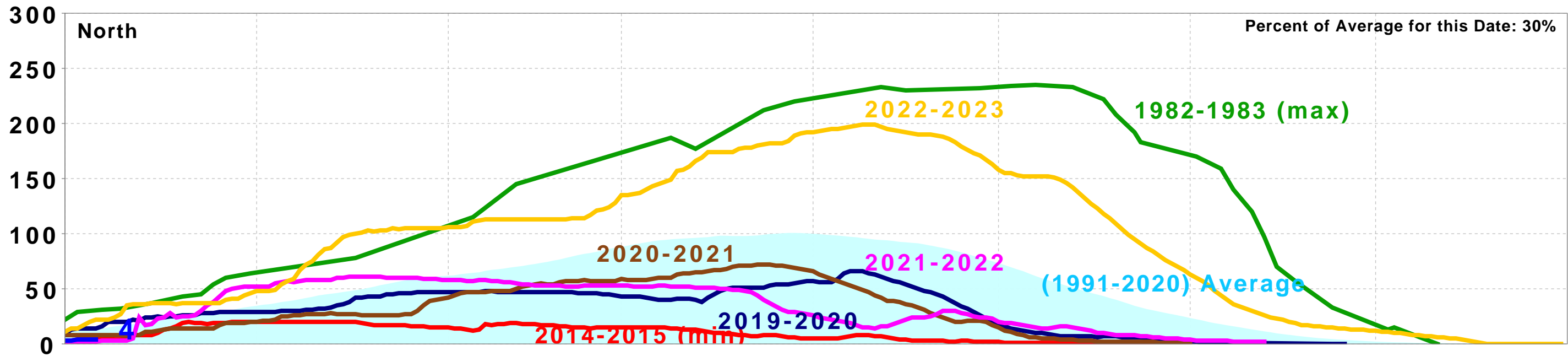
San Joaquin Precipitation: 5-Station Index, December 06, 2023



Tulare Basin Precipitation: 6-Station Index, December 06, 2023



California Snow Water Content, December 6, 2023, Percent of April 1 Average



Statewide Percent of April 1: 4%

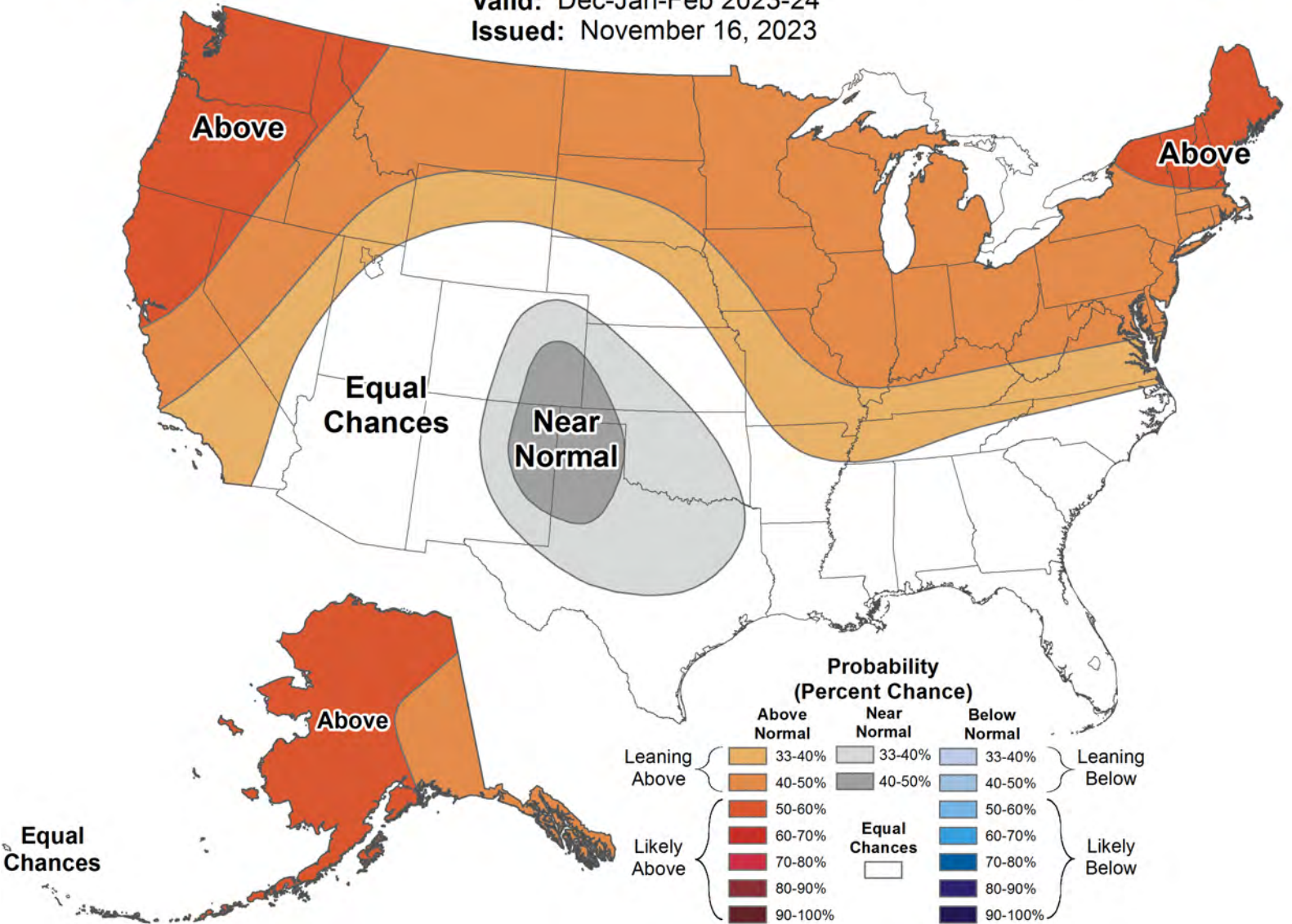
Statewide Percent of Average for Date: 28%



Seasonal Temperature Outlook



Valid: Dec-Jan-Feb 2023-24
Issued: November 16, 2023



10-Day Feather Basin Quantitative Precipitation Forecast (QPF)

Monday, December 4, 2023

(each day ends at 0400 PST)

Day No.	Date	Precip (inches)	Snow Level (ft)	Average Daily*		
				Precip (inches)	Snow Depth (inches)	Min Temp (°F)
	Saturday, November 25, 2023	0.0	5500			
	Sunday, November 26, 2023	0.0	6000			
	Monday, November 27, 2023	0.0	7500			
	Tuesday, November 28, 2023	0.0	8500			
	Wednesday, November 29, 2023	0.0	6000			
	Thursday, November 30, 2023	0.0	5000			
	Friday, December 1, 2023	0.0	3500			
	Saturday, December 2, 2023	0.6	3500			
	Sunday, December 3, 2023	0.1	5500			
	Monday, December 4, 2023	0.0	7500	0.3	0.1	32.0
Total observed:		0.7				
1	Tuesday, December 5, 2023	0.0	9,500	0.3	0.1	32.0
2	Wednesday, December 6, 2023	0.0	10,000	0.2	0.2	32.2
3	Thursday, December 7, 2023	0.9	6,000	0.3	0.0	32.0
4	Friday, December 8, 2023	0.1	3,500	0.2	0.1	31.2
5	Saturday, December 9, 2023	0.0	5,500	0.2	0.0	31.2
6	Sunday, December 10, 2023	0.0	9,000	0.3	0.1	32.0
7	Monday, December 11, 2023	0.0	11,000	0.3	0.0	32.2
8	Tuesday, December 12, 2023	0.0	9,500	0.3	0.3	31.0
9	Wednesday, December 13, 2023	0.0	9,500	0.2	0.1	30.8
10	Thursday, December 14, 2023	0.0	10,500	0.3	0.1	30.8
11	Friday, December 15, 2023	0.0	10,500	0.2	0.0	31.2
10-Day Total:		1.0		2.6		
10-Day Percent of Normal:		38%				
Accumulated Observed Precip for WY 2024:		3.2	(WY 2023: 71.0)			

Comments:

3(5% YTD Ave)

Today and tomorrow will bring temperatures with highs of 46 to 61 during the day, lows of 32 to 47 at night, and prevailing winds up to 10 mph. Wednesday and Thursday are expected to bring colder conditions, with snow levels reaching around 10,000 feet on Thursday and rain and show showers likely during the days and nights. Friday is expected to be sunny with highs 31 to 46 and lows of 19 to 34. Saturday is expected to be cloudy with highs 35 to 50, lows 26 to 41, and snow levels at around 5,500 feet.

- QPF from the CNRFC: <http://www.cnrfc.noaa.gov/awipsProducts/RNOHFSFTA.php>
- 7-Day Temp Forecast from the CNRFC: <http://www.cnrfc.noaa.gov/awipsProducts/RNOHFSFTA.php>
- 7-Day Temp Forecast from NWS, Reno: <http://www.wr.noaa.gov/cnrfc/versprod.php?pil=SFT&sid=REV&version=0>
- 7-Day Temp Forecast from NWS, Medford: <http://www.wr.noaa.gov/cnrfc/versprod.php?pil=SFT&sid=MFR&version=0>
- 7-Day Temp Forecast from NWS, Sac: <http://www.wr.noaa.gov/cnrfc/versprod.php?pil=SFT&sid=STO&version=0>
- 6 - 10 Day Forecast from CPC: <http://www.cpc.ncep.noaa.gov/products/predictions/610day/>
- 8 - 14 Day Forecast from CPC: <http://www.cpc.ncep.noaa.gov/products/predictions/814day/>
- 14-Day Precip Forecast from COLA: <http://wxmaps.org/pix/prec1.html>
- 14-Day Temp Forecast from COLA: <http://wxmaps.org/pix/temp1.html>
- Monthly Temp & Precip Outlooks from CPC: http://www.cpc.ncep.noaa.gov/products/predictions/multi_season/13_seasonal_outlooks/color/churchill.php
- 1 Month Forecast from CPC: <http://www.cpc.noaa.gov/products/predictions/30day/index.php>

* Normal daily values are the average of Western Regional Climate Center's daily records for Quincy, de Sabla, Sierraville, and Oroville. Annual average precipitation is 51".

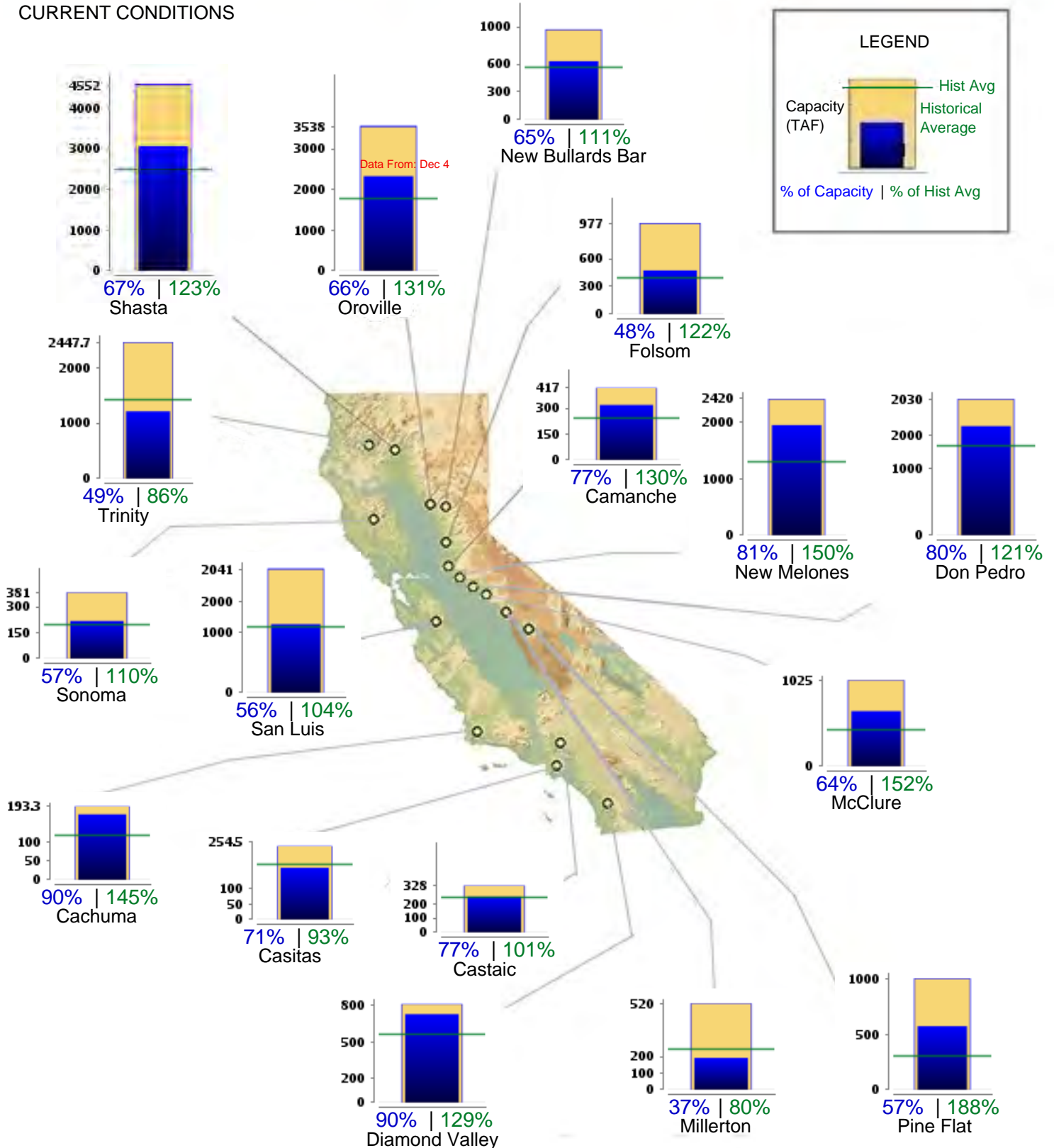


CURRENT RESERVOIR CONDITIONS

CALIFORNIA MAJOR WATER SUPPLY RESERVOIRS

Midnight - December 5, 2023

CURRENT CONDITIONS



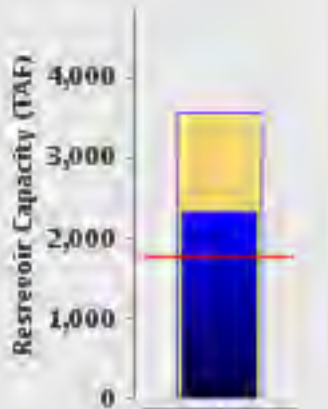


CURRENT RESERVOIR CONDITIONS

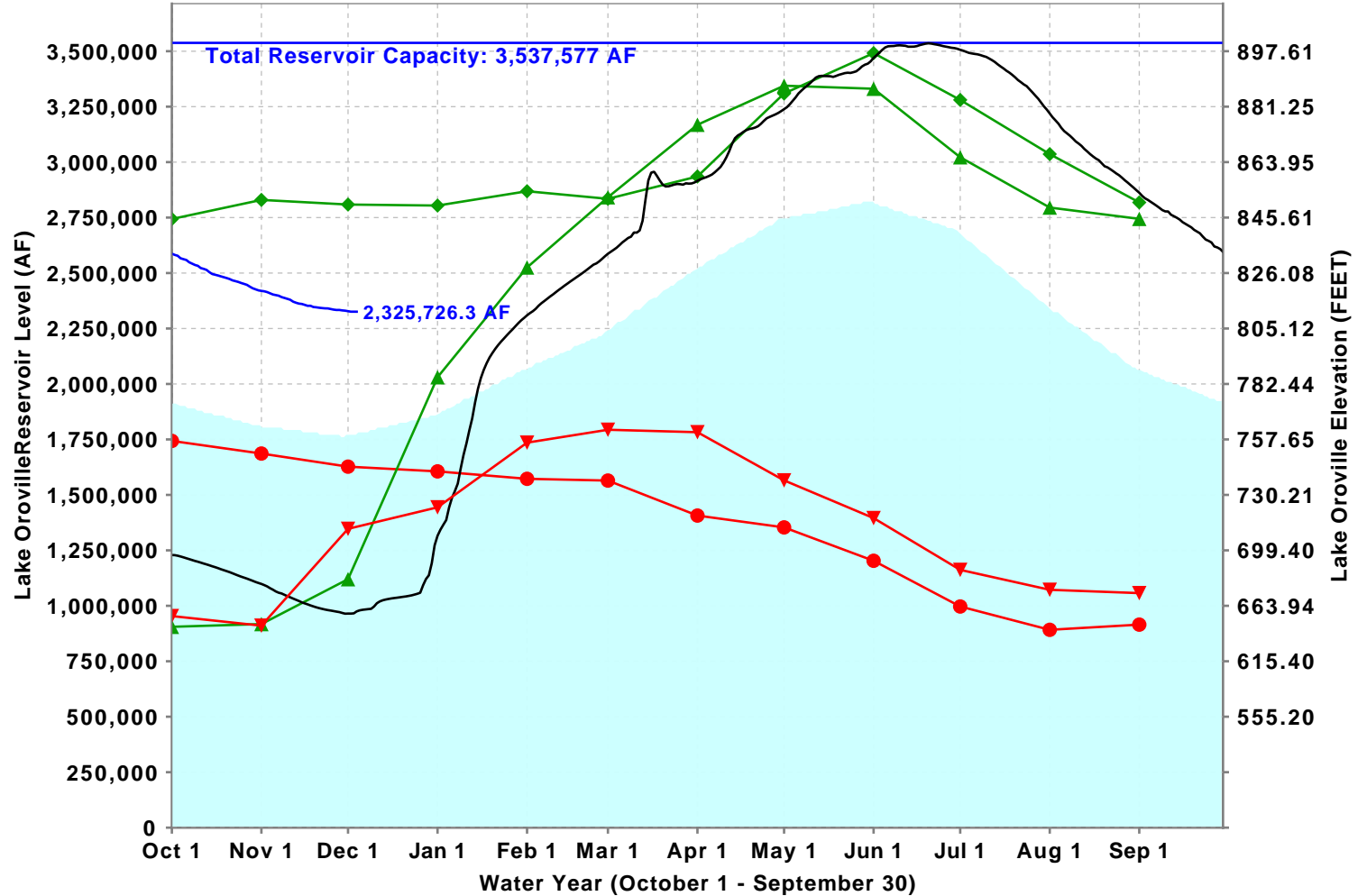


Lake Oroville Conditions

(as of Midnight - December 4, 2023)



Lake Oroville Levels: Various Past Water Years and Current Water Year, Ending At Midnight December 4, 2023

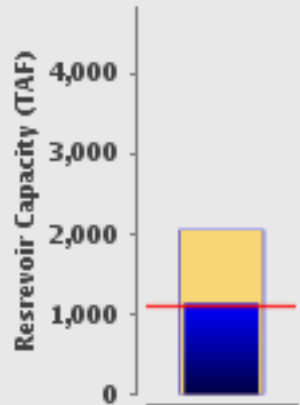


■ Historical Average
 — Total Reservoir Capacity
 ● 1976-1977 (Driest)
 ▲ 1977-1978
 ◆ 1982-1983 (Wettest)
— 2022-2023
 ▼ 2014-2015
— Current: 2023-2024



San Luis Res Conditions

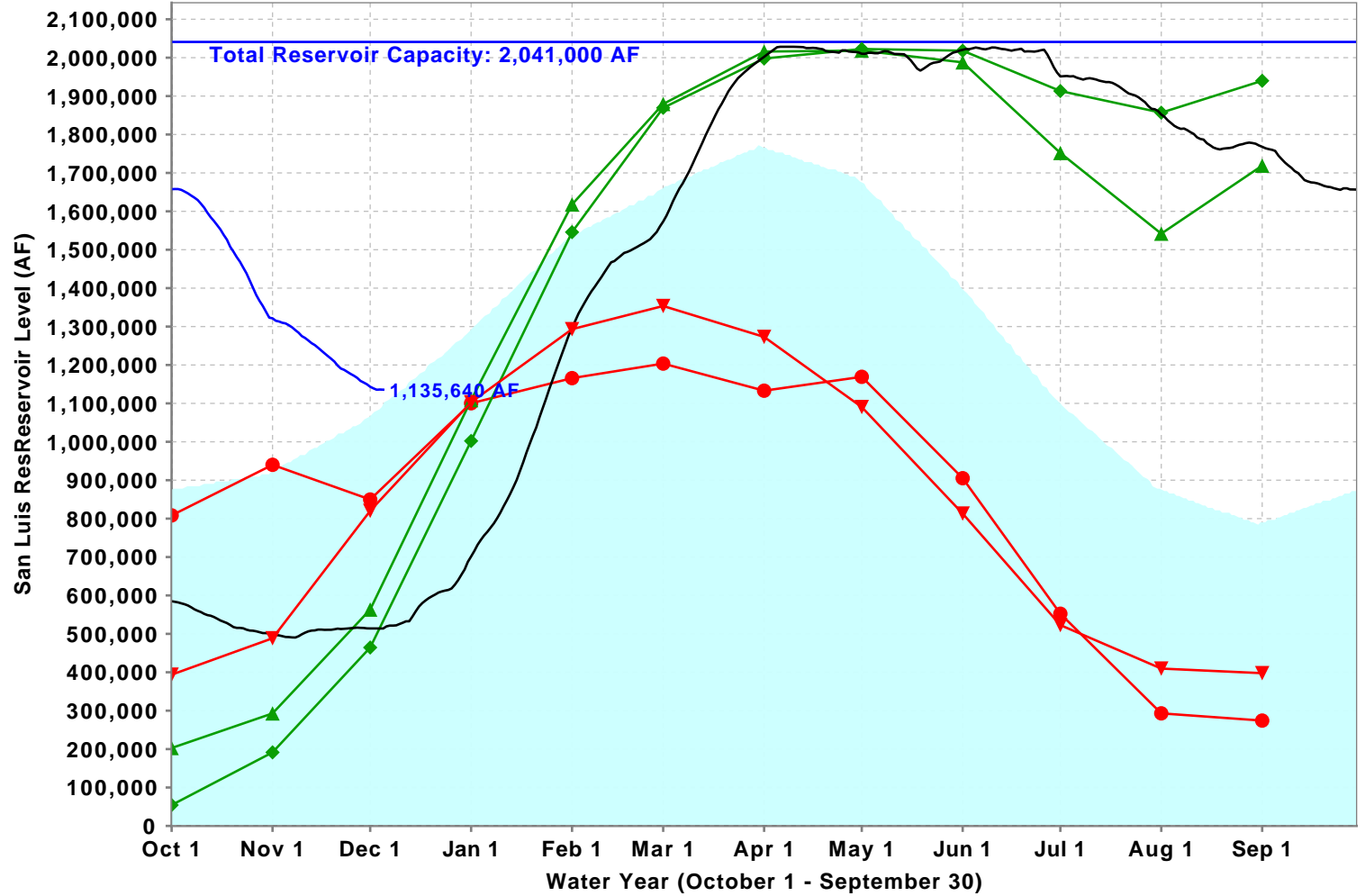
(as of Midnight - December 5, 2023)



Current Level: 1,135,640 AF

56% | **104%**
(Total Capacity) | (Historical Avg.)

San Luis Res Levels: Various Past Water Years and Current Water Year, Ending At Midnight December 5, 2023



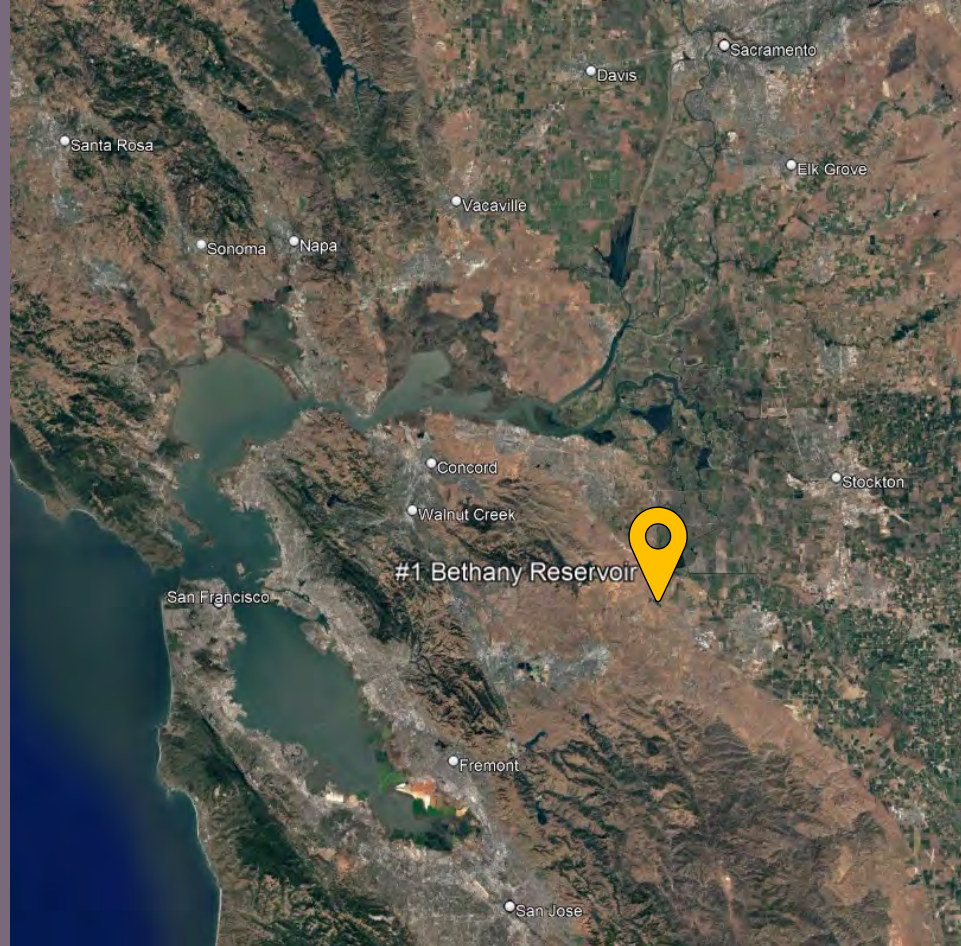
■ Historical Average
 — Total Reservoir Capacity
 ● 1976-1977
 ▲ 1977-1978
 ◆ 1982-1983 (Wettest)
 — 2022-2023
▼ 2014-2015 (Driest)
 — Current: 2023-2024

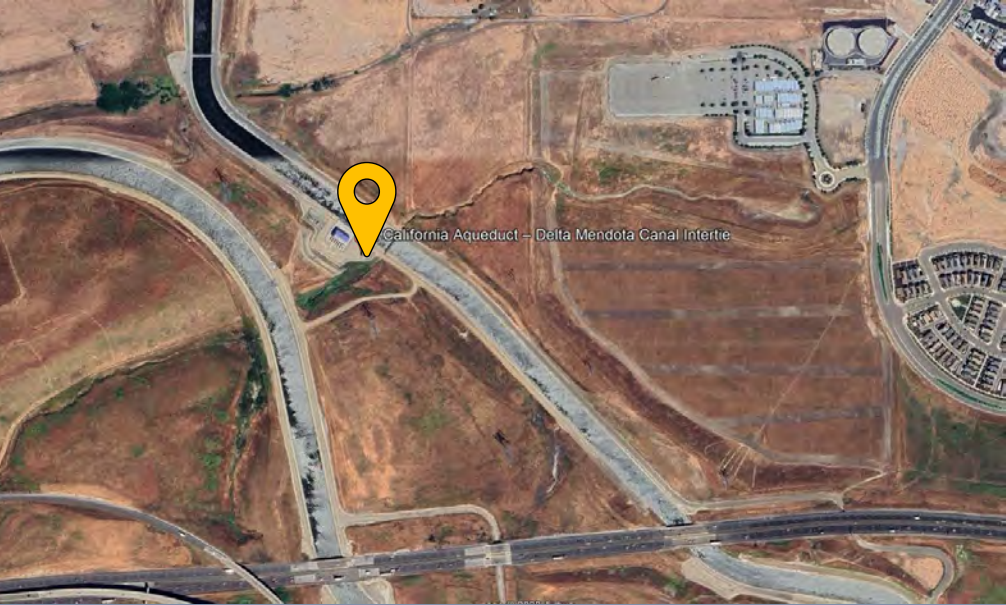
STATE WATER PROJECT TOUR 12/5/2023



STOP #1

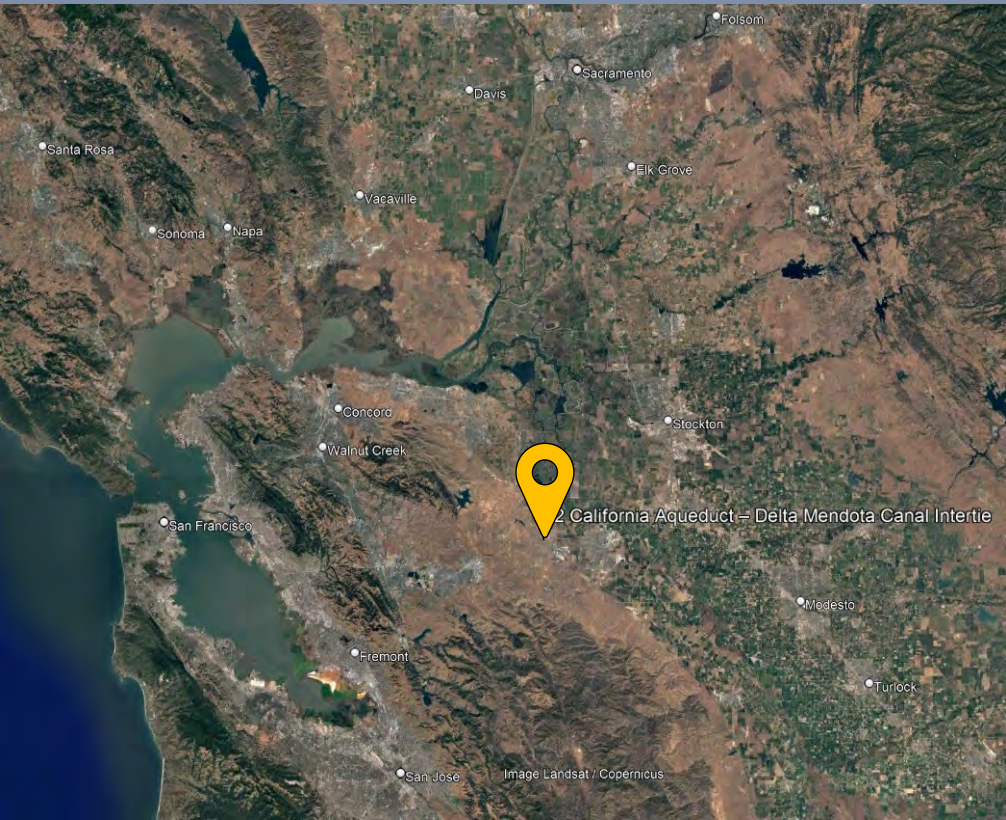
Bethany Reservoir





STOP #2

California Aqueduct – Delta Mendota Canal Intertie and Intertie Pumping Plant



STOP #3

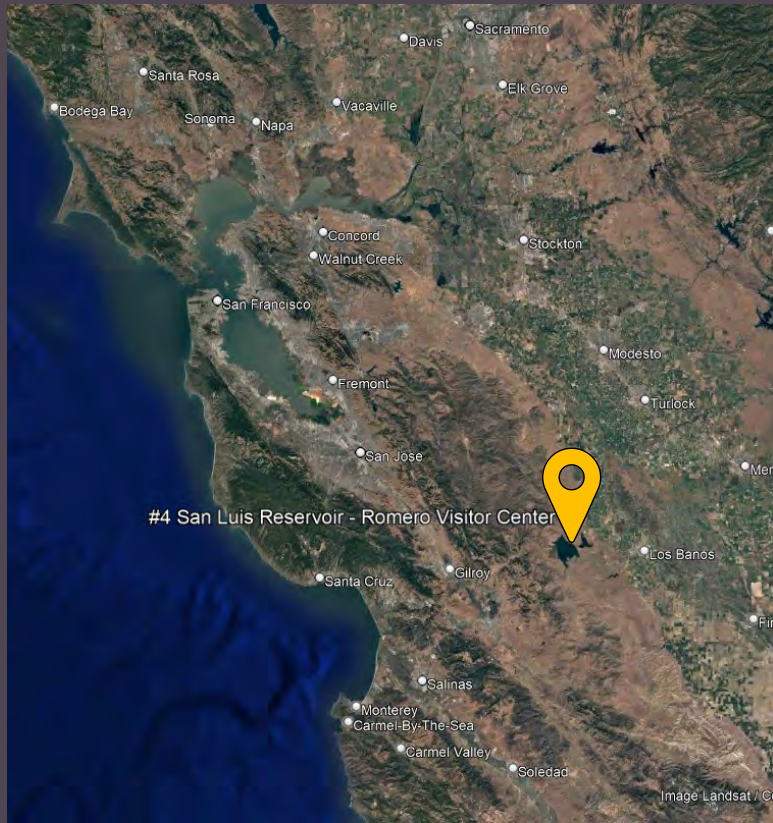
O'Neil Forebay

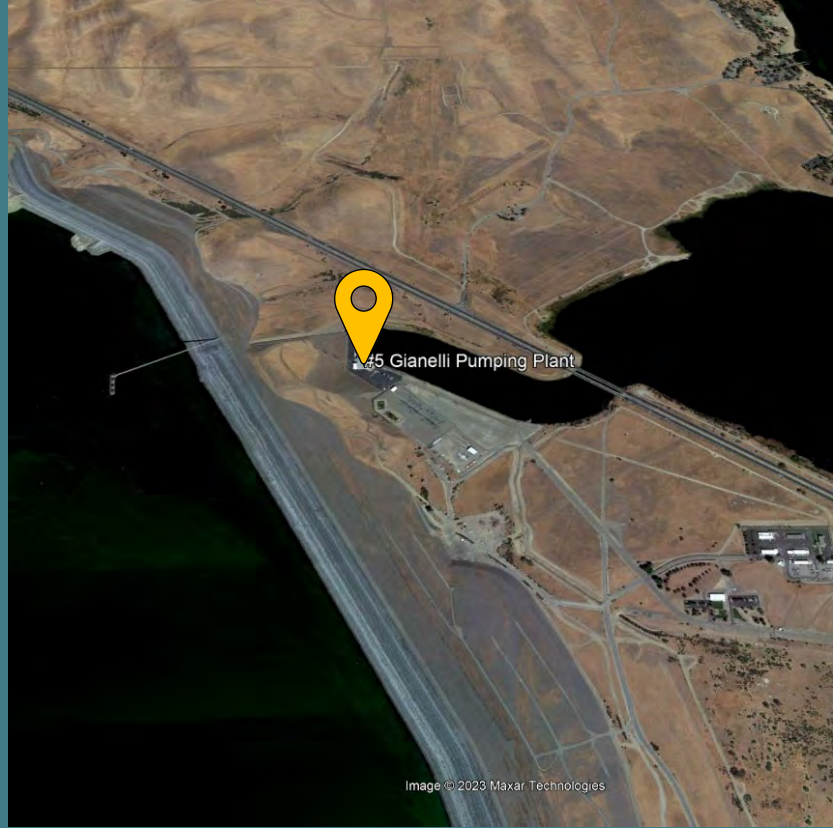




STOP #4

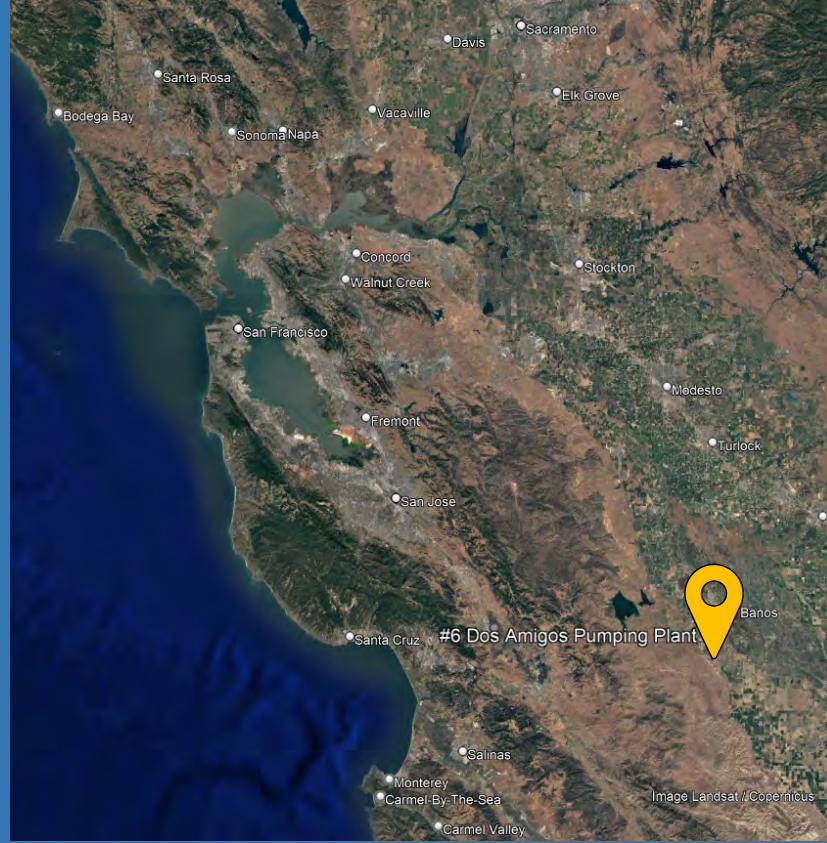
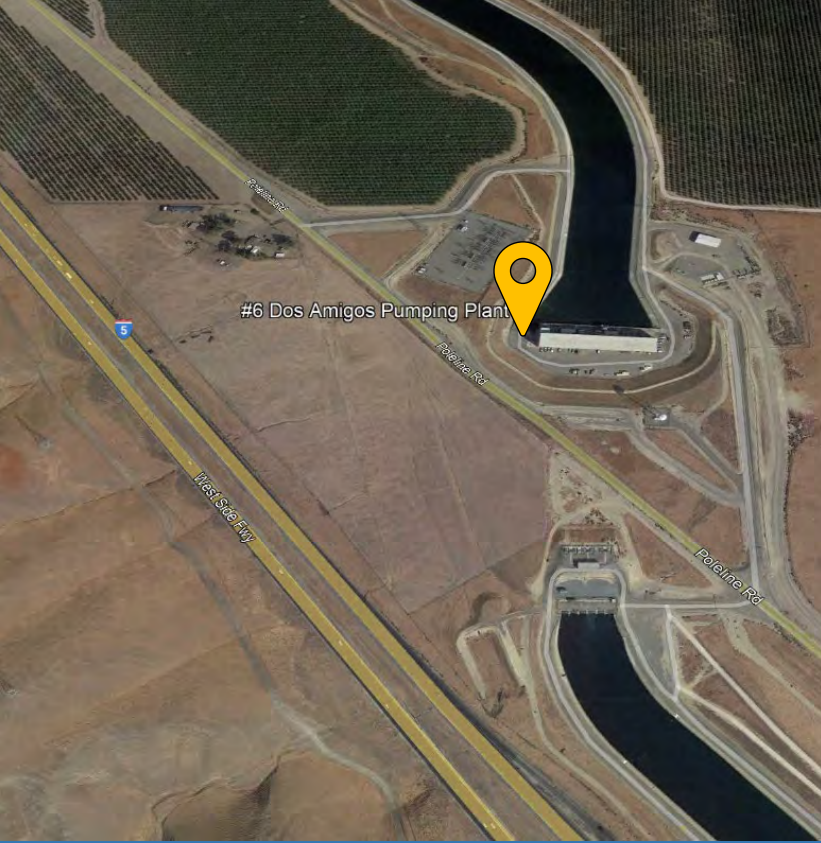
San Luis Reservoir Romero Visitor Center





STOP # 5 Gianelli Plant Tour





STOP #6 Dos Amigos Pumping Plant



RRB ROSEDALE-RIO BRAVO
WATER STORAGE DISTRICT

DECEMBER 2023
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 # 1 OBJECTIVES	PRIORITY	STATUS	OWNER
Determine who should be the point person for each partnership.	HIGH	COMPLETE	Dan Trent
Being intentional and thorough about developing relationships.	HIGH	IN PROGRESS	Board Staff
Meet regularly to collaborate on common goals and to get to know our partners personally.	MEDIUM	IN PROGRESS	Board Staff
Be transparent yet strategic.	HIGH	IN PROGRESS	Board Staff

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 # 2 OBJECTIVES	PRIORITY	STATUS	OWNER
Development of potential water sources that could be available during certain hydrological periods.	HIGH	IN PROGRESS	Trent
Incorporate into the long-term financial impact model and develop a funding strategy.	MEDIUM	NOT STARTED	Trent Megan
Seek to acquire all necessary agreements and approvals for the acquisition and conveyance of each source.	HIGH	IN PROGRESS	Trent

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 # 3 OBJECTIVES	PRIORITY	STATUS	OWNER
Develop an Implementation Plan By 8/31	HIGH	COMPLETE	Trent Taylor
Develop a Communication Plan By 6/30	HIGH	COMPLETE	Trent Taylor Dan Raytis
Develop a Policy List By 6/30	MEDIUM	COMPLETE	Trent Taylor Dan Raytis
Develop a Rate Study/Engineers Report By 5/31	MEDIUM	COMPLETE	Trent Taylor Dan Raytis
Implement a Water Charge for Water Usage in 2024 By 12/31	MEDIUM	IN PROGRESS	Trent Taylor Dan Raytis

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
Continue implementation of Onyx Ranch Project	HIGH	DELAYED	Dan Bartel
Develop long-term water supply acquisition strategy	MEDIUM	IN PROGRESS	Trent Taylor
Continue and improve proper District Administration and Finance strategies	MEDIUM	IN PROGRESS	Megan Misuraca
Continue to influence other GSAs and Management Areas toward Kern Sub-basin sustainability	HIGH	IN PROGRESS	Dan Bartel
Evaluate and develop projects and Management Actions that align with the District's long-term SGMA and financial goals	HIGH	IN PROGRESS	Dan Bartel (Projects) Trent Taylor (MAs)

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 # 5 OBJECTIVES	PRIORITY	STATUS	OWNER
Create standard SOPs for critical responsibilities.	MEDIUM	IN PROGRESS	Rachelle
Determine critical responsibilities where cross-training is necessary and develop training procedures, protocols, and plans.	MEDIUM	NOT STARTED	Megan
Implement regular Staff Meetings to improve communication.	HIGH	IN PROGRESS	Dan
Better understand aspects of each team member's personality so we can continue to operate at a high level. Utilize LeaderGov's DISC personality assessment services.	LOW	COMPLETE	Rachelle

TO: Rosedale-Rio Bravo Water Storage District Board of Directors
Agenda Item 6d.

FROM: Rachelle Echeverria

DATE: December 12, 2023

RE: Consideration of Continuing Emergency Action – Public Contract Code
§22050(c)(1) – Resolution No. 531

Discussion:

In March of 2023, Governor Newsom released Executive Order N-4-23, which declared a state of emergency due to severe winter storms and flooding within California. The order authorized state agencies to take necessary actions to protect public health, safety, and property, and directed state agencies to coordinate with local governments and assist in the response and recovery efforts. The Executive Order aims to temporarily lift regulations and set clear conditions for diverting flood waters without permits to boost groundwater recharge storage.

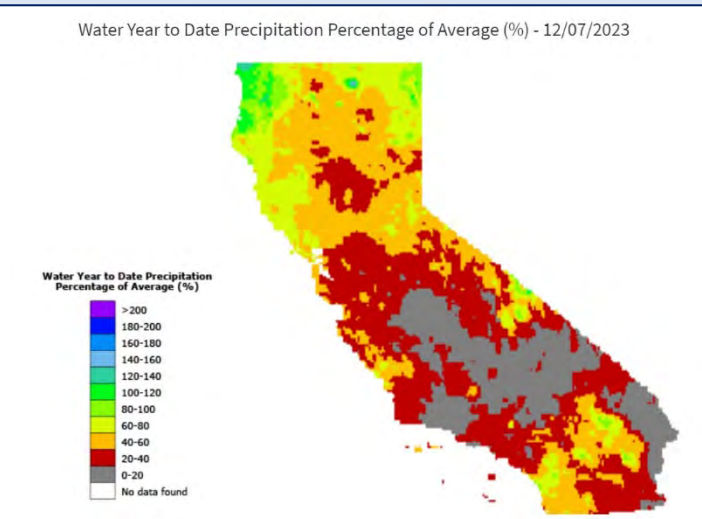
Due to this unprecedented wet year, major California reservoirs are near capacity and have surpassed historical averages. On April 20, 2023, the Department of Water Resources (DWR) announced an increase in the State Water Project (SWP) allocation from 75% to 100% of requested supplies. Additionally, on August 4, 2023, Governor Newsom signed another Executive Order, N-10-23, to prepare for the next wet season by expediting critical work like levee repairs and debris removal to help protect communities and conserve water. A copy of the executive order can be found [here](#). This action builds on Governor Newsom's series of measures to protect communities from flooding while replenishing California's groundwater and storage. Governor Newsom also signed legislation in July to accelerate judicial review for water storage projects.

In light of such conditions, the District must be prepared to protect the interests of water users and farmers within the District. Resolution No. 531 would authorize the General Manager to take all necessary actions to address the Governor's emergencies. Therefore, there is still a need to continue emergency action.

Recommendation:


District staff recommends that the Board of Directors approve a motion to continue the emergency action authorized by Resolution No. 531.

Water Year to Date Precipitation Percentage of Average (%) - 12/07/2023



Water Year to Date Precipitation Percentage of Average (%)

>200
180-200
160-180
140-160
120-140
100-120
80-100
60-80
40-60
20-40
0-20
No data found



Visit the Department of Water Resources California WATER WATCH website for the most current local and statewide water conditions by clicking [here](#).



DRAFT

Rosedale-Rio Bravo Water Storage District 2022 Operations Report

Prepared by:

AECOM



Monique Y. Roberts, PE
Project Manager

60599866

December 2023

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SECTION 1 - INTRODUCTION

In February 2013, the Rosedale-Rio Bravo Water Storage District (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. As a part its implementation of the GSP, the District prepared a 2022 Annual Report for the Rosedale-Rio Bravo Management Area (RRBMA).

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. The District has formed the Rosedale GSA and intends to prepare a new/revised Rosedale GSP that addresses the deficiencies identified by the DWR but is independent of the KGA.

This 2022 Operations Report has been prepared in accordance with the outline from its Groundwater Management Plan to summarize the District's operations for calendar year 2022. Included in this report are:

- 2022 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 2022, the District has taken delivery of approximately 4.0 million acre-feet of imported surface water supplies.

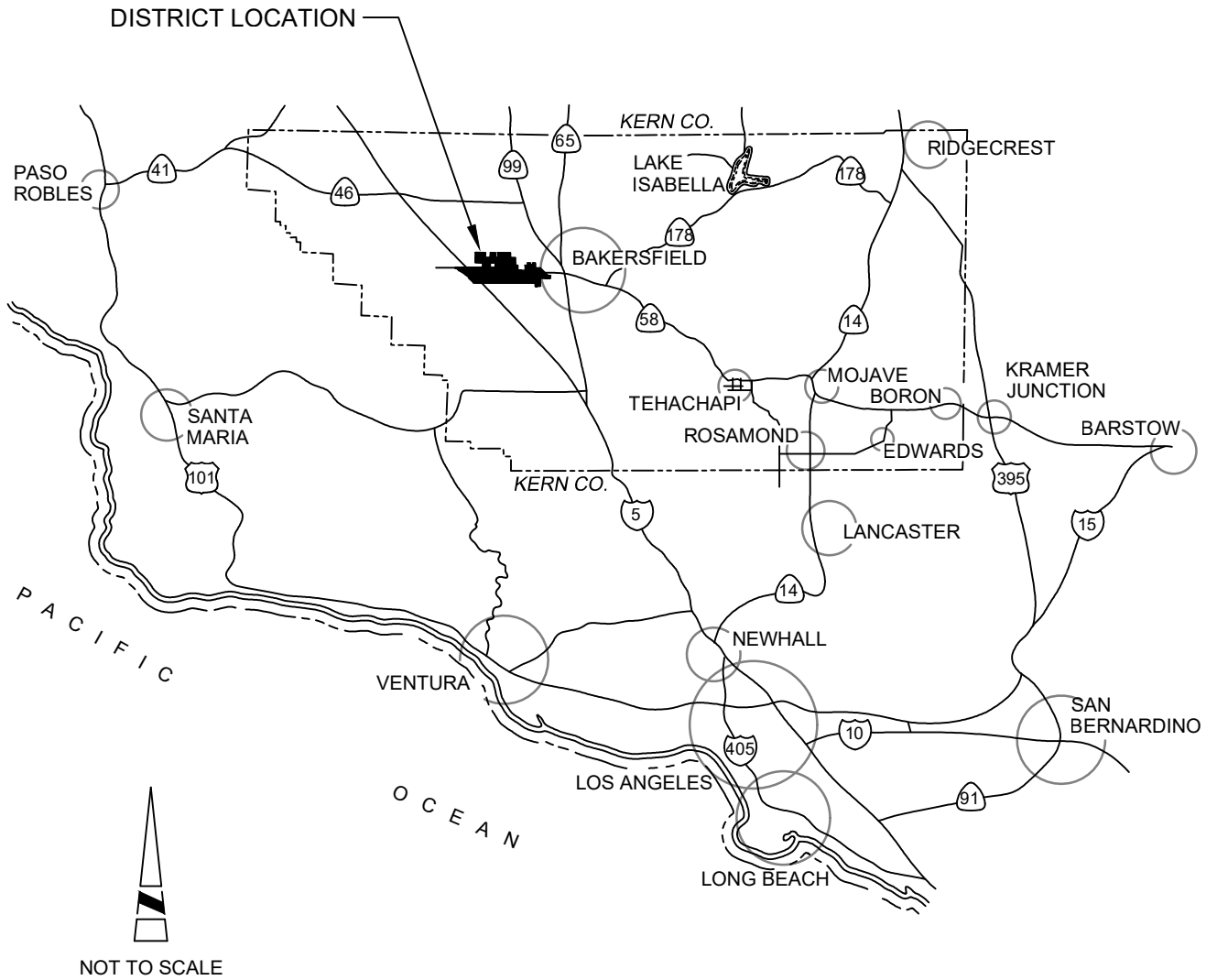
The present developed area within the District is estimated to be 36,100 acres, with about 27,900 acres utilized for irrigated agriculture and about 8,200 acres dedicated to urban and industrial uses. Urban development is primarily located in the eastern end of the District and is expected to increase 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 2022 covers approximately 2,116 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's recharge facility characteristics and status at the end of 2022 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. A timeline of the construction of recent facility improvement projects is provided in **Table 2**. A brief description of the facility improvements completed during 2022 follows the tables.

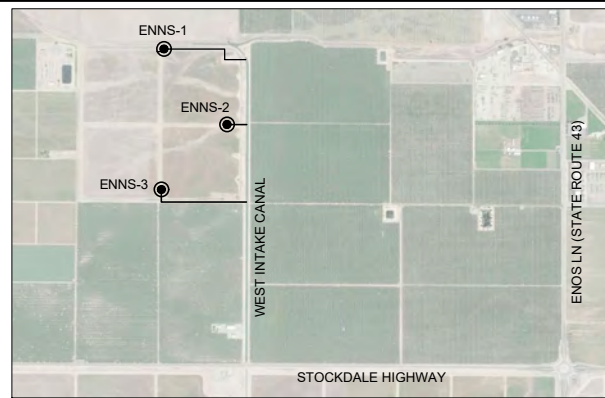
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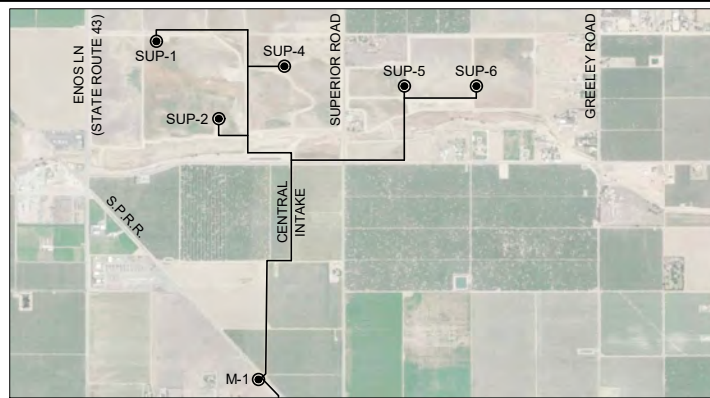
DETAIL "A" WEST BASIN WELLS

SCALE: 1" = 2000'



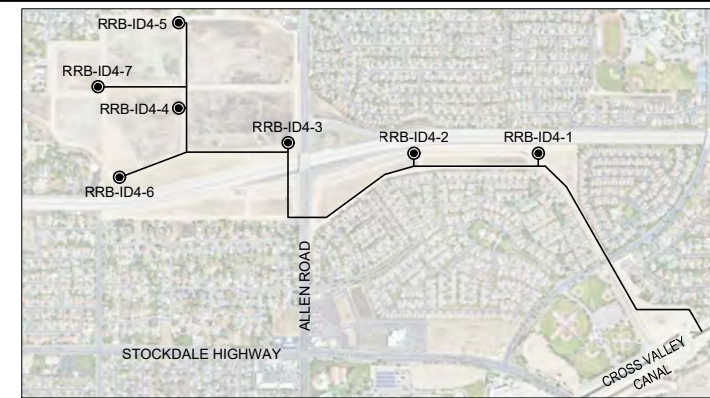
DETAIL "B" ENNS - 1, 2, 3 WELL FACILITIES

SCALE: 1" = 1600'



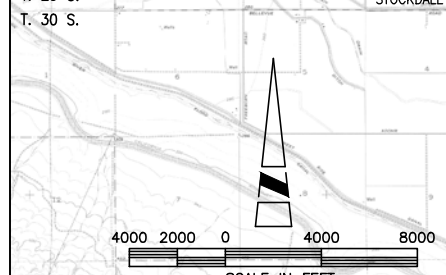
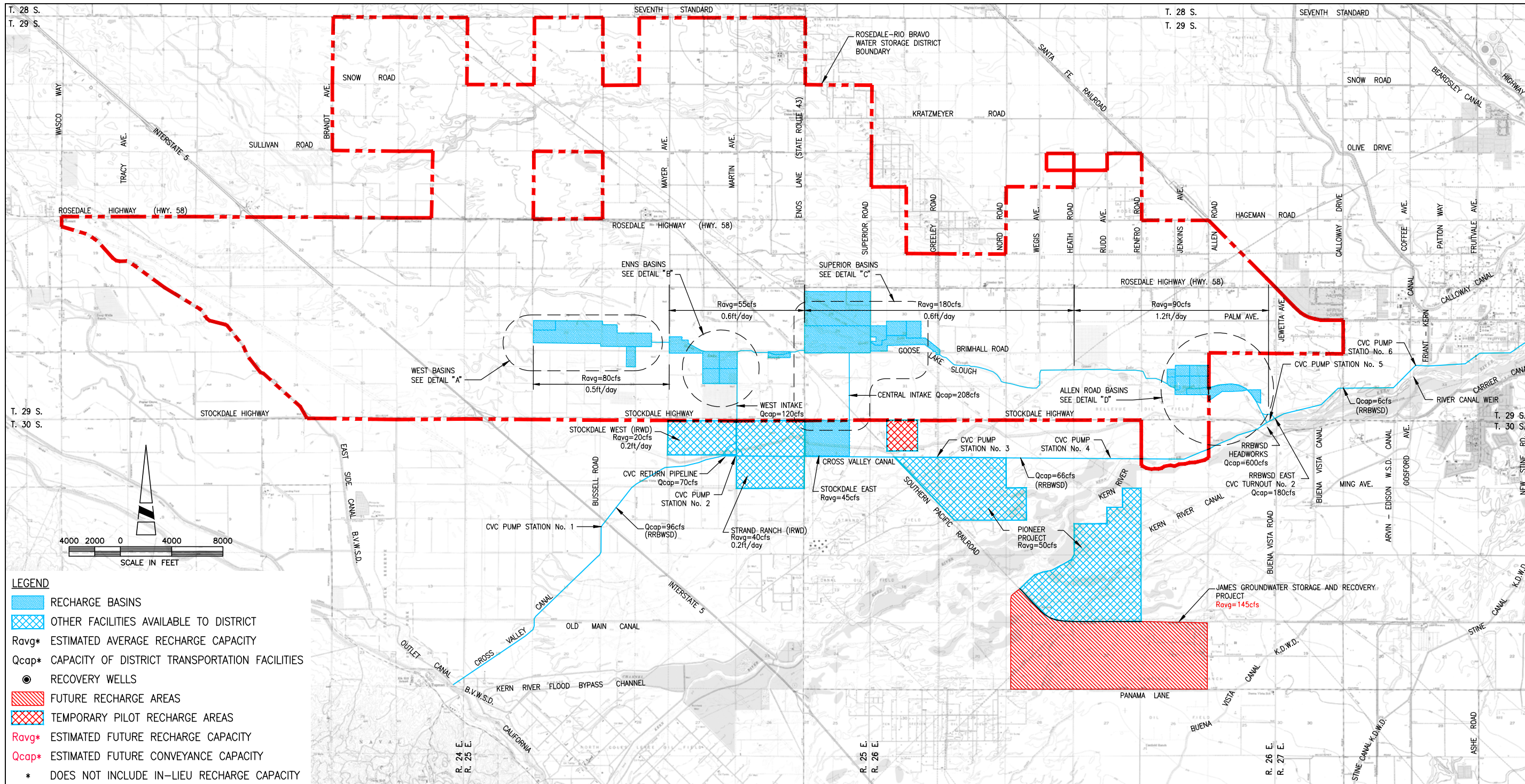
DETAIL "C" SUPERIOR RECOVERY FACILITIES

SCALE: 1" = 2000'



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

SCALE: 1" = 2000'



- 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

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Table 1
RRBWSD 2022 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 East	152, 243, 245	Moderate, Well	0.5	45	68	185
Enns	125, 244, 245, 229	Well, Somewhat Excessive	0.6	55	83	175
West Basins	245	Moderate	0.5	80	120	324
Superior	125, 127, 243, 245, 229	Well, Somewhat Excessive	0.6	180	270	605
Allen	125	Somewhat Excessive	1.2	90	135	153

* Based on 2017 Operations

Totals = 510 766 2,116
Weighted Average = 0.48 ft/day

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
West Basin Improvement Recharge Basins (55 acres)	2016
Stockdale West Wells (3)	2016
Kern River Intake Improvements (600 cfs capacity)	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

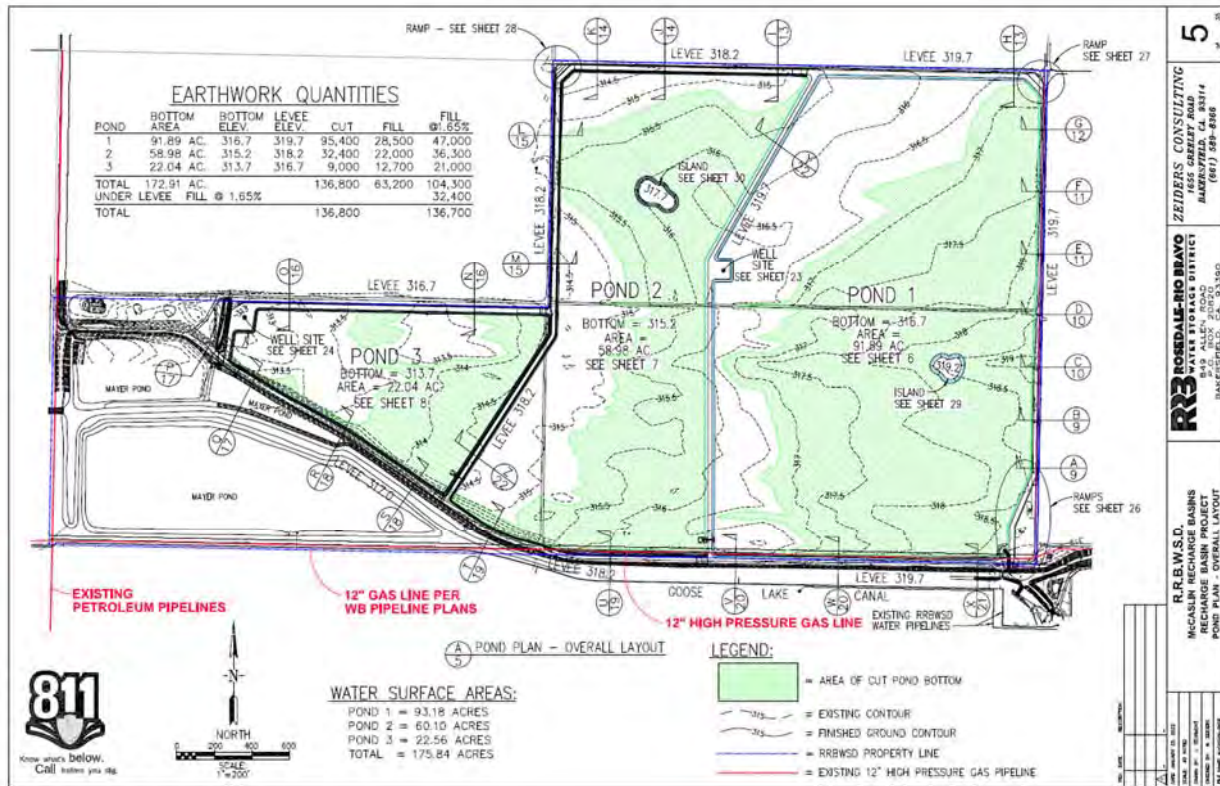
Facility Improvements Completed During 2022

Houghton Weir Reconstruction Project - The District completed construction on a new flow control structure within the upper portion of the Goose Lake Channel system which serves the Wes Selvidge Recharge Ponds (Allen Road Area). The structure serves two purposes 1) to hold a water level upstream of the weir and 2) provide an accurate flow measurement downstream to verify recharge in the immediate area and deliveries from the Kern River and CVC. The design combines a long-crested weir with a ramp flume for accurate measurement. The construction consisted of demolishing the existing structure, reshaping the channel section, constructing an underdrain system, and pouring approximately 350 cubic yards of concrete. The new Houghton Weir was equipped with bypass pipes on the side to convey sediments in the channel and stilling wells to measure the water over the flume as well as the water bypassed. An equation to calculate downstream flow for the flume was developed using the WinFlume 2.0 hydraulic modeling program. A SCADA system was installed to remotely monitor flow rates.



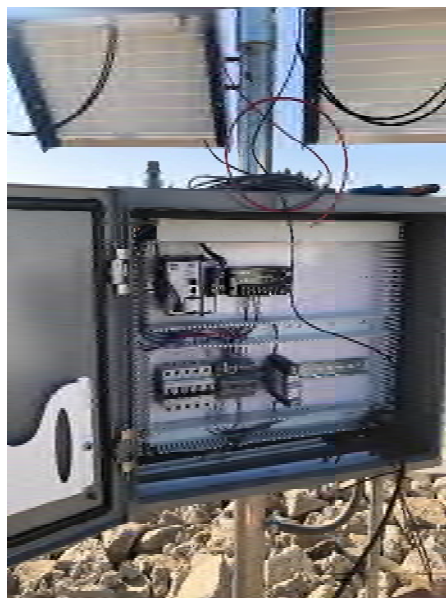
Houghton Weir Reconstruction Project

McCaslin Recharge Ponds - The District completed construction of 175 acres of new groundwater recharge ponds directly north of the Goose Lake Channel and the Enns Ponds. The project included the placement of approximately 63,000 cubic yards of earth for basin levees along with ripping and finish grading of the bottom of the ponds. An intake structure consisting of two 48-inch gated pipes off the Goose Lake Channel was installed on the southeast corner of the property. Staff installed two precast concrete interbasin structures to move water through the three ponds. It is anticipated that the facility will be capable of recharging 45 to 50 cfs (about 3,000 AF/month).



McCaslin Recharge Ponds

SCADA Project Phase 1 - The District completed Phase 1 of a SCADA project that provides remote monitoring of all inflow points to the District's recharge system, namely the Kern River Intake, Houghton Weir, and CVC turnouts Rosedale 1 and 2. Flows are now measured on a continual basis versus the historic practice of once per day by field staff.



SCADA Project Phase 1

SECTION 3 – CONJUNCTIVE USE PROJECT OPERATIONS FOR CALENDAR YEAR 2022

2022 was a critically dry year in which the District received 15,337 AF of water from its Kern River contracts and an allocation of 5 percent from the State Water Project (SWP). The District's banking partners made minimal additions to storage. Groundwater extractions for banking program return totaled 56,177 AF during 2022.

A brief description of the District's groundwater banking, sales, and water purchase programs with operations in 2022 follows:

Arvin-Edison Water Storage District (AEWSD) 2:1 Banking Agreement dated Oct 1, 2009

492 AF of water from Arvin was added to storage in 2022. RRBWSD returned 10,000 AF of water to Arvin in 2022. At the end of 2022 AEWSD's account balance in RRBWSD is 44,707 AF.

Delano-Earlimart Irrigation District (DEID) 2:1 Banking Agreement dated Oct 1, 2009

492 AF of water from DEID was added to storage in 2022. RRBWSD returned 10,000 AF of water to DEID in 2022. At the end of 2022 DEID's account balance in RRBWSD is 15,360 AF.

Kern Tulare Water District (KTWD) 2:1 Banking Agreement dated July 10, 2001

492 AF of water from KTWD was added to storage in 2022. RRBWSD returned 9,000 AF of water to KTWD in 2022. At the end of 2022 KTWD's account balance in RRBWSD is 12,116 AF.

Homer LLC 2:1 Banking Agreement dated May 26, 2017

There was no change in this program during 2022. The account balance for the Homer LLC banking program in RRBWSD at the end of 2022 remains at 4,034 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 2022. At the end of 2022 BVWSDs account balance, for this program in RRBWSD, is 103,054 AF.

Castaic Lake Water Agency (now SCVWA) Banking Agreement dated November 11, 2005

207 AF of reserve water was transferred into storage during 2022. RRBWSD returned 20,000 AF of water to SCVWA during 2022. At the end of 2022, SCWA's account balance in RRBWSD is 58,136 AF.

Castaic Lake Water Agency (now SCVWA) 2:1 Banking Agreement dated September 1, 2011

207 AF of reserve water was transferred to SCVWA Banking during 2022. At the end of 2022, SCVWA's account balance in RRBWSD is 0 AF.

Coachella Valley Water District (CVWD) Water Sale Agreement amended July 24, 2012

No water was delivered to CVWD in 2022. At the end of 2022 RRBWSD has sold 112,000 AF to CVWD under this program. There is no available exportable balance at the end of 2022.

San Joaquin River Exchange Contractors (SJREC) 2:1 Program Agreement dated October 2, 2020

There was no change in this program during 2022. At the end of 2022 SJRECs account balance in RRBWSD remains at 3,485 AF, which includes water recharged under 2017 and 2019 program agreements.

Belridge Water Storage District, Berrenda Mesa Water District, Lost Hills Water District, and Wheeler Ridge-Maricopa Water Storage District Water Exchange and Transfer Agreements dated April 15, 2022 (10,000 AF), May 18, 2022 (5,000 AF), and June 20, 2022 (5,000 AF)

During 2022, RRBWSD made a one-time water exchange and transfer of 15,000 AF of its previously banked water in its Kern Fan Bank Accounts (Pioneer Project) which was transferred in the groundwater basin. An additional 5,000 AF of RRBWSD SWP supplies and/or previously banked and extracted supplies were sold for delivery to the four districts.

The end of year water banking account balances for each of the District’s programs over the period 2004 through 2022 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 2022, the RRBWSD Aggregate Benefit is approximately 282,100 AF.

A summary of the District’s water supplies and deliveries for 2022 is shown in **Table 3**. 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 2022 Supplies and Deliveries
(All Values in Acre-Feet)

Supplies	
SWP 2022 Entitlement	1,495
SWP 2021 Carryover	1,579
Kern River Contract Water	15,337
AEWSD Banking	492
KTWD Banking	492
DEID Banking	492
Groundwater Recovery	56,177
Total	76,064

Deliveries To	
KTWD	9,000
AEWSD	10,000
CLWA	8,250
SCVWA	20,000
DEID	10,000
IRWD	8,927
2022 Westside Sale ¹	5,000
Stored water in SWP system ²	5,944
Total	77,121

Notes:

1. SWP and/or previously banked water extracted and delivered to Westside districts.
2. Kern River water delivered to ID4 in exchange for RRBWSD supplies extracted for delivery through SWP system to banking partners. Balance of 5,944 AF of supplies in the SWP system are owed to RRBWSD.
3. The difference between supplies and deliveries consists primarily of transportation losses (estimated to be about 1,746 AF). These are not considered losses in the District’s water balance since this water is recharged to the groundwater basin.

A summary of the CEQA documentation prepared for the District’s groundwater banking programs is included as **Section 8**.

End of Year Water Banking Account Balances

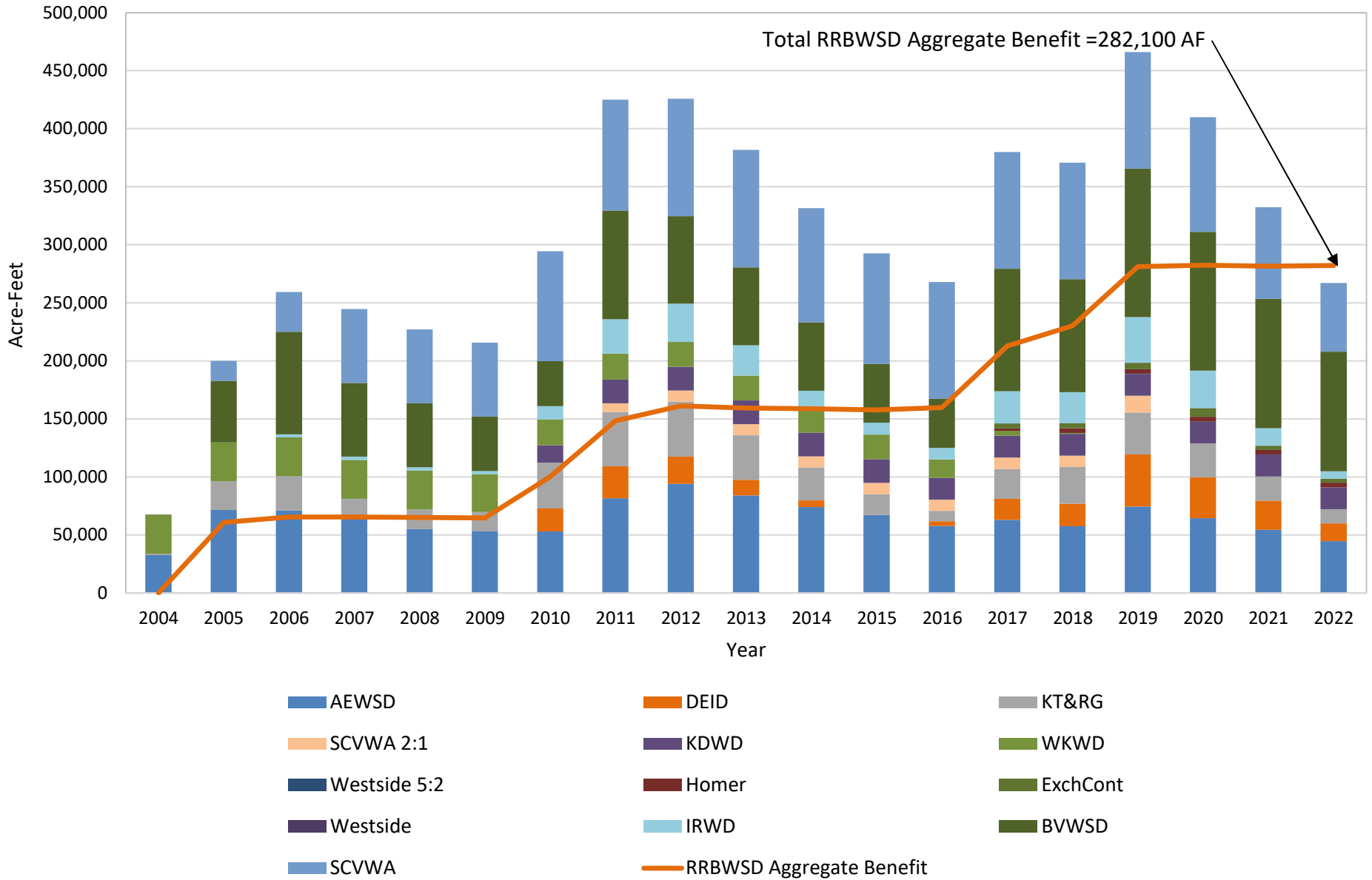


Figure 3

SECTION 4 – GROUNDWATER LEVELS

The District currently measures groundwater levels on a monthly basis in 17 representative monitoring wells located throughout the District. 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).

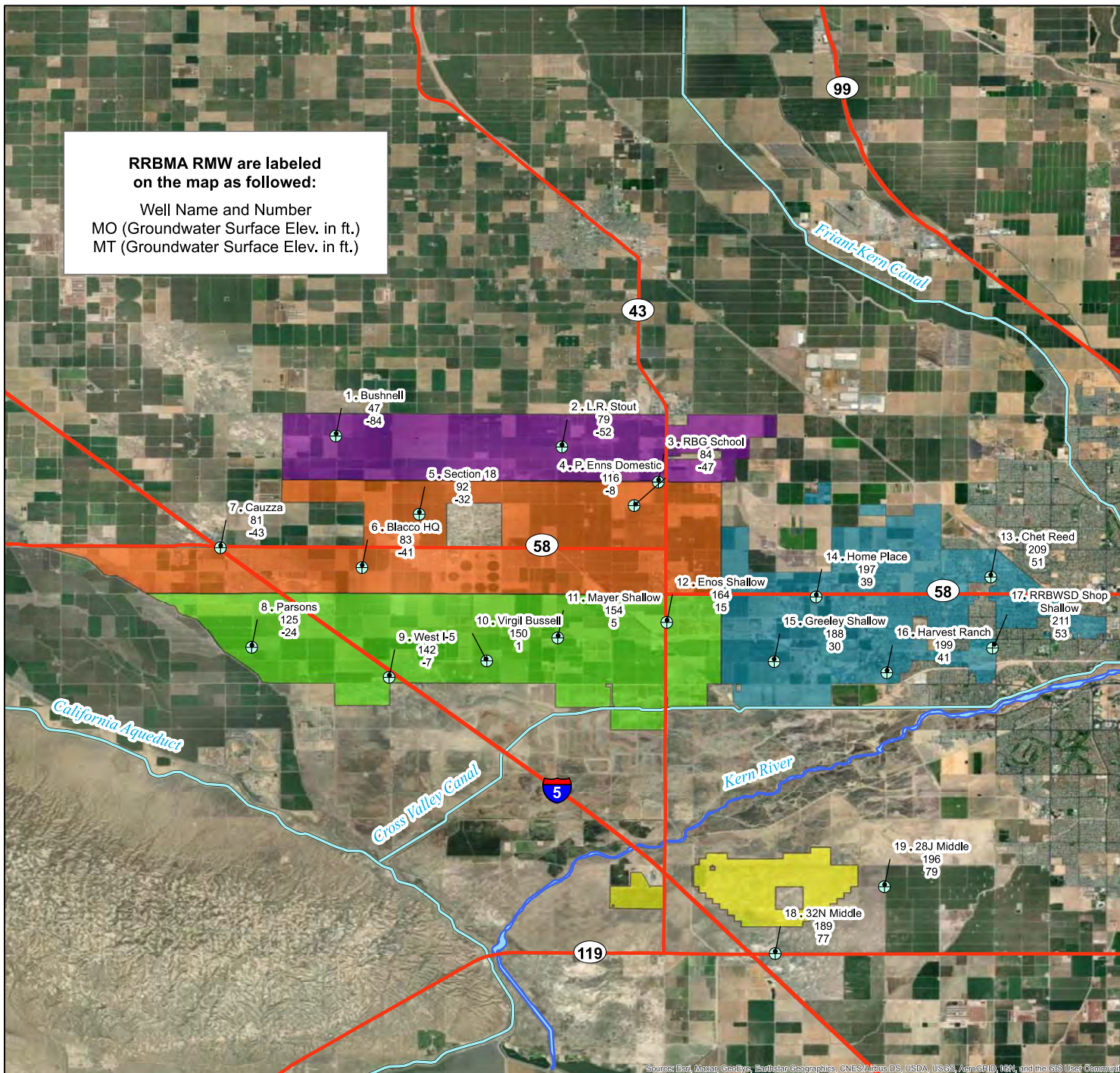
The District's 2022 depth to groundwater monitoring well network is shown on **Figure 4**. A summary of the characteristics of the wells currently in the District's monitoring network, by the Well Number from **Figure 4**, is presented in **Table 4**. The monitoring wells outside of the District and south of the river (well numbers 18 and 19 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 wells are also included in **Table 4**.

Groundwater levels measured in January 2023 ranged from about 250 feet below ground surface in the southeastern portion of the District to about 340 feet below ground surface in the northwest. The average depth to groundwater in the District in January 2023 was estimated to be 274 feet. This is approximately 20 feet lower than the estimated average groundwater elevation in January 2022.

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. Included in **Appendix 2** are With/Without Scenario Model-Generated Head Difference figures and Comparison Project/No-Project Hydrographs for locations throughout the District as updated through 2022.

Long term historic groundwater level hydrographs have been prepared as a part of the District's SGMA reporting program and are included in **Appendix 1**. The hydrographs show the depth to water over time for selected monitoring wells from **Figure 4**, with wells located closer to groundwater recharge and recovery areas exhibiting greater fluctuations in water levels. Currently, the RRBMA 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.

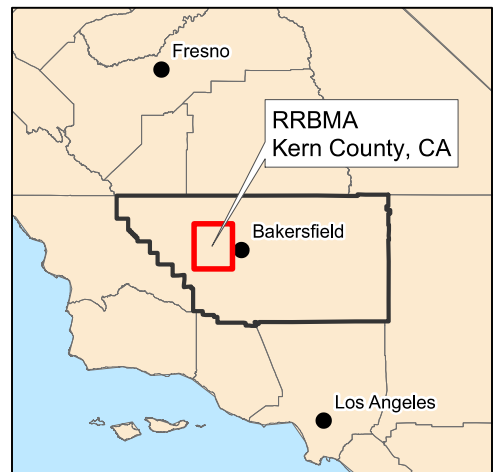
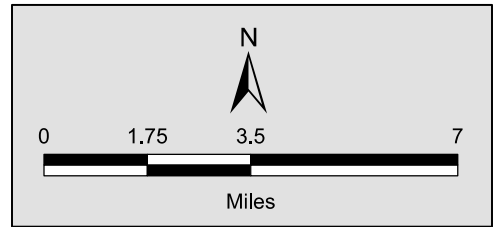
Figure 5 shows estimated average groundwater levels within the District in the month of January for the years 1952 through 2023. The rate of groundwater decline from 1976, when the first SWP deliveries were made to the District, to January 2023 has averaged about 1.8 foot per year. Prior to 1976, the average rate of groundwater decline was about 4.7 feet per year.



Legend

- ⊕ RRBMA RMW (Water Level)
- Major Highways
- Major Conveyance Facilities
- Kern River
- North Monitoring Area
- Central Monitoring Area
- South Monitoring Area
- East Monitoring Area
- South of the River Monitoring Area

RMW = Representative Monitoring Well
 MO = Measurable Objective
 MT = Minimum Threshold



**Table 4
Rosedale-Rio Bravo Water Storage District
Monitoring Well Characteristics¹**

RWM No.	Well Number	Well Name	Well Depth	Screen Interval	Type of Well ²	Start Date	Water Quality	Frequency
01	29/24 2 J1	Bushnell			Agricultural	1997	N	--
02	29/25 3 N1	L. R. Stout	433	351-433	Agricultural	1998	N	--
03	29/25 11 H	RBG School			Domestic	2016	N	--
04	29/25 14 C1	P. Enns Domestic			Domestic	2014	N	--
05	29/25 18 B1	Section 18	701	300-701	Agricultural	1997	N	--
06	29/24 24 F	BLACCO HQ New			Agricultural	2013	N	--
07	29/24 21 A1	Cauzza	800		Abandoned	1982	N	--
08	29/24 28 L	Parsons			Agricultural	1998	N	--
09	29/24 36 R1	West -I-5			Agricultural	1982	N	--
10	29/25 33 E1	Virgil Bussell			Domestic	1993	N	--
11	29/25 27 N1	DWR 27N Mayer Deep-W	700	610-700	Monitor Well	1995	Y	Biannual
11	29/25 27 N2	DWR 27N Mayer Shallow-E	310	210-310	Monitor Well	1995	Y	Biannual
12	29/25 25 M1	DWR 25M Enos Deep-W	700	600-700	Monitor Well	1995	Y	Biannual
12	29/25 25 M2	DWR 25M Enos Shallow-E	350	260-350	Monitor Well	1995	Y	Biannual
13	29/26 23 J1	Chet Reed			Abandoned	1995	N	--
14	29/26 29 B	Home Place			Domestic	2015	N	--
15	29/26 31 H1	DWR 31H Greeley Deep-E	630	560-630	Monitor Well	1995	Y	Biannual
15	29/26 31 H2	DWR 31H Greeley Shallow-W	430	360-430	Monitor Well	1995	Y	Biannual
16	29/26 34 M1	Harvest Ranch			Municipal	1989	N	--
17	29/26 35 H1	Shop	500		Domestic	1981	N	--
17	29/26 35 H3	DWR 35H Shop Deep-SE	680	590-680	Monitor Well	1995	Y	Biannual
17	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. RMW Nos 1 through 17 (from Figure 4) are monitored for depth to groundwater monthly. South of the river wells (18 and 19) 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 1952-2023

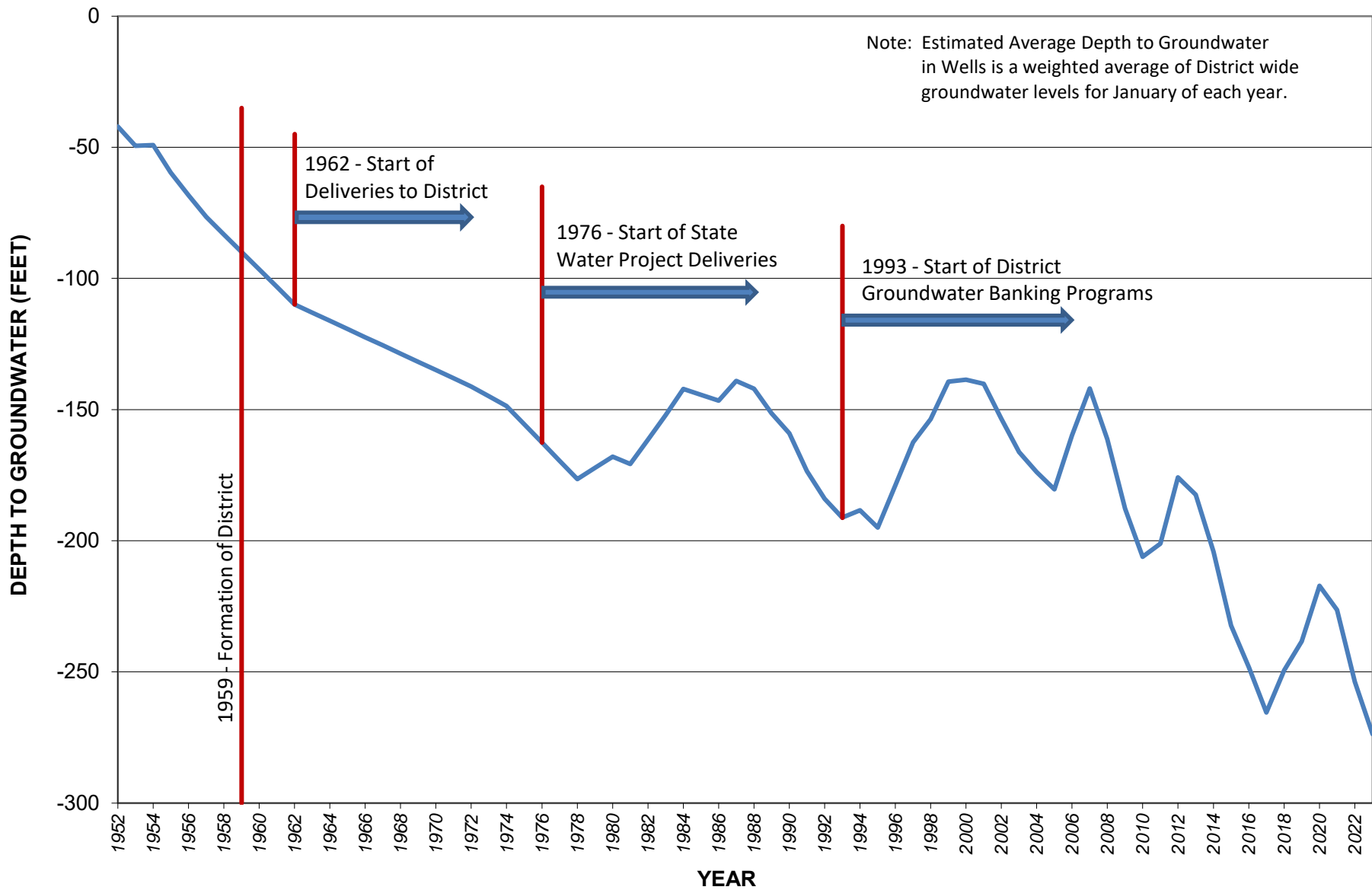


Figure 5

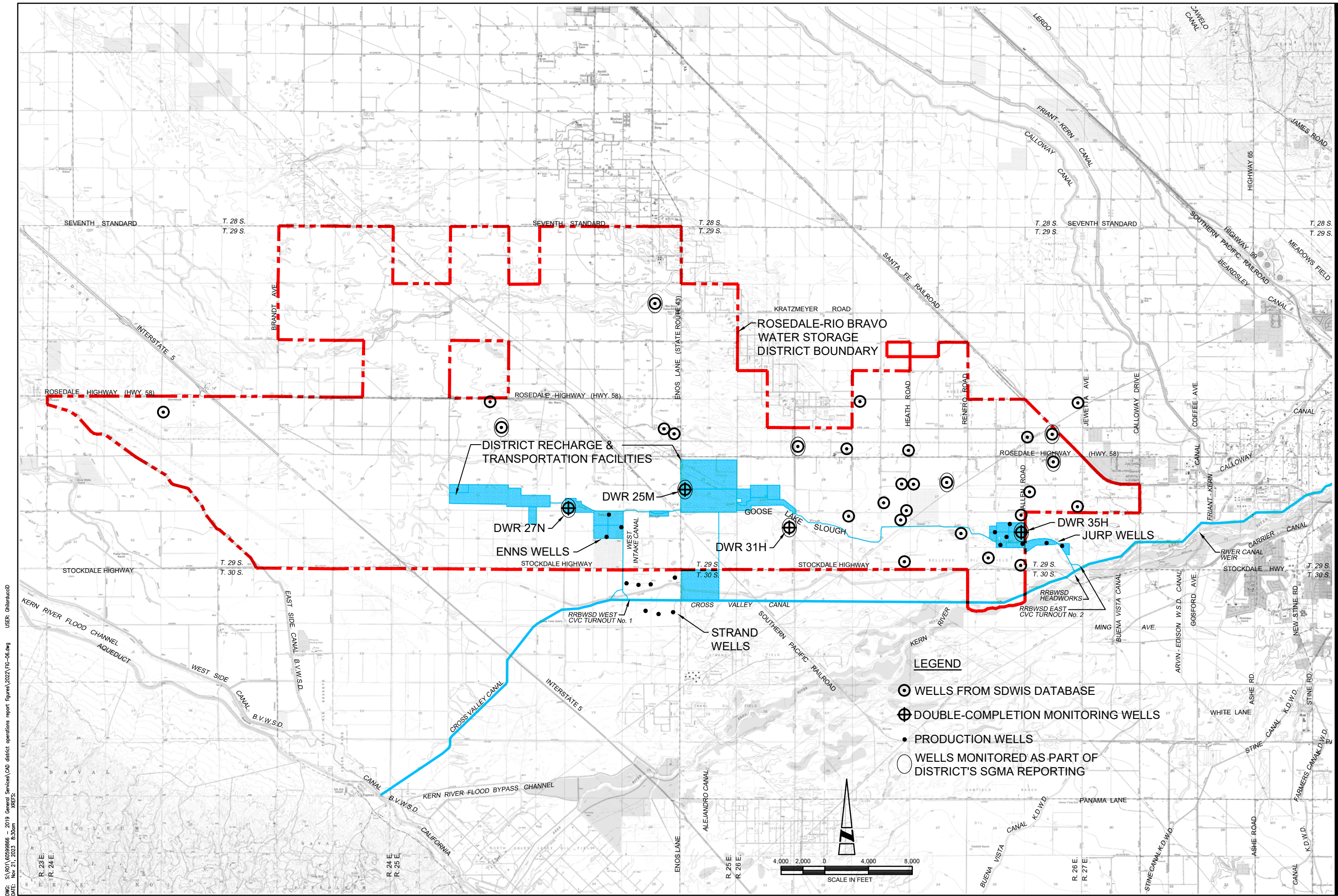
SECTION 5 – GROUNDWATER QUALITY

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. 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**.

Groundwater quality data from the SDWIS database and the Kern Fan Monitoring Committee was obtained for 2022 and the graphs of groundwater quality data for the Kern Fan monitoring wells and selected wells from the SDWIS database were updated (see **Appendix 3**). The following observations were noted based on a review of the groundwater quality data:

- EDB and DBCP concentrations for samples taken from wells within the District in 2022 continue to be less than the MCL. The last measured concentrations greater than the MCL in these wells were in the late 1990s and early 2000s.
- TDS concentrations for samples taken from wells within the District are generally in the range of 100 to 300 mg/l.
- Nitrate concentrations for samples from a few wells exceeded the MCL during 2022. Samples from a couple of wells in the East monitoring area continue to exhibit a pattern where the concentration of Nitrate appears to be dependent on groundwater levels. As groundwater levels have declined (such as during 2009, 2013-16, 2018, and 2021-22), the Nitrate concentrations have increased. When groundwater levels have recovered (such as during 2010, 2017, and 2019), the Nitrate concentrations have decreased. Nitrate concentrations in samples from the Central and South monitoring areas were below the MCL in 2022.
- Arsenic concentrations of greater than 10 ug/l were found in a few of the SDWIS wells and in two of the deep double-completion monitoring wells.
- 1,2,3-TCP concentrations of greater than the MCL of 0.005 ug/l were found in some of the SDWIS wells. However, since the MCL for this chemical has recently been adopted and many of the agricultural wells are not tested for this constituent, there is limited historical data available.



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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 2022 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 2022. The tables in **Appendix 4** follow the methodology developed by the Kern County Water Agency as a part of the groundwater mediation process. The District reached a settlement with the City of Bakersfield regarding its contract water supplies which has been incorporated in the District’s water balance accounting through 2022.

For 2022, consumptive use demands for the District were based on a surface energy balance using satellite thermal imaging (data from METRIC). For comparison, consumptive use calculations were also prepared based on methodology from the Cal Poly Irrigation Training Resource Center (ITRC) as historically used in the District’s annual Operations Reports. The water demands from METRIC data were about 1 percent higher than those based on the historic ITRC methodology.

The main components of the water balance and the average annual quantities in acre-feet for the period 1995-2022 are summarized below.

Average Water Supplies

Surface water supplies (contract supplies and water purchases)	49,100
Purchased groundwater supplies	6,100
District share of groundwater recharge program supplies	13,400
Flood flows	3,000
Natural inflow from precipitation and share of basin safe yield	30,600
Total Supplies	102,200 AF

Average Water Demands

Crop Consumptive Use	84,500
Urban Use	8,200
Water transfers	4,700
Assessed banking program losses	3,100
Total Demands	100,500 AF

The District’s cumulative water balance over the period is a positive change in groundwater storage of approximately 124,200 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 2022, about 267,100 acre-feet was in storage for the District’s banking partners. Therefore, the total increase in groundwater storage for the period 1995-2022 due to the District’s operations is approximately 391,300 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, 2023 has been calculated to be a deficit of 16,451 acre-feet. The estimated balance for overdraft correction (ODC) is about 90,680 acre-feet.

The District's annual water balances for the period 1995 through 2022 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**.

The District's cumulative water balance and annual water balances in the 2022 Operations Report are impacted by the settlement with the City of Bakersfield regarding Kern River contract supplies which resulted in changes in the quantities of Credited yet Undelivered Supplies from those shown in the Operations Reports for prior years.

Graphs of depth to groundwater and total deliveries to the District for the years 1962 (when the first deliveries were made) through 2022 are shown on **Figure 9**. The Estimated Average Depth to Groundwater on **Figure 9** is 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

1995-2022

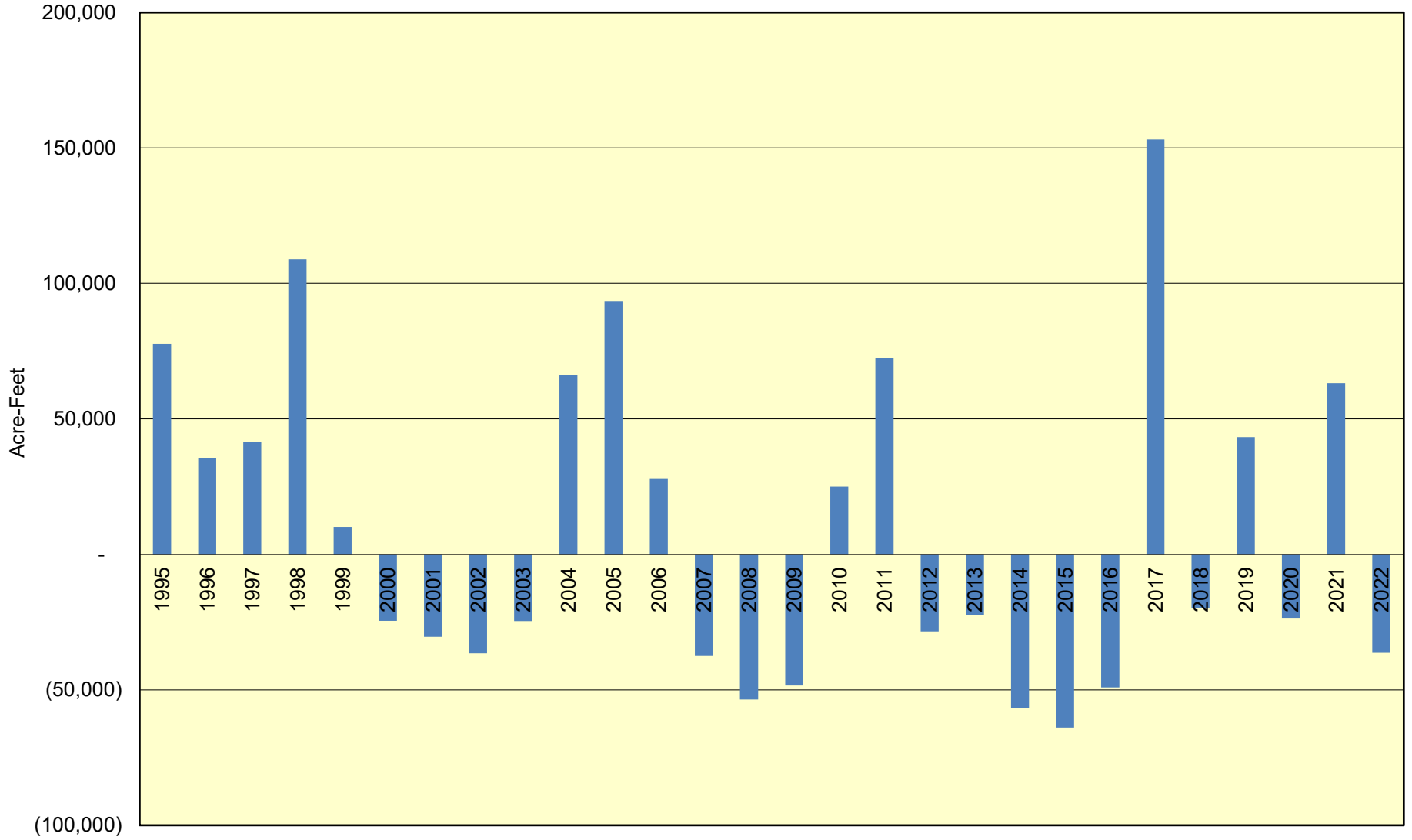
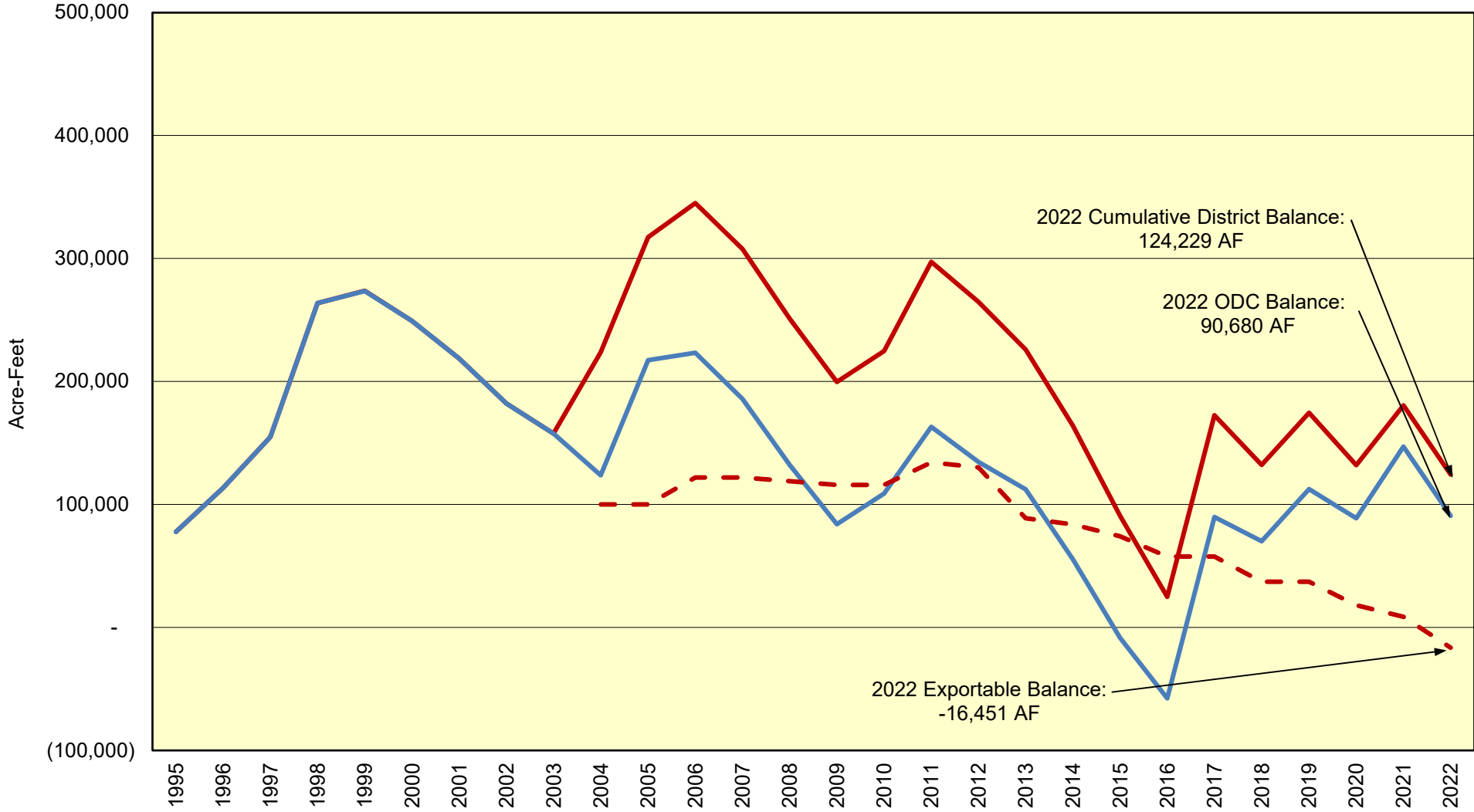


Figure 7

RRBWSO Cumulative Change in Groundwater Storage 1995-2022



Note: Does Not Include Banking for Third Parties

— Cumulative District Balance — ODC Balance - - - Exportable Balance

Figure 8

**ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT
SURFACE WATER DELIVERIES AND CONSUMPTIVE USE
VS. AVERAGE DEPTH TO GROUNDWATER IN WELLS 1962-2022**

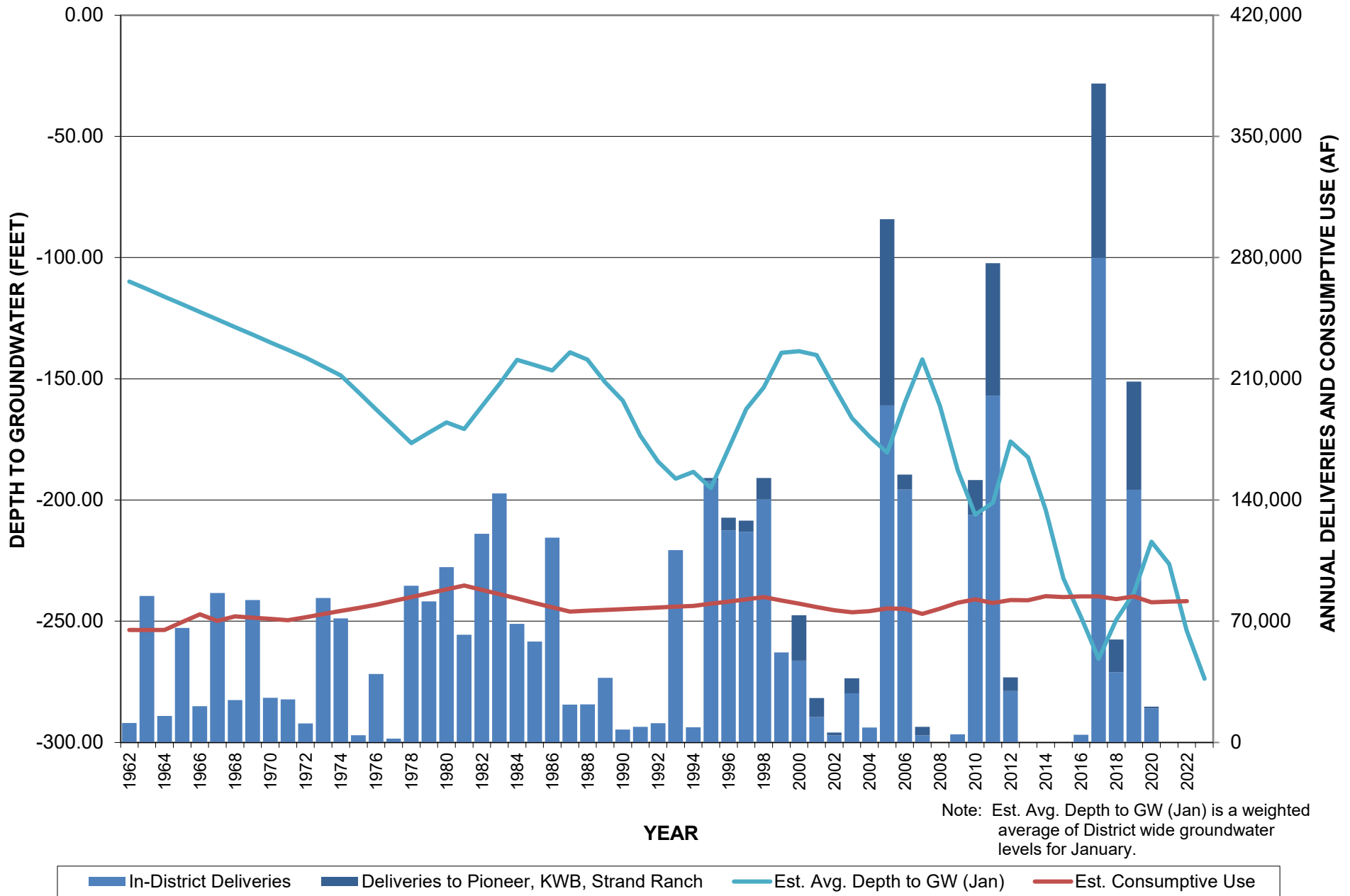


Figure 9

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 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. The District has formed the Rosedale GSA and intends to prepare a new/revised Rosedale GSP that addresses the deficiencies identified by the DWR but is independent of the KGA.

The District's GSP Chapter for the Rosedale-Rio Bravo Management Area includes 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 Fourth Annual Report Water Year 2022 relative to implementation progress for the Rosedale-Rio Bravo Management Area (RRBMA), which is summarized below.

Water levels within North and Central Zones show a muted impact from recharge and recovery operations on the banking projects to the south and indicate a steady decline but have leveled out in the 2017-2022 period. Average levels in the North and Central Zones are above the GSP established Minimum Thresholds. The South and East Zones however depict large fluctuations consistent with large recharge and recovery cycles on the Kern River Fan. Levels were at or near the GSP established Minimum Thresholds in 2016-17, rose to the Measurable Objective at the end of 2019, and have dropped as a result of drought conditions through 2022.

Currently, the RRBMA is in full compliance with the Sustainable Management Criteria. RRBMA will continue to monitor the RMW 's and continue to report in accordance with SGMA guidelines.

Through 2022, RRBMA has successfully exceeded its 2020 Implementation Milestone by about 1,500 AFY and has implemented 86 percent of its 2025 Implementation Milestone of 16,800 AFY. The RRBMA has continued to make progress towards implementing several of its planned GSP Projects during 2022 including:

- Enns Basin Improvement Project (McCaslin Ponds)
- Onyx Ranch Project
- James Groundwater Storage and Recovery Project
- Kern Fan Groundwater Storage Project
- Western Rosedale Lands In-Lieu Service Area Project
- Ten Section Project.

The District's operations during 2022 have been in accordance with its Basin Management Objectives. The District was able to maintain a positive groundwater storage balance during a period of extended drought conditions (2012-2016) and has continued to maintain a positive groundwater balance during the critically dry conditions of 2021 and 2022.

The District is committed to maintaining sustainable groundwater conditions for its landowners. The District continues to pursue options in order to 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 – 2020 District Operations Report

Existing Management Actions	GMP Component Area(s)	Comments
Maintain District Website	<ul style="list-style-type: none"> Stakeholder Involvement Groundwater Sustainability and Operations 	Website updated regularly.
Conduct Landowner Meetings	<ul style="list-style-type: none"> Stakeholder Involvement Groundwater Sustainability and Operations 	Five Stakeholder Advisory Committee meetings were held during 2022 as a part of the GSP management actions.
District Groundwater Advisory Committee	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Stakeholder Involvement Monitoring Programs Groundwater Resource Protection Groundwater Planning and Management 	Committee meetings are held on a regular basis.
KCWA Participation	<ul style="list-style-type: none"> Stakeholder Involvement Monitoring Programs Groundwater Sustainability and Operations Groundwater Planning and Management 	Ongoing participation in KCWA activities.
Cooperation with Banking Partners	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 IRWVG, Kern River Fan Group and other similar agencies	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> Monitoring Programs 	Measured groundwater levels in 17 wells monthly.
Use of District Groundwater Model	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Monitoring Programs 	Monitoring well network is reviewed and updated as data gap locations are identified.
Add new wells to network	<ul style="list-style-type: none"> Monitoring Programs 	New monitoring wells are added to the network to replace wells that are lost.
Review of available groundwater quality data	<ul style="list-style-type: none"> Monitoring Programs Groundwater Resource Protection 	Review of groundwater quality data was conducted during 2022.
Groundwater level monitoring protocols	<ul style="list-style-type: none"> Monitoring Programs 	Followed when monitoring groundwater levels in wells.
Flow measurement in District facilities	<ul style="list-style-type: none"> Monitoring Programs 	Surface and return water flows are measured into and through the District's facilities daily.
Review of surface water quality data	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Groundwater Resource Protection Groundwater Sustainability and Operations 	Routine maintenance operations were conducted during 2022.
Review of development plans, land use plans, and environmental documents	<ul style="list-style-type: none"> Groundwater Resource Protection Groundwater Planning and Management 	Comments are made to planning agencies as appropriate.
Require fencing with development	<ul style="list-style-type: none"> Groundwater Resource Protection 	Comments are made to planning agencies as land development occurs.
Protect facilities from urban and agricultural storm water runoff	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Groundwater Resource Protection 	Comments are made to planning agencies as appropriate.
Encourage proper use of pesticides, herbicides and fertilizers	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Groundwater Sustainability and Operations 	Made use of operational exchanges and coordination with other water agencies.
Encourage water conservation measures	<ul style="list-style-type: none"> • Stakeholder Involvement • Groundwater Sustainability and Operations 	Continued support of Mobile Lab and other educational efforts.
Protect potential recharge areas from development	<ul style="list-style-type: none"> • Groundwater Resource Protection • Groundwater Planning and Management 	Recharge areas are protected from development.
Notice availability of Groundwater Reports	<ul style="list-style-type: none"> • Stakeholder Involvement • Groundwater Planning and Management 	Reports are available on the District's website.
Monitoring programs for groundwater banking program operations	<ul style="list-style-type: none"> • Monitoring Programs • Groundwater Resource Protection 	Monitoring programs were followed for banking program operations.
Groundwater quality monitoring program protocols	<ul style="list-style-type: none"> • Monitoring Programs 	Followed standard groundwater quality test methods and procedures.
Program funding	<ul style="list-style-type: none"> • Groundwater Planning and Management 	Service charges and banking program proceeds are used to fund management actions.
Development of Additional Recharge Basins in Stockdale East and James Groundwater Storage and Recovery Projects	<ul style="list-style-type: none"> • Groundwater Sustainability and Operations 	Work on these recharge and recovery projects is on-going.
District Operations Report	<ul style="list-style-type: none"> • Groundwater Planning and Management 	Report prepared for 2022.
Groundwater Advisory Committee meetings	<ul style="list-style-type: none"> • Stakeholder Involvement • Groundwater Sustainability and Operations • Groundwater Planning and Management 	Conduct annual meeting to discuss District Operations Report.
Update of Groundwater Model	<ul style="list-style-type: none"> • Monitoring Programs 	Update model as necessary to include new facilities and programs.

Existing Management Actions	GMP Component Area(s)	Comments
Add Shallow Depth Piezometers	<ul style="list-style-type: none"> Monitoring Programs 	Shallow depth piezometers are planned adjacent to Allen Road basins.
District Wellhead protection	<ul style="list-style-type: none"> Groundwater Resource Protection 	Protect wellhead during operations and maintenance of District wells.
Prevention of Saline Water Intrusion	<ul style="list-style-type: none"> Groundwater Resource Protection 	Monitor saline water intrusion in adjacent areas.
Acquire additional recharge land	<ul style="list-style-type: none"> Groundwater Sustainability and Operations Groundwater Planning and Management 	Identify potential recharge land for possible purchase.
Investigate future use of reclaimed water	<ul style="list-style-type: none"> Groundwater Sustainability and Operations 	Work with NORSD to investigate potential recharge of reclaimed water.
GSP Plan Chapter for the RRBMA	<ul style="list-style-type: none"> Groundwater Planning and Management 	Annual Report for 2022 prepared for RRBMA
Investigate grant funding options	<ul style="list-style-type: none"> 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

¹Maximum recharge from BVWSD in RRBWSD.

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

³Maximum 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.

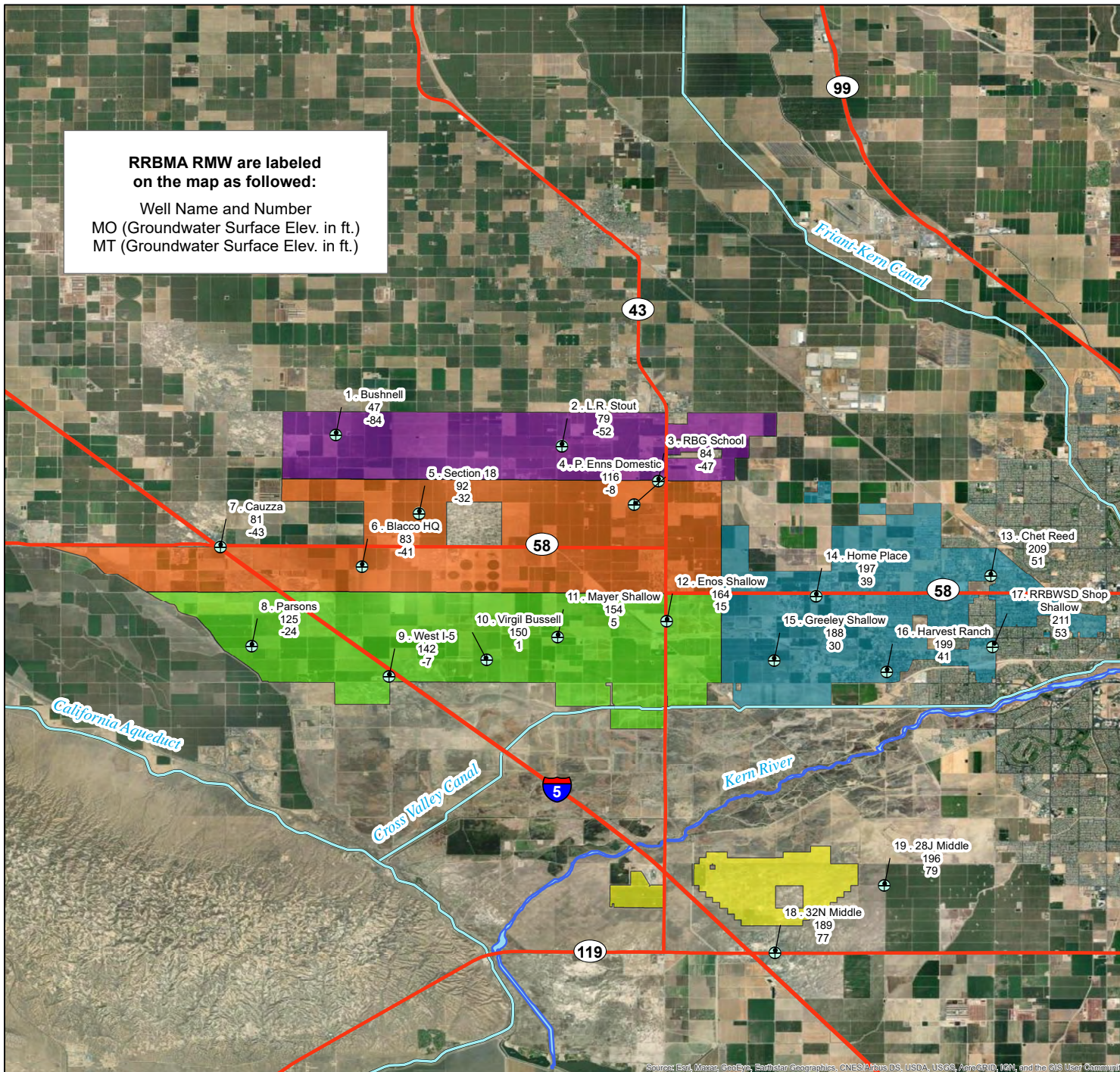
SECTION 9 – REFERENCES

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. 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.
8. Rosedale-Rio Bravo Water Storage District, *Groundwater Sustainability Plan Chapter for the Rosedale-Rio Bravo Management Area Annual Report 2021, Kern Groundwater Authority Groundwater Sustainability Agency*, August 14, 2022.
9. State of California Water Resources Control Board, California Public Water Systems online database (SDWIS), <https://sdwis.waterboards.ca.gov/PDWW/>.
10. Todd Groundwater, *Kern Subbasin Groundwater Sustainability Plans Fourth Annual Report Water Year 2022*, March 31, 2023.
11. Water Education Foundation, *The 2014 Sustainable Groundwater Management Act: A Handbook to Understanding and Implementing the Law*, 2015.

Appendix 1

Groundwater Level Hydrographs

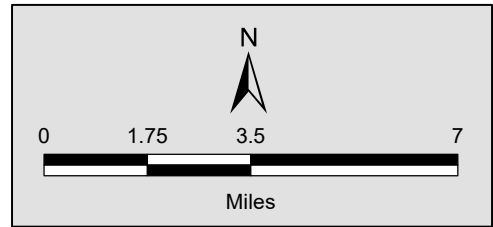
RRBMA Monitoring Areas - RMW Water Level MOs and MTs



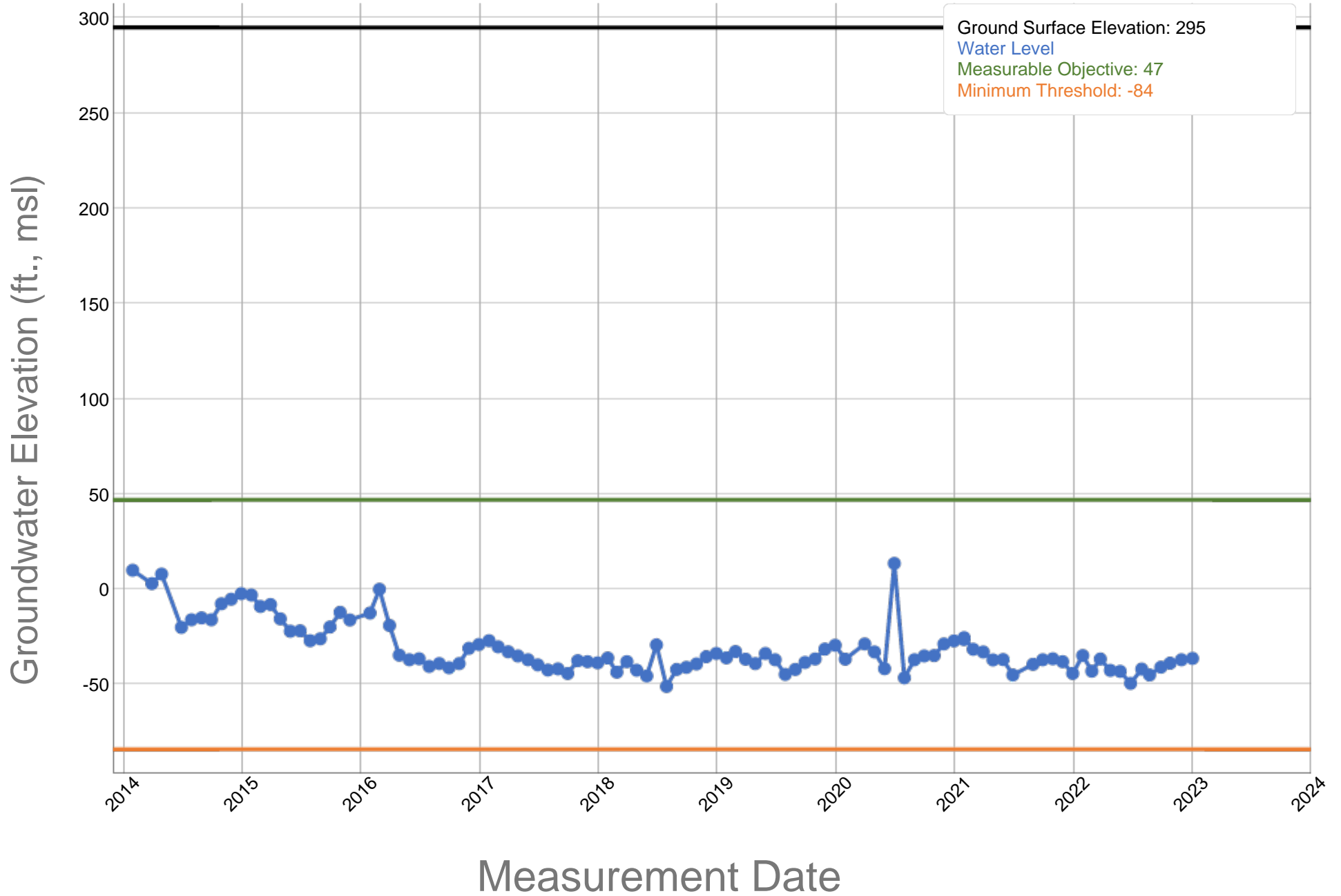
Legend

- ⊕ RRBMA RMW (Water Level)
- Major Highways
- Major Conveyance Facilities
- Kern River
- North Monitoring Area
- Central Monitoring Area
- South Monitoring Area
- East Monitoring Area
- South of the River Monitoring Area

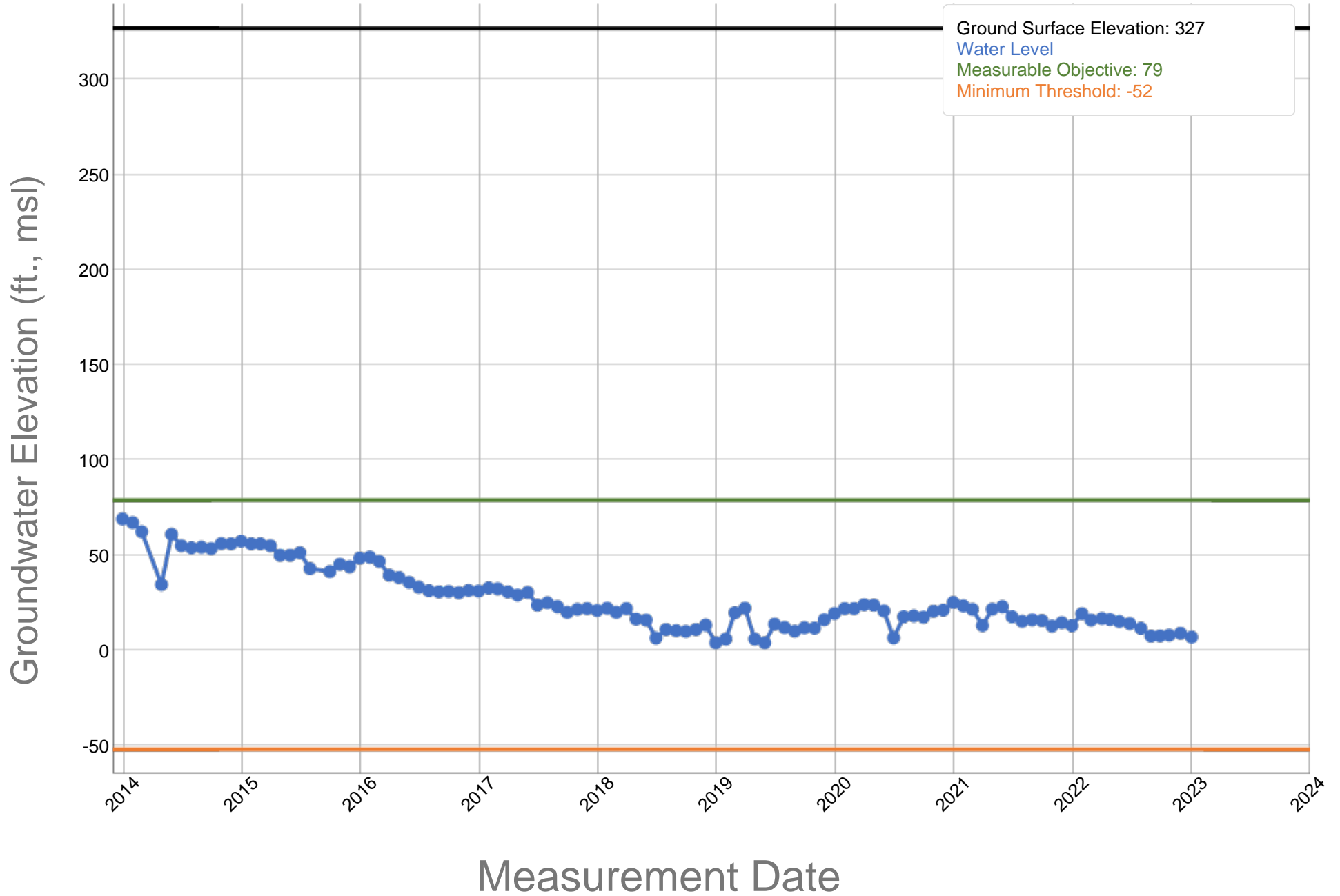
*RMW = Representative Monitoring Well
 MO = Measurable Objective
 MT = Minimum Threshold*



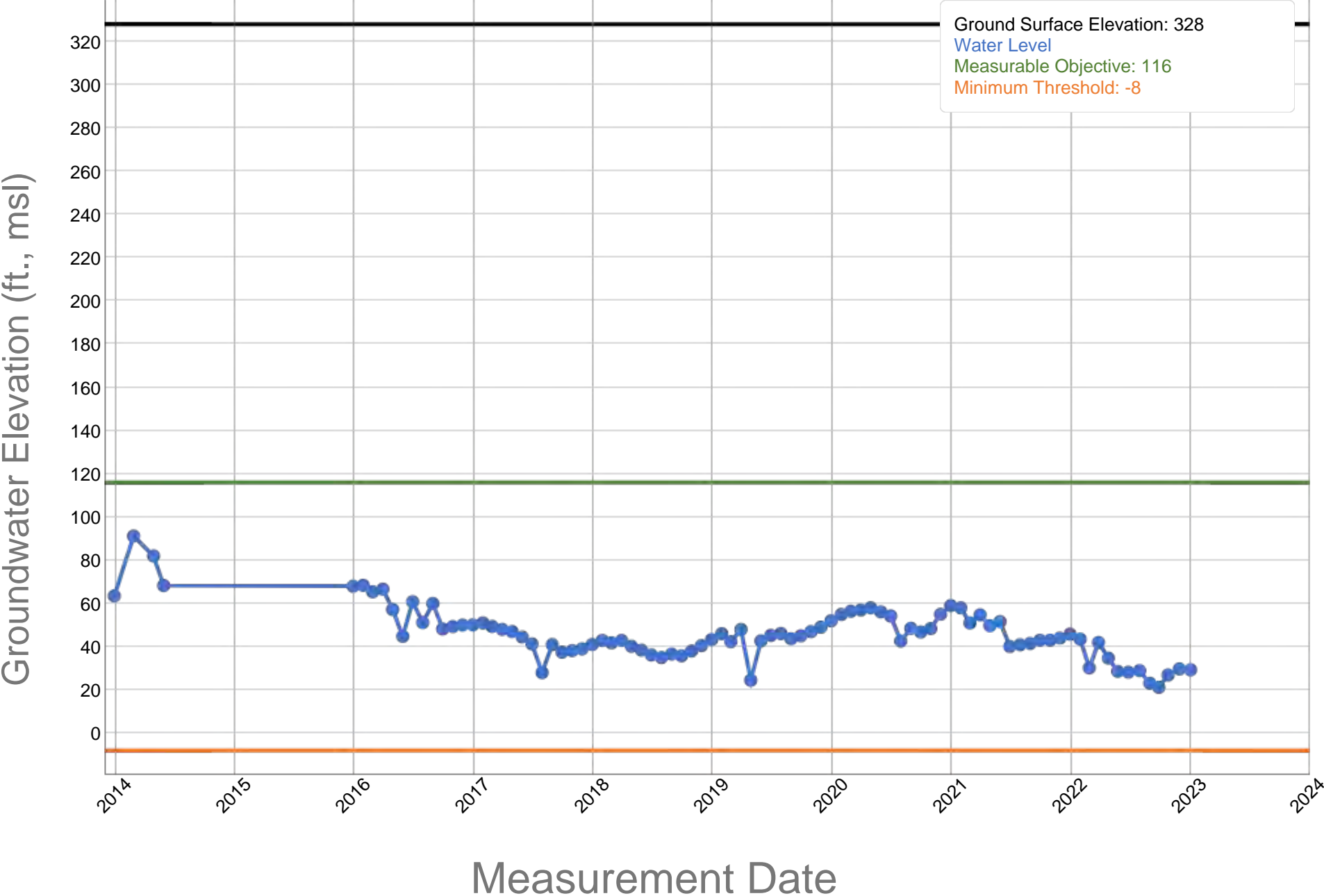
Rosedale-Rio Bravo Water Storage District - Bushnell - 354350N1193586W001



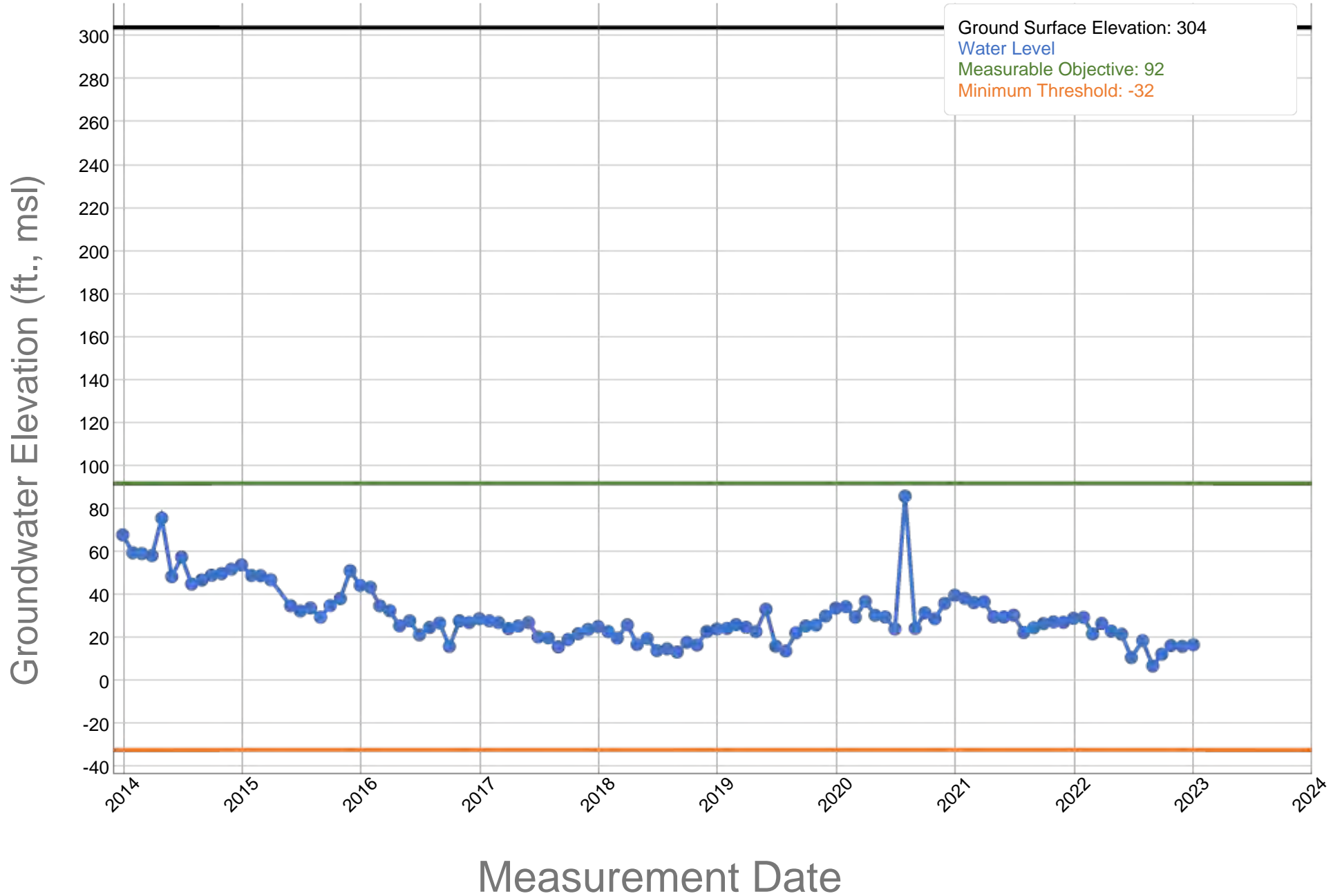
Rosedale-Rio Bravo Water Storage District - L.R. Stout - 354309N1192859W001



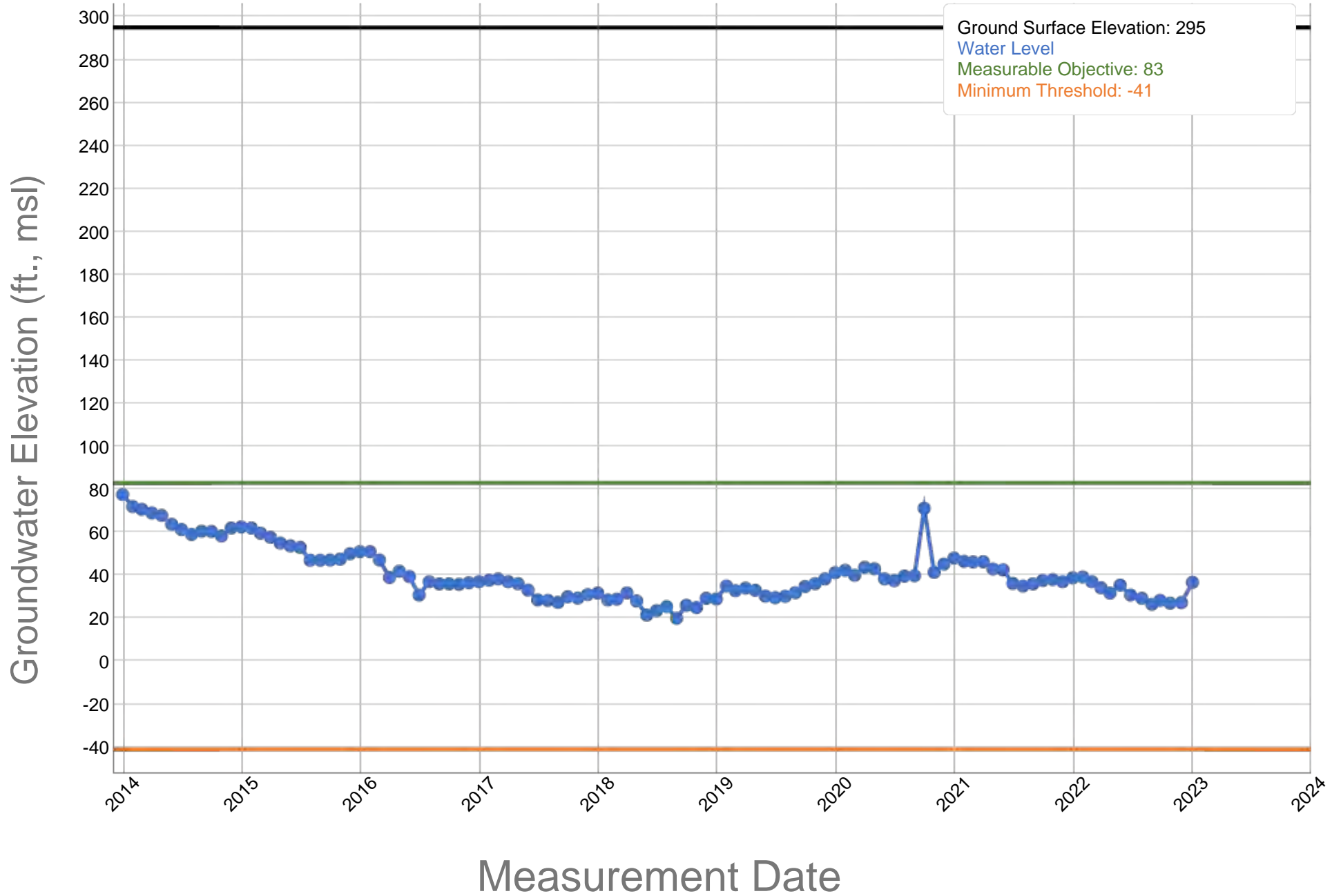
Rosedale-Rio Bravo Water Storage District - P. Enns Domestic - 354121N1192623W001



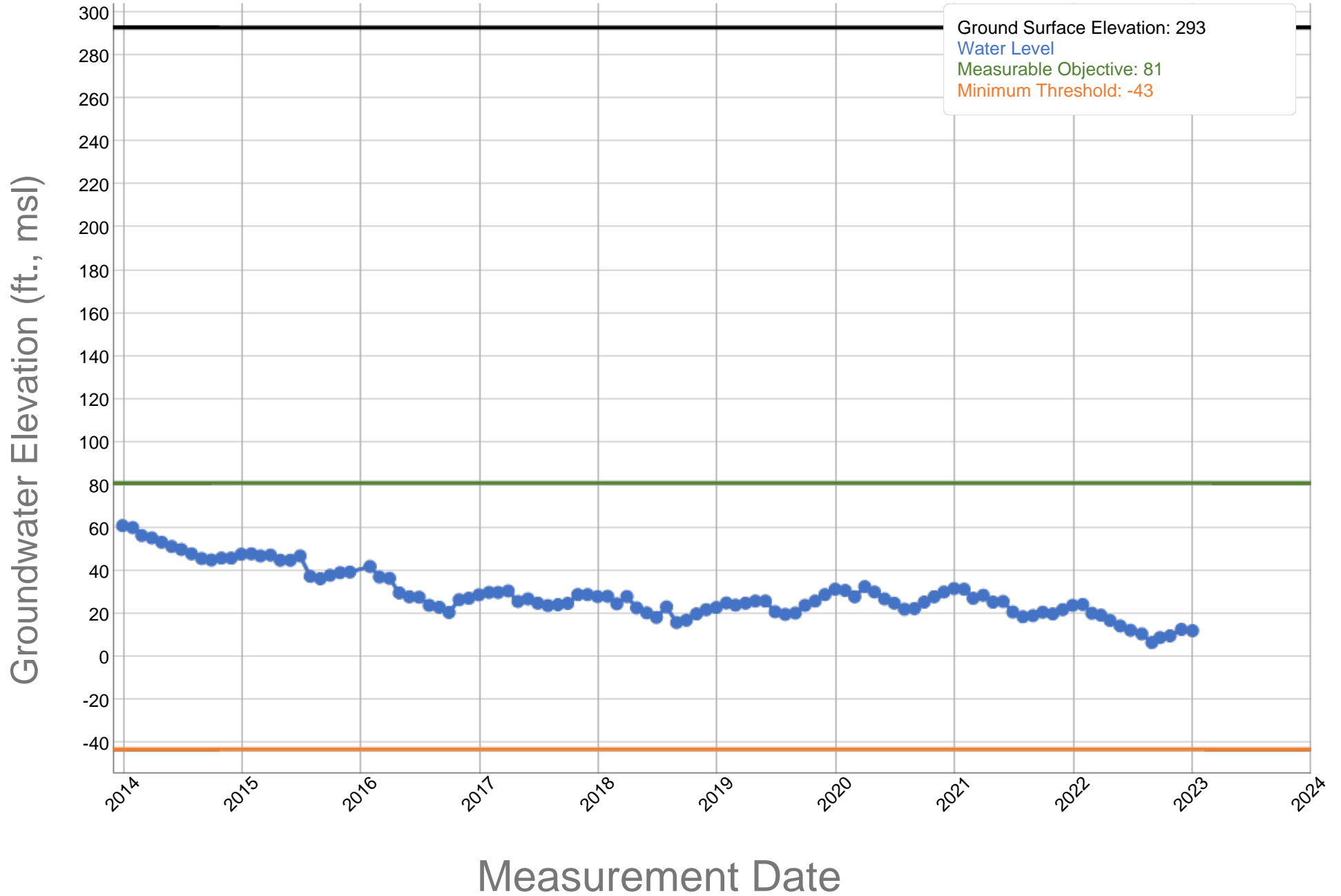
Rosedale-Rio Bravo Water Storage District - Section 18 - 354090N1193318W001



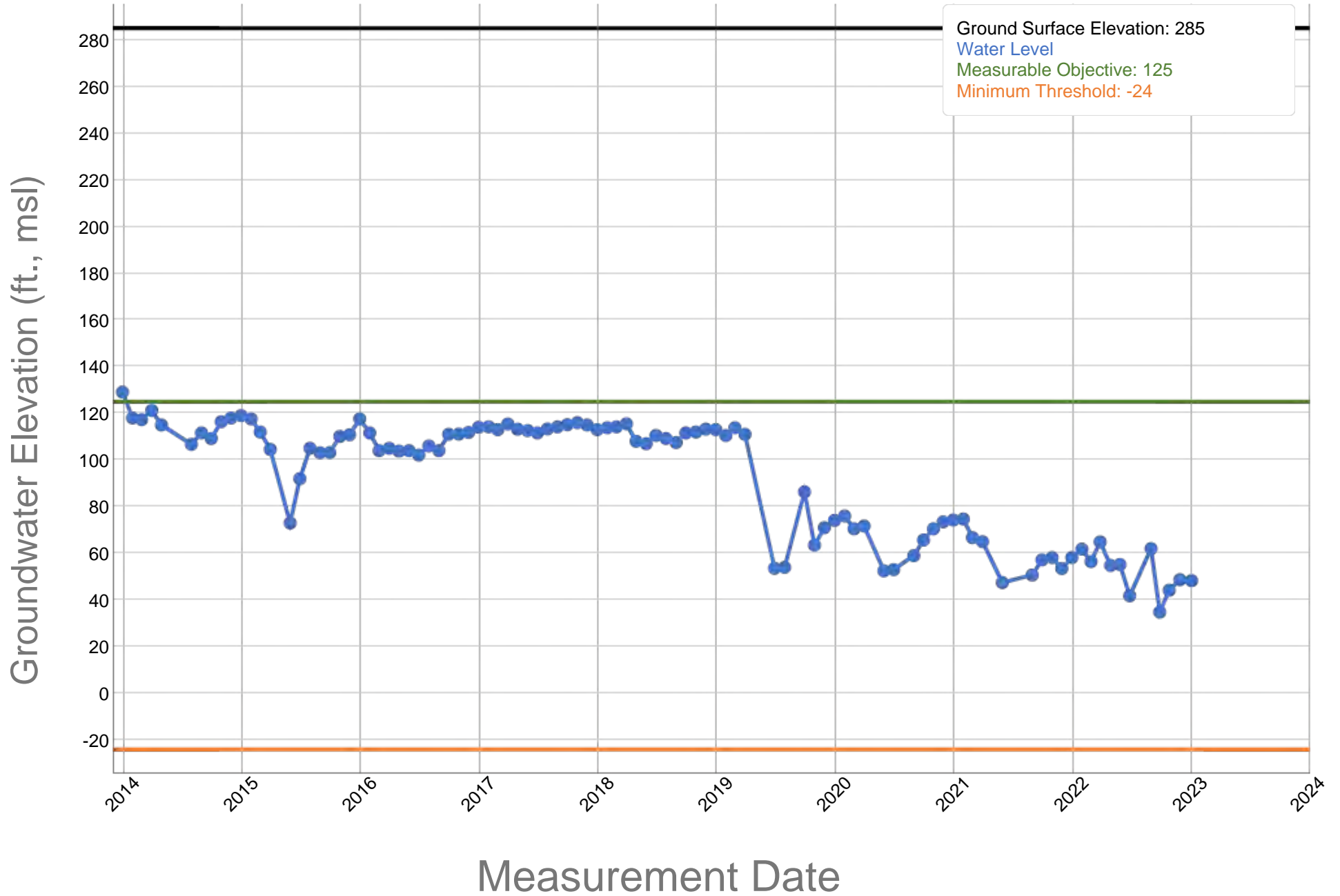
Rosedale-Rio Bravo Water Storage District - Blacco HQ - 353915N1193454W001



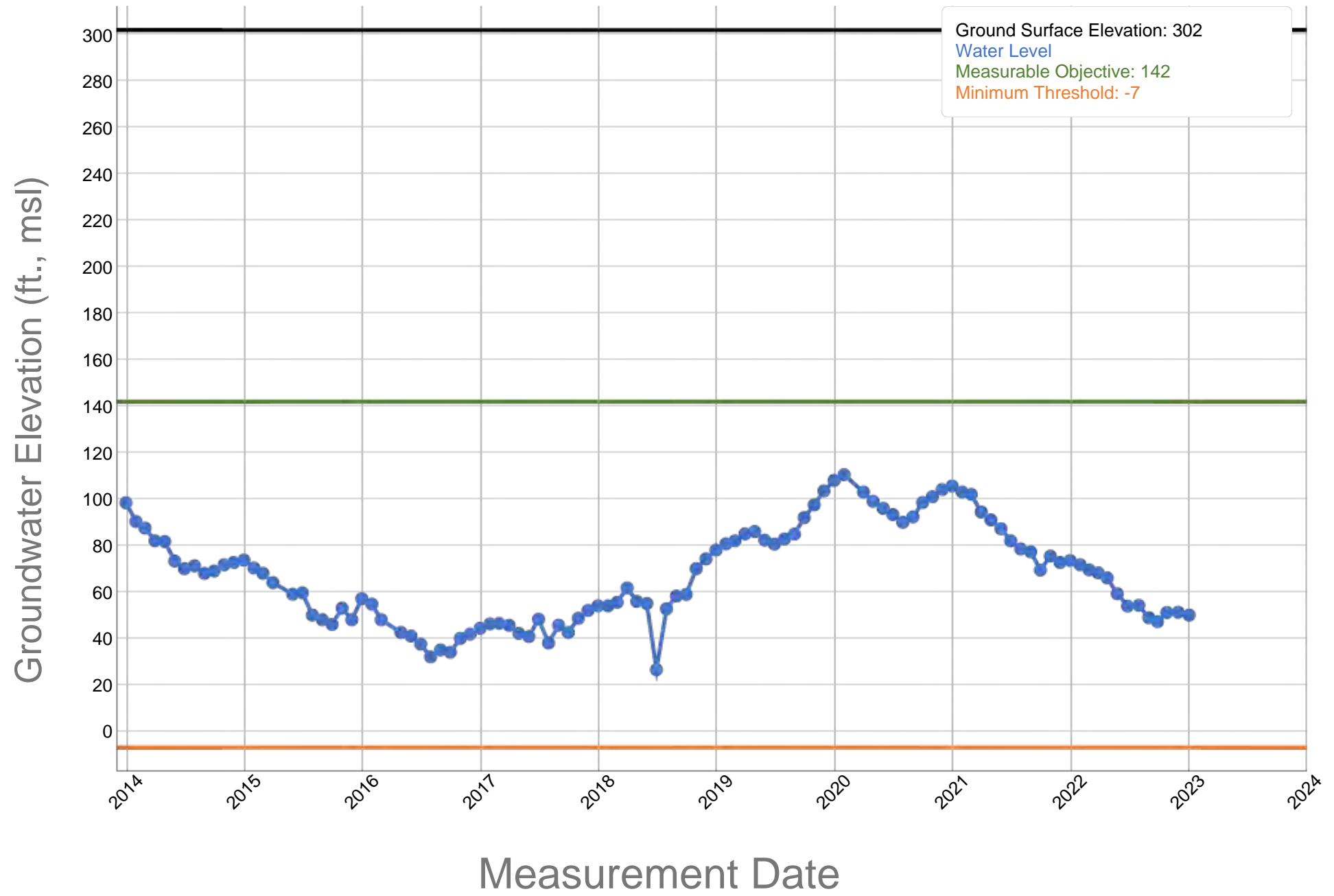
Rosedale-Rio Bravo Water Storage District - Cauzza - 353986N1193948W001



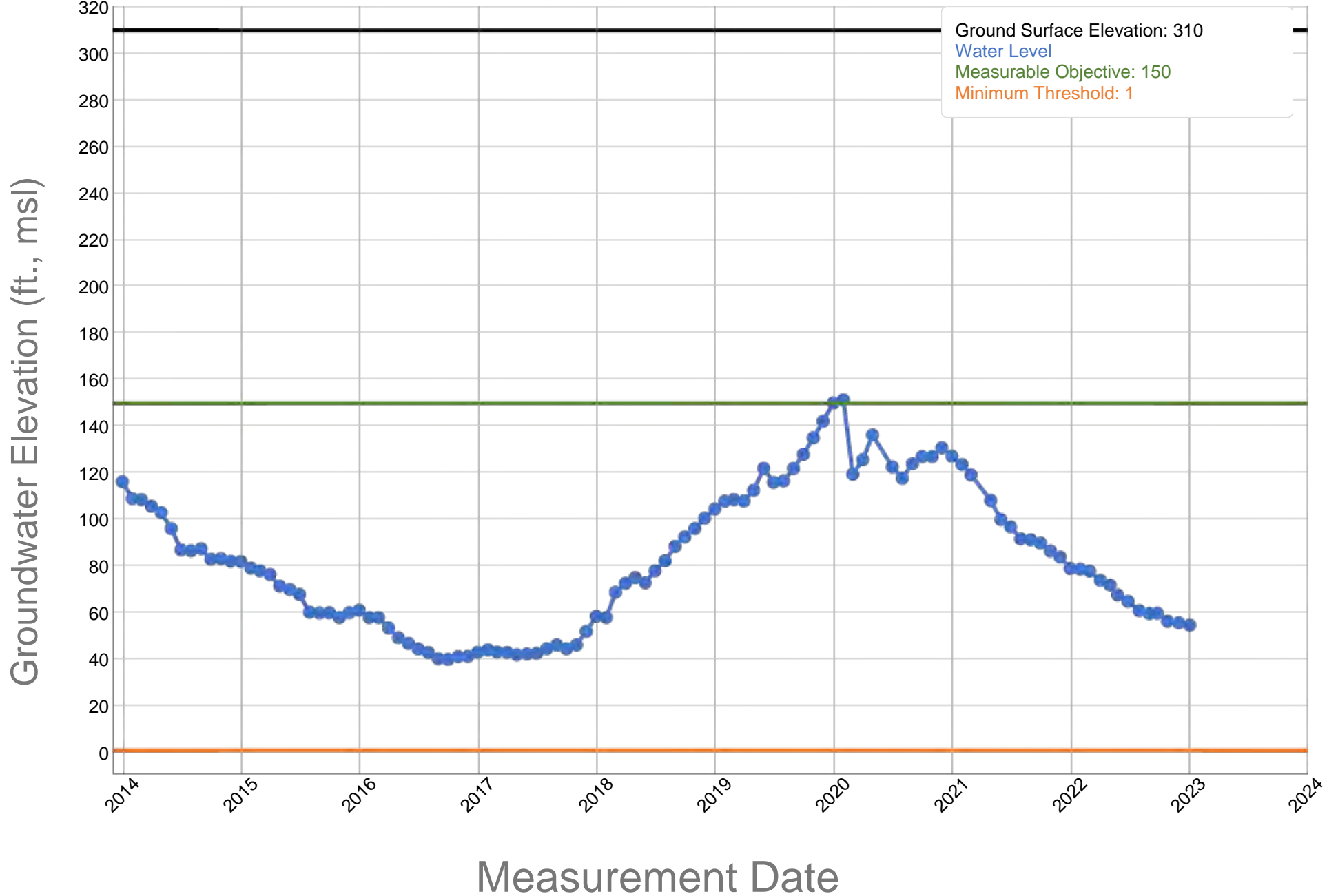
Rosedale-Rio Bravo Water Storage District - Parsons - 353663N1193859W001



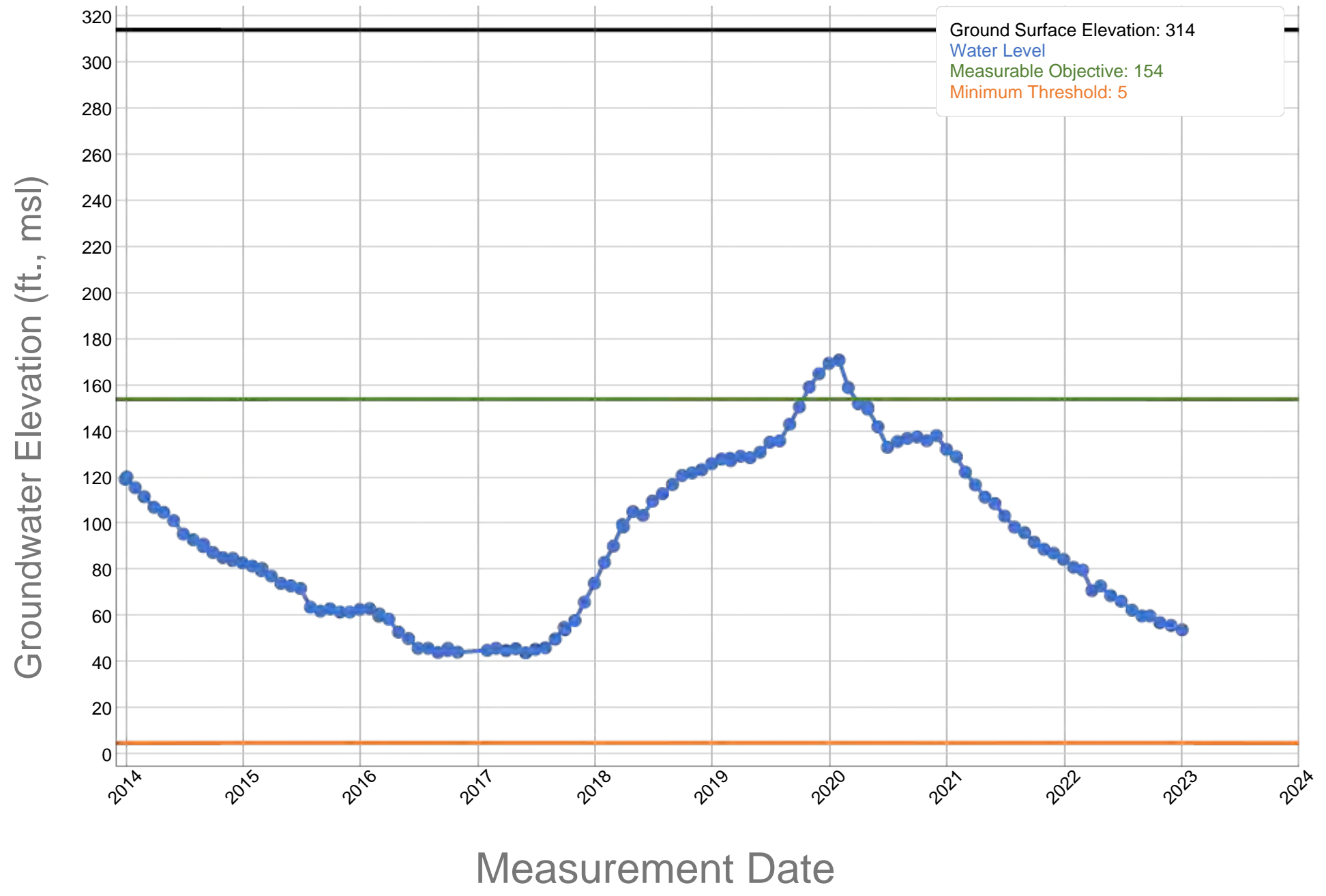
Rosedale-Rio Bravo Water Storage District - West I-5 - 353564N1193412W001



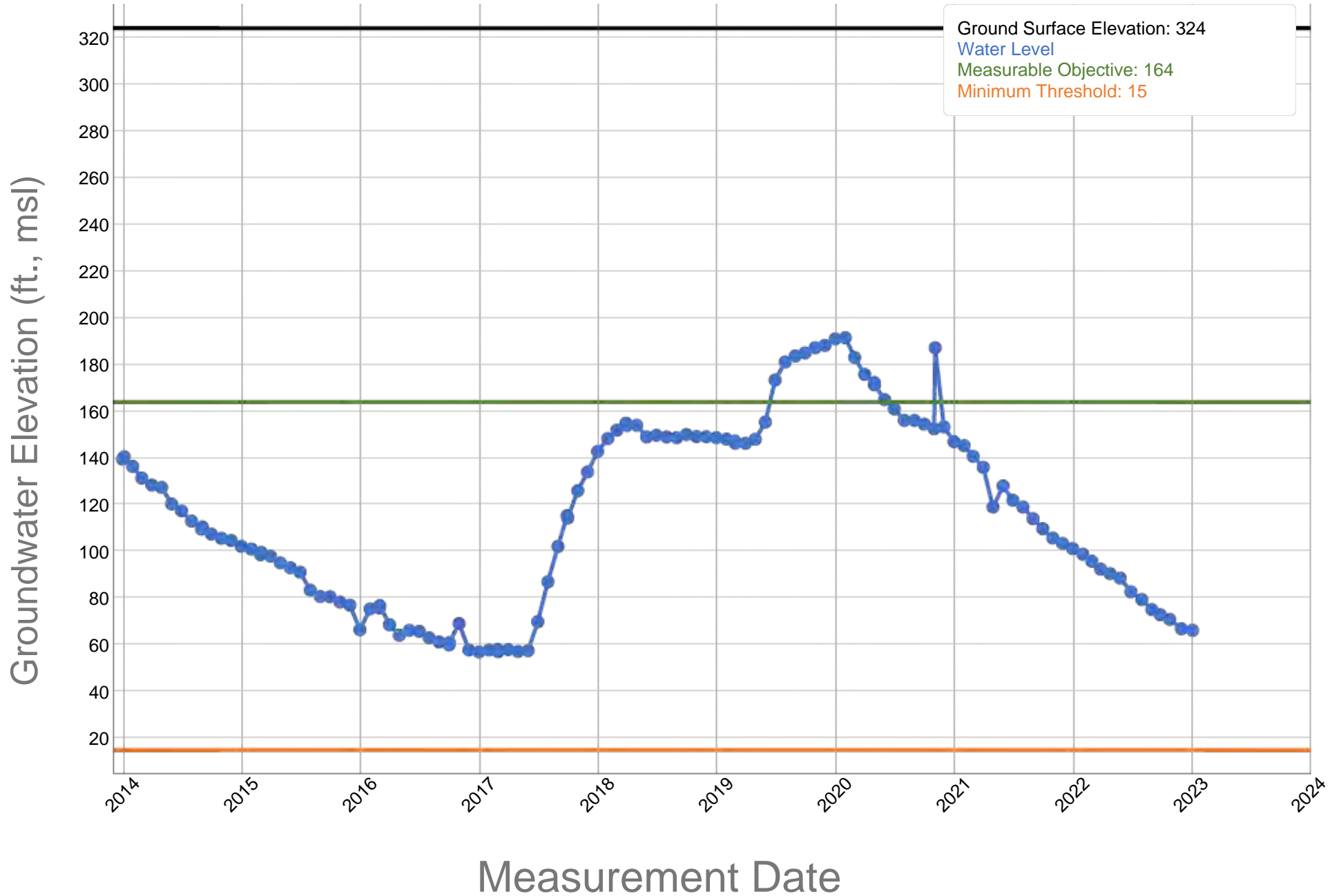
Rosedale-Rio Bravo Water Storage District - Virgil Bussell - 353619N1193099W001



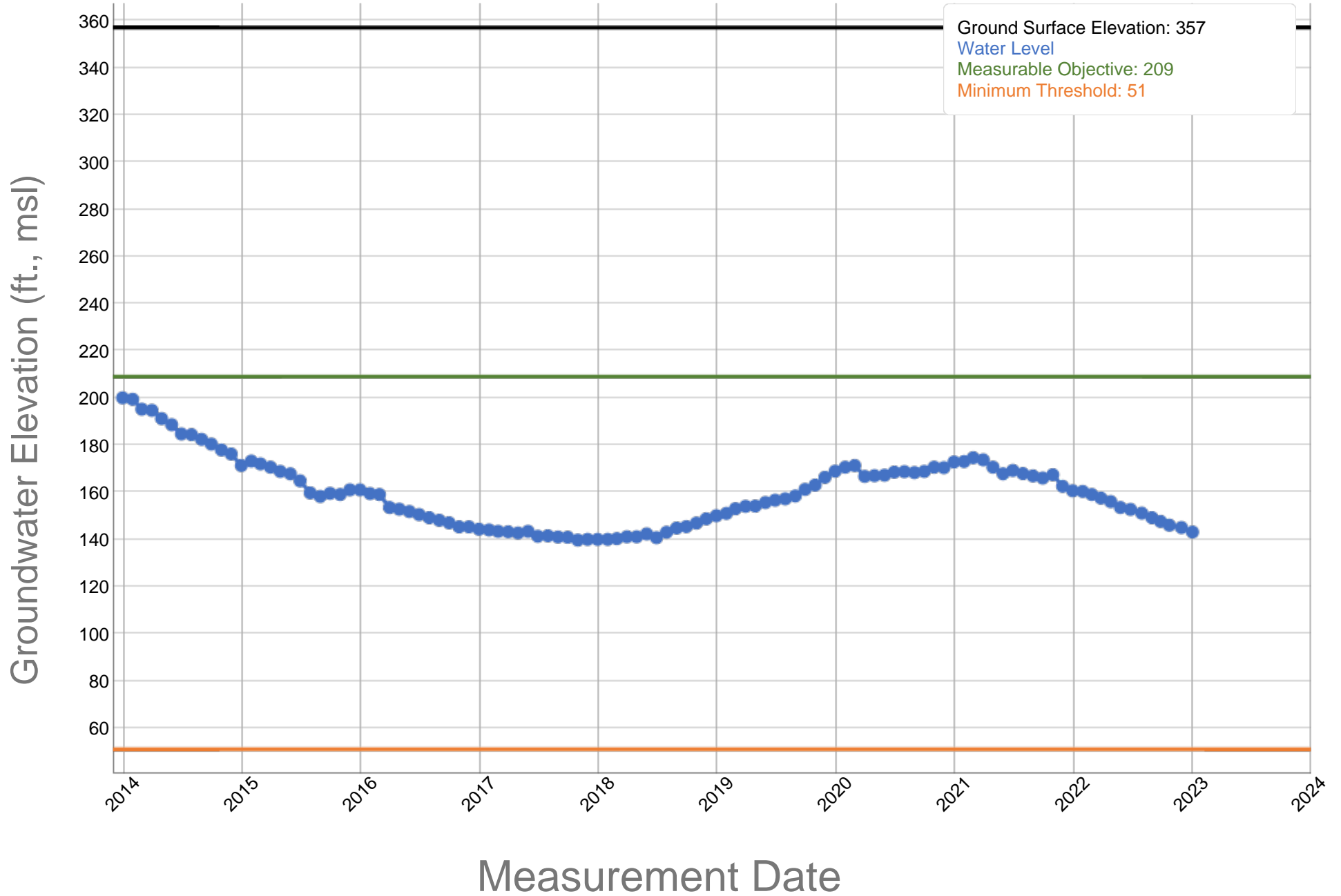
Rosedale-Rio Bravo Water Storage District - 27N Mayer - 353699N1192856W002



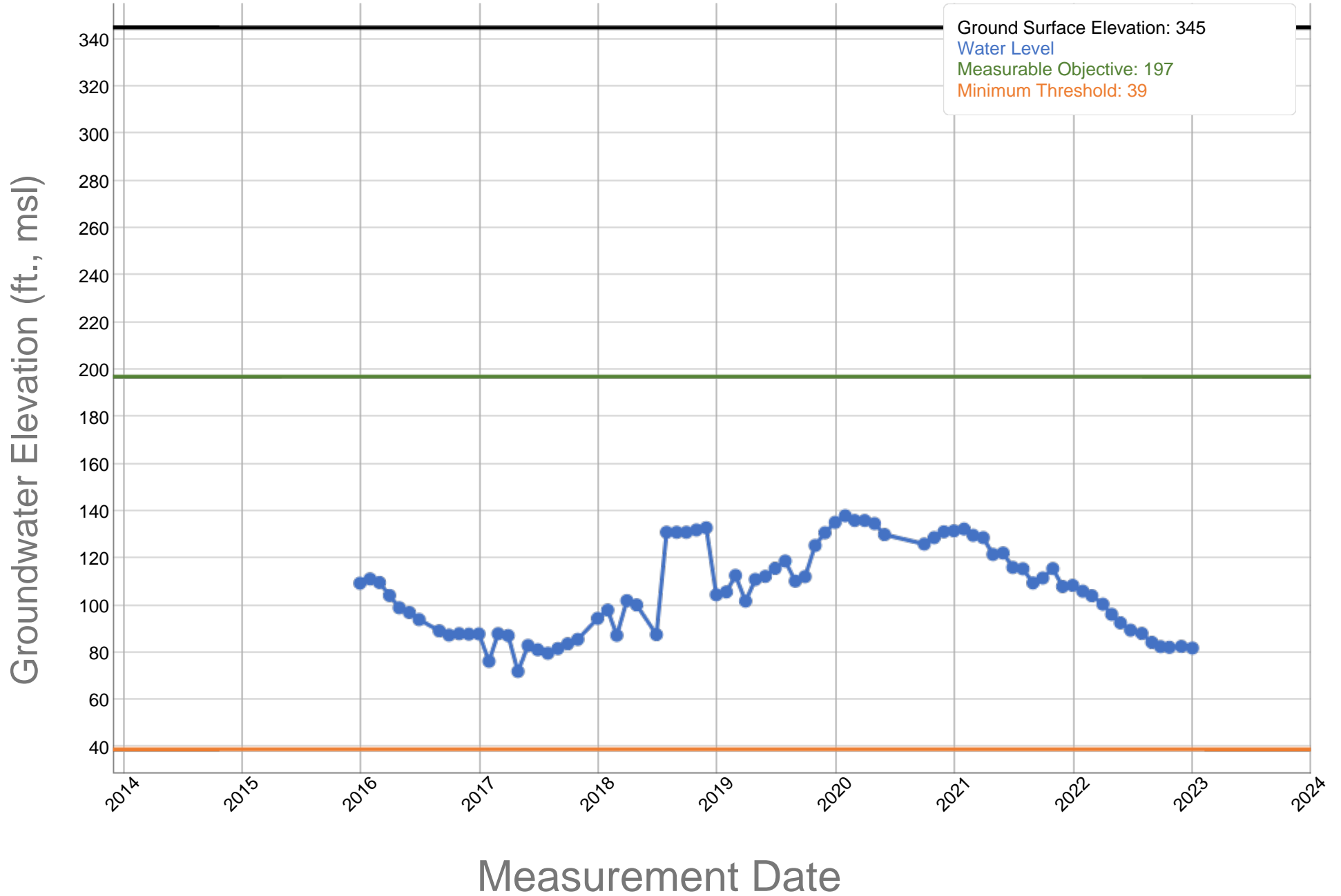
Rosedale-Rio Bravo Water Storage District - 25M Enos - 353760N1192498W002



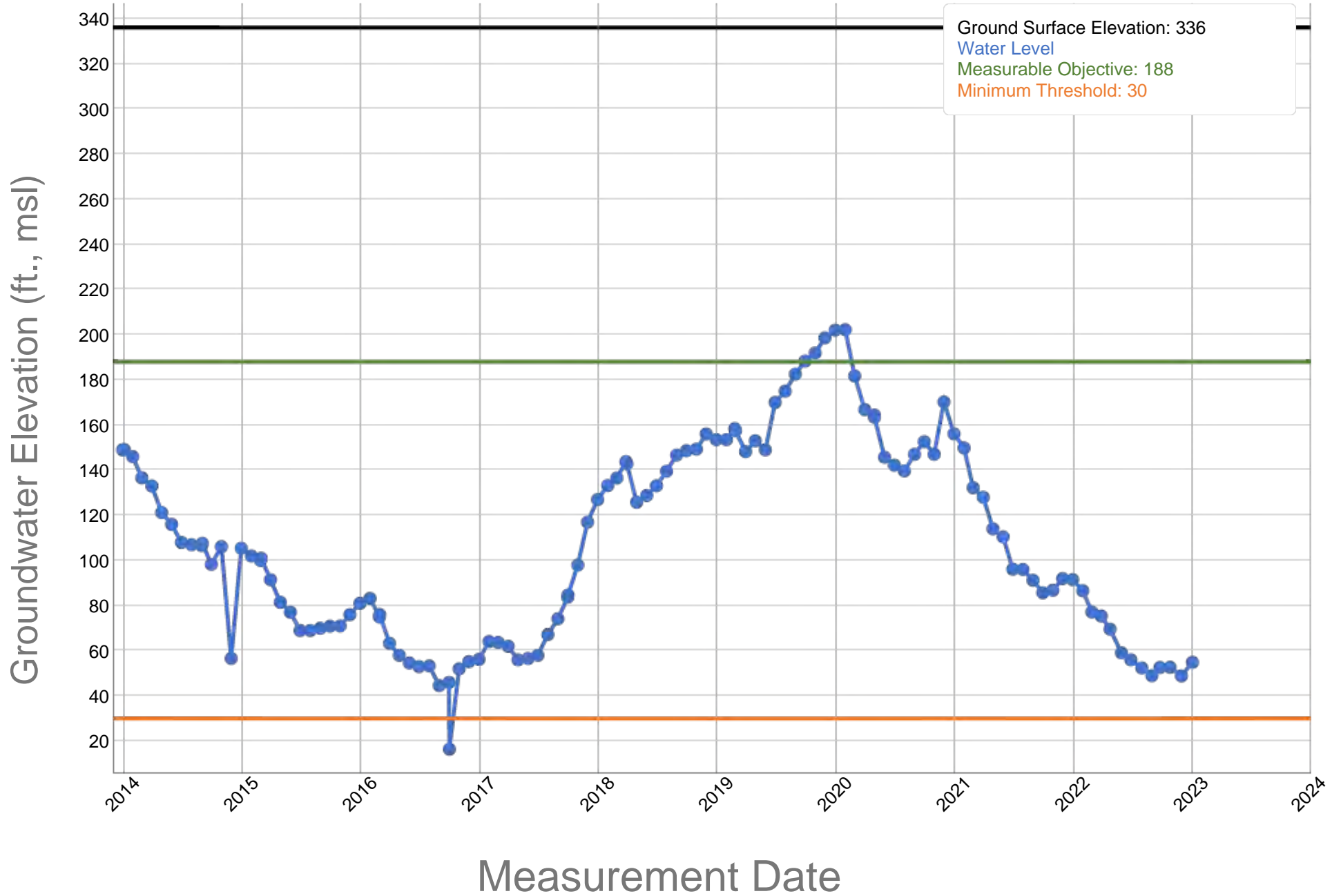
Rosedale-Rio Bravo Water Storage District - Chet Reed - 353890N1191471W001



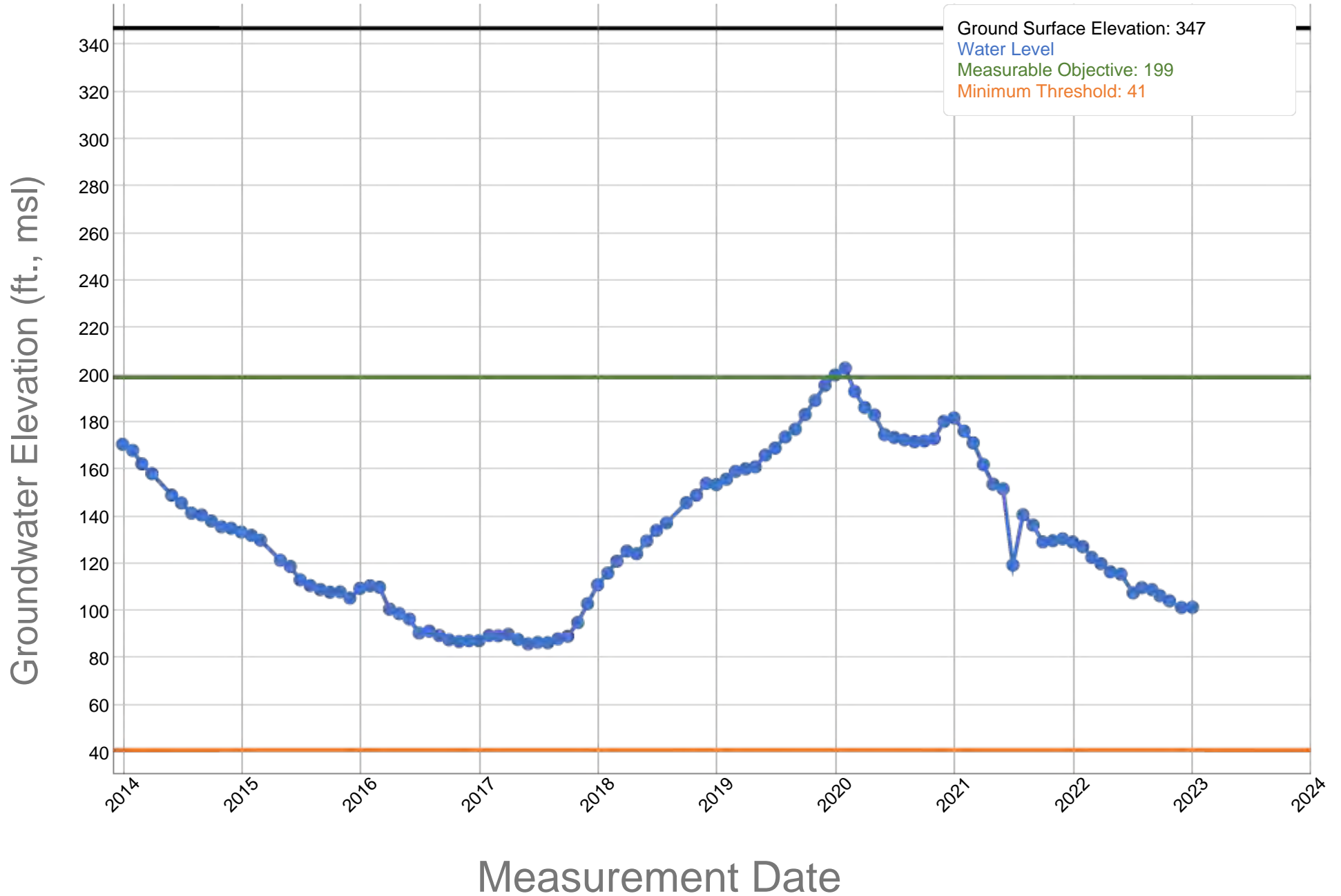
Rosedale-Rio Bravo Water Storage District - Home Place - 353824N1192035W001



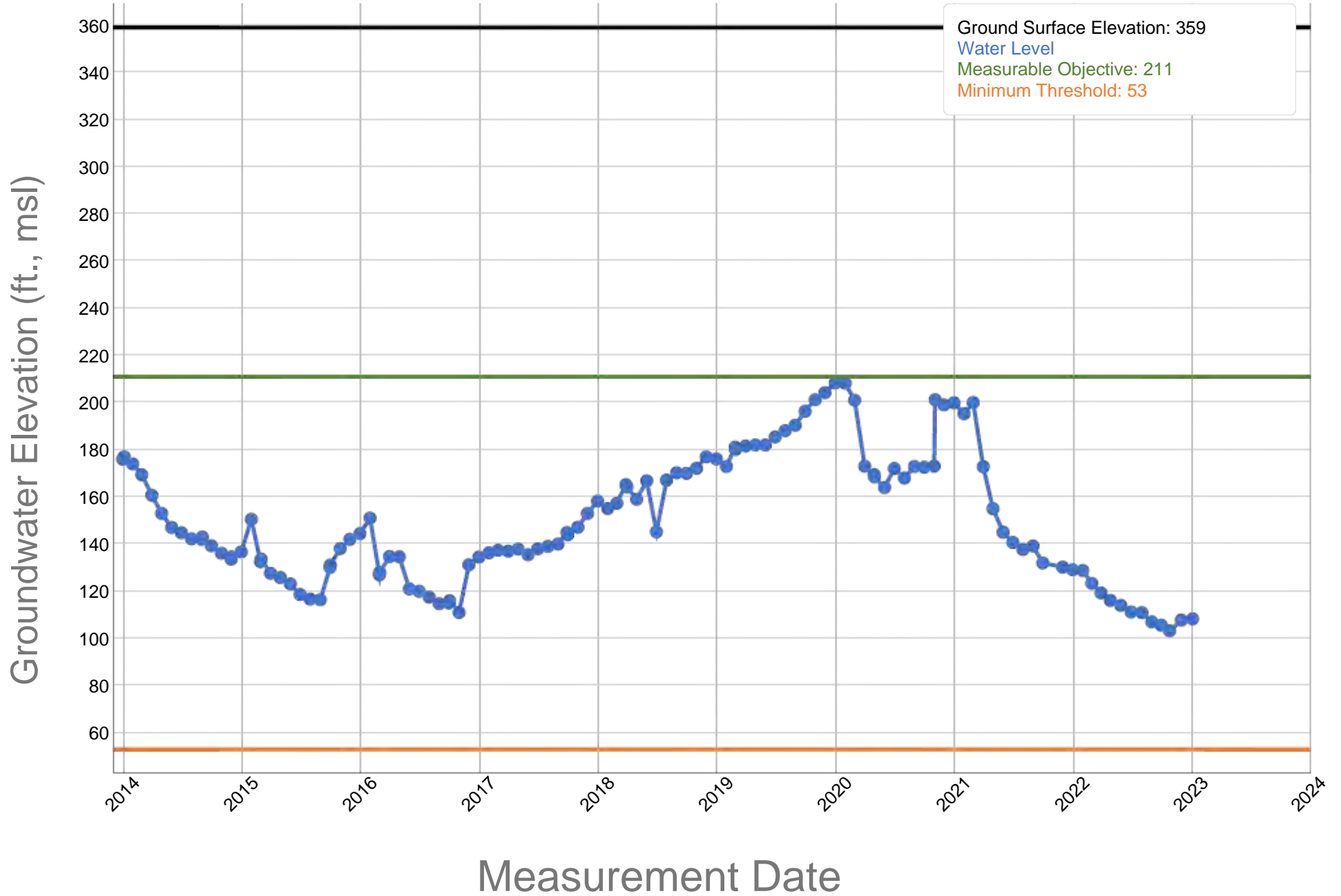
Rosedale-Rio Bravo Water Storage District - 31H Greeley - 353618N1192169W001



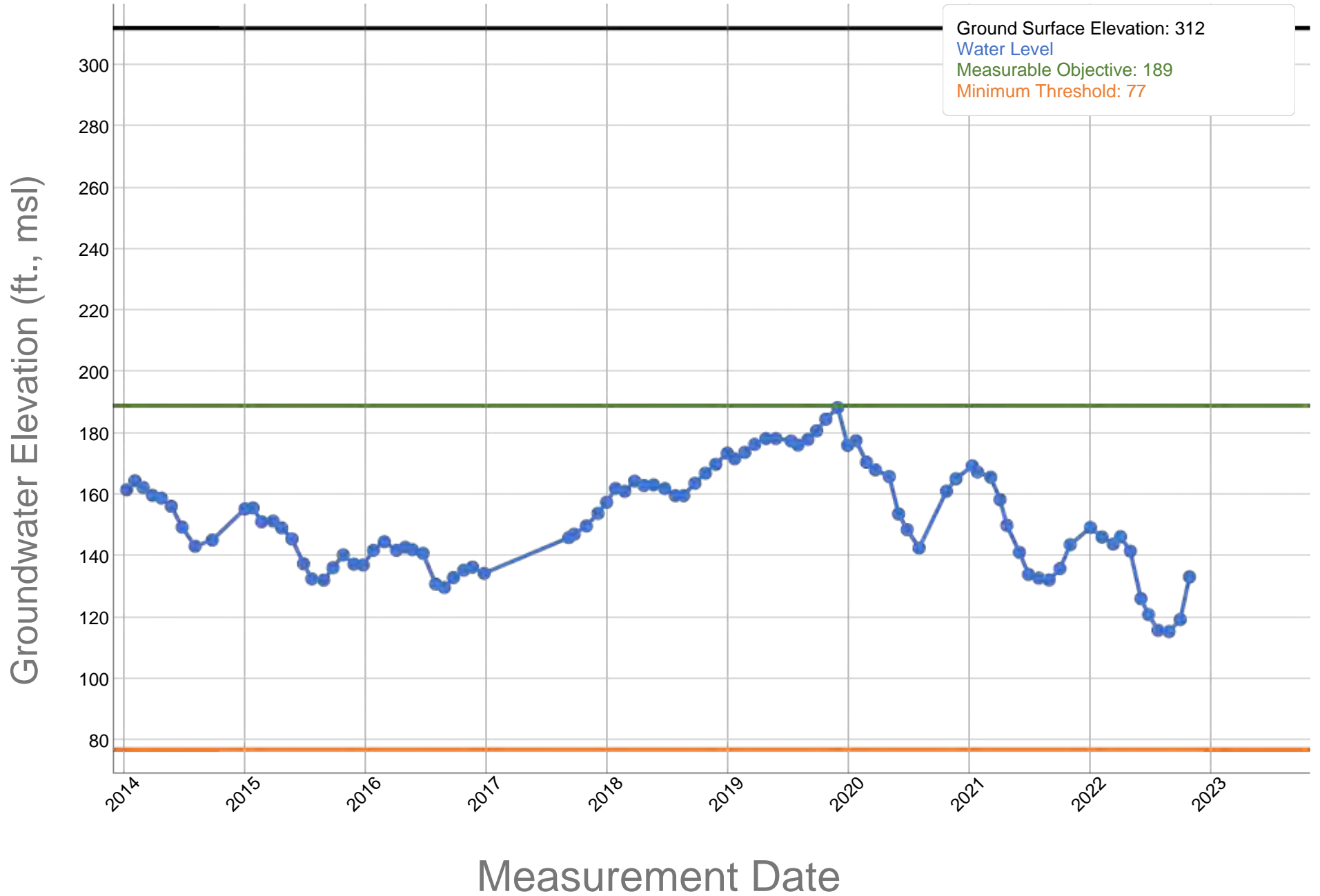
Rosedale-Rio Bravo Water Storage District - Harvest Ranch - 353634N1191766W001



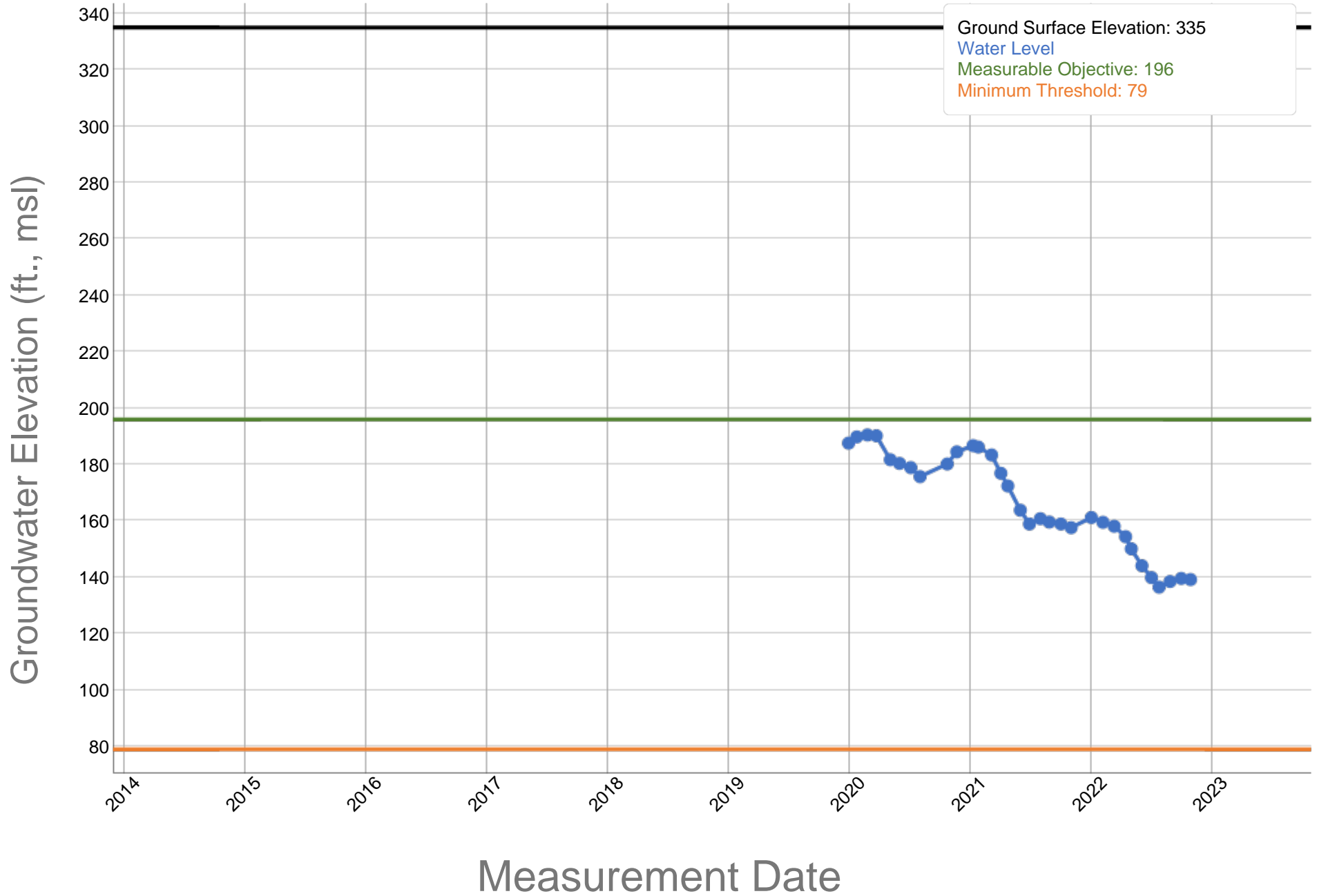
Rosedale-Rio Bravo Water Storage District - 35H RRBWSD Shop - 353620N1191457W002



Rosedale-Rio Bravo Water Storage District - 32N Triple - 352673N1192138W002

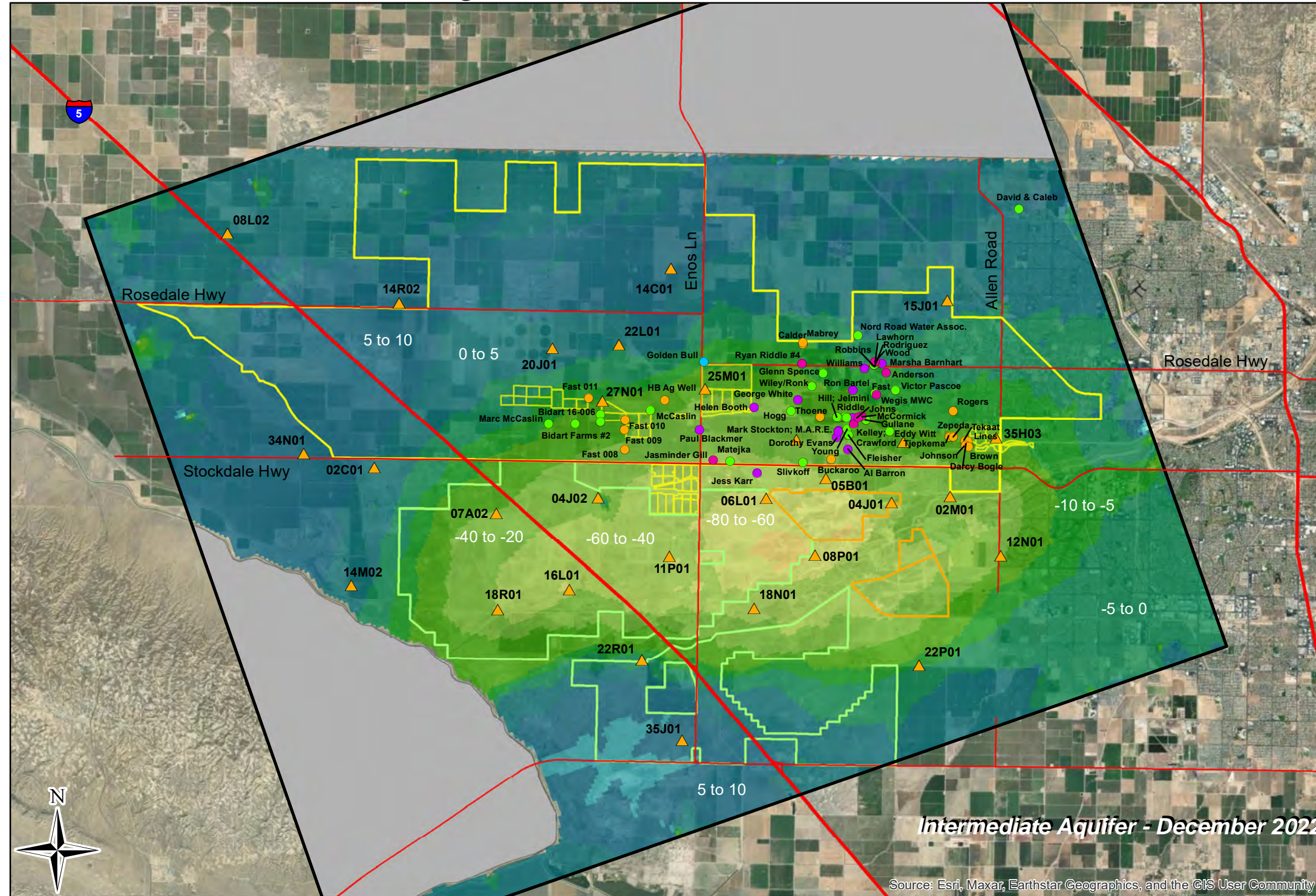


Rosedale-Rio Bravo Water Storage District - 28J Triple - 352889N1191814W001



Appendix 2

Groundwater Model Figures



Map Features

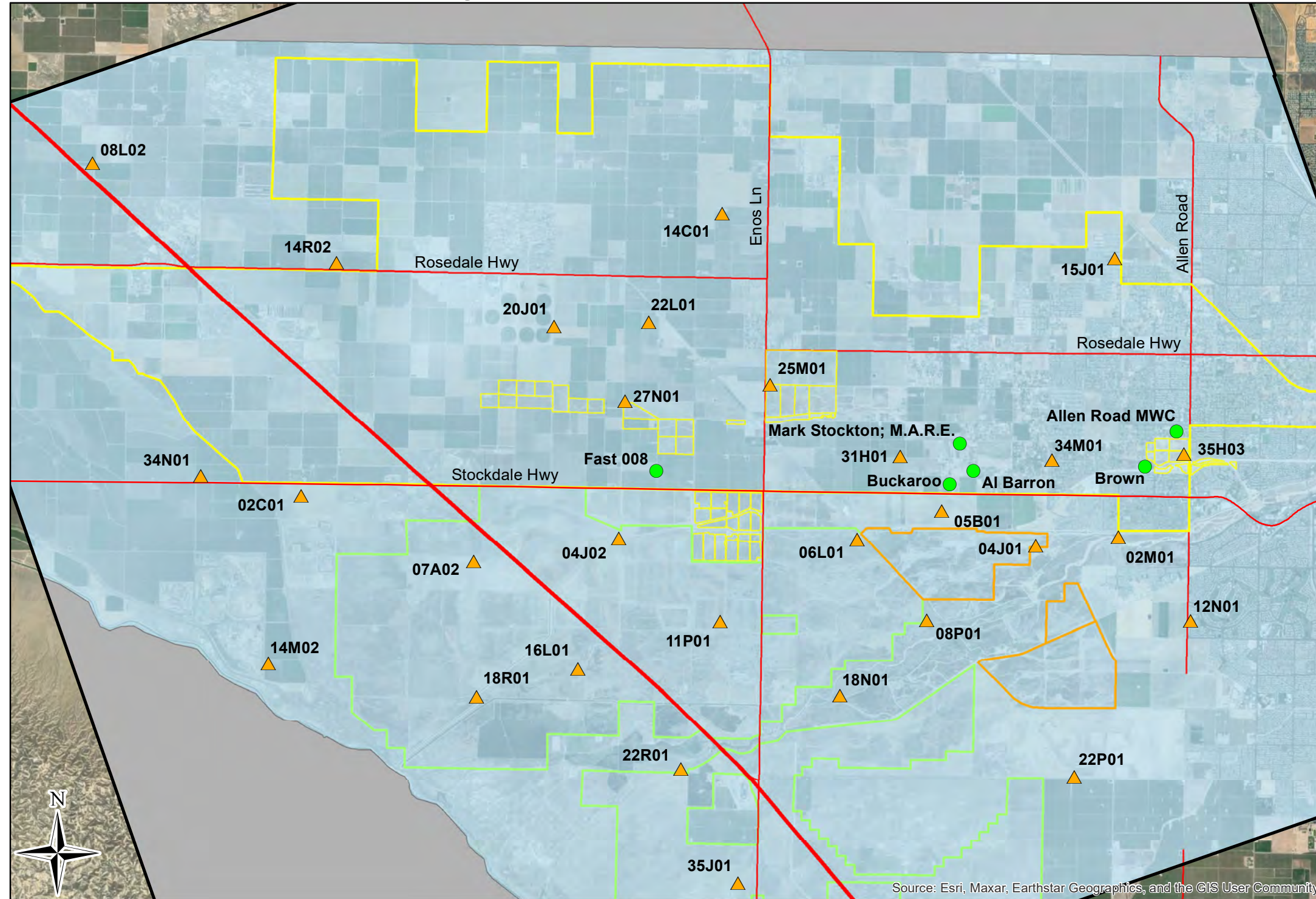
Groundwater Level Change (ft)

- 150 to -140
- 140 to -120
- 120 to -100
- 100 to -80
- 80 to -60
- 60 to -40
- 40 to -20
- 20 to -10
- 10 to -5
- 5 to 0
- 0 to 5
- 5 to 10
- 10 to 20
- 20 to 40
- 40 to 60

- ▲ Observation Well
- Landowner Well - 2010 Claim
- Landowner Well - 2015 Claim
- Landowner Well - 2016 Claim
- Landowner Well - 2017 Claim
- Landowner Well - 2018 Claim
- No Flow Zones
- Model Expansion Total
- RRBWSD Recharge Basin
- Rosedale-Rio Bravo Water Storage District
- Pioneer Project
- Kern Water Bank
- Highway/Road

This figure shows the difference in groundwater levels in December 2022 between model-simulated groundwater levels and model-simulated groundwater levels from a "without" All project scenario. The maximum difference is estimated within eastern Kern Water Bank where model-simulated groundwater levels were as much as 94 feet lower in December 2022 than they would have been absent the project.

All Project With/Without Scenario - Model-Generated Head Difference



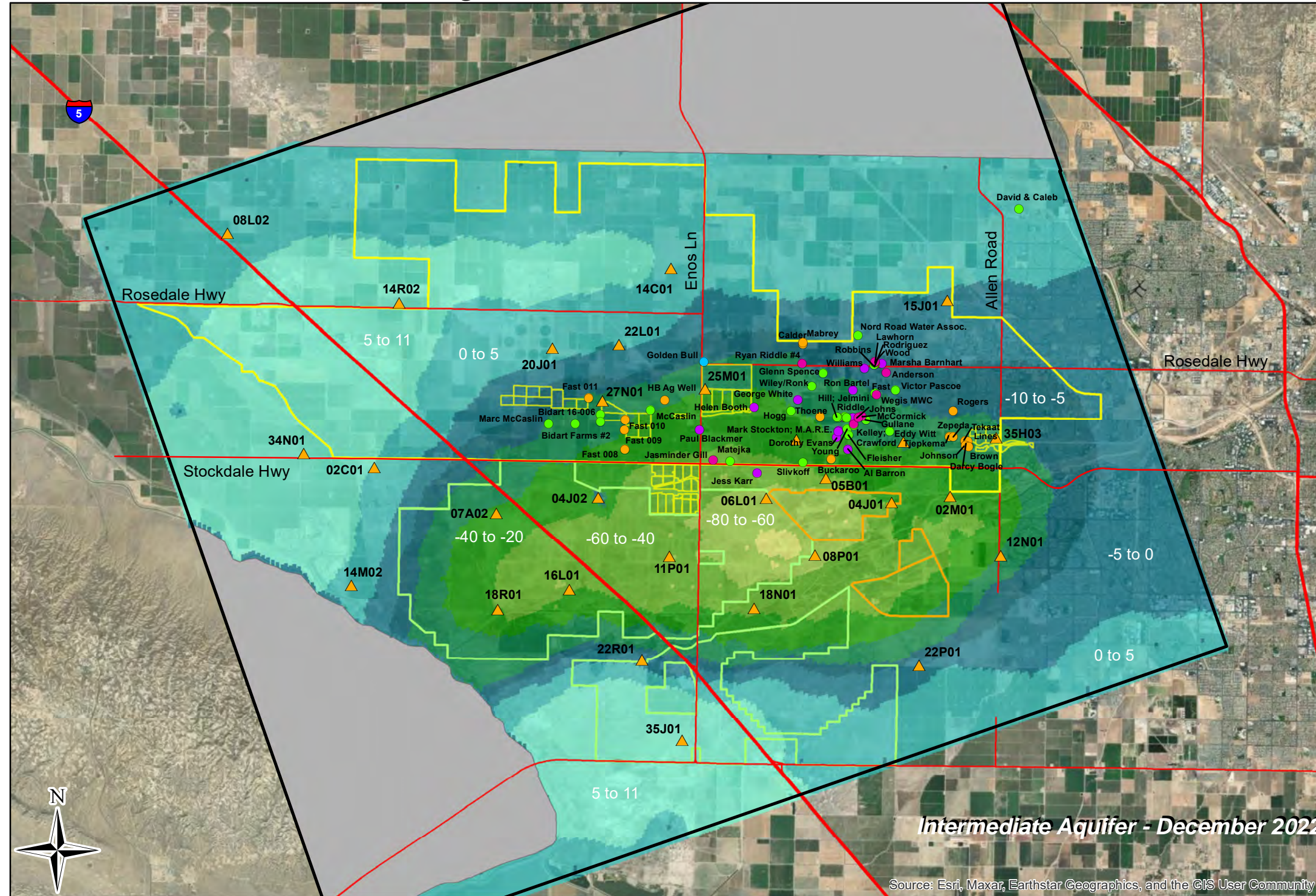
Map Features

- Observation Well
- Landowner Well with Difference Hydrograph
- Active Zone
- No Flow Zones
- Model Expansion Total
- RRBWSD Recharge Basin
- Rosedale-Rio Bravo Water Storage District
- Pioneer Project
- Kern Water Bank
- Highway/Road

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

0 1 2 4 Miles
NAD 83 Stateplane Zone 5

Landowner Wells with Hydrographs



Map Features

Groundwater Level Change (ft)

- 148 to -140
- 140 to -120
- 120 to -100
- 100 to -80
- 80 to -60
- 60 to -40
- 40 to -20
- 20 to -10
- 10 to -5
- 5 to 0
- 0 to 5
- 5 to 11

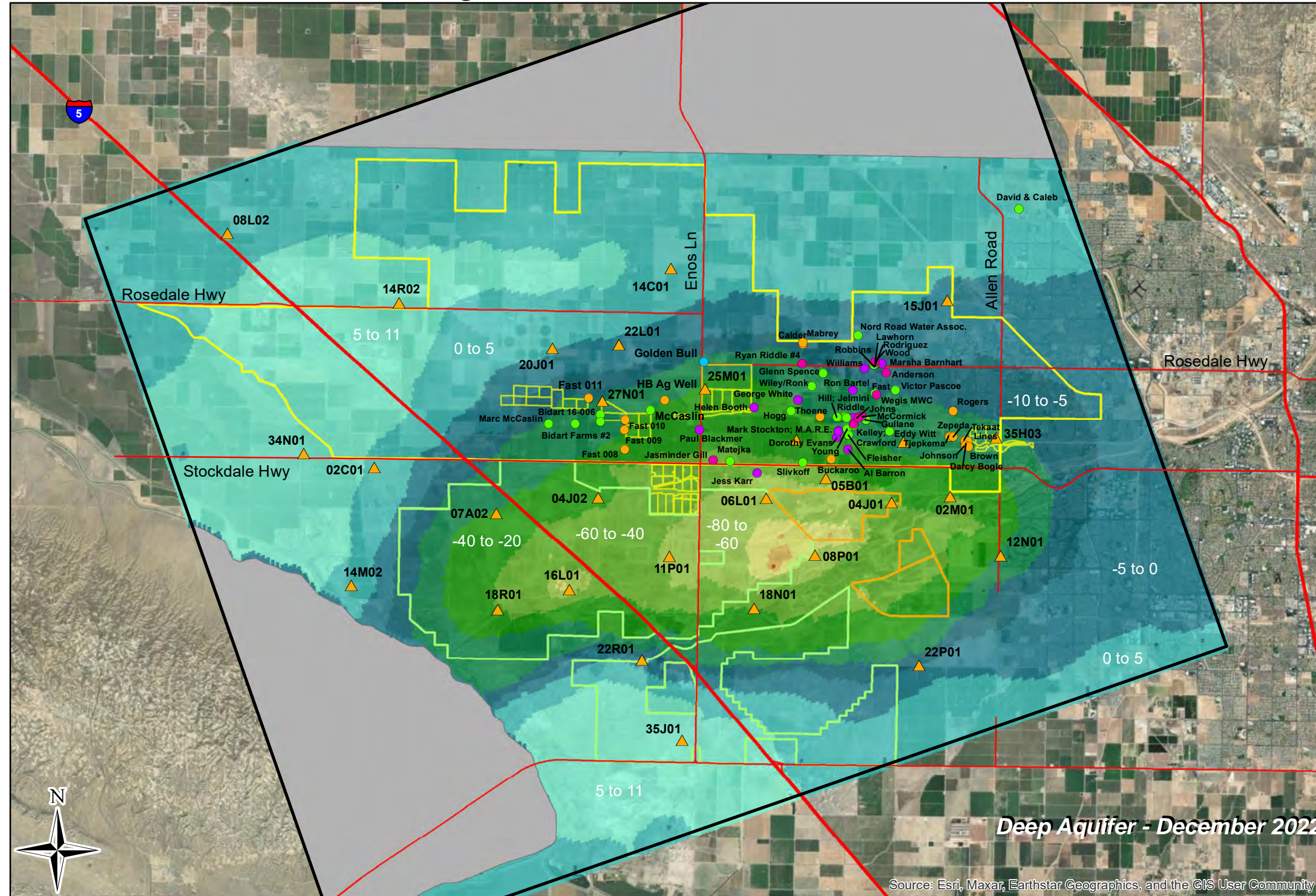
- ▲ Observation Well
- Landowner Well - 2010 Claim
- Landowner Well - 2015 Claim
- Landowner Well - 2016 Claim
- Landowner Well - 2017 Claim
- Landowner Well - 2018 Claim

- No Flow Zones
- ▭ Model Expansion Total
- ▭ RRBWSD Recharge Basin
- ▭ Rosedale-Rio Bravo Water Storage District
- ▭ Pioneer Project
- ▭ Kern Water Bank
- Highway/Road

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

This figure shows the difference in groundwater levels in December 2022 between model-simulated groundwater levels and model-simulated groundwater levels from a "without" All project scenario. The maximum difference is estimated within eastern Kern Water Bank where model-simulated groundwater levels were as much as 92 feet lower in December 2022 than they would have been absent the project.

All Project With/Without Scenario - Model-Generated Head Difference



Map Features

Groundwater Level Change (ft)

- 148 to -140
- 140 to -120
- 120 to -100
- 100 to -80
- 80 to -60
- 60 to -40
- 40 to -20
- 20 to -10
- 10 to -5
- 5 to 0
- 0 to 5
- 5 to 11

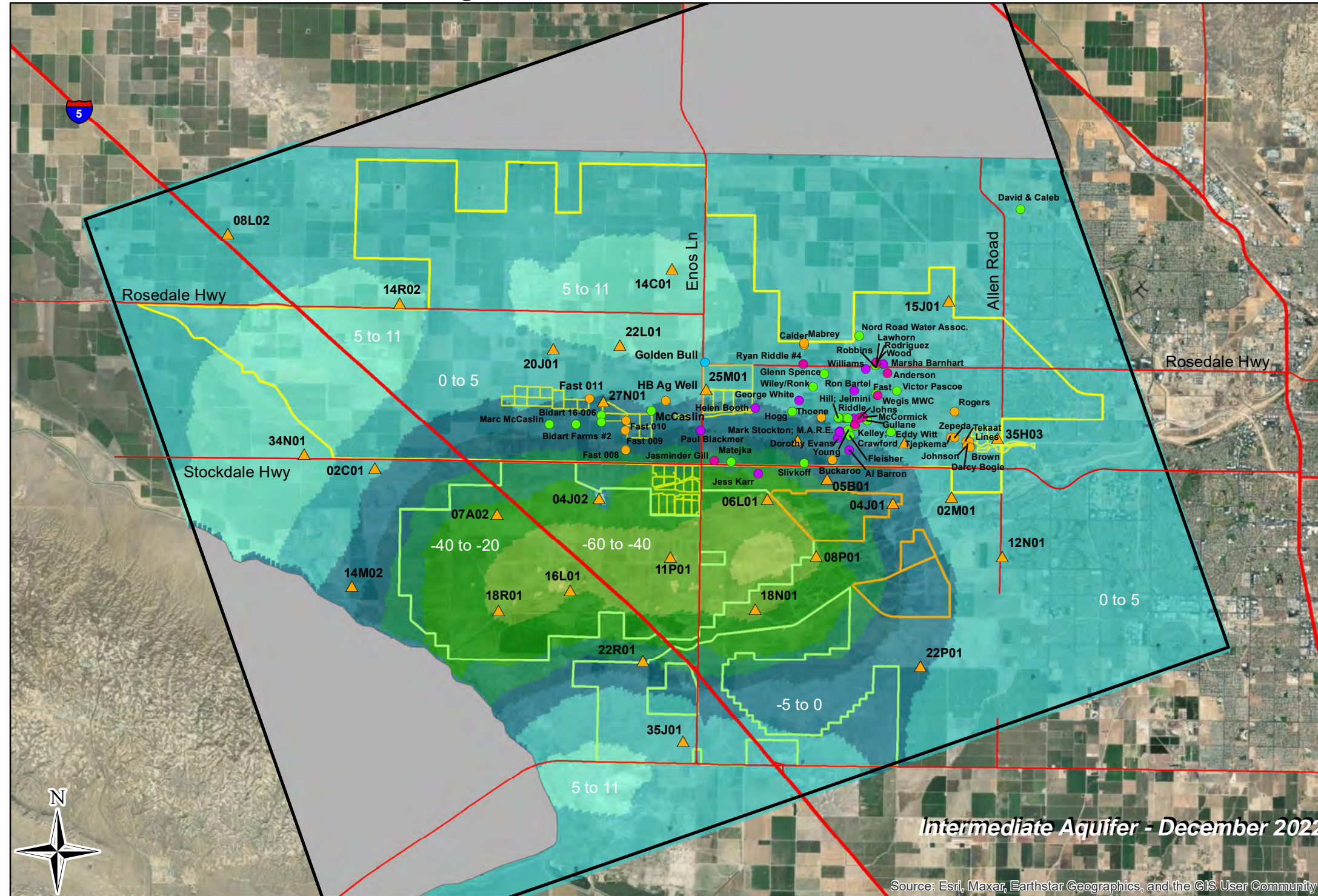
- ▲ Observation Well
- Landowner Well - 2010 Claim
- Landowner Well - 2015 Claim
- Landowner Well - 2016 Claim
- Landowner Well - 2017 Claim
- Landowner Well - 2018 Claim

- No Flow Zones
- ▭ Model Expansion Total
- ▭ RRBWSD Recharge Basin
- ▭ Rosedale-Rio Bravo Water Storage District
- ▭ Pioneer Project
- ▭ Kern Water Bank
- Highway/Road

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

This figure shows the difference in groundwater levels in December 2022 between model-simulated groundwater levels and model-simulated groundwater levels from a "without" All project scenario. The maximum difference is estimated within eastern Kern Water Bank where model-simulated groundwater levels were as much as 147 feet lower in December 2022 than they would have been absent the project.

All Project With/Without Scenario - Model-Generated Head Difference



Map Features

Groundwater Level Change (ft)

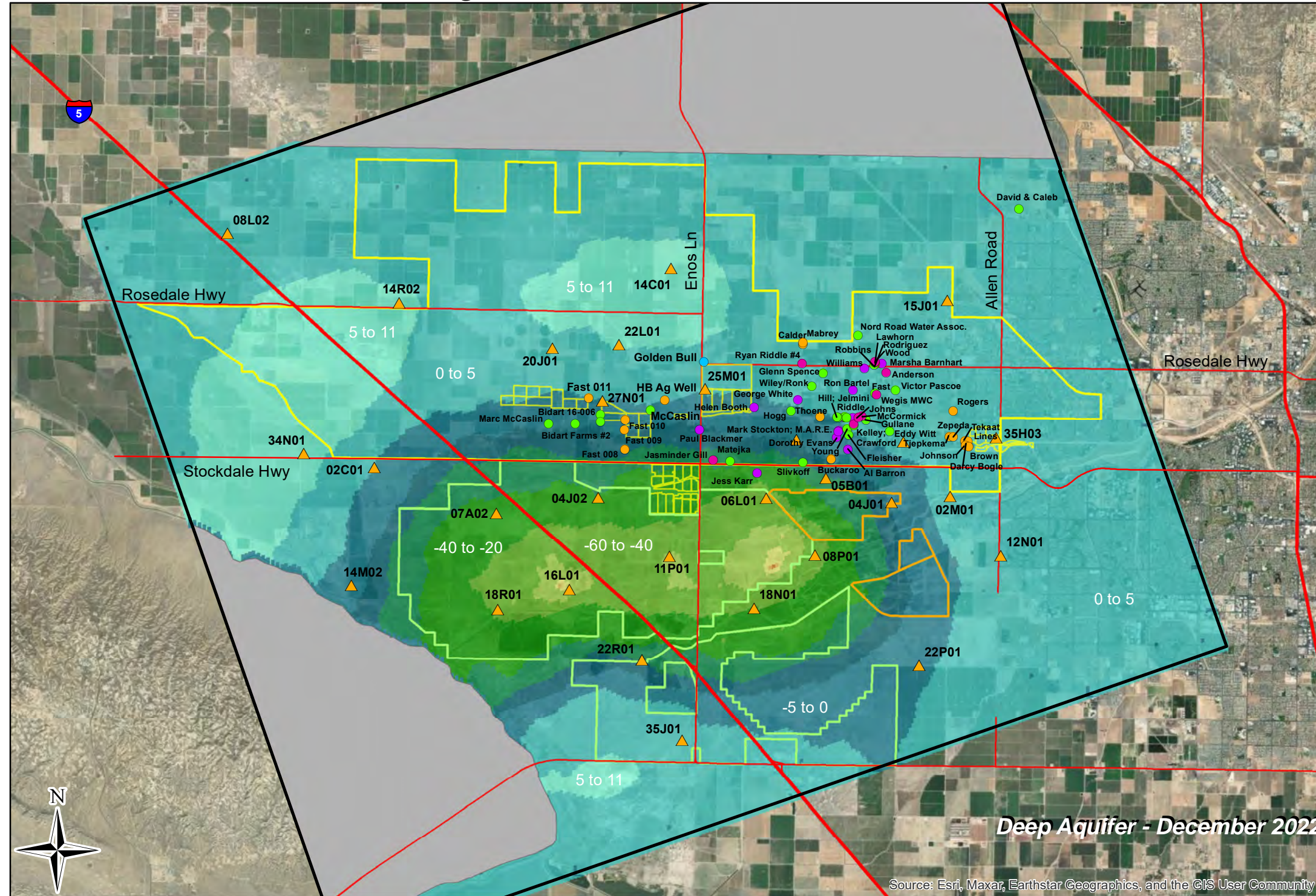
- 148 to -140
- 140 to -120
- 120 to -100
- 100 to -80
- 80 to -60
- 60 to -40
- 40 to -20
- 20 to -10
- 10 to -5
- 5 to 0
- 0 to 5
- 5 to 11

- ▲ Observation Well
- Landowner Well - 2010 Claim
- Landowner Well - 2015 Claim
- Landowner Well - 2016 Claim
- Landowner Well - 2017 Claim
- Landowner Well - 2018 Claim

- No Flow Zones
- ▭ Model Expansion Total
- ▭ RRBWSD Recharge Basin
- ▭ Rosedale-Rio Bravo Water Storage District
- ▭ Pioneer Project
- ▭ Kern Water Bank
- Highway/Road

This figure shows the difference in groundwater levels in December 2022 between model-simulated groundwater levels and model-simulated groundwater levels from a "without" KWB project scenario. The maximum difference is estimated within the central Kern Water Bank where model-simulated groundwater levels were as much as 81 feet lower in December 2022 than they would have been absent the project.

**Kern Water Bank
Project With/Without Scenario -
Model-Generated Head Difference**



Map Features

Groundwater Level Change (ft)

- 148 to -140
- 140 to -120
- 120 to -100
- 100 to -80
- 80 to -60
- 60 to -40
- 40 to -20
- 20 to -10
- 10 to -5
- 5 to 0
- 0 to 5
- 5 to 11

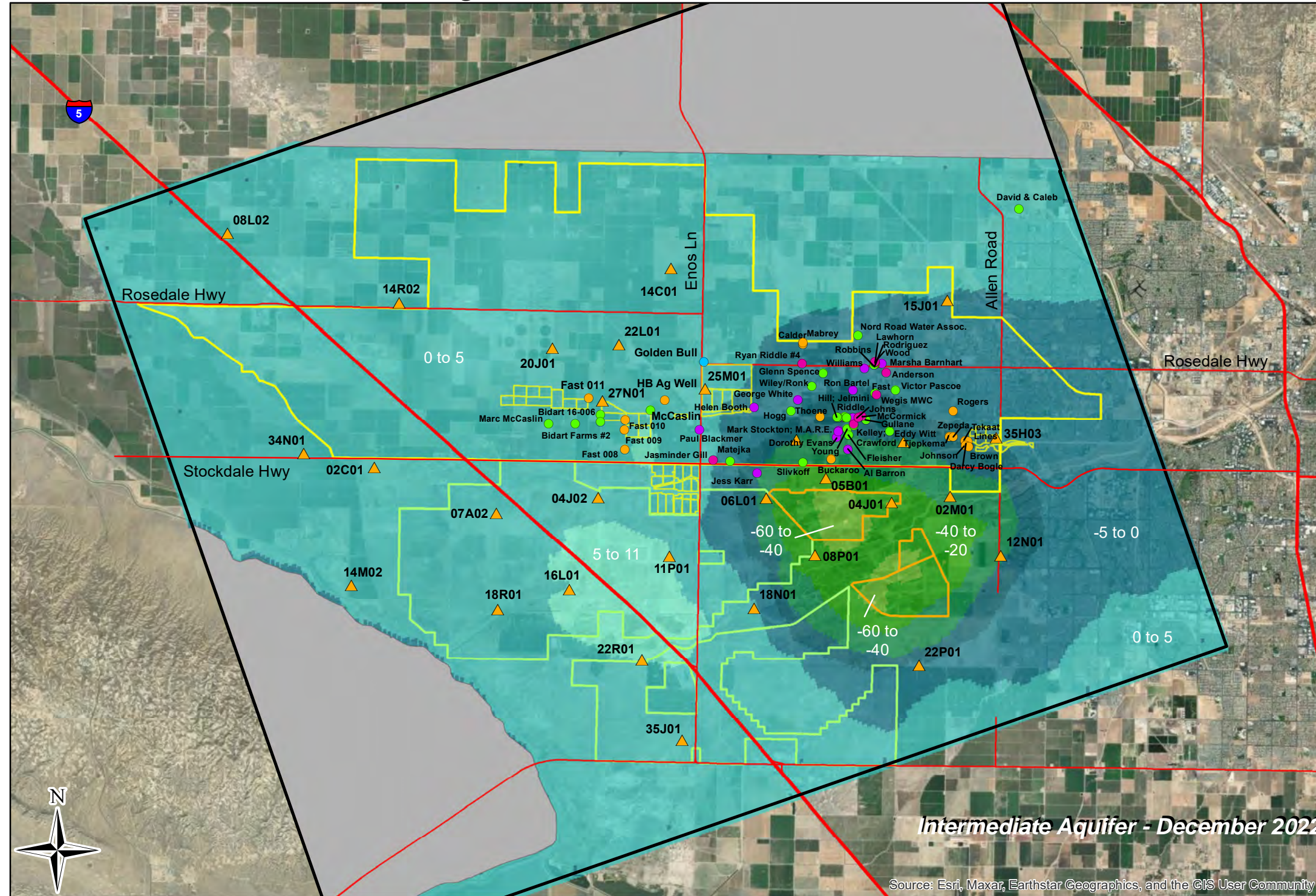
- ▲ Observation Well
- Landowner Well - 2010 Claim
- Landowner Well - 2015 Claim
- Landowner Well - 2016 Claim
- Landowner Well - 2017 Claim
- Landowner Well - 2018 Claim

- No Flow Zones
- ▭ Model Expansion Total
- ▭ RRBWSD Recharge Basin
- ▭ Rosedale-Rio Bravo Water Storage District
- ▭ Pioneer Project
- ▭ Kern Water Bank
- Highway/Road

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

This figure shows the difference in groundwater levels in December 2022 between model-simulated groundwater levels and model-simulated groundwater levels from a "without" KWB project scenario. The maximum difference is estimated within eastern Kern Water Bank where model-simulated groundwater levels were as much as 133 feet lower in December 2022 than they would have been absent the project.

**Kern Water Bank
Project With/Without Scenario -
Model-Generated Head Difference**



Map Features

Groundwater Level Change (ft)

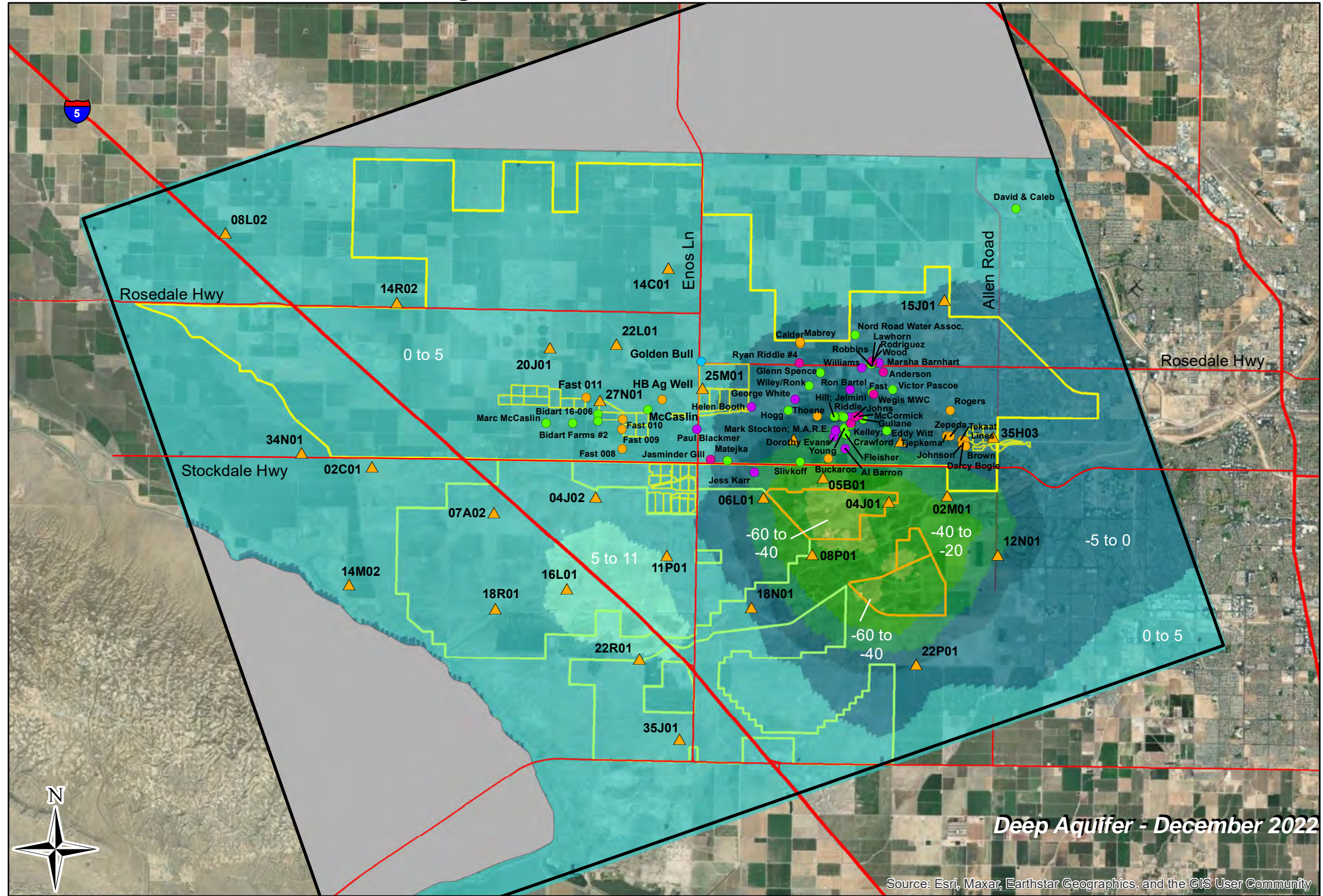
- 148 to -140
- 140 to -120
- 120 to -100
- 100 to -80
- 80 to -60
- 60 to -40
- 40 to -20
- 20 to -10
- 10 to -5
- 5 to 0
- 0 to 5
- 5 to 11

- ▲ Observation Well
- Landowner Well - 2010 Claim
- Landowner Well - 2015 Claim
- Landowner Well - 2016 Claim
- Landowner Well - 2017 Claim
- Landowner Well - 2018 Claim
- No Flow Zones
- ▭ Model Expansion Total
- ▭ RRBWSD Recharge Basin
- ▭ Rosedale-Rio Bravo Water Storage District
- ▭ Pioneer Project
- ▭ Kern Water Bank
- Highway/Road

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

0 1.5 3 6 Miles
NAD 83 Stateplane Zone 5

This figure shows the difference in groundwater levels in December 2022 between model-simulated groundwater levels and model-simulated groundwater levels from a "without" Pioneer project scenario. The maximum difference is estimated within Pioneer South where model-simulated groundwater levels were as much as 63 feet lower in December 2022 than they would have been absent the project.



Map Features

Groundwater Level Change (ft)

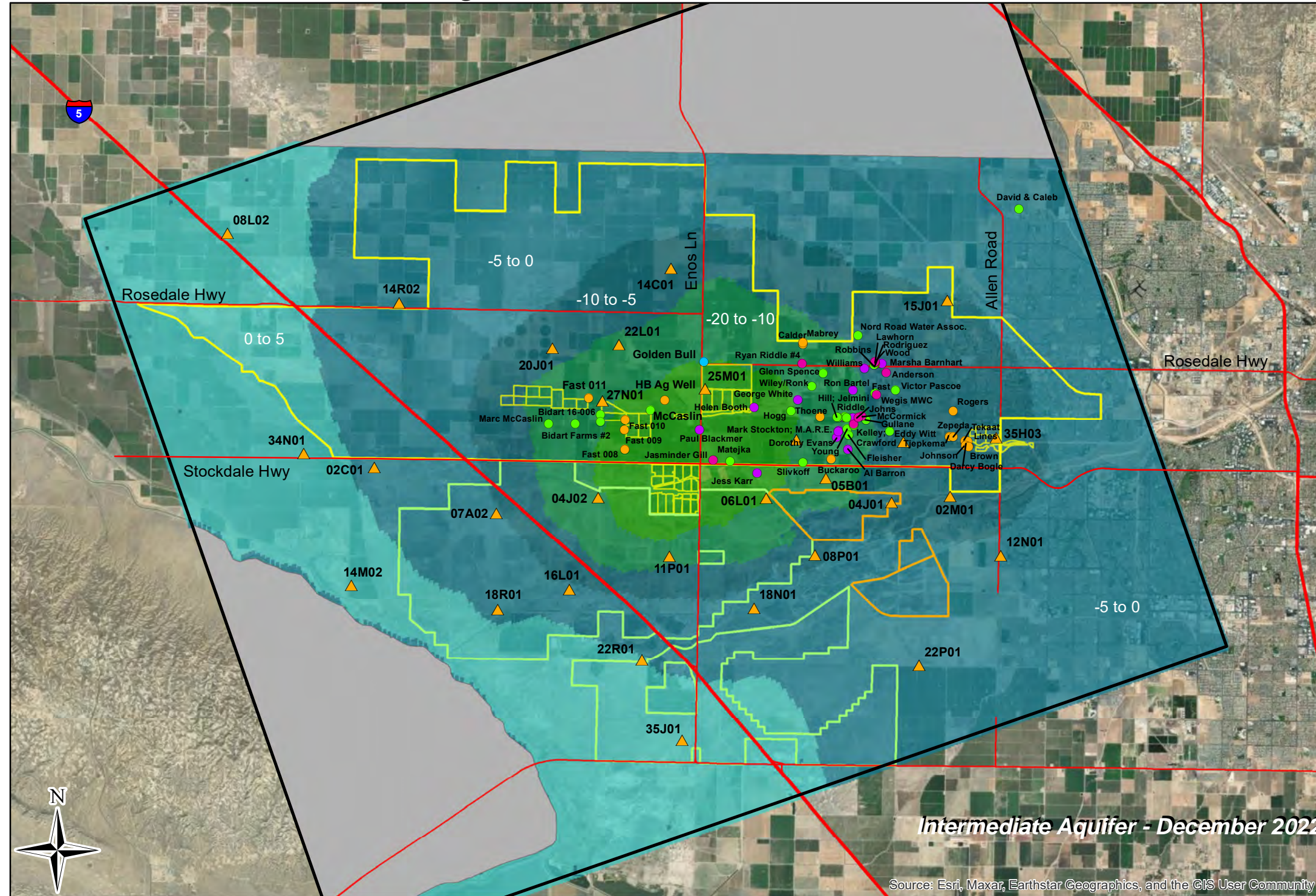
- 148 to -140
- 140 to -120
- 120 to -100
- 100 to -80
- 80 to -60
- 60 to -40
- 40 to -20
- 20 to -10
- 10 to -5
- 5 to 0
- 0 to 5
- 5 to 11

- ▲ Observation Well
- Landowner Well - 2010 Claim
- Landowner Well - 2015 Claim
- Landowner Well - 2016 Claim
- Landowner Well - 2017 Claim
- Landowner Well - 2018 Claim

- No Flow Zones
- ▭ Model Expansion Total
- ▭ RRBWSD Recharge Basin
- ▭ Rosedale-Rio Bravo Water Storage District
- ▭ Pioneer Project
- ▭ Kern Water Bank
- Highway/Road

This figure shows the difference in groundwater levels in December 2022 between model-simulated groundwater levels and model-simulated groundwater levels from a "without" Pioneer project scenario. The maximum difference is estimated within Pioneer North where model-simulated groundwater levels were as much as 82 feet lower in December 2022 than they would have been absent the project.

Pioneer Project With/Without Scenario - Model-Generated Head Difference



Map Features

Groundwater Level Change (ft)

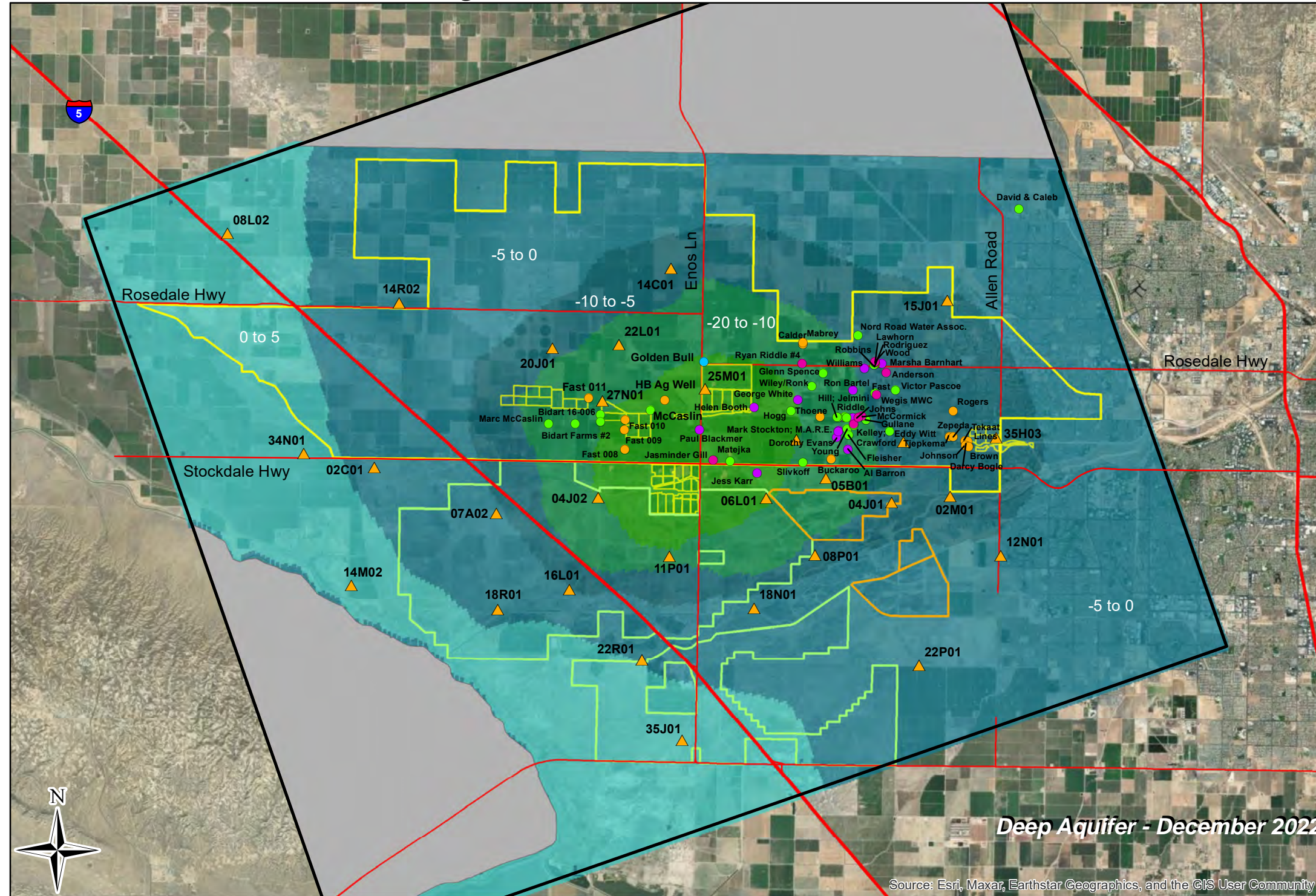
- 148 to -140
- 140 to -120
- 120 to -100
- 100 to -80
- 80 to -60
- 60 to -40
- 40 to -20
- 20 to -10
- 10 to -5
- 5 to 0
- 0 to 5
- 5 to 11

- ▲ Observation Well
- Landowner Well - 2010 Claim
- Landowner Well - 2015 Claim
- Landowner Well - 2016 Claim
- Landowner Well - 2017 Claim
- Landowner Well - 2018 Claim

- No Flow Zones
- ▭ Model Expansion Total
- ▭ RRBWSD Recharge Basin
- ▭ Rosedale-Rio Bravo Water Storage District
- ▭ Pioneer Project
- ▭ Kern Water Bank
- Highway/Road

This figure shows the difference in groundwater levels in December 2022 between model-simulated groundwater levels and model-simulated groundwater levels from a "without" RRB project scenario. The maximum difference is estimated near Strand Ranch where model-simulated groundwater levels were as much as 51 feet lower in December 2022 than they would have been absent the project.

Rosedale Rio Bravo Project With/Without Scenario - Model-Generated Head Difference



Map Features

Groundwater Level Change (ft)

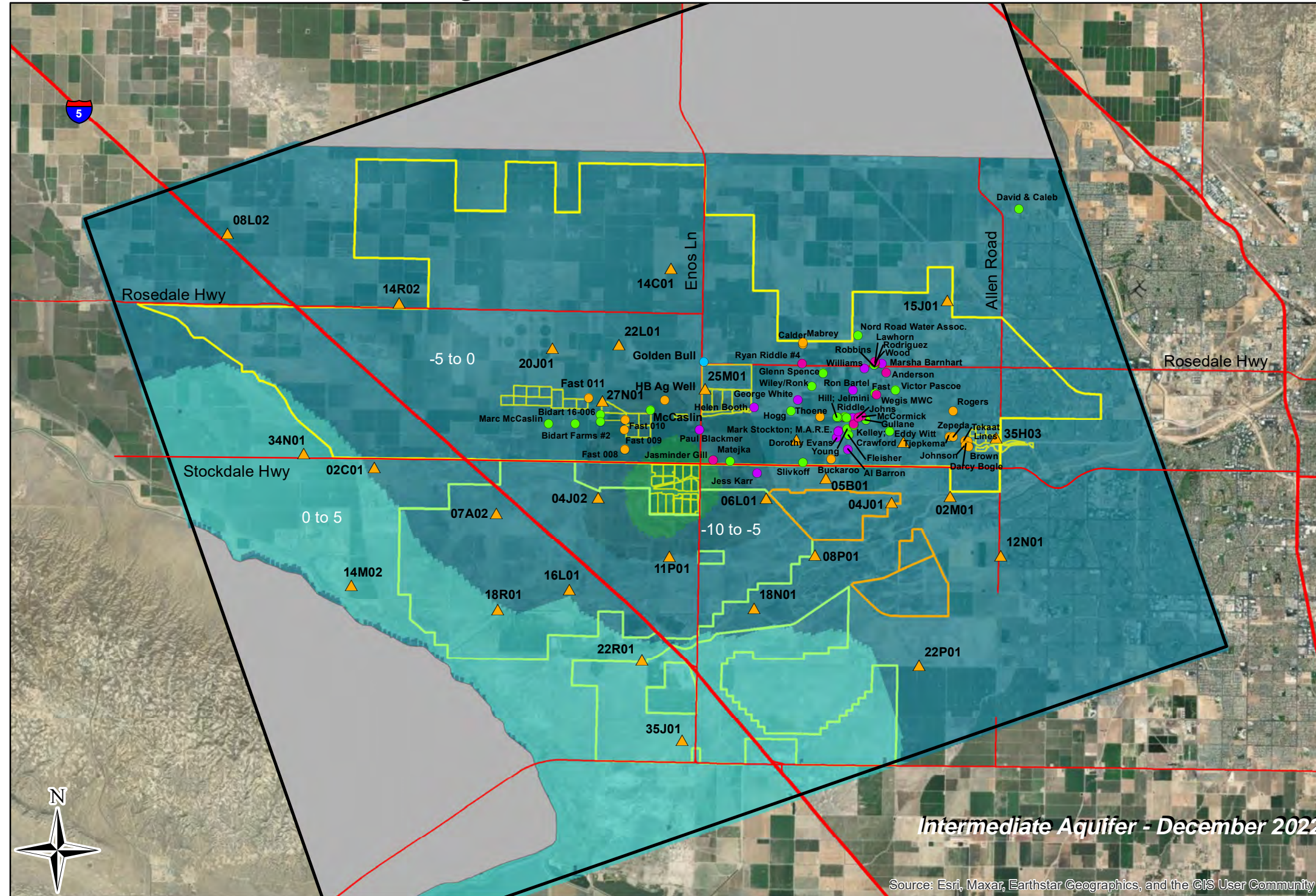
- 148 to -140
- 140 to -120
- 120 to -100
- 100 to -80
- 80 to -60
- 60 to -40
- 40 to -20
- 20 to -10
- 10 to -5
- 5 to 0
- 0 to 5
- 5 to 11

- ▲ Observation Well
- Landowner Well - 2010 Claim
- Landowner Well - 2015 Claim
- Landowner Well - 2016 Claim
- Landowner Well - 2017 Claim
- Landowner Well - 2018 Claim
- No Flow Zones
- Model Expansion Total
- RRBWSD Recharge Basin
- Rosedale-Rio Bravo Water Storage District
- Pioneer Project
- Kern Water Bank
- Highway/Road



0 1.5 3 6 Miles
NAD 83 Stateplane Zone 5

This figure shows the difference in groundwater levels in December 2022 between model-simulated groundwater levels and model-simulated groundwater levels from a "without" RRB project scenario. The maximum difference is estimated within Strand Ranch where model-simulated groundwater levels were as much as 47 feet lower in December 2022 than they would have been absent the project.



Map Features

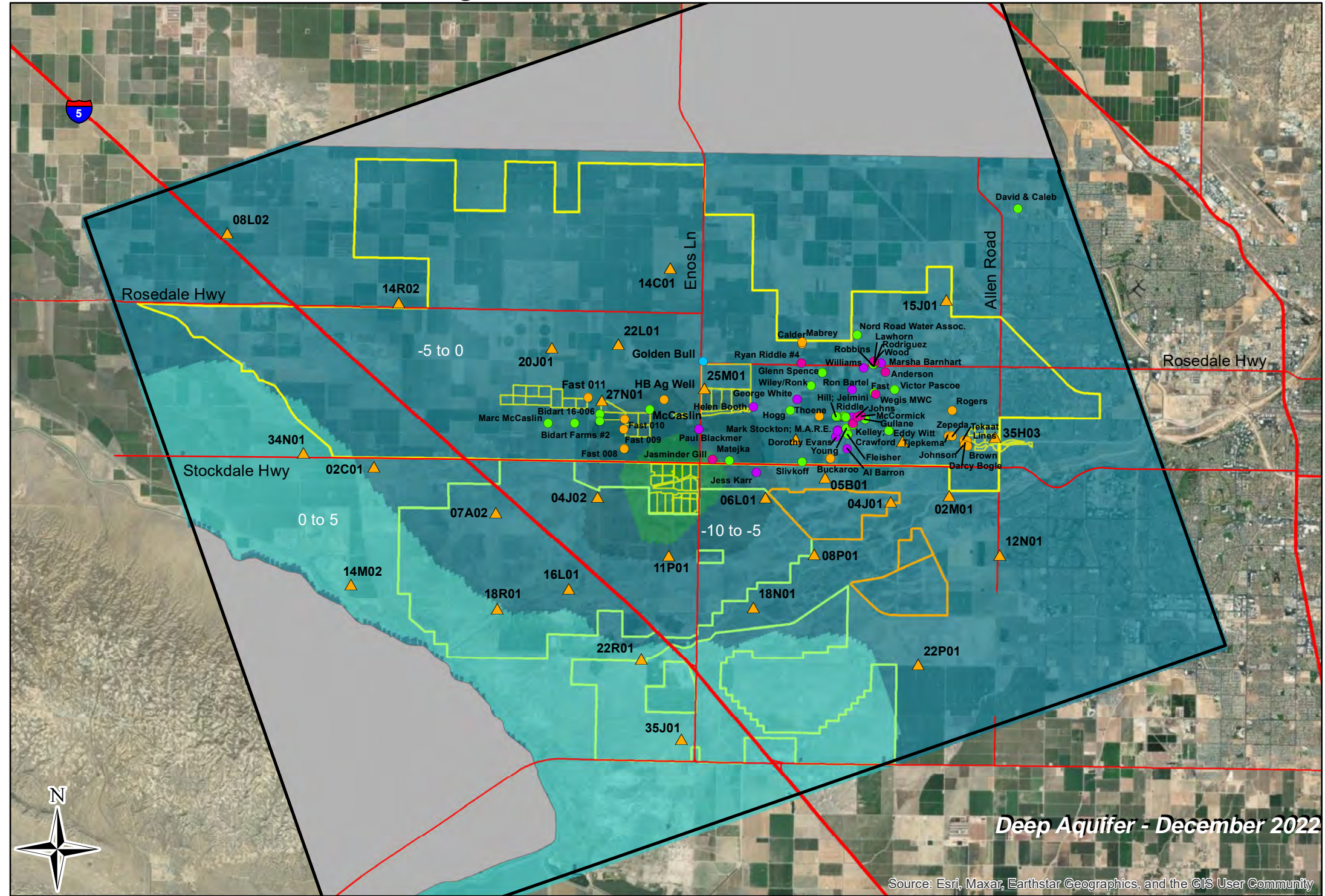
Groundwater Level Change (ft)

- 148 to -140
- 140 to -120
- 120 to -100
- 100 to -80
- 80 to -60
- 60 to -40
- 40 to -20
- 20 to -10
- 10 to -5
- 5 to 0
- 0 to 5
- 5 to 11

- ▲ Observation Well
- Landowner Well - 2010 Claim
- Landowner Well - 2015 Claim
- Landowner Well - 2016 Claim
- Landowner Well - 2017 Claim
- Landowner Well - 2018 Claim
- No Flow Zones
- ▭ Model Expansion Total
- ▭ RRBWSD Recharge Basin
- ▭ Rosedale-Rio Bravo Water Storage District
- ▭ Pioneer Project
- ▭ Kern Water Bank
- Highway/Road

This figure shows the difference in groundwater levels in December 2022 between model-simulated groundwater levels and model-simulated groundwater levels from a "without" Strand Ranch project scenario. The maximum difference is estimated within Strand Ranch where model-simulated groundwater levels were as much as 18 feet lower in December 2022 than they would have been absent the project.

**Strand Ranch
Project With/Without Scenario -
Model-Generated Head Difference**



Map Features

Groundwater Level Change (ft)

- 148 to -140
- 140 to -120
- 120 to -100
- 100 to -80
- 80 to -60
- 60 to -40
- 40 to -20
- 20 to -10
- 10 to -5
- 5 to 0
- 0 to 5
- 5 to 11

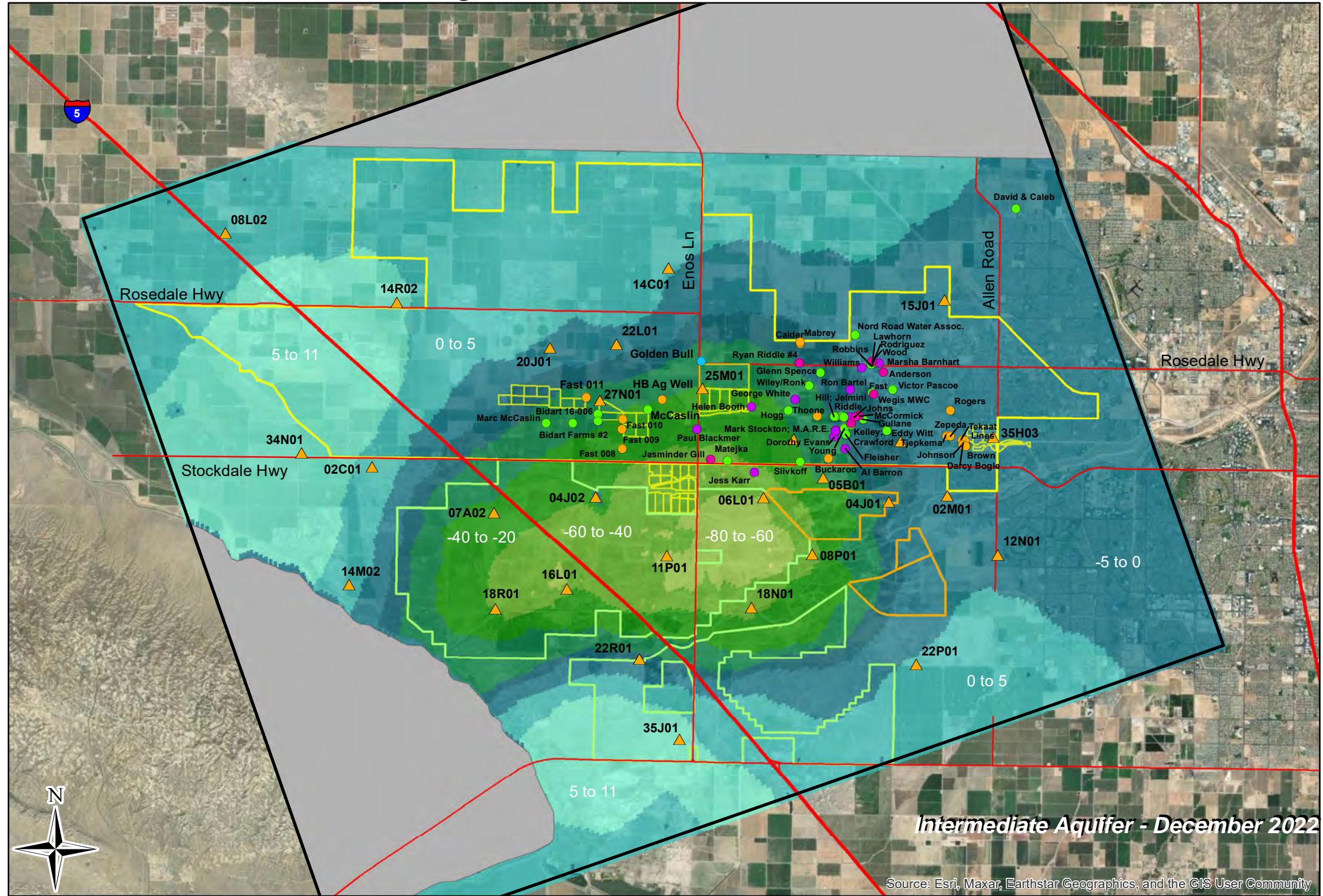
- ▲ Observation Well
- Landowner Well - 2010 Claim
- Landowner Well - 2015 Claim
- Landowner Well - 2016 Claim
- Landowner Well - 2017 Claim
- Landowner Well - 2018 Claim

- No Flow Zones
- ▭ Model Expansion Total
- ▭ RRBWSD Recharge Basin
- ▭ Rosedale-Rio Bravo Water Storage District
- ▭ Pioneer Project
- ▭ Kern Water Bank
- Highway/Road



0 1.5 3 6 Miles
NAD 83 Stateplane Zone 5

This figure shows the difference in groundwater levels in December 2022 between model-simulated groundwater levels and model-simulated groundwater levels from a "without" Strand Ranch project scenario. The maximum difference is estimated within Strand Ranch where model-simulated groundwater levels were as much as 25 feet lower in December 2022 than they would have been absent the project.



Map Features

Groundwater Level Change (ft)

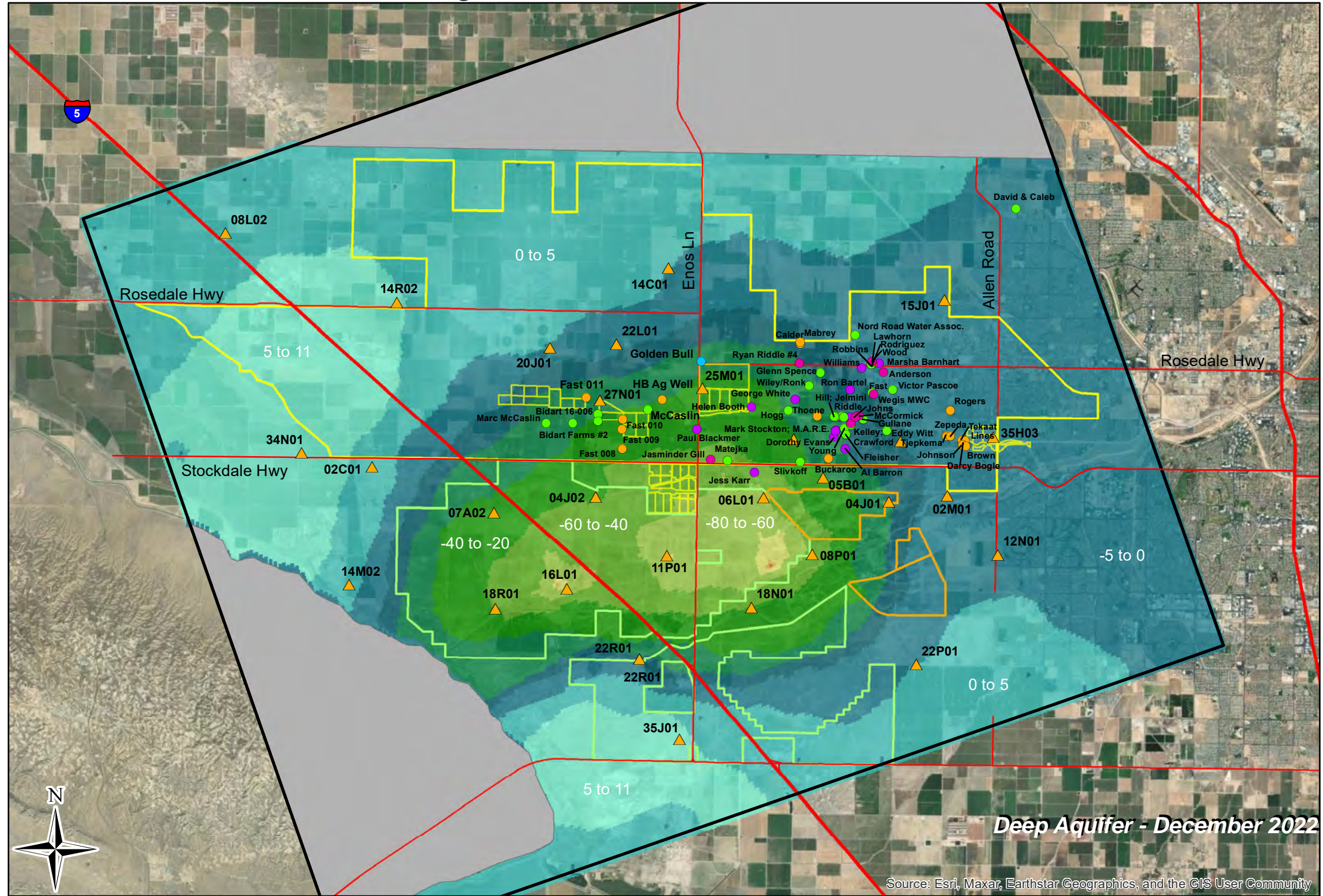
- 148 to -140
- 140 to -120
- 120 to -100
- 100 to -80
- 80 to -60
- 60 to -40
- 40 to -20
- 20 to -10
- 10 to -5
- 5 to 0
- 0 to 5
- 5 to 11

- ▲ Observation Well
- Landowner Well - 2010 Claim
- Landowner Well - 2015 Claim
- Landowner Well - 2016 Claim
- Landowner Well - 2017 Claim
- Landowner Well - 2018 Claim

- No Flow Zones
- ▭ Model Expansion Total
- ▭ RRBWSD Recharge Basin
- ▭ Rosedale-Rio Bravo Water Storage District
- ▭ Pioneer Project
- ▭ Kern Water Bank
- Highway/Road

This figure shows the difference in groundwater levels in December 2022 between model-simulated groundwater levels and model-simulated groundwater levels from a "without" RRB and KWB project scenario. The maximum difference is estimated within eastern Kern Water Bank where model-simulated groundwater levels were as much as 82 feet lower in December 2022 than they would have been absent the project.

Rosedale Rio Bravo and Kern Water Bank Project With/Without Scenario - Model-Generated Head Difference



Map Features

Groundwater Level Change (ft)

- 148 to -140
- 140 to -120
- 120 to -100
- 100 to -80
- 80 to -60
- 60 to -40
- 40 to -20
- 20 to -10
- 10 to -5
- 5 to 0
- 0 to 5
- 5 to 11

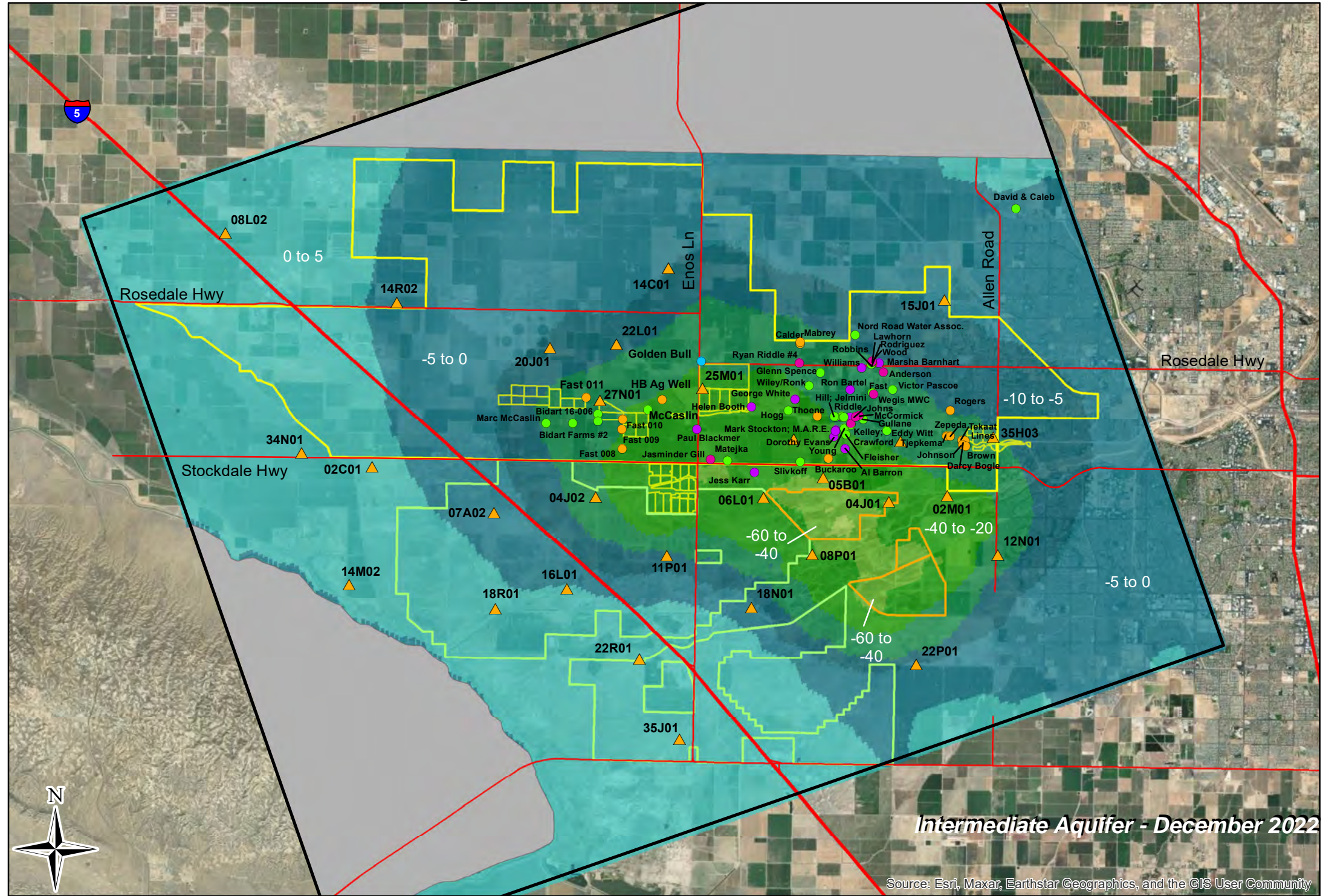
- ▲ Observation Well
- Landowner Well - 2010 Claim
- Landowner Well - 2015 Claim
- Landowner Well - 2016 Claim
- Landowner Well - 2017 Claim
- Landowner Well - 2018 Claim

- No Flow Zones
- ▭ Model Expansion Total
- ▭ RRBWSD Recharge Basin
- ▭ Rosedale-Rio Bravo Water Storage District
- ▭ Pioneer Project
- ▭ Kern Water Bank
- Highway/Road



0 1.5 3 6 Miles
NAD 83 Stateplane Zone 5

This figure shows the difference in groundwater levels in December 2022 between model-simulated groundwater levels and model-simulated groundwater levels from a "without" RRB and KWB project scenario. The maximum difference is estimated within eastern Kern Water Bank where model-simulated groundwater levels were as much as 137 feet lower in December 2022 than they would have been absent the project.



Map Features

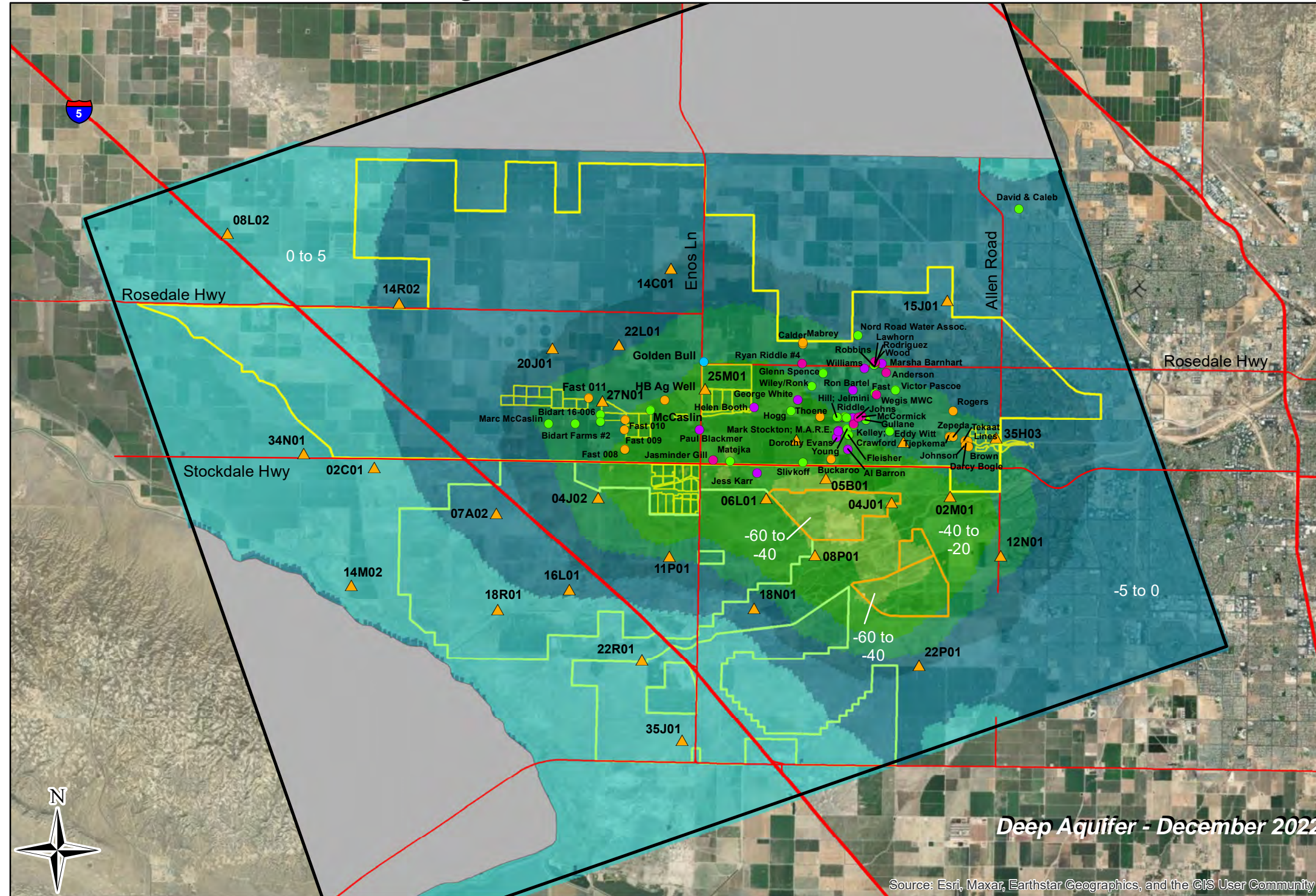
Groundwater Level Change (ft)

- 148 to -140
- 140 to -120
- 120 to -100
- 100 to -80
- 80 to -60
- 60 to -40
- 40 to -20
- 20 to -10
- 10 to -5
- 5 to 0
- 0 to 5
- 5 to 11

- ▲ Observation Well
- Landowner Well - 2010 Claim
- Landowner Well - 2015 Claim
- Landowner Well - 2016 Claim
- Landowner Well - 2017 Claim
- Landowner Well - 2018 Claim
- No Flow Zones
- Model Expansion Total
- RRBWSD Recharge Basin
- Rosedale-Rio Bravo Water Storage District
- Pioneer Project
- Kern Water Bank
- Highway/Road

This figure shows the difference in groundwater levels in December 2022 between model-simulated groundwater levels and model-simulated groundwater levels from a "without" RRB and Pioneer project scenario. The maximum difference is estimated within Pioneer North where model-simulated groundwater levels were as much as 67 feet lower in December 2022 than they would have been absent the project.

Rosedale Rio Bravo and Pioneer Project With/Without Scenario - Model-Generated Head Difference



Map Features

Groundwater Level Change (ft)

- 148 to -140
- 140 to -120
- 120 to -100
- 100 to -80
- 80 to -60
- 60 to -40
- 40 to -20
- 20 to -10
- 10 to -5
- 5 to 0
- 0 to 5
- 5 to 11

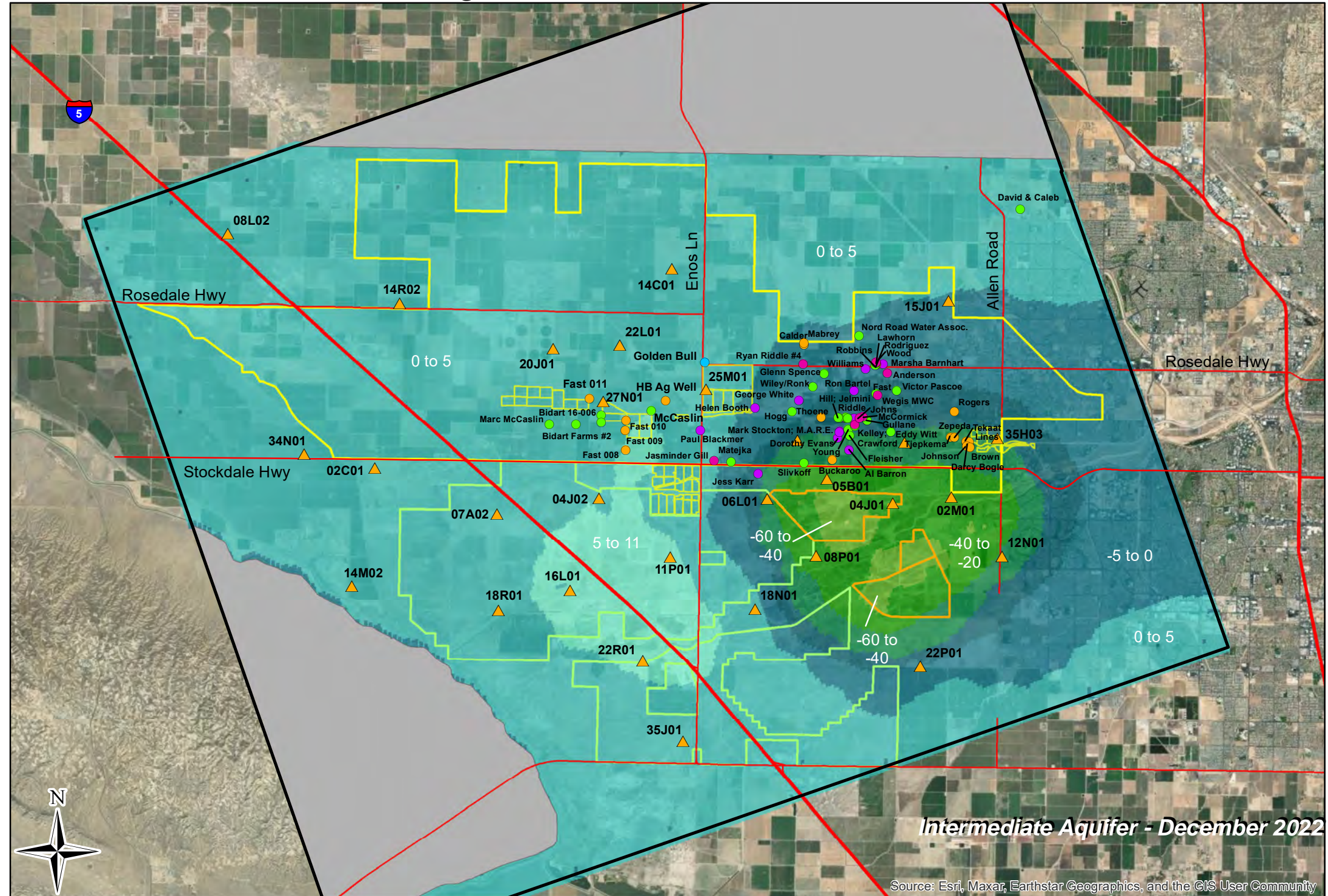
- ▲ Observation Well
- Landowner Well - 2010 Claim
- Landowner Well - 2015 Claim
- Landowner Well - 2016 Claim
- Landowner Well - 2017 Claim
- Landowner Well - 2018 Claim

- No Flow Zones
- ▭ Model Expansion Total
- ▭ RRBWSD Recharge Basin
- ▭ Rosedale-Rio Bravo Water Storage District
- ▭ Pioneer Project
- ▭ Kern Water Bank
- Highway/Road



0 1.5 3 6 Miles
NAD 83 Stateplane Zone 5

This figure shows the difference in groundwater levels in December 2022 between model-simulated groundwater levels and model-simulated groundwater levels from a "without" RRB and Pioneer project scenario. The maximum difference is estimated within Pioneer North where model-simulated groundwater levels were as much as 89 feet lower in December 2022 than they would have been absent the project.



Map Features

Groundwater Level Change (ft)

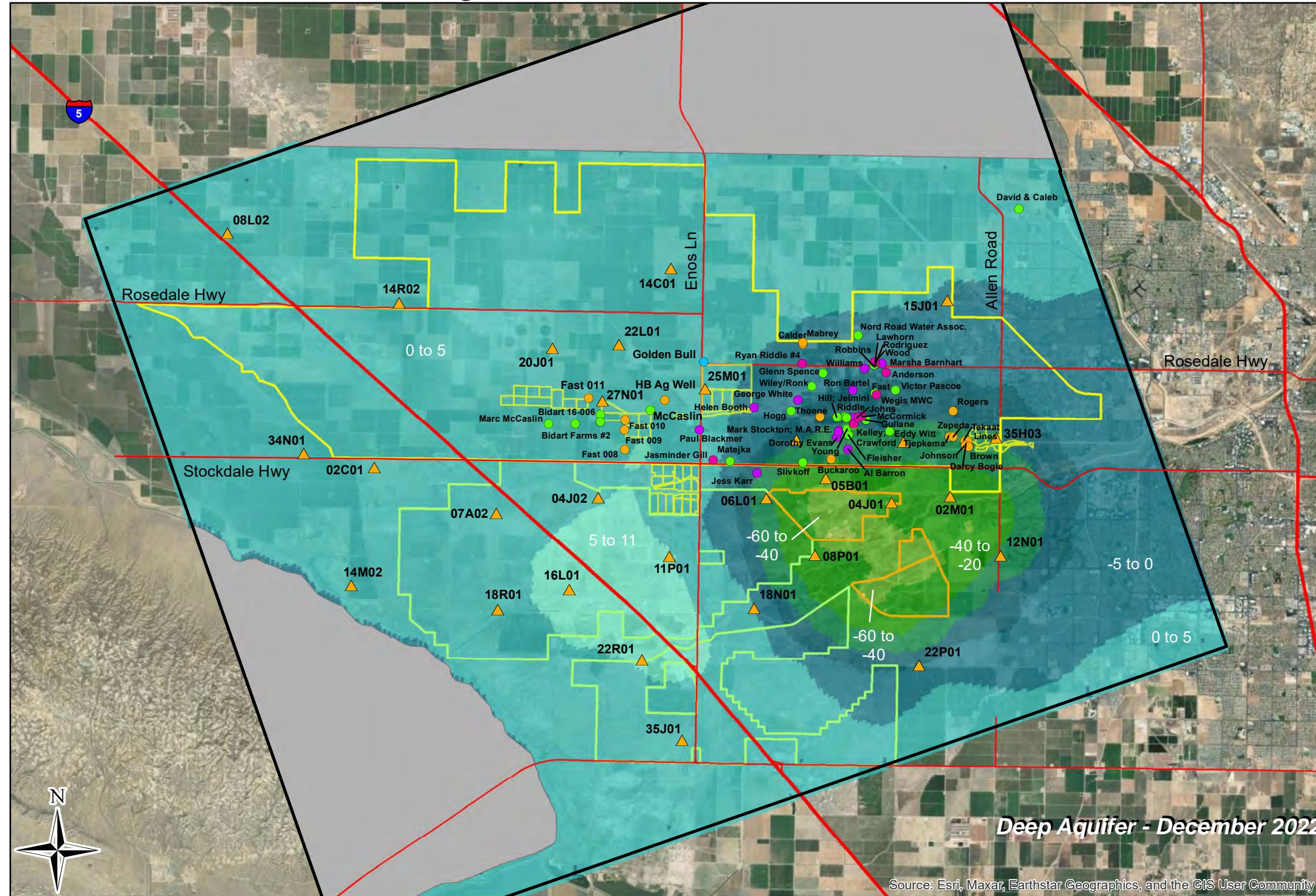
- 148 to -140
- 140 to -120
- 120 to -100
- 100 to -80
- 80 to -60
- 60 to -40
- 40 to -20
- 20 to -10
- 10 to -5
- 5 to 0
- 0 to 5
- 5 to 11

- ▲ Observation Well
- Landowner Well - 2010 Claim
- Landowner Well - 2015 Claim
- Landowner Well - 2016 Claim
- Landowner Well - 2017 Claim
- Landowner Well - 2018 Claim

- No Flow Zones
- ▭ Model Expansion Total
- ▭ RRBWSD Recharge Basin
- ▭ Rosedale-Rio Bravo Water Storage District
- ▭ Pioneer Project
- ▭ Kern Water Bank
- Highway/Road

This figure shows the difference in groundwater levels in December 2022 between model-simulated groundwater levels and model-simulated groundwater levels from a "without" BM, ID4, and Pioneer project scenario. The maximum difference is estimated within Pioneer South where model-simulated groundwater levels were as much as 63 feet lower in December 2022 than they would have been absent the project.

BM, ID4, and Pioneer Project With/Without Scenario - Model-Generated Head Difference



Map Features

Groundwater Level Change (ft)

- 148 to -140
- 140 to -120
- 120 to -100
- 100 to -80
- 80 to -60
- 60 to -40
- 40 to -20
- 20 to -10
- 10 to -5
- 5 to 0
- 0 to 5
- 5 to 11

- ▲ Observation Well
- Landowner Well - 2010 Claim
- Landowner Well - 2015 Claim
- Landowner Well - 2016 Claim
- Landowner Well - 2017 Claim
- Landowner Well - 2018 Claim

- No Flow Zones
- ▭ Model Expansion Total
- ▭ RRBWSD Recharge Basin
- ▭ Rosedale-Rio Bravo Water Storage District
- ▭ Pioneer Project
- ▭ Kern Water Bank
- Highway/Road

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

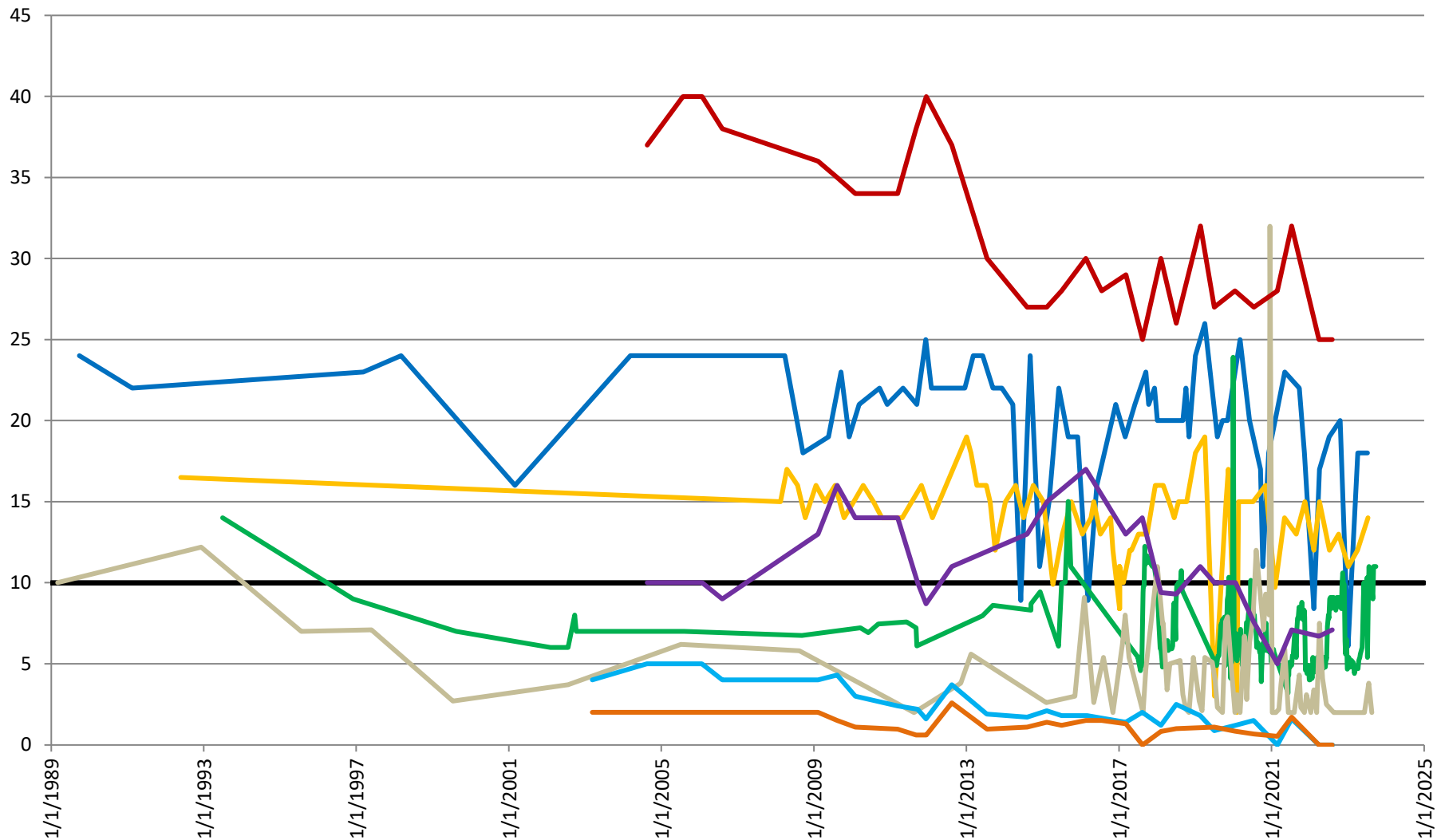
This figure shows the difference in groundwater levels in December 2022 between model-simulated groundwater levels and model-simulated groundwater levels from a "without" BM, ID4, and Pioneer project scenario. The maximum difference is estimated within Pioneer North where model-simulated groundwater levels were as much as 83 feet lower in December 2022 than they would have been absent the project.

BM, ID4, and Pioneer Project With/Without Scenario - Model-Generated Head Difference

Appendix 3

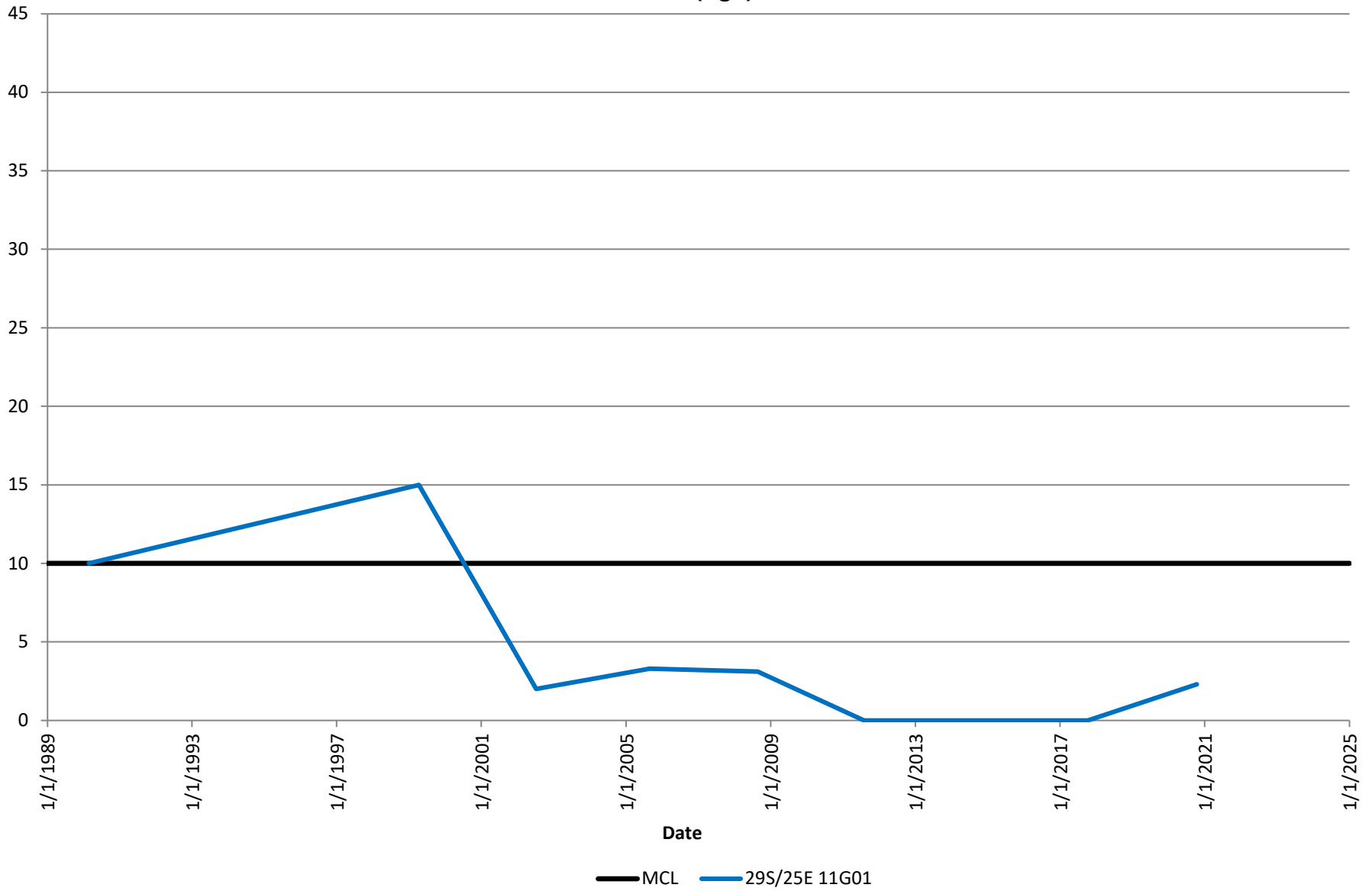
Groundwater Quality Data

ROSEDALE-RIO BRAVO WSD
Arsenic Concentration in Wells (East Monitoring Area)
(ug/l)

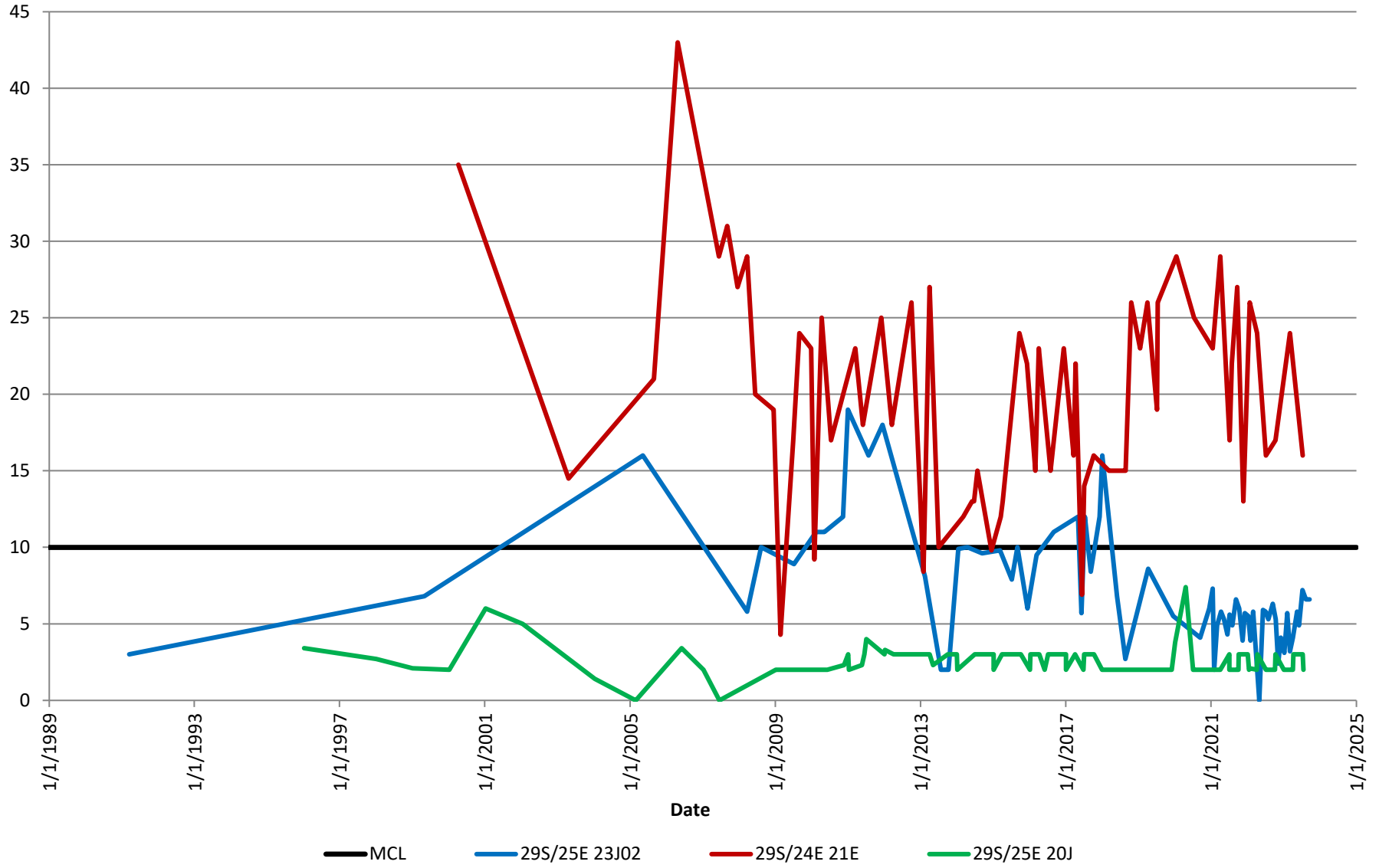


- MCL
- 29S/26E 35P02
- 29S/26E-31H02 (Shallow)
- 29S/26E 24M02
- 29S/26E 25G
- 29S/26E-35H03 (Deep)
- 29S/26E 21D01
- 29S/26E-31H01 (Deep)
- 29S/26E-35H04 (Shallow)

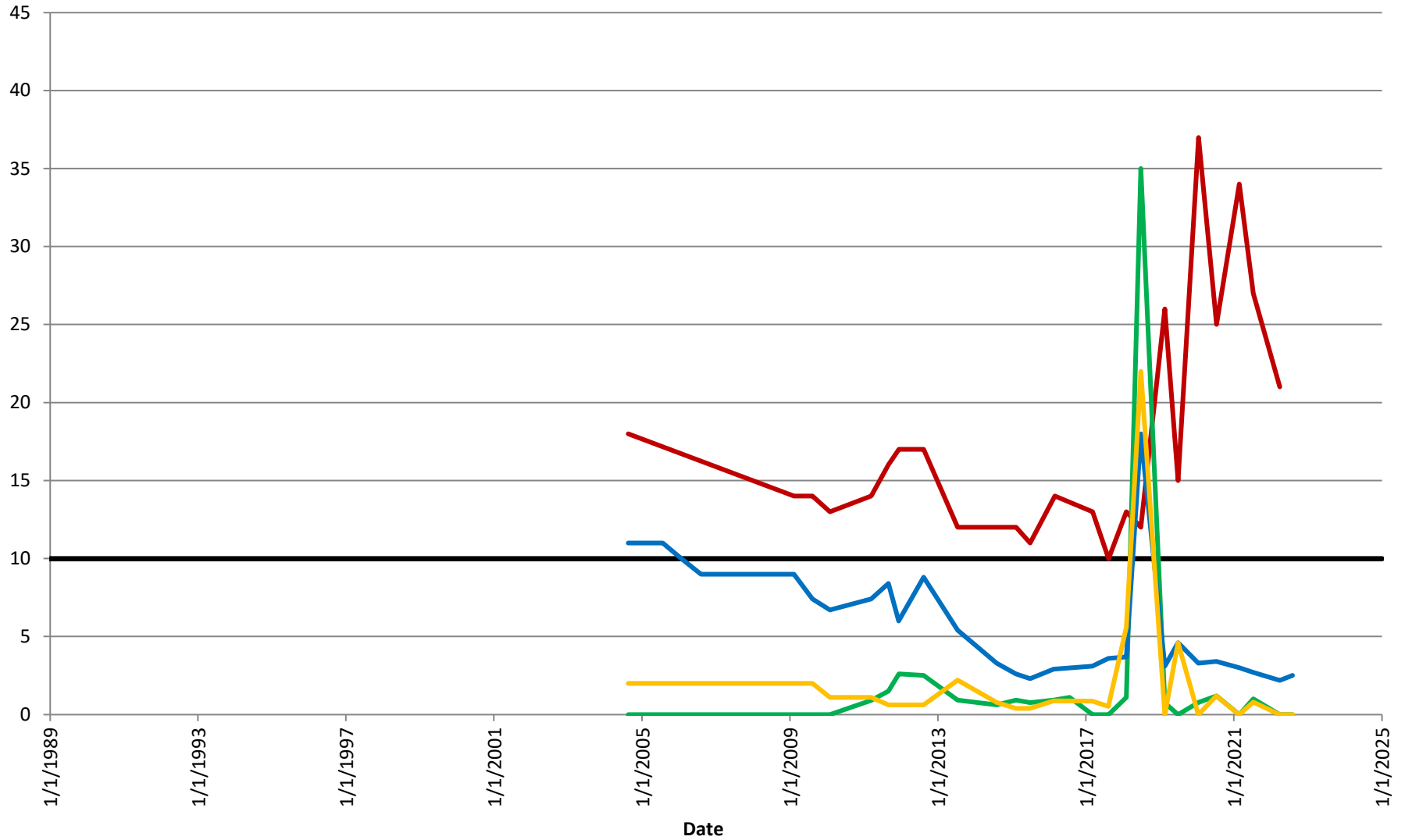
ROSEDALE-RIO BRAVO WSD
Arsenic Concentration in Wells (North Monitoring Area)
(ug/l)



ROSEDALE-RIO BRAVO WSD
Arsenic Concentration in Wells (Central Monitoring Area)
(ug/l)

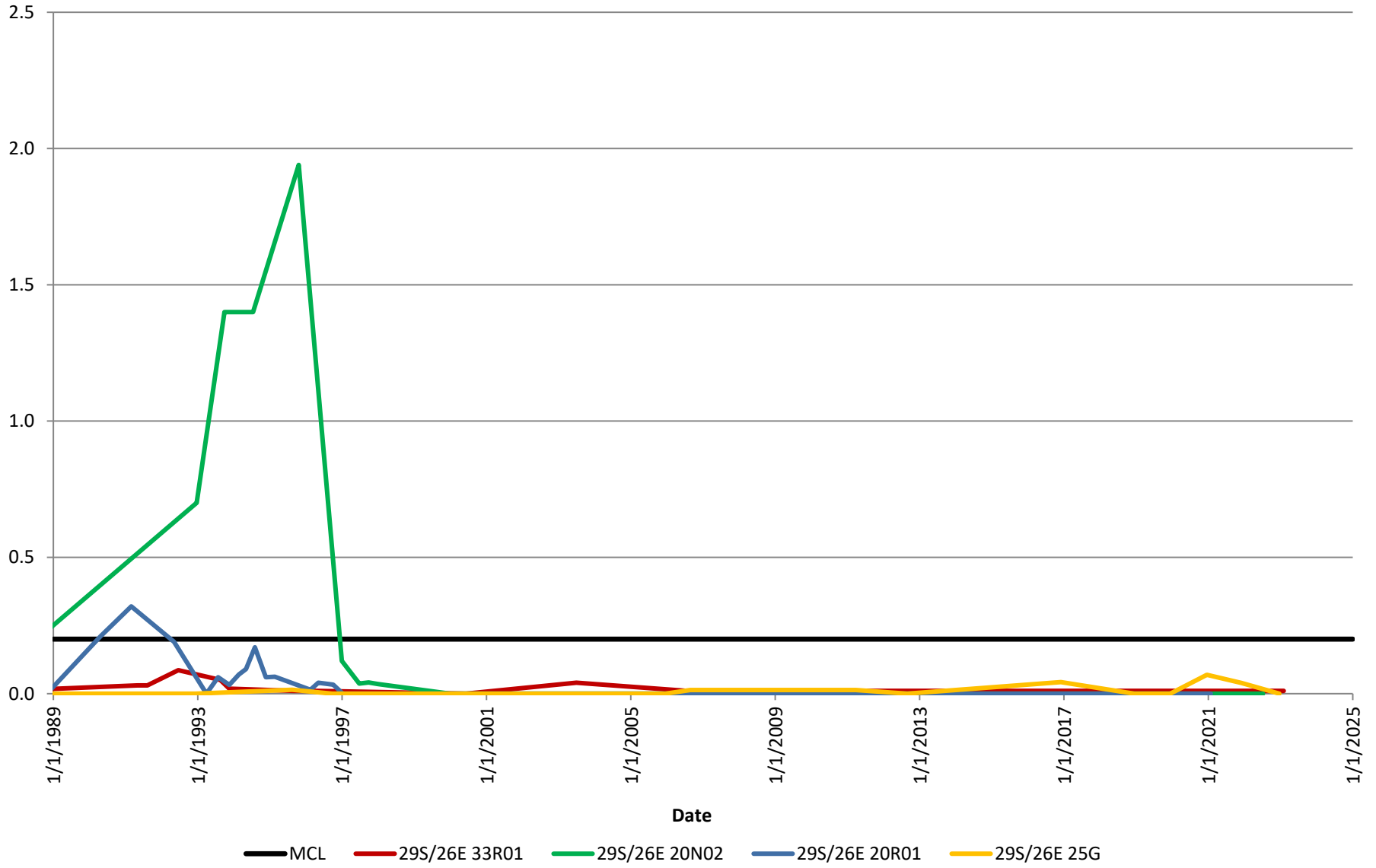


ROSEDALE-RIO BRAVO WSD
Arsenic Concentration in Wells (South Monitoring Area)
(ug/l)

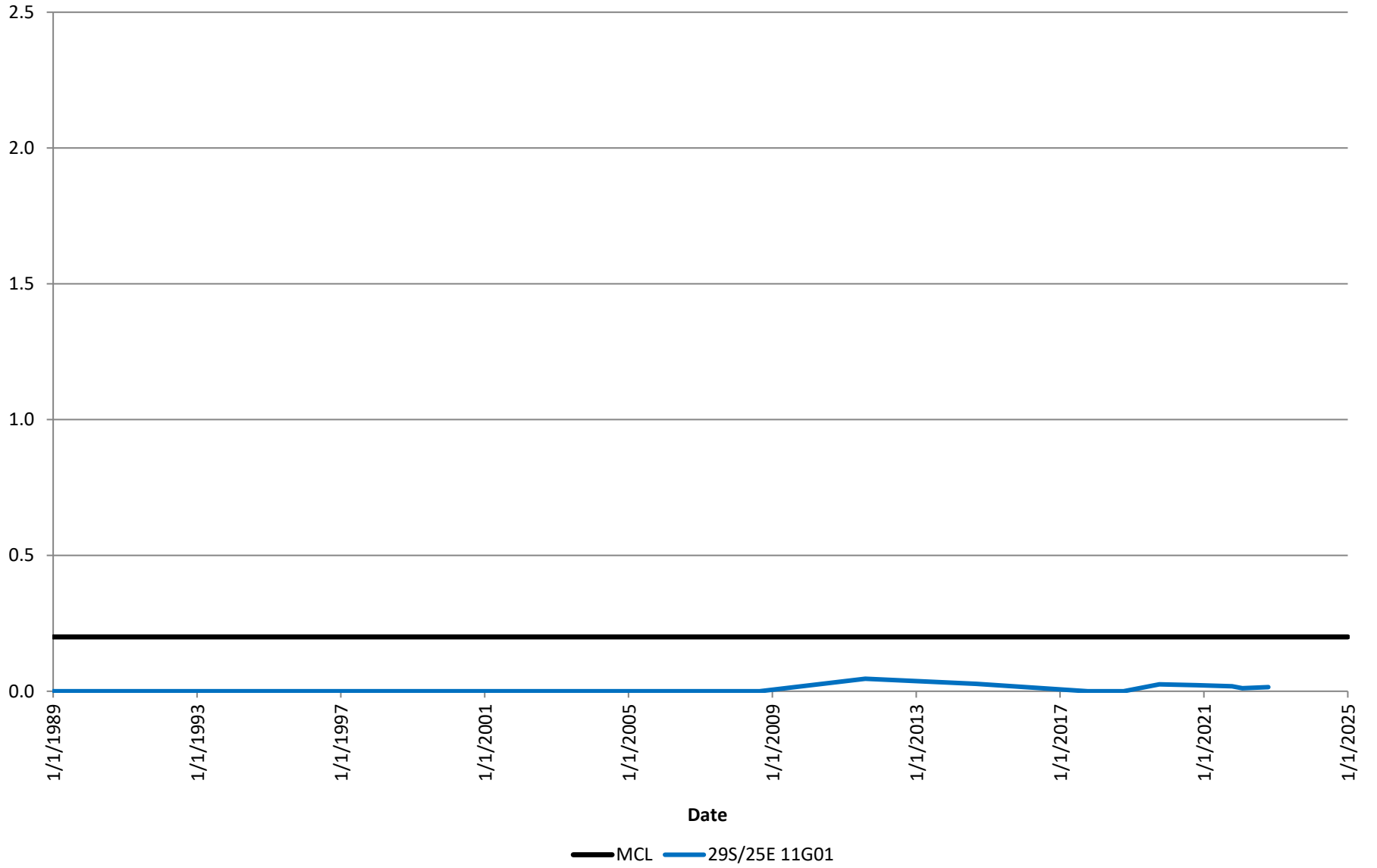


— MCL — 29S/25E-25M01 (Deep) — 29S/25E-25M02 (Shallow) — 29S/25E-27N01 (Deep) — 29S/25E-27N02 (Shallow)

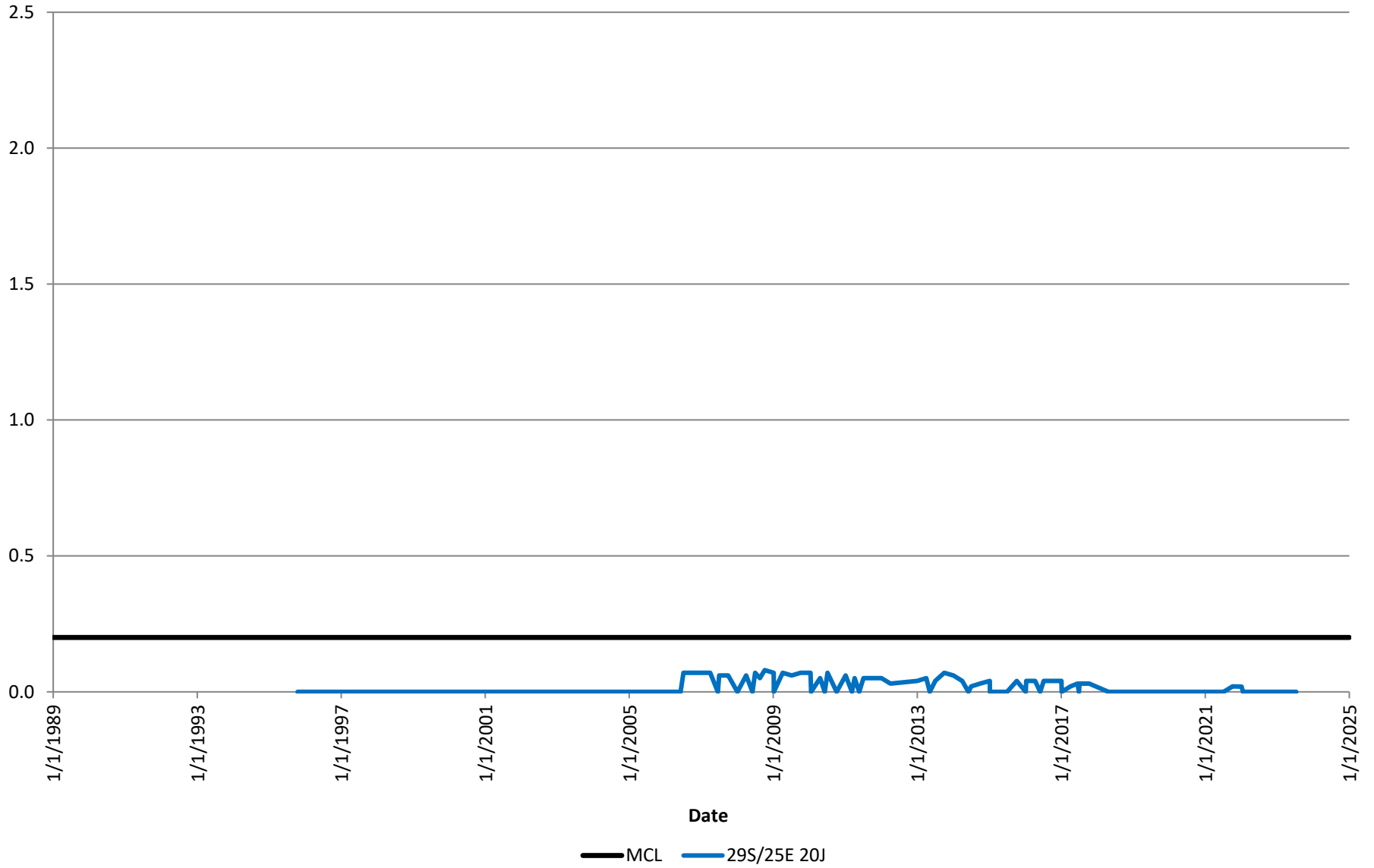
ROSEDALE-RIO BRAVO WSD
DBCP Concentration in Wells (East Monitoring Area)
(ug/l)



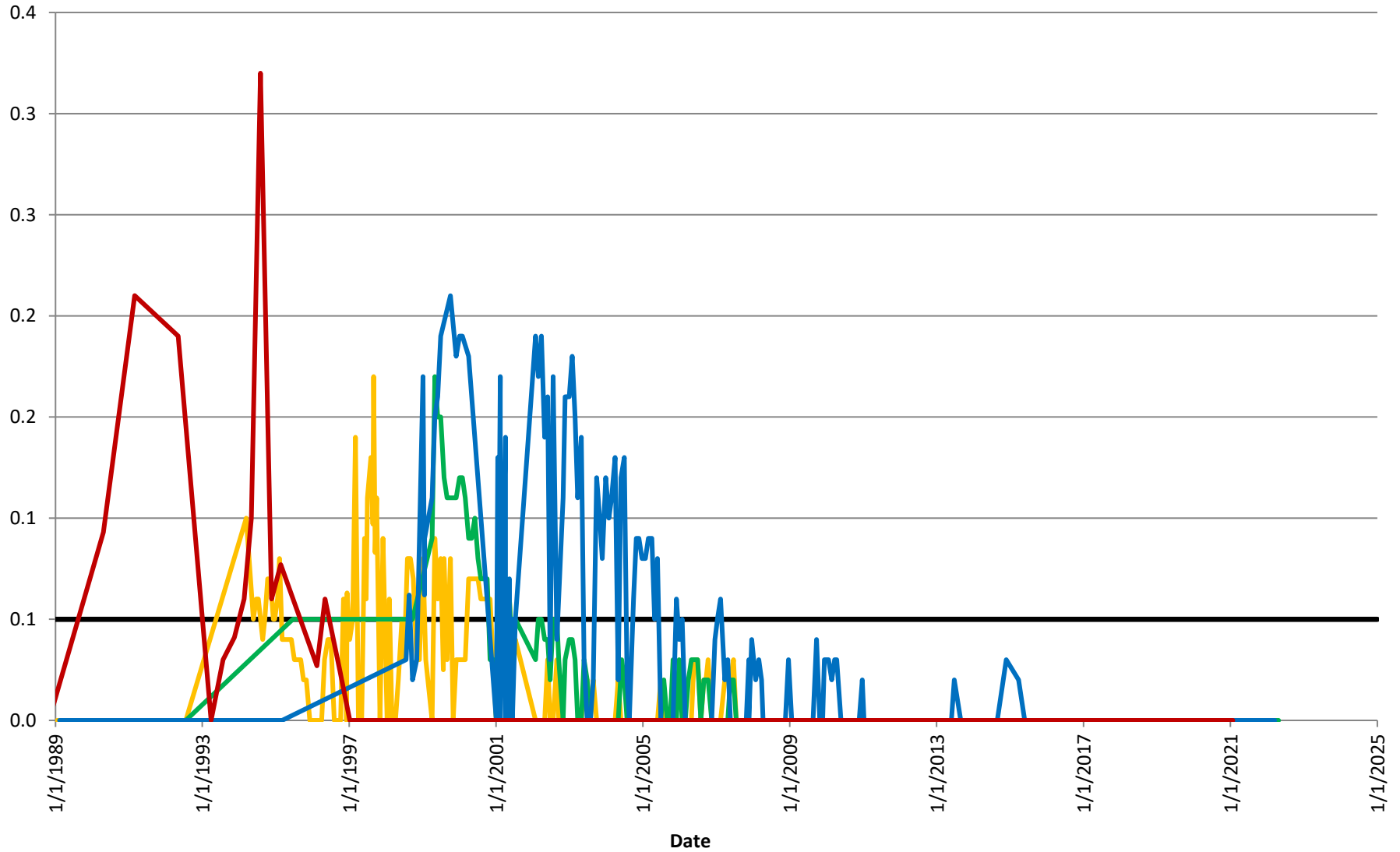
ROSEDALE-RIO BRAVO WSD
DBCP Concentration in Wells (North Monitoring Area)
(ug/l)



ROSEDALE-RIO BRAVO WSD
DBCP Concentration in Wells (Central Monitoring Area)
(ug/l)

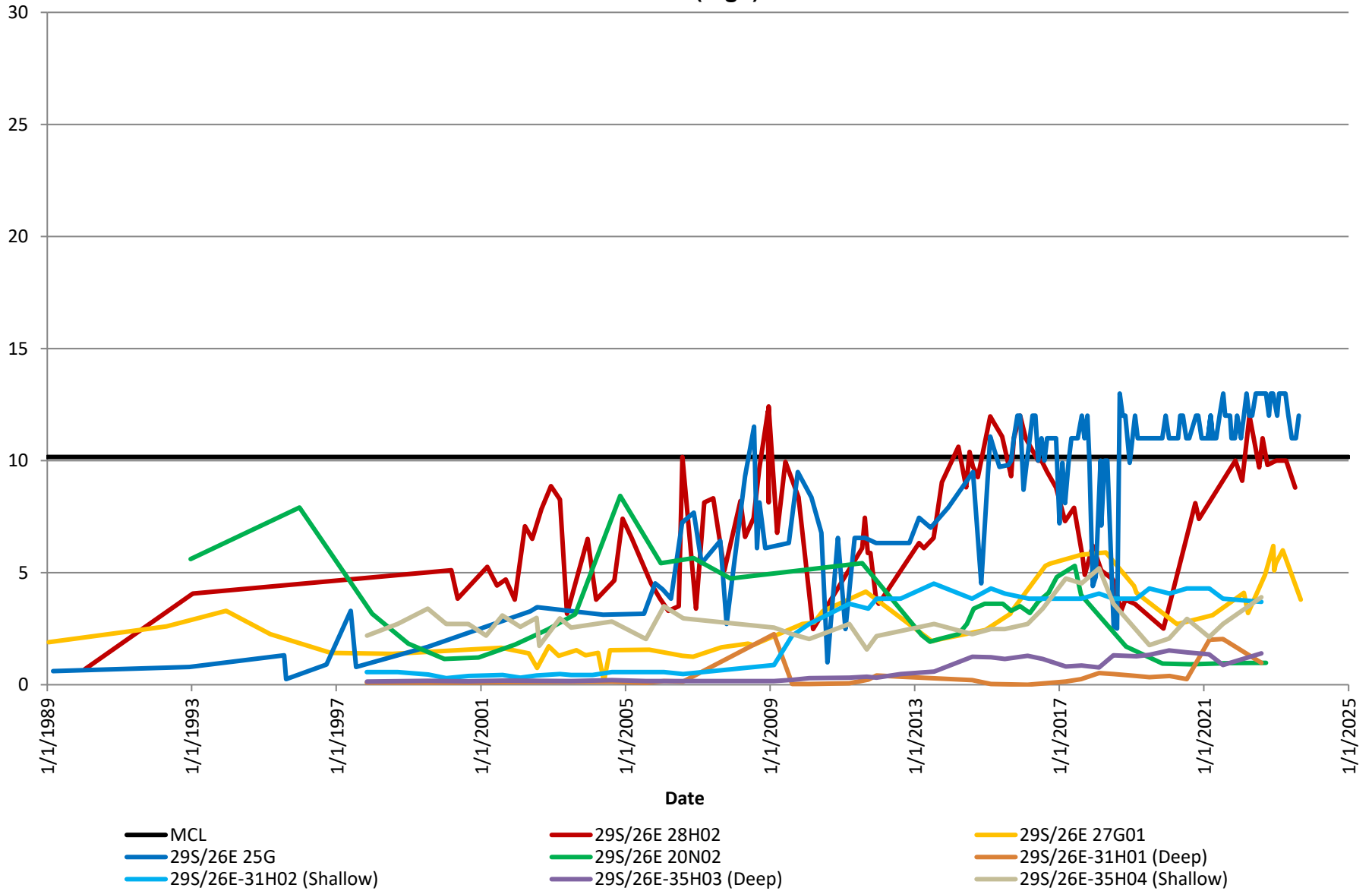


ROSEDALE-RIO BRAVO WSD
EDB Concentration in Wells (East Monitoring Area)
(ug/l)

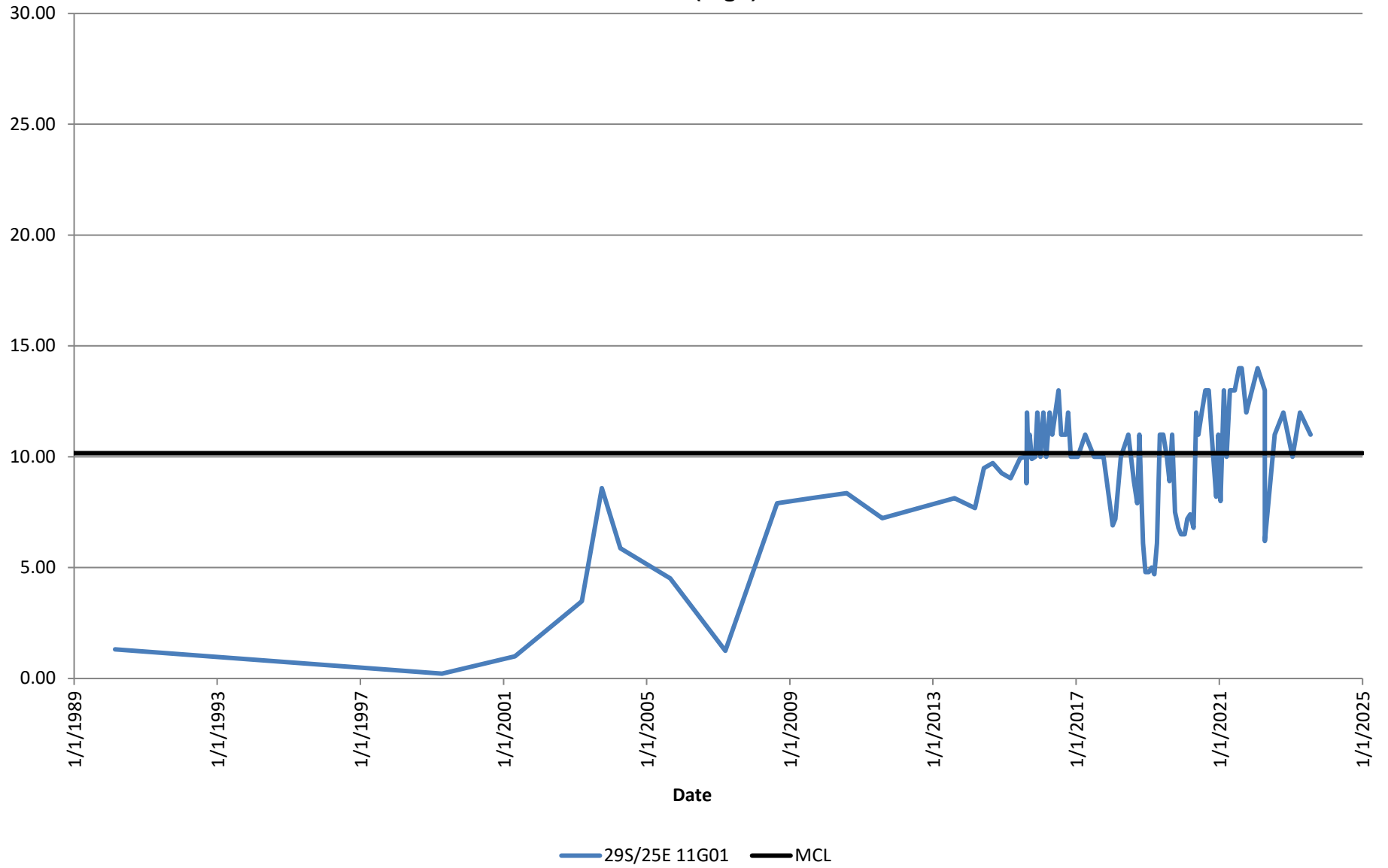


— MCL — 29S/26E 27G01 — 29S/26E 27E01 — 29S/26E 22N02 — 29S/26E 20R01

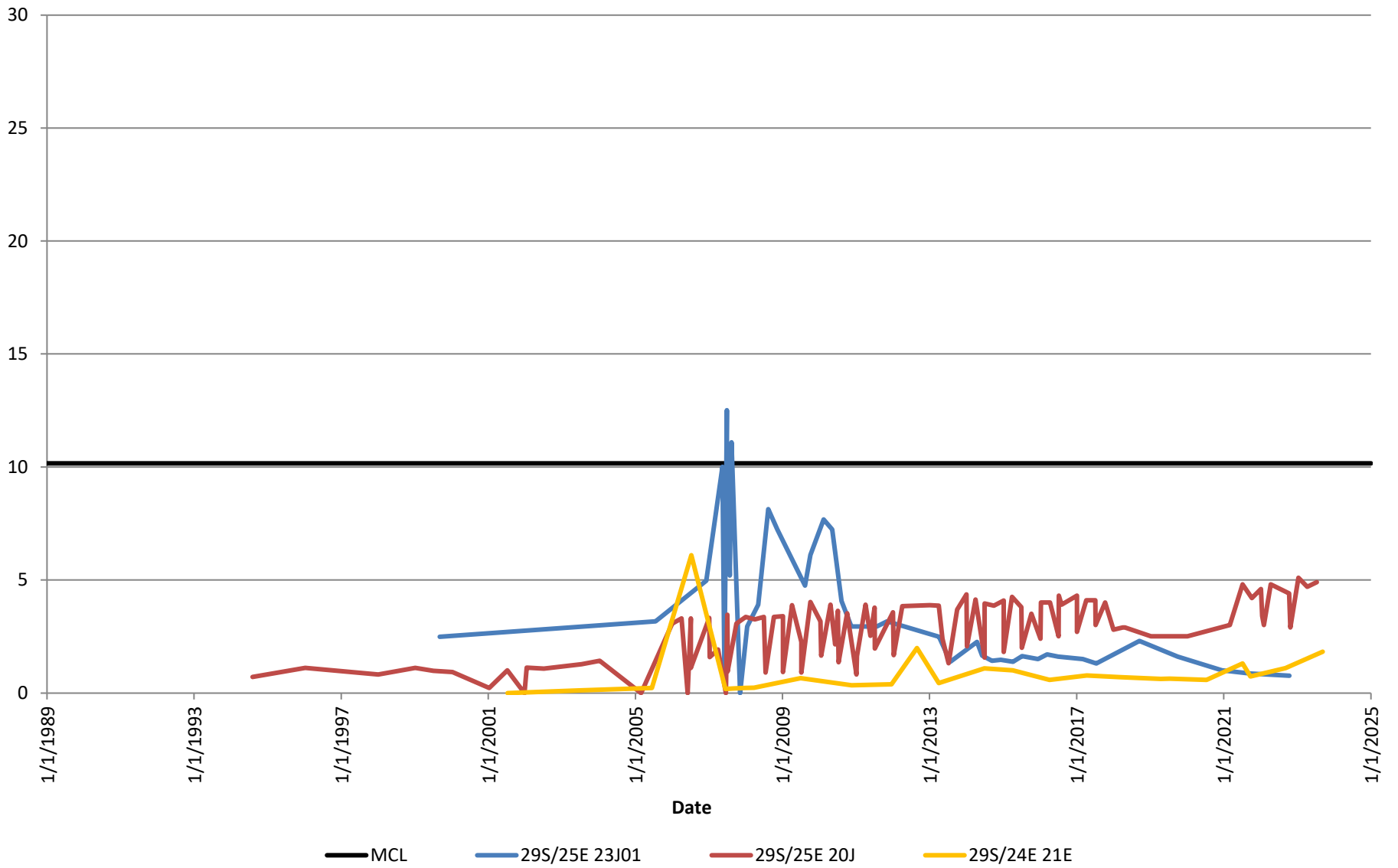
ROSEDALE-RIO BRAVO WSD
Nitrate Concentration in Wells (East Monitoring Area)
(mg/l)



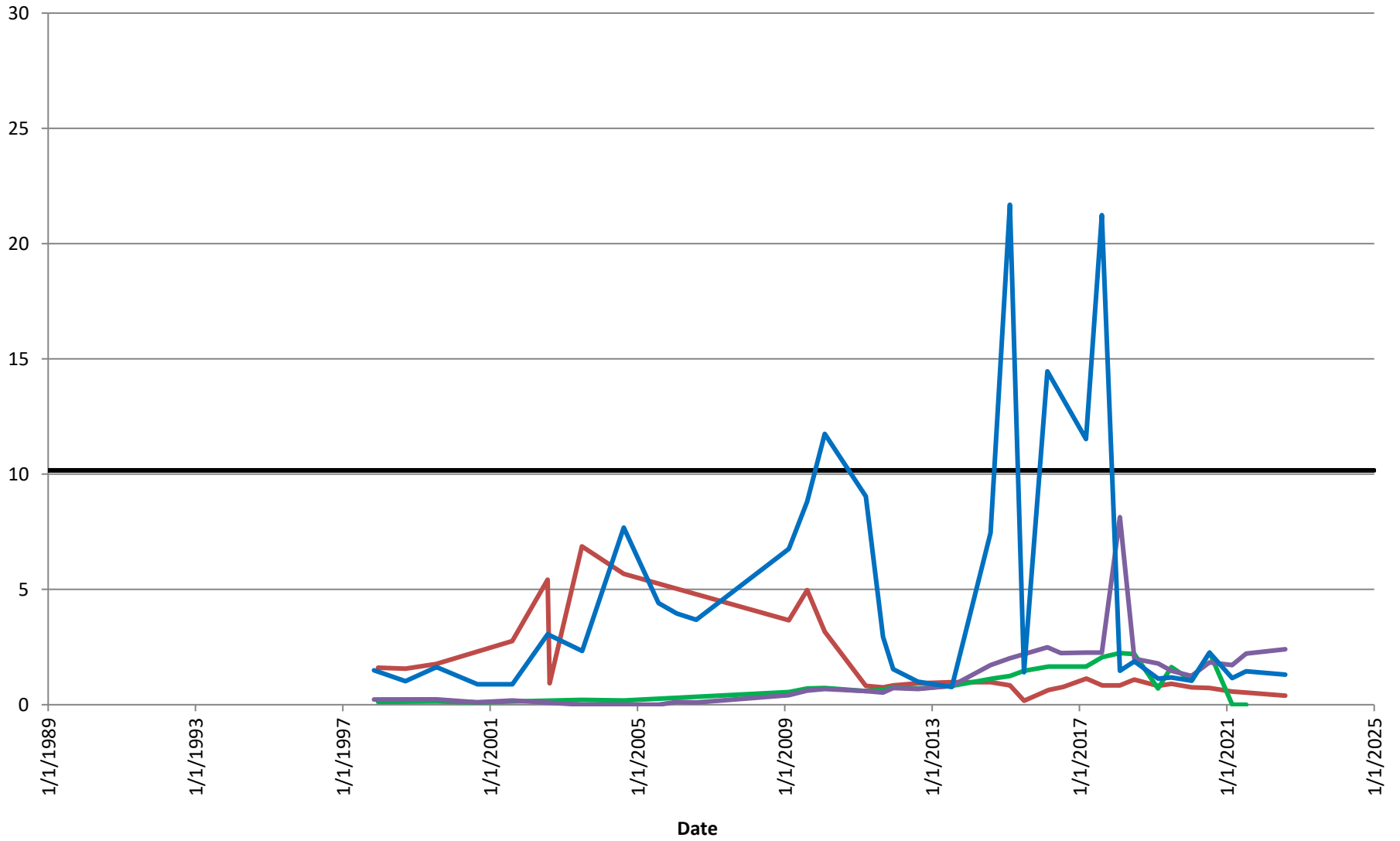
ROSEDALE-RIO BRAVO WSD
Nitrate Concentration in Wells (North Monitoring Area)
(mg/l)



ROSEDALE-RIO BRAVO WSD
Nitrate Concentration in Wells (Central Monitoring Area)
(mg/l)

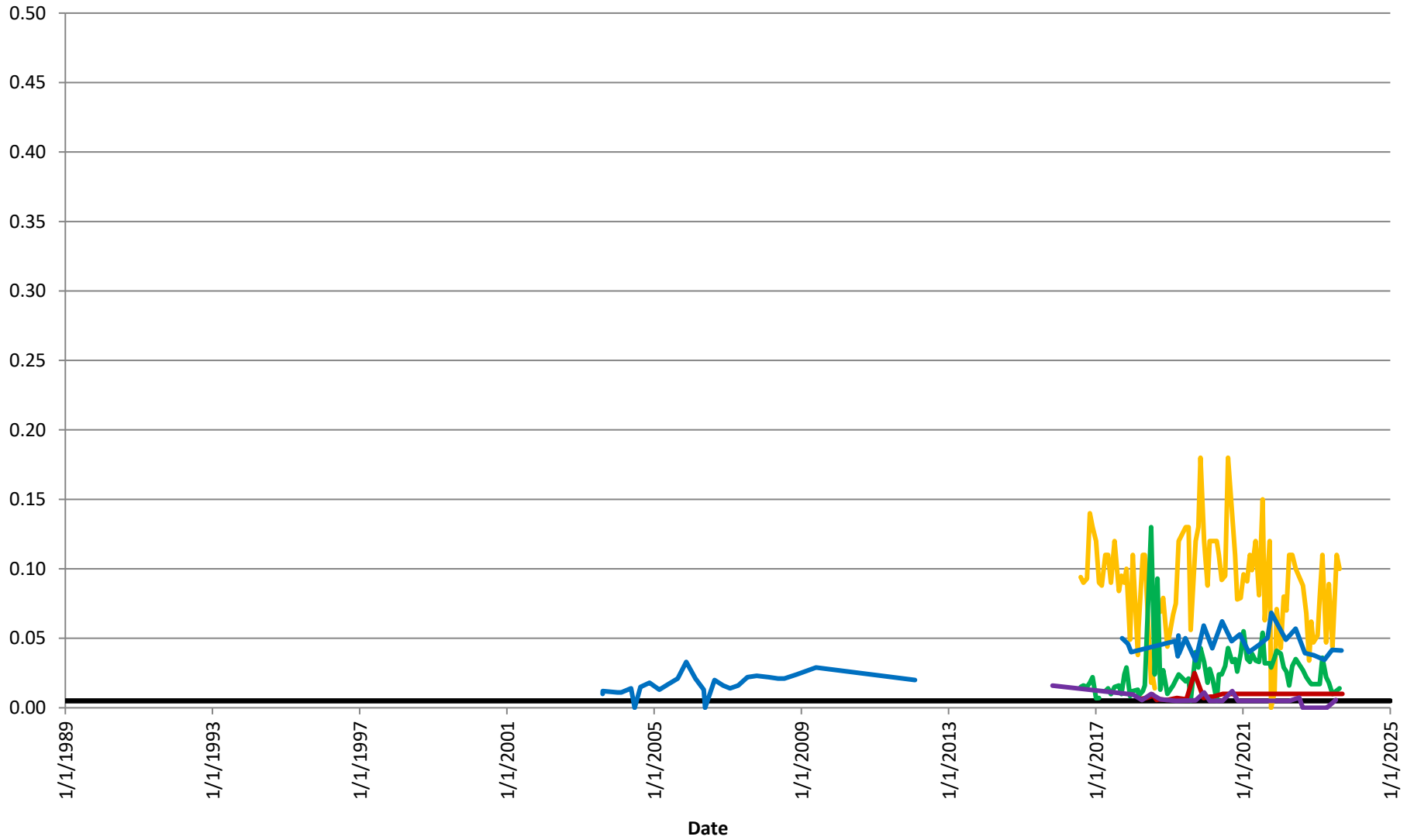


ROSEDALE-RIO BRAVO WSD
Nitrate Concentration in Wells (South Monitoring Area)
(mg/l)



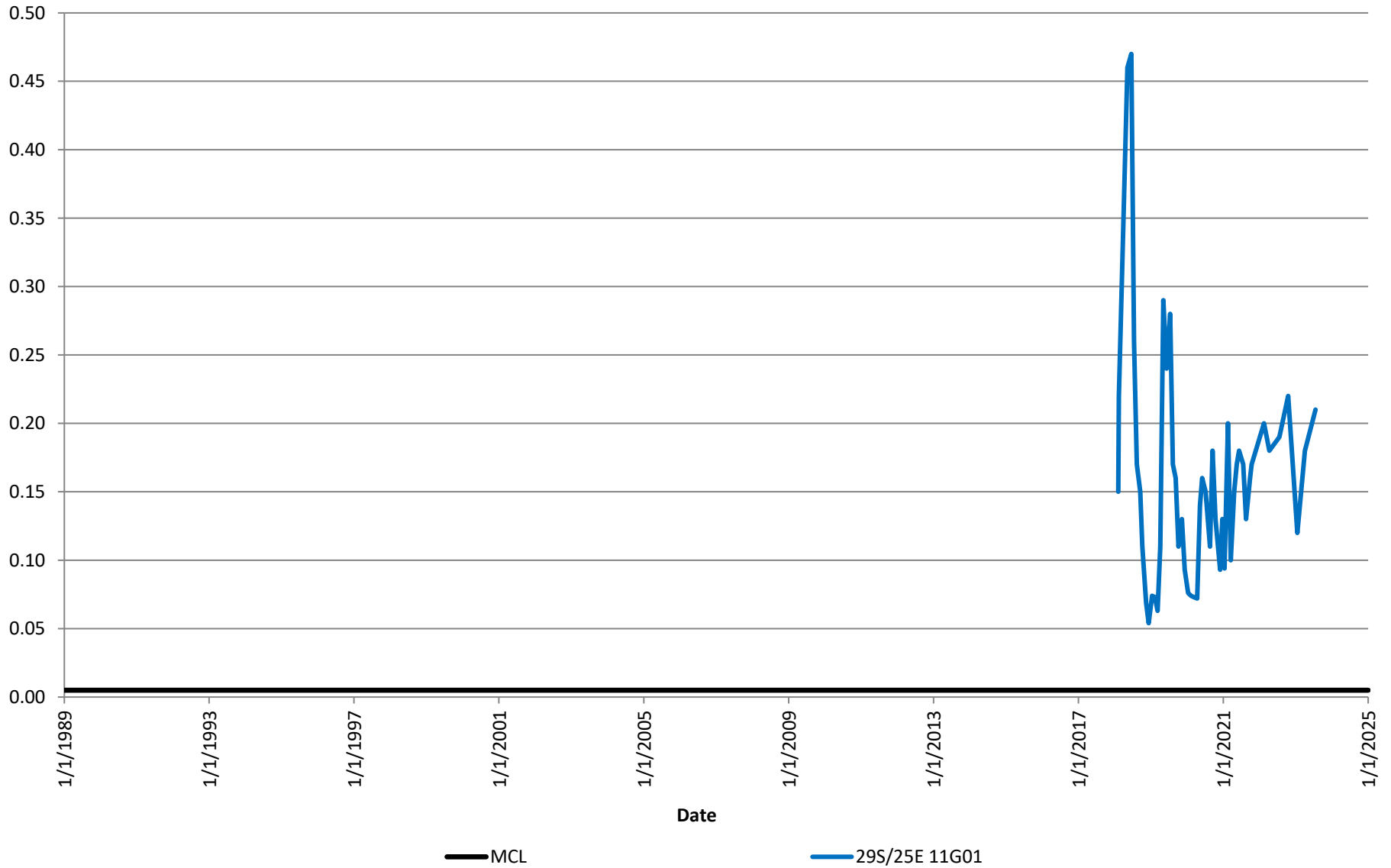
— MCL — 29S/25E-25M02 (Shallow) — 29S/25E-25M01 (Deep) — 29S/25E-27N01 (Deep) — 29S/25E-27N02 (Shallow)

ROSEDALE-RIO BRAVO WSD
1,2,3-TCP Concentration in Wells (East Monitoring Area)
(ug/l)

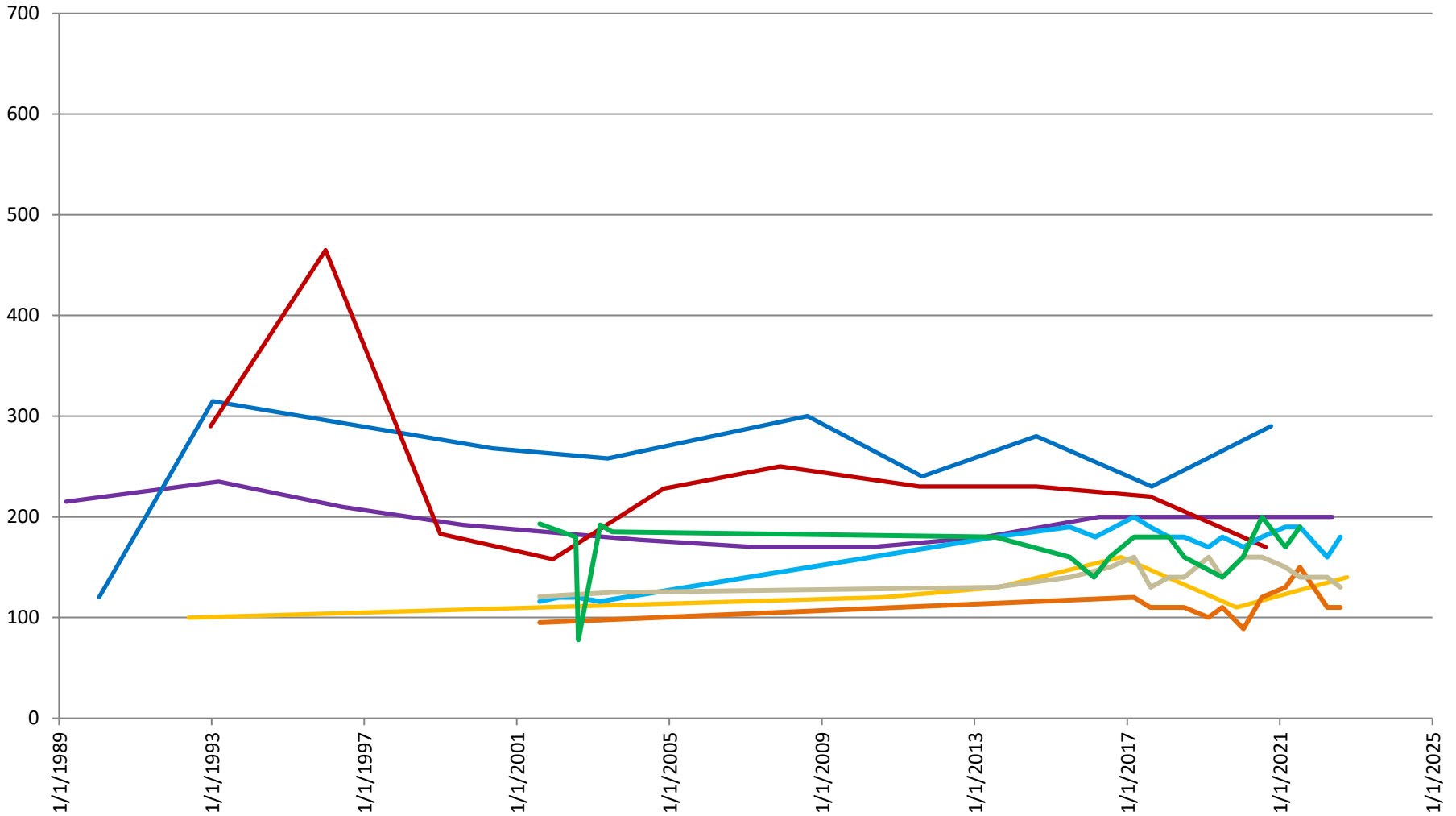


— MCL — 29S/26E 25G — 29S/26E 24L — 29S/26E 25R02 — 29S/26E 24A01 — 29S/26E 28H02

ROSEDALE-RIO BRAVO WSD
1,2,3-TCP Concentration in Wells (North Monitoring Area)
(ug/l)

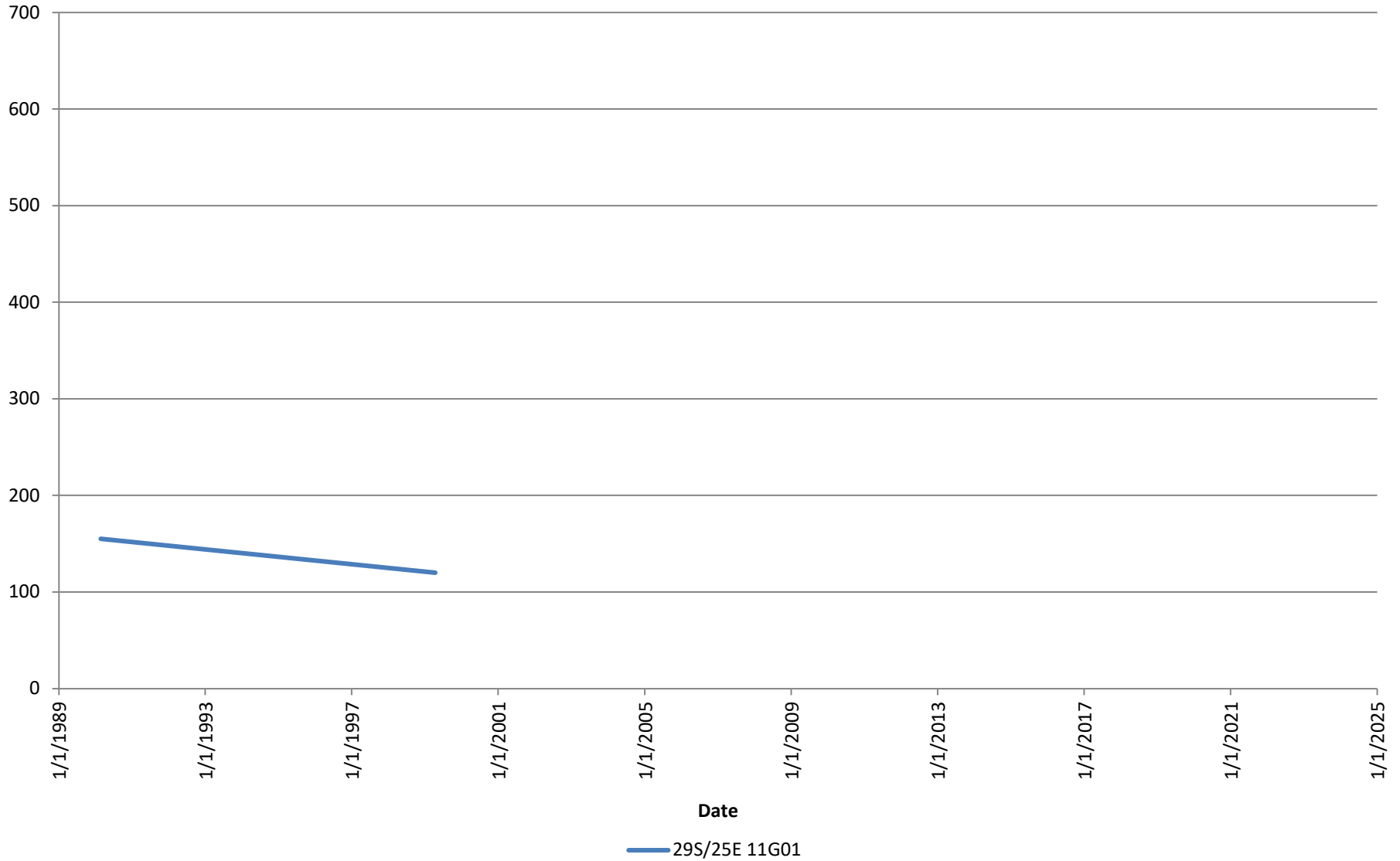


ROSEDALE-RIO BRAVO WSD
TDS Concentration in Wells (East Monitoring Area)
(mg/l)

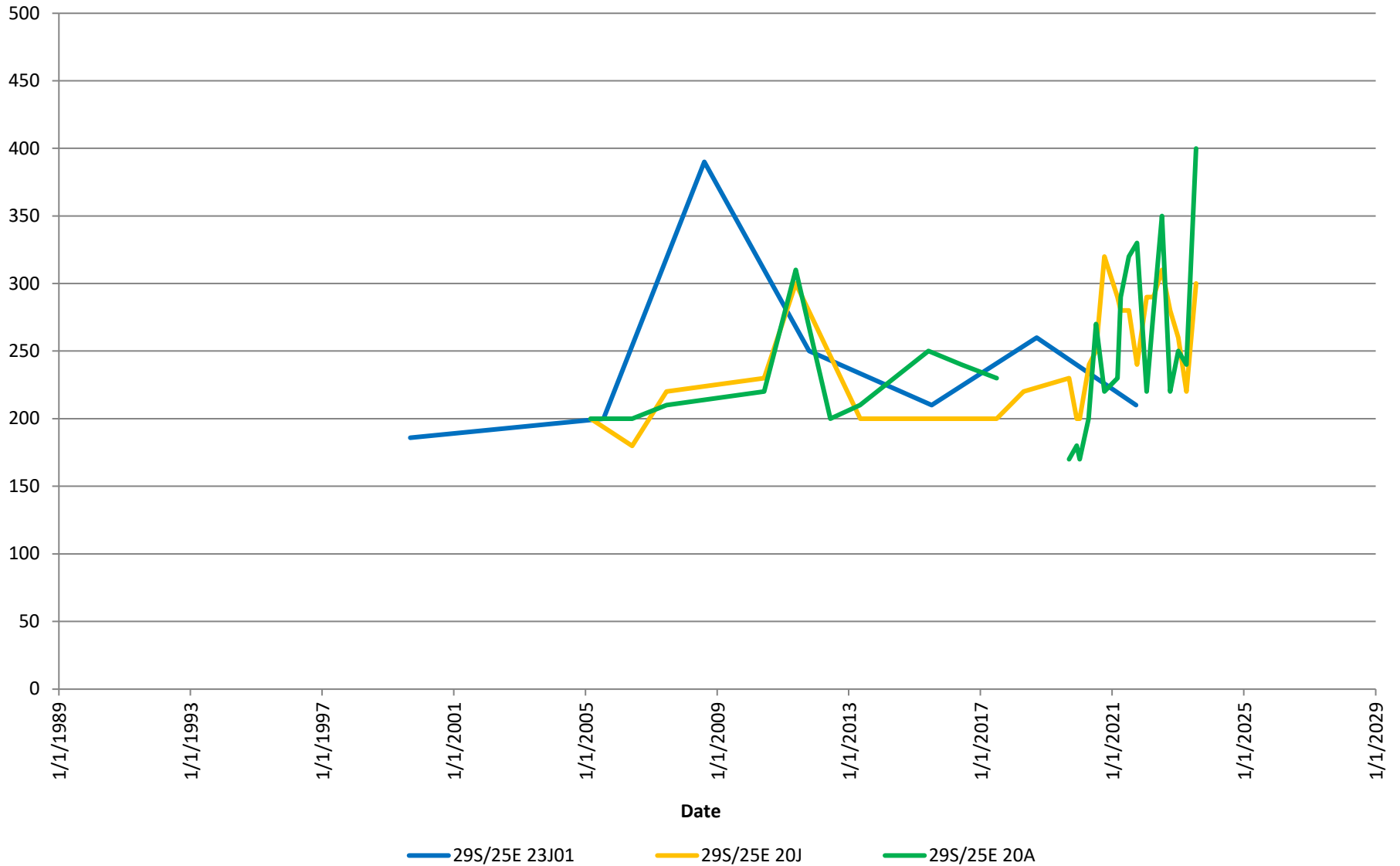


- Date**
- 29S/26E 35R01
 - 29S/26E 28H02
 - 29S/26E 21D01
 - 29S/26E 20N02
 - 29S/26E-31H01 (Deep)
 - 29S/26E-31H02 (Shallow)
 - 29S/26E-35H03 (Deep)
 - 29S/26E-35H04 (Shallow)

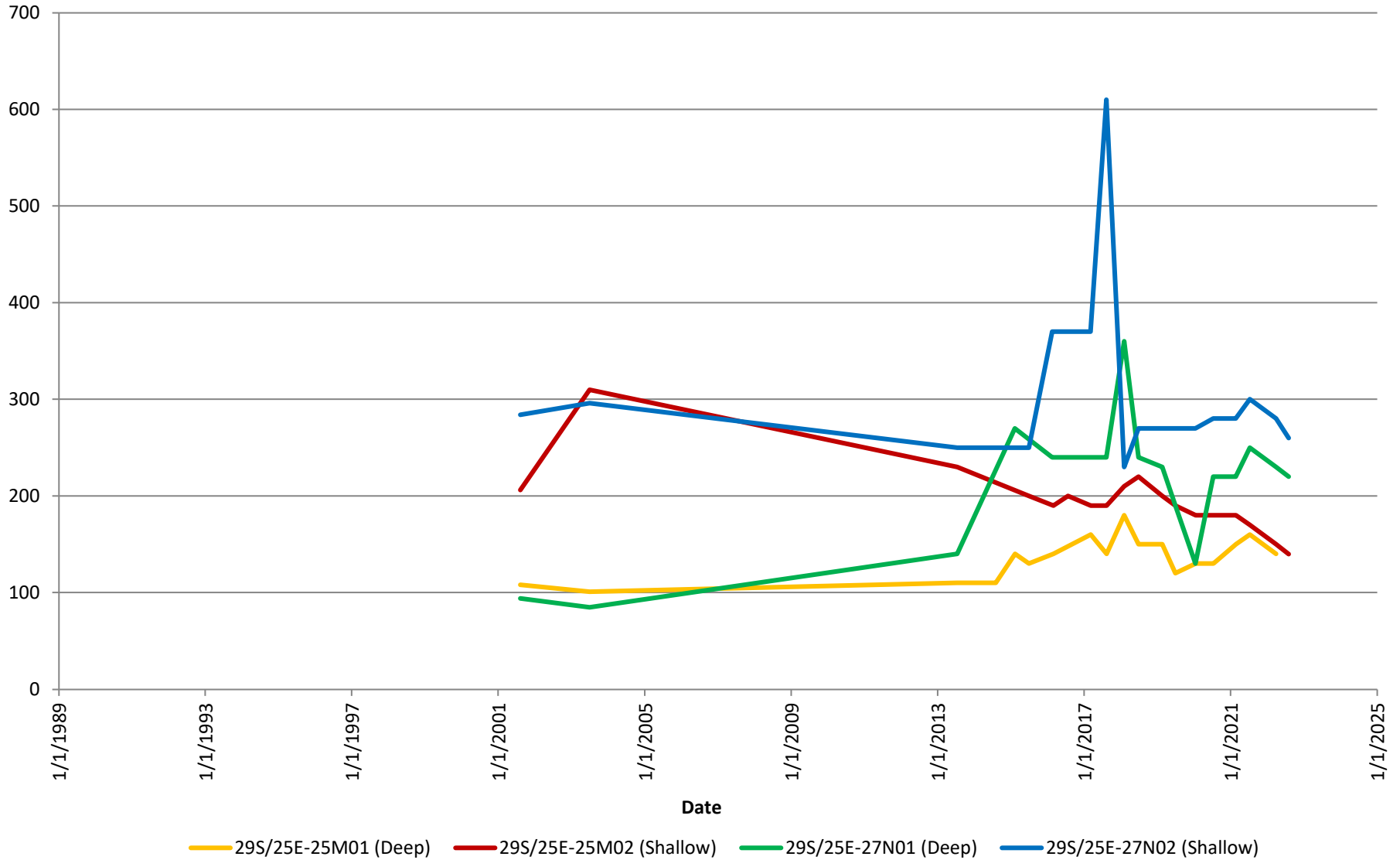
ROSEDALE-RIO BRAVO WSD
TDS Concentration in Wells (North Monitoring Area)
(mg/l)



ROSEDALE-RIO BRAVO WSD
TDS Concentration in Wells (Central Monitoring Area)
(mg/l)



**ROSEDALE-RIO BRAVO MANAGEMENT AREA
TDS Concentration in Wells (South Monitoring Area)
(mg/l)**



Appendix 4

RRBWSD Groundwater Program Operations 1995-2022

RRBWS D Groundwater Program Operations Report 1995-2022

Table 1 - Water Supplies For Rosedale-Rio Bravo Water Storage District

Year	Water Supply (Inflows)																				Total Supplies ⁴	
	1. District Contractual Water Rights				2. District Water Rights		3. District Water Purchases						4. District Programs (see Table 3 for details)					5. District Natural Inflows				
	a	b	c	d	a	b	a	b	c	d	e	f	a	b	c	d	e	a	b	c		d
Kern River Regulated Supply	SWP Table A Supply	Kern River Credited yet Undelivered Supplies ⁵	Subtotal (a + b + c)	Onyx Project	Subtotal (a + b)	SWP Article 21	SWP Pools	CVP Section 215	Purchased Groundwater	Short-term Purchases & Exchanges	Subtotal (a+b+c+d+e)	Gross Deliveries for Programs	Total to Program Accounts	Total Returned from Program Accounts	Total Program Account Balances	Gross Program Share for RRBWS D	Gross Useable Rainfall ¹	Unregulated Flood Flows ²	Safe Yield ³	Subtotal (a + b + c)		
1995	87,383	29,900	-	117,283			7,858	-	693	-	(4,908)	3,643	29,515	19,677	-	27,717	9,838	27,522	2,992	12,683	43,198	173,962
1996	56,305	29,900	-	86,205			-	-	-	(6,690)	(6,690)	51,796	34,531	-	62,248	17,265	22,146	-	12,683	34,829	131,610	
1997	59,226	29,900	-	89,126			-	-	-	(8,894)	(8,894)	39,054	29,861	11,476	80,633	9,193	16,316	20,793	12,607	49,716	139,141	
1998	74,383	29,900	-	104,283			-	-	2,361	-	12,368	14,729	690	460	5,590	75,503	230	38,380	39,065	12,607	90,052	209,294
1999	14,787	29,900	-	44,687			3,790	30,000	-	219	34,009	3,187	3,187	29,753	48,937	-	16,948	-	12,607	29,555	108,251	
2000	10,758	7,874	-	18,632			3,254	16,872	-	(8,071)	12,055	48,279	32,186	5,000	76,123	16,093	13,979	-	12,604	26,583	73,363	
2001	3,972	2,943	-	6,915			691	122	-	9,130	8,718	18,661	4,037	2,146	3,733	74,536	1,808	20,785	-	12,601	33,385	60,770
2002	5,135	20,648	-	25,783			968	631	-	148	1,747	-	-	21,523	53,013	-	12,374	-	12,552	24,926	52,456	
2003	7,576	27,077	-	34,653			838	255	-	-	1,093	25,143	21,810	23,030	51,792	3,333	14,736	-	12,552	27,287	66,367	
2004	3,342	19,550	-	22,892			3,034	157	-	100,000	223	103,414	313	280	17,938	34,134	-	17,105	-	12,550	29,655	155,961
2005	56,017	26,475	-	82,492			3,807	587	-	-	4,134	8,528	215,077	136,490	3,943	166,680	67,897	24,599	-	12,529	37,128	196,045
2006	27,643	30,335	-	57,978			1,868	-	3,949	-	676	6,493	73,816	62,676	417	225,957	5,000	18,920	21,809	12,518	53,247	122,718
2007	7,783	17,122	-	24,905			552	145	-	10,000	(9,472)	1,225	8,200	29,323	44,103	211,176	-	9,051	-	12,518	21,569	47,699
2008	-	10,695	-	10,695			-	28	-	2,223	-	2,251	-	-	17,421	193,755	-	9,658	-	12,518	22,176	35,122
2009	-	12,044	-	12,044			-	48	-	5,792	(842)	4,998	4,633	4,170	14,818	183,107	-	15,385	-	12,506	27,891	44,933
2010	14,965	13,906	-	28,871			-	100	-	-	6,221	6,321	116,925	82,081	8,250	256,938	37,850	38,338	-	12,555	50,893	123,934
2011	35,776	6,144	-	41,920			4,355	527	11,954	-	34,874	51,710	187,259	136,248	11,000	382,186	51,753	13,617	-	12,555	26,172	171,555
2012	7,328	19,418	-	26,746			-	67	-	-	(571)	(504)	37,975	35,381	33,499	384,068	14,029	13,400	-	12,555	25,955	66,226
2013	-	23,852	-	23,852			-	1,607	-	25,000	-	26,607	-	-	44,197	339,871	-	10,311	-	12,728	23,039	73,498
2014	-	6,460	-	6,460			-	191	-	7,902	-	8,093	-	-	50,140	289,731	-	12,182	-	12,728	24,910	39,463
2015	-	6,701	-	6,701			-	1	-	169	-	170	-	-	38,940	250,791	-	11,939	-	12,936	24,875	31,746
2016	-	17,678	-	17,678			-	277	-	-	(7,047)	(6,770)	8,298	9,209	26,753	233,247	4,149	21,600	-	12,936	34,536	49,593
2017	99,376	25,945	-	125,321			22,186	341	1,950	-	23,775	48,252	213,880	144,903	21,579	356,571	56,612	16,452	-	12,793	29,245	259,429
2018	10,122	9,086	-	19,208			-	294	-	-	11,319	11,613	41,452	19,988	29,135	350,945	20,417	15,823	-	12,793	28,616	79,854
2019	9,878	8,551	-	18,429			6,582	-	-	-	24,917	31,499	167,579	105,384	10,112	447,079	55,483	27,342	-	12,793	40,135	145,546
2020	10,000	18,161	-	28,161			-	91	-	6,869	5,000	11,960	6,675	3,068	59,015	391,133	3,538	15,924	-	12,793	28,717	72,375
2021	49,888	2,988	73,989	126,865			-	-	-	-	-	-	-	-	77,564	313,569	-	16,236	-	12,793	29,029	155,894
2022	15,337	3,074	4,663	23,074	1,115	1,115	-	-	-	4,354	-	4,354	1,476	930	66,177	248,322	738	12,199	-	12,794	24,993	54,274
Total	666,980	486,227	78,652	1,231,859			59,783	52,341	20,907	171,439	86,097	390,567	1,285,259	913,988	675,106	5,809,760	375,225	503,270	84,659	354,386	942,314	2,941,081
Average	30,317	17,365	-	43,995			4,599	2,617	4,181	17,144	6,623	16,981	58,421	41,545	25,966	207,491	20,846	17,974	21,165	12,657	33,654	105,039
Median	10,061	17,920	-	26,265			-	-	-	-	-	6,407	8,249	14,443	19,731	218,566	3,435	16,080	-	12,607	28,873	76,676

- Notes: 1. Effective precipitation calculated per method developed as a part of groundwater mediation process.
 2. Unregulated flood flows include deliveries of floodwater from the Kern River and the Friant system.
 3. Safe yield calculated based on 0.3 acre-feet/acre for total District gross (assessed) acres less non-farmed District owned lands.
 4. Total supplies = 1d + 2f + 3e + 4d. Supplies do not include water banked for 3rd parties.
 5. Includes estimated Kern River water owed to RRB by the City of Bakersfield but not yet delivered (under terms of agreements between RRBWS D and City).

Table 2 - Water Demands & Balance For Rosedale-Rio Bravo Water Storage District

Year	Water Demands (Outflows)									Supplies (Inflows)	Balance					
	1. District Consumption			2. Other					Total Demands [Col 1a+2d]		Total Water Supplies (Table 1)	Annual Balance (Change In Storage)	Cumulative Groundwater Balance (End of Year)			
	a	b	c	a	b	c	d	e					GLC Program			RRBWSD District Balance
	Crop Use ¹	Urban Use ²	Subtotal	Transfers	District ODC Losses ³	Kern Fan Project Losses ⁴	District Project Losses ⁴	Subtotal					ODC Balance	Exportable Balance ⁵	Total Program Balance	
1995	84,252	6,497	90,749	-	3,838	474	1,181	5,493	96,242	173,962	77,720	77,720		77,720	77,720	
1996	83,861	6,542	90,403	-	2,564	931	2,072	5,567	95,970	131,610	35,639	113,360		113,360	113,360	
1997	87,179	6,587	93,766	-	2,481	413	1,103	3,997	97,763	139,141	41,378	154,738		154,738	154,738	
1998	88,808	6,631	95,439	-	4,187	776	28	4,990	100,430	209,294	108,865	263,603		263,603	263,603	
1999	89,842	6,874	96,716	-	1,468	-	-	1,468	98,184	108,251	10,067	273,669		273,669	273,669	
2000	86,634	7,117	93,751	-	771	1,400	1,931	4,102	97,853	73,363	(24,490)	249,179		249,179	249,179	
2001	83,575	7,360	90,935	-	96	123	50	270	91,204	60,770	(30,435)	218,744		218,744	218,744	
2002	81,138	7,603	88,741	-	122	117	-	239	88,979	52,456	(36,524)	182,220		182,220	182,220	
2003	81,916	7,725	89,641	-	376	556	400	1,332	90,973	66,367	(24,606)	157,614		157,614	157,614	
2004	81,707	7,877	89,584	-	251	-	-	251	89,835	155,961	66,126	123,740	100,000	223,740	223,740	
2005	82,486	8,308	90,794	-	2,382	2,180	7,171	11,732	102,527	196,045	93,518	217,258	100,000	317,258	317,258	
2006	83,284	8,454	91,738	-	2,223	638	338	3,199	94,937	122,718	27,780	223,230	121,809	345,039	345,039	
2007	76,112	8,797	84,909	-	271	-	-	271	85,180	47,699	(37,481)	185,749	121,809	307,558	307,558	
2008	79,624	8,703	88,327	3,000	-	-	330	3,330	91,657	35,122	(53,535)	132,214	118,809	251,023	251,023	
2009	84,177	8,809	92,986	3,000	-	-	330	3,330	96,316	44,933	(48,382)	83,832	115,809	199,641	199,641	
2010	86,748	8,825	95,573	-	828	231	2,322	3,381	98,954	123,934	24,980	108,812	115,809	224,621	224,621	
2011	83,319	8,518	91,837	-	2,021	1,537	3,643	7,201	99,038	171,555	72,517	162,976	134,162	297,138	297,138	
2012	84,474	8,518	92,992	4,000	284	74	1,302	5,660	98,652	66,226	(28,426)	134,550	130,162	264,712	264,712	
2013	85,441	8,539	93,980	16,500	-	-	1,815	18,315	112,295	73,498	(22,296)	112,254	88,662	200,916	225,916	
2014	87,189	8,539	95,728	5,000	-	-	550	5,550	101,278	39,463	(56,814)	55,440	83,662	139,102	164,102	
2015	85,569	9,044	94,613	9,500	-	-	1,045	10,545	105,158	31,746	(63,911)	(8,472)	74,162	65,690	90,690	
2016	87,503	9,028	96,531	16,500	-	-	2,188	18,688	115,219	49,593	(49,126)	(57,597)	57,662	65	25,065	
2017	87,580	9,089	96,669	5,397	3,480	3,042	3,456	15,375	112,044	259,429	152,782	89,798	57,652	147,450	172,450	
2018	86,423	9,180	95,603	20,603	778	80	3,123	24,584	120,187	79,854	(19,731)	70,067	37,049	107,116	132,116	
2019	86,928	9,192	96,120	-	1,035	1,607	4,365	7,008	103,127	145,546	42,419	112,486	37,049	149,535	174,535	
2020	84,133	9,204	93,337	19,000	450	-	2,241	21,691	115,029	72,375	(23,653)	88,833	18,049	106,882	131,882	
2021	82,386	9,302	91,688	14,500	-	-	1,045	15,545	107,233	155,894	63,160	146,993	8,549	155,542	180,542	
2022	See Note 6		90,508	20,000	-	-	79	20,079	110,587	54,274	(36,313)	90,680	(16,451)	74,229	124,229	
Total	2,282,288	220,862	2,593,658	137,000	29,906	14,179	42,108	223,194	2,816,852	2,941,081						
Average	84,529	8,180	92,631	11,417	1,495	886	1,755	7,971	100,602	105,039						
Median	84,252	8,518	92,989	-	413	99	1,074	5,521	98,803	76,676						

- Notes:
1. Crop use calculated per method developed as a part of groundwater mediation process (Cal Poly method).
 2. Urban consumptive use estimated based on 1.2 acre-feet/net acre.
 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. 25,000 AF deleted from Exportable Balance per WK program and added to RRBWSD District Balance in 2013 and 2022.
 6. District consumption estimated from IRTC Metric for 2022. Crop survey consumptive use estimate was approximately 1% less than METRIC data.

Table 3 - RRBWSD Programs (From 2004 on)

Total All 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	0	0	0
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	0	0	0
2008	0	0	17,421	193,755	0	17,544	0	330	-330
2009	4,633	4,170	14,818	183,107	463	18,007	0	330	-330
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	3,643	48,110
2012	37,975	35,381	33,499	384,068	1,065	34,575	14,029	1,302	12,727
2013	0	0	44,197	339,871	0	34,575	0	1,815	-1,815
2014	0	0	50,140	289,731	0	34,575	0	550	-550
2015	0	0	38,940	250,791	0	34,575	0	1,045	-1,045
2016	8,298	9,209	26,753	233,247	0	34,575	4,149	2,188	1,961
2017	213,880	144,903	21,579	356,571	12,621	47,195	56,612	3,456	53,156
2018	41,452	19,988	29,135	350,945	1,047	48,242	20,417	3,123	17,294
2019	167,579	105,384	10,112	447,079	6,839	55,081	55,483	4,365	51,118
2020	6,675	3,068	59,015	391,133	184	55,265	3,538	2,241	1,296
2021	0	0	77,564	313,569	0	55,265	0	1,045	-1,045
2022	1,476	930	66,177	248,322	15	55,280	738	79	659

Note: Balances in programs started before 2004 are shown in beginning bank balance.

AEWSD Program (2:1 from 2004 on)														
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
Year	Total Delivery Ac-Ft	RRBWSD Share Ac-Ft	Banking Loss (6%) Ac-Ft	RRB Share Loss (3%) Ac-Ft	RRB Share - Losses Ac-Ft	1st Year Reserve Ac-Ft	2nd Year Reserve Ac-Ft	3rd Year Reserve Ac-Ft	Reserve Purchased Ac-Ft	RRB Share - Reserve Ac-Ft	Program Recharge Ac-Ft	Return by Exch. Ac-Ft	JURP Recovery Ac-Ft	Account Balance Ac-Ft
2004	0	0	0	0	0	0	0	0	0	0	0	17,938	0	50,488
2005	86,046	43,023	2,581	1,291	39,151	0	0	0	1,618	37,533	43,023	3,943	0	32,550
2006	0	0	0	0	0	0	0	0	0	0	0	417	0	71,630
2007	0	0	0	0	0	0	0	0	0	0	0	7,051	0	64,162
2008	0	0	0	0	0	0	0	0	0	0	0	0	9,171	54,991
2009	0	0	0	0	0	0	0	0	0	0	0	0	1,986	53,005
2010	0	0	0	0	0	0	0	0	0	0	0	0	0	53,005
2011	57,328	28,664	1,720	860	26,084	0	0	0	0	26,084	28,664	0	0	81,669
2012 ¹	14,673	2,337	140	70	2,126	0	0	0	0	2,126	12,337	0	0	94,006
2013 ²	0	0	0	0	0	0	0	0	0	0	0	0	10,000	84,006
2014	0	0	0	0	0	0	0	0	0	0	0	0	10,000	74,006
2015	0	0	0	0	0	0	0	0	0	0	0	0	6,863	67,143
2016	0	0	0	0	0	0	0	0	0	0	0	800	8,703	57,640
2017	10,915	5,458	327	164	4,966	0	0	0	0	4,966	5,458	0	0	63,097
2018	4,084	2,042	123	61	1,858	0	0	0	0	1,858	2,042	5,464	2,148	57,527
2019	33,868	16,934	1,016	508	15,410	0	0	0	0	15,410	16,934	0	0	74,461
2020	0	0	0	0	0	0	0	0	0	0	0	0	10,000	64,461
2021	0	0	0	0	0	0	0	0	0	0	0	0	10,000	54,461
2022	492	246	15	7	224	9	0	0	0	215	246	0	10,000	44,707

Notes: Losses for AEWSD programs are assessed to RRBWSD.

- 1) Deliveries in 2012 include a groundwater transfer of 10,000 AF from DEID account. Losses were already assessed.
- 2) 2013 recovery includes 7087 AF from JURP wells and 2913 from Strand wells.

DEID 2:1 Program (starts in 2010)														
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
Year	Total Delivery Ac-Ft	RRBWSD Share Ac-Ft	Banking Loss (6%) Ac-Ft	RRB Share Loss (3%) Ac-Ft	RRB Share - Losses Ac-Ft	1st Year Reserve Ac-Ft	2nd Year Reserve Ac-Ft	3rd Year Reserve Ac-Ft	Reserve Purchased Ac-Ft	RRB Share - Reserve Ac-Ft	Program Recharge Ac-Ft	Return by Exch. Ac-Ft	JURP Recovery Ac-Ft	Account Balance Ac-Ft
2004	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2008	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2010	39,561	19,781	1,187	593	18,000	0	0	0	0	18,000	19,781	0	0	19,781
2011	15,537	7,769	466	233	7,069	0	0	0	0	7,069	7,769	0	0	27,549
2012	12,000	6,000	360	180	5,460	0	0	0	0	5,460	6,000	10,000	0	23,549
2013 ¹	0	0	0	0	0	0	0	0	0	0	0	8,743	1,257	13,549
2014 ¹	0	0	0	0	0	0	0	0	0	0	0	2,186	5,589	5,774
2015	0	0	0	0	0	0	0	0	0	0	0	5,705	0	69
2016	8,298	4,149	249	124	3,776	0	0	0	0	3,776	4,149	0	0	4,218
2017	27,885	13,943	837	418	12,688	0	0	0	0	12,688	13,943	0	0	18,161
2018 ²	4,040	2,020	121	61	1,838	0	0	0	0	1,838	2,020	738	0	19,443
2019	50,664	25,332	1,520	760	23,052	0	0	0	0	23,052	25,332	0	0	44,775
2020	679	340	20	10	309	0	0	13	0	296	340	10,000	0	35,114
2021	0	0	0	0	0	0	0	0	0	0	0	10,000	0	25,114
2022	492	246	15	7	224	9	0	0	0	215	246	10,000	0	15,360

Notes: Losses for DEID program are assessed to RRBWSD.

- 1) Recovery in 2013 and 2014 was from Strand wells.
- 2) Recovery in 2018 was from non-JURP wells.

Table 3 (Continued)

BVWSD Banking Program													
No net water to RRBWSD													
(1) Year	(2) Direct Recharge			(5) 1st Year Reserve Ac-Ft	(6) 2nd Year Reserve Ac-Ft	(7) 3rd Year Reserve Ac-Ft	(8) Reserve Purchased Ac-Ft	(9) Net Rech. - Reser Ac-Ft	(10) 5% Out of County Ac-Ft	(11) To BV Account Ac-Ft	(12) Return by Exch. Ac-Ft	(13) Groundwtr Recovery Ac-Ft	(14) Account Balance Ac-Ft
	Gross Ac-Ft	6% Loss Ac-Ft	Net Ac-Ft										
2004	313	19	294	0	0	0	0	294	15	280	0	0	280
2005	59,284	3,557	55,727	0	0	0	0	55,727	2,786	52,941	0	0	53,220
2006	40,833	2,450	38,383	0	0	0	1,535	36,848	1,842	35,006	0	0	88,226
2007 ¹	0	0	0	0	0	0	0	0	0	0	24,750	0	63,476
2008	0	0	0	0	0	0	0	0	0	0	8,250	0	55,226
2009	0	0	0	0	0	0	0	0	0	0	8,250	0	46,976
2010 ²	0	0	0	0	0	0	0	0	0	0	8,250	0	38,726
2011 ³	73,767	4,426	69,341	0	0	0	0	69,341	3,467	65,874	11,000	0	93,600
2012 ⁴	0	0	0	0	0	0	0	0	0	0	18,250	0	75,350
2013	0	0	0	0	0	0	0	0	0	0	8,250	0	67,100
2014	0	0	0	0	0	0	0	0	0	0	5,403	2,847	58,580
2015	0	0	0	0	0	0	0	0	0	0	201	8,049	50,600
2016 ⁵	0	0	0	0	0	0	0	0	0	0	8,250	0	42,350
2017	80,000	4,800	75,200	0	0	0	0	75,200	3,760	71,440	8,250	0	105,540
2018	0	0	0	0	0	0	0	0	0	0	8,250	0	97,290
2019	43,409	2,605	40,804	0	0	0	0	40,804	2,040	38,764	8,250	0	127,804
2020	0	0	0	0	0	0	0	0	0	0	8,250	0	119,554
2021	0	0	0	0	0	0	0	0	0	0	0	8,250	111,304
2022	0	0	0	0	0	0	0	0	0	0	0	8,250	103,054
264,304													

- Notes:
- 1) Return in 2007 includes a groundwater transfer of 16,500 AF to SCVWA's bank account and a delivery of 8,250 AF to CLWA by exchange.
 - 2) Return in 2010 includes a groundwater transfer of 8,250 AF to SCVWA's bank account.
 - 3) Return in 2011 includes a groundwater transfer of 11,000 AF to SCVWA's 2:1 bank account.
 - 4) Return in 2012 includes a groundwater transfer of 10,000 AF to RRBWSD per Water Exchange Agreement with BVWSD.
 - 5) Return in 2016 includes a groundwater transfer of 5,060 AF to SCVWA's bank account.

SCVWA Banking Program													
No net water to RRBWSD													
(1) Year	(2) Direct Recharge			(5) 1st Year Reserve Ac-Ft	(6) 2nd Year Reserve Ac-Ft	(7) 3rd Year Reserve Ac-Ft	(8) Reserve Purchased Ac-Ft	(9) Net Rech. - Reser Ac-Ft	(10) 5% Out of County Ac-Ft	(11) To Bank Account Ac-Ft	(12) Return by Exch. Ac-Ft	(13) Groundwtr Recovery Ac-Ft	(14) Account Balance Ac-Ft
	Gross Ac-Ft	6% Loss Ac-Ft	Net Ac-Ft										
2004	0	0	0	0	0	0	0	0	0	0	0	0	0
2005	20,000	1,200	18,800	0	0	0	752	18,048	902	17,146	0	0	17,146
2006	20,000	1,200	18,800	0	0	0	752	18,048	902	17,146	0	0	34,291
2007 ¹	8,200	492	7,708	0	0	0	0	7,708	385	29,323	0	0	63,614
2008	0	0	0	0	0	0	0	0	0	0	0	0	63,614
2009	0	0	0	0	0	0	0	0	0	0	0	0	63,614
2010 ²	25,418	1,525	23,893	0	0	0	0	23,893	1,195	30,948	0	0	94,562
2011	986	59	927	0	0	0	0	927	46	880	0	0	95,443
2012 ³	0	0	0	0	0	0	0	6,031	302	5,729	0	0	101,172
2013	0	0	0	0	0	0	0	0	0	0	0	0	101,172
2014	0	0	0	0	0	0	0	0	0	0	2,824	0	98,348
2015	0	0	0	0	0	0	0	0	0	0	0	2,998	95,350
2016 ⁴	0	0	0	0	0	0	0	0	0	5,060	0	0	100,410
2017	0	0	0	0	0	0	0	0	0	0	0	0	100,410
2018	0	0	0	0	0	0	0	0	0	0	0	0	100,410
2019	0	0	0	0	0	0	0	0	0	0	0	0	100,410
2020	0	0	0	0	0	0	0	0	0	0	0	1,481	98,929
2021	0	0	0	0	0	0	0	0	0	0	0	20,000	78,929
2022 ⁵	0	0	0	0	0	0	0	0	0	207	0	20,000	59,136

- Notes:
- 1) To Bank Account in 2007 includes groundwater transfer of 22,000 AF from BV/RRB banking program (16,500 AF from RRB portion, 5,500 AF from BV portion).
 - 2) To Bank Account in 2010 includes groundwater transfer of 8,250 AF from BV/RRB banking program
 - 3) To Bank Account in 2012 includes groundwater transfer of 6,031 AF from BV/RRB banking program per Water Exchange Agreement with BVWSD where 10,000 AF of SCVWA SWP was delivered to BV.
 - 4) To CL Account in 2016 includes groundwater transfer of 5,060 AF from BV/RRB banking program. Remaining 3,190 AF delivered to SCVWA to complete 8,250 AF.
 - 5) Includes transfer of 207 af of 4% water from SCV 2:1 account.

IRWD Banking Program													
No net water to RRBWSD													
(1) Year	(2) Direct Recharge			(5) 1st Year Reserve Ac-Ft	(6) 2nd Year Reserve Ac-Ft	(7) 3rd Year Reserve Ac-Ft	(8) Reserve Purchased Ac-Ft	(9) Net Rech. - Reser Ac-Ft	(10) 5% Out of County ³ Ac-Ft	(11) To IR Account Ac-Ft	(12) Return by Exch. Ac-Ft	(13) Groundwtr Recovery Ac-Ft	(14) Account Balance Ac-Ft
	Gross Ac-Ft	6% Loss Ac-Ft	Net Ac-Ft										
2004	0	0	0	0	0	0	0	0	0	0	0	0	0
2005	0	0	0	0	0	0	0	0	0	0	0	0	0
2006 ¹	2,983	0	0	0	0	0	0	2,983	0	5,825	2,983	0	2,842
2007	0	0	0	0	0	0	0	0	0	0	0	0	2,842
2008	0	0	0	0	0	0	0	0	0	0	0	0	2,842
2009	0	0	0	0	0	0	0	0	0	0	0	0	2,842
2010	9,330	560	8,770	0	0	0	0	8,770	233	8,537	0	0	11,379
2011	20,000	1,200	18,800	0	0	0	0	18,800	470	18,330	0	0	29,709
2012 ²	3,885	233	3,652	0	0	0	0	3,652	308	5,844	2,500	0	33,053
2013	0	0	0	0	0	0	0	0	0	0	0	6,947	26,106
2014	0	0	0	0	0	0	0	0	0	0	0	11,291	14,815
2015	0	0	0	0	0	0	0	0	0	0	0	4,754	10,061
2016	0	0	0	0	0	0	0	0	0	0	0	0	10,061
2017	19,369	1,162	18,207	0	0	0	0	18,207	588	17,619	0	0	27,680
2018	619	37	582	0	0	0	0	582	29	553	0	1,667	26,566
2019	13,954	837	13,117	0	0	0	0	13,117	361	12,756	0	0	39,321
2020	350	21	329	0	0	13	0	316	16	300	0	7,500	32,122
2021	0	0	0	0	0	0	0	0	0	0	0	16,909	15,213
2022	0	0	0	0	0	0	0	0	0	0	0	8,927	6,286

- Notes:
- 1) Recharge in 2006 to offset consumptive use for the years 2004-2006. To IR Account in 2006 includes a groundwater transfer of 2,842 AF from the Semitropic water bank.
 - 2) To IR Account in 2012 includes 2500 AF banked in BVWSD.
 - 3) The IRWD banking program consists of a number of individual banking agreements. Not all recharge as a part of the IRWD banking program is subject to the 5% Out of County loss factor.

Table 3 (Continued)

KT&RG 2:1 Program (from 2004 on)														
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)-(12)			(13)	(14)	(15)
Year	Total Delivery Ac-Ft	RRBWS 1/2 Share Ac-Ft	RRB Share Loss (3%) Ac-Ft	1st Year Reserve Ac-Ft	2nd Year Reserve Ac-Ft	3rd Year Reserve Ac-Ft	Reserve Purchased Ac-Ft	RRB Share - Reser Ac-Ft	Direct Program Recharge			Return by Exch. Ac-Ft	JURP Recovery Ac-Ft	Account Balance Ac-Ft
									Gross Ac-Ft	6% Loss Ac-Ft	Net Ac-Ft			
2004	0	0	0	0	0	0	0	0	0	0	0	0	0	1,304
2005	49,747	24,874	746	0	0	0	935	23,193	24,873	1,492	23,381	0	0	24,685
2006	10,000	5,000	150	0	0	0	188	4,662	5,000	300	4,700	0	0	29,385
2007 ¹	0	0	0	0	0	0	0	0	0	0	0	10,000	2,302	17,083
2008	0	0	0	0	0	0	0	0	0	0	0	0	0	17,083
2009	4,633	0	0	0	0	0	0	0	4,633	463	4,170	0	4,582	16,670
2010	42,616	18,069	542	0	0	0	0	17,527	24,547	1,732	22,815	0	0	39,485
2011	15,039	7,520	226	0	0	0	0	7,294	7,520	451	7,068	0	0	46,554
2012	7,417	3,709	111	0	0	0	0	3,597	3,709	223	3,486	2,749	0	47,291
2013	0	0	0	0	0	0	0	0	0	0	0	0	9,000	38,291
2014 ²	0	0	0	0	0	0	0	0	0	0	0	0	10,000	28,291
2015 ³	0	0	0	0	0	0	0	0	0	0	0	4,756	5,614	17,921
2016	0	0	0	0	0	0	0	0	0	0	0	3,777	5,223	8,921
2017	35,665	17,833	535	0	0	0	0	17,298	17,833	1,070	16,763	0	0	25,683
2018	12,660	6,330	190	0	0	0	0	6,140	6,330	380	5,950	0	0	31,633
2019	9,684	4,842	145	0	0	0	0	4,697	4,842	291	4,551	0	0	36,185
2020	646	323	10	0	0	12	0	301	323	19	304	0	7,214	29,275
2021	0	0	0	0	0	0	0	0	0	0	0	0	8,390	20,885
2022	492	246	7	9	0	0	0	229	246	15	231	0	9,000	12,116

Notes:

- 1) Return in 2007 includes a groundwater transfer of 10,000 AF to RRBWS. Next 11,111 acre-feet is banked at 10% loss to replace 2007 transfer. 4,633 AF was delivered in 2009 and 6,478 AF delivered in 2010 to complete transfer.
- 2) In 2014, RRB and KTWD agreed to pump 11,000 AF from JURP wells. 1,000 AF each to KT and RRB.
- 3) 2015 recovery of 5,614 AF from JURP wells, 3,386 AF by exch. w/ID4, and 1,370 AF in-ground transfer to WKWD (2/10/2015 agmt.).

SCVWA 2:1 Program (starts in 2011)														
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
Year	Total Delivery Ac-Ft	RRBWS Share Ac-Ft	Banking Loss (6%) Ac-Ft	RRB Share Loss (6%) Ac-Ft	RRB Share - Losses Ac-Ft	1st Year Reserve Ac-Ft	2nd Year Reserve Ac-Ft	3rd Year Reserve Ac-Ft	Reserve Purchased Ac-Ft	5% Out of County Ac-Ft	Remain RRB Share Ac-Ft	Program Recharge Ac-Ft	Return by Exch. Ac-Ft	Account Balance Ac-Ft
2005	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2006	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2007	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2008	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2009	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2010	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2011 ¹	4,602	7,801	138	138	7,663	0	0	0	0	0	7,663	7,663	0	7,663
2012 ²	0	1,984	0	0	1,984	0	0	0	0	0	1,984	1,985	0	9,648
2013	0	0	0	0	0	0	0	0	0	0	0	0	0	9,648
2014	0	0	0	0	0	0	0	0	0	0	0	0	0	9,648
2015	0	0	0	0	0	0	0	0	0	0	0	0	0	9,648
2016	0	0	0	0	0	0	0	0	0	0	0	0	0	9,648
2017	0	0	0	0	0	0	0	0	0	0	0	0	0	9,648
2018	0	0	0	0	0	0	0	0	0	0	0	0	0	9,648
2019	11,000	5,500	330	330	5,830	0	0	0	0	248	5,830	4,922	0	14,570
2020	0	0	0	0	0	0	0	0	0	0	0	0	14,570	0
2021	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2022	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes: Losses for CLWD 2:1 program are shared.

- 1) In 2011 a groundwater transfer of 11,000 AF was made from BV/RRB banking program. Losses were previously assessed. 5,500 AF has been added to both Columns (3) and (13).
- 2) In 2012 a groundwater transfer of 3,969 AF was made from BV/RRB banking program (remainder of 10,000 AF BV/RRB Exchange, 6,031 AF transferred to SCVWA Banking Program). Losses were previously assessed. 1,984 AF has been added to column (3) and 1,985 AF added to column (13).
- 3) 207 af of 4% reserve water from 2019 transferred to SCV 1:1 account.

CVWD Program No net water to RRBWS					
(1)	(2)	(3)	(4)	(5)	(6)
Year	Return Water Ac-Ft	6% Evap Loss Ac-Ft	5% Out of County Ac-Ft	Total Losses Ac-Ft	Cumulative Return Ac-Ft
2004	0	0	0	0	0
2005	0	0	0	0	0
2006	0	0	0	0	0
2007	0	0	0	0	0
2008	3,000	180	150	330	3,000
2009	3,000	180	150	330	6,000
2010	0	0	0	0	6,000
2011	0	0	0	0	6,000
2012	4,000	240	200	440	10,000
2013	16,500	990	825	1,815	26,500
2014	5,000	300	250	550	31,500
2015	9,500	570	475	1,045	41,000
2016	16,500	990	825	1,815	57,500
2017	5,397	324	270	594	62,897
2018	20,603	1,236	1,030	2,266	83,500
2019	0	0	0	0	83,500
2020	19,000	1,140	950	2,090	102,500
2021	9,500	570	475	1,045	112,000
2022	0	0	0	0	112,000

KDWD 1:1 Program (Wet Year Program) No net water to RRBWS				
(1)	(2)	(3)	(4)	(5)
Year	Total Delivered	Total to Account	Total Returned	Account Balance
2004	0	0	0	0
2005	0	0	0	0
2006	0	0	0	0
2007	0	0	0	0
2008	0	0	0	0
2009	0	0	0	0
2010	15,000	15,000	0	15,000
2011	25,401	25,401	20,000	20,401
2012	0	0	0	20,401
2013	0	0	0	20,401
2014	0	0	0	20,401
2015	0	0	0	20,401
2016	0	0	1,596	18,805
2017	0	0	0	18,805
2018	0	0	0	18,805
2019	0	0	0	18,805
2020	0	0	0	18,805
2021	0	0	0	18,805
2022	0	0	0	18,805

Losses not assessed since this is an operational exchange.

Table 3 (Continued)

Westside Banking Program (1:1 WRMWSD, BWD, BMWSD)													
No net water to RRBWSD													
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
Year	Direct Recharge			1st Year Reserve Ac-Ft	2nd Year Reserve Ac-Ft	3rd Year Reserve Ac-Ft	Reserve Purchased Ac-Ft	Net Rech. - Reser Ac-Ft	5% Out of County Ac-Ft	To WS Account Ac-Ft	Return by Exch. Ac-Ft	Groundwtr Recovery Ac-Ft	Account Balance Ac-Ft
	Gross Ac-Ft	6% Loss Ac-Ft	Net Ac-Ft										
2017	3,150	189	2,961	0	0	0	0	2,961	0	2,961	2,843	0	118
2018	0	0	0	0	0	0	0	0	0	0	0	0	118
2019	0	0	0	0	0	0	0	0	0	0	0	0	118
2020	0	0	0	0	0	0	0	0	0	0	0	0	118
2021	0	0	0	0	0	0	0	0	0	0	0	0	118
2022	0	0	0	0	0	0	0	0	0	0	0	0	118

BVWSD 2012 Exchange Status			
(1)	(2)	(3)	(4)
Year	To BVWSD	Return from BVWSD	Amount Owed to RRBWSD
2012	10,000	0	5,000
2013	0	0	5,000
2014	0	0	5,000
2015	0	0	5,000
2016	0	5,000	0

V Lions Operations, LP Account Status			
(1)	(2)	(3)	(4)
Year	To Account	from Account	Account Balance ¹
2019	8,000	0	7,760
2020	0	0	7,760
2021	0	0	7,760
2022	0	0	7,760
2023	0	0	7,760
2024	0	0	7,760
2025	0	0	7,760

Note: Exchange agreement requires future return of 1/2 of 10,000 AF delivered to BV in 2012. Exchange was completed in 2016.

1. A 3% loss has been assessed to recharged supplies

JURP (RRBWSD Program Returns)				
DEID+KTRG+AEWSD				
(1)	(2)	(3)	(4)	(5)
Year	Return by Exch. Ac-Ft	JURP Recovery Ac-Ft	Other Recovery Ac-Ft	Total Return Ac-Ft
2004	17,938	0	0	17,938
2005	3,943	0	0	3,943
2006	417	0	0	417
2007	17,051	2,302	0	19,353
2008	0	9,171	0	9,171
2009	0	6,568	0	6,568
2010	0	0	0	0
2011	0	0	0	0
2012	12,749	0	0	12,749
2013	8,743	16,087	4,170	29,000
2014	2,186	21,000	4,589	27,775
2015	10,461	12,477	0	22,938
2016	4,577	13,926	0	18,503
2017	0	0	0	0
2018	6,202	2,148	0	8,350
2019	0	0	0	0
2020	10,000	17,214	0	27,214
2021	10,000	18,390	0	28,390
2022	10,000	19,000	0	29,000
	84,267	83,679	8,759	232,309

West-Kern			
Return Obligation - 33,000 AF			
(1)	(2)	(3)	(4)
Year	Return Water Ac-Ft	Cumulative Return Ac-Ft	Account Balance
2004	0	0	33,333
2005	0	0	33,333
2006	0	0	33,333
2007	0	0	33,333
2008	0	0	33,333
2009	842	842	32,491
2010	10,151	10,993	22,340
2011	0	10,993	22,340
2012	1,000	11,993	21,340
2013	0	11,993	21,340
2014	0	11,993	21,340
2015	0	11,993	21,340
2016	5,608	17,601	15,732
2017	11,349	28,950	4,383
2018	3,521	32,471	862
2019	862	33,333	0
2020	0	0	0

Table 3 (Continued)

Westside Program (5:2 WRMWS, BWD, BMWS)														
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
Year	Total Delivery Ac-Ft	RRBWS Share Ac-Ft	Banking Loss (6%) Ac-Ft	RRB Share Loss (3%) Ac-Ft	RRB Share - Losses Ac-Ft	1st Year Reserve Ac-Ft	2nd Year Reserve Ac-Ft	3rd Year Reserve Ac-Ft	Reserve Purchased Ac-Ft	RRB Share Ac-Ft	Program Recharge Ac-Ft	Return by Exch. Ac-Ft	Recovery Ac-Ft	Account Balance Ac-Ft
2017	1,813	1,088	44	33	1,055	0	0	0	0	1,055	681	654	0	0
2018	0	0	0	0	0	0	0	0	0	0	0	0	0	27
2019	0	0	0	0	0	0	0	0	0	0	0	0	0	27
2020	0	0	0	0	0	0	0	0	0	0	0	0	0	27
2021	0	0	0	0	0	0	0	0	0	0	0	0	0	27
2022	0	0	0	0	0	0	0	0	0	0	0	0	0	27

Notes: Losses for program are shared respectively

Homer Program (2:1)														
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
Year	Total Delivery Ac-Ft	RRBWS Share Ac-Ft	Banking Loss (6%) Ac-Ft	RRB Share Loss (3%) Ac-Ft	RRB Share - Losses Ac-Ft	1st Year Reserve Ac-Ft	2nd Year Reserve Ac-Ft	3rd Year Reserve Ac-Ft	Reserve Purchased Ac-Ft	RRB Share Ac-Ft	Program Recharge Ac-Ft	Return by Exch. Ac-Ft	Recovery Ac-Ft	Account Balance Ac-Ft
2017	25,083	12,542	752	376	12,165	0	0	0	0	12,165	11,789	9,832	0	1,957
2018	20,049	10,025	601	301	9,724	0	0	0	0	9,724	9,424	7,347	0	4,034
2019	0	0	0	0	0	0	0	0	0	0	0	0	0	4,034
2020	0	0	0	0	0	0	0	0	0	0	0	0	0	4,034
2021	0	0	0	0	0	0	0	0	0	0	0	0	0	4,034
2022	0	0	0	0	0	0	0	0	0	0	0	0	0	4,034

Notes: Losses for program are shared respectively
Of 3185 AF account balance, Homer owes Pacific AG 1700 and Cascade 1161.

21,889

SJR Exchange Contractor Program (2:1)														
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
Year	Total Delivery Ac-Ft	RRBWS Share Ac-Ft	Banking Loss (6%) Ac-Ft	RRB Share Loss (3%) Ac-Ft	RRB Share - Losses Ac-Ft	1st Year Reserve Ac-Ft	2nd Year Reserve Ac-Ft	3rd Year Reserve Ac-Ft	Reserve Purchased Ac-Ft	RRB Share Ac-Ft	Program Recharge Ac-Ft	Return by Exch. Ac-Ft	5% Out of County Ac-Ft	Account Balance Ac-Ft
2017	10,000	5,750	255	173	5,578	0	0	0	0	5,578	4,250	0	0	4,250
2018	0	0	0	0	0	0	0	0	0	0	0	0	0	4,250
2019	5,000	2,875	128	86	2,789	0	0	0	0	2,739	2,125	1,000	50	5,375
2020	5,000	2,875	128	86	2,789	0	0	80	0	2,709	2,125	0	0	7,500
2021	0	0	0	0	0	0	0	0	0	0	0	4,015	201	3,485
2022	0	0	0	0	0	0	0	0	0	0	0	0	0	3,485

Notes: if RRB sells its share in county than 3% of loss should be increased to 6% for that amount of sale water

11,025

Total Program Account Balance - All Programs														
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(13)	(14)
Year	AEWSD 2:1 Ac-Ft	DEID 2:1 Ac-Ft	KT&RG 2:1 Ac-Ft	SCVWA 2:1 Ac-Ft	KDWD Ac-Ft	WKWD Ac-Ft	Westside 5:2 Ac-Ft	Homer 2:1 Ac-Ft	ExchCont 2:1 Ac-Ft	Westside Ac-Ft	IRWD Ac-Ft	BVWSD Ac-Ft	SCVWA Ac-Ft	Sum Accounts Ac-Ft
2004	32,550	0	1,304	0	0	33,333	0	0	0	0	0	280	0	67,467
2005	71,630	0	24,685	0	0	33,333	0	0	0	0	0	53,220	17,146	200,013
2006	71,213	0	29,385	0	0	33,333	0	0	0	0	2,842	88,226	34,291	259,290
2007	64,162	0	17,083	0	0	33,333	0	0	0	0	2,842	63,476	63,614	244,509
2008	54,991	0	17,083	0	0	33,333	0	0	0	0	2,842	55,226	63,614	227,088
2009	53,005	0	16,670	0	0	32,491	0	0	0	0	2,842	46,976	63,614	215,598
2010	53,005	19,781	39,485	0	15,000	22,340	0	0	0	0	11,379	38,726	94,562	294,278
2011	81,669	27,549	46,554	7,663	20,401	22,340	0	0	0	0	29,709	93,600	95,443	424,927
2012	94,006	23,549	47,291	9,648	20,401	21,340	0	0	0	0	33,053	75,350	101,172	425,809
2013	84,006	13,549	38,291	9,648	20,401	21,340	0	0	0	0	26,106	67,100	101,172	381,612
2014	74,006	5,774	28,291	9,648	20,401	21,340	0	0	0	0	14,815	58,850	98,348	331,472
2015	67,143	69	17,921	9,648	20,401	21,340	0	0	0	0	10,061	50,600	95,350	292,532
2016	57,640	4,218	8,921	9,648	18,805	15,732	0	0	0	0	10,061	42,350	100,410	267,784
2017	63,097	18,161	25,683	9,648	18,805	4,383	27	1,957	4,250	118	27,680	105,540	100,410	379,759
2018	57,527	19,443	31,633	9,648	18,805	862	27	4,034	4,250	118	26,566	97,290	100,410	370,612
2019	74,461	44,775	36,185	14,570	18,805	0	27	4,034	5,375	118	39,321	127,804	100,410	465,884
2020	64,461	35,114	29,275	0	18,805	0	27	4,034	7,500	118	32,122	119,554	98,929	409,938
2021	54,461	25,114	20,885	0	18,805	0	27	4,034	3,485	118	15,213	111,304	78,929	332,374
2022	44,707	15,360	12,116	0	18,805	0	27	4,034	3,485	118	6,286	103,054	59,136	267,127

Table 4 - RRBWSD Kern Fan Accounts

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)	Friant-Kern 215	Kern River	SWP	SWP Article 21									
1995	6355	0	0	0	0	0	6355	381	5974	239	0	5575	160	0	381
1996	13598	0	0	599	145	0	14342	861	13481	539	0	6690	6412	0	861
1997	24	0	0	2264	0	0	2288	137	2151	86	0	0	8477	0	137
1998	0	0	0	0	0	0	0	0	0	0	0	0	8477	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	8477	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	8477	0	0
2001	1262	0	0	794	0	0	2056	123	1933	77	0	0	10333	0	123
2002	0	0	0	1946	0	0	1946	117	1829	73	0	0	12088	0	117
2003	9106	0	0	169	0	0	9275	556	8719	349	0	0	20459	0	556
2004	0	0	0	0	0	0	0	0	0	0	0	0	20459	0	0
2005	25551	20	0	192	0	0	25763	1545	24218	969	7292	3500	47500	1534	11
2006	0	0	570	0	0	417	987	59	928	37	0	0	48391	0	59
2007	0	0	0	0	0	0	0	0	0	0	0	0	48391	0	0
2008	0	0	0	0	0	0	0	0	0	0	0	0	48391	0	0
2009	0	0	0	0	0	0	0	0	0	0	0	0	48391	0	0
2010	0	0	0	0	0	0	0	0	0	0	0	0	48391	0	0
2011	0	0	1944	0	4284	3630	9858	591	9267	371	0	5728	51559	0	591
2012	0	1991	0	0	121	0	2113	127	1986	79	0	0	53465	119	7
2013	0	0	0	0	0	0	0	0	0	0	0	0	53465	0	0
2014	0	0	0	0	0	0	0	0	0	0	0	0	53465	0	0
2015	0	0	0	0	0	0	0	0	0	0	0	0	53465	0	0
2016	0	0	0	0	0	0	0	0	0	0	0	0	53465	0	0
2017	0	0	3155	647	1788	0	5590	335	5255	210	0	0	58510	0	335
2018	0	0	0	0	0	0	0	0	0	0	2682	840	60352	0	0
2019	0	6626	0	4186	7373	0	18185	1091	17094	684	0	38721	38041	251	840
2020	0	0	0	0	0	0	0	0	0	0	3189	0	41230	0	0
2021	0	0	0	0	0	0	0	0	0	0	659	4500	37389	0	0
2022	0	0	0	0	0	0	0	0	0	0	0	15000	22389	0	0

Kern River Channel Bank Accounts															
Year	Water Source						Gross Recharge	6% Losses	Net Recharge	4% Loss (to ODC)	Transfer In	Transfer Out	Account Balance	Program Losses (Table 3)	Additional Losses to Table 2
	AE/RRB (Friant-Kern)	KT/RRB (Friant-Kern)	Friant-Kern 215	Kern River	SWP	SWP Article 21									
1995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	3431	0	0	0	0	0	3431	206	3225	129	0	0	3096	0	206
1997	0	0	0	0	0	0	0	0	0	0	0	0	3096	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0	3096	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	3096	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	3096	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0	3096	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0	3096	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0	3096	0	0
2004	0	0	0	0	0	0	0	0	0	0	0	0	3096	0	0
2005	4075	0	0	0	0	0	4075	244	3831	153	0	0	6774	244	0
2006	0	0	0	0	0	0	0	0	0	0	0	0	6774	0	0
2007	0	0	0	0	0	0	0	0	0	0	0	0	6774	0	0
2008	0	0	0	0	0	0	0	0	0	0	0	0	6774	0	0
2009	0	0	0	0	0	0	0	0	0	0	0	0	6774	0	0
2010	0	0	0	0	0	0	0	0	0	0	0	0	6774	0	0
2011	0	0	0	0	0	0	0	0	0	0	0	0	6774	0	0
2012	0	0	0	0	0	0	0	0	0	0	0	0	6774	0	0
2013	0	0	0	0	0	0	0	0	0	0	0	0	6774	0	0
2014	0	0	0	0	0	0	0	0	0	0	0	0	6774	0	0
2015	0	0	0	0	0	0	0	0	0	0	0	0	6774	0	0
2016	0	0	0	0	0	0	0	0	0	0	0	0	6774	0	0
2017	0	0	337	0	0	0	337	20	317	13	0	0	7078	0	20
2018	0	0	0	0	0	0	0	0	0	0	0	840	6238	0	0
2019	0	2444	0	0	767	0	3211	193	3018	121	0	4351	4784	0	193
2020	0	0	0	0	0	0	0	0	0	0	0	0	4784	0	0
2021	0	0	0	0	0	0	0	0	0	0	0	4500	284	0	0
2022	0	0	0	0	0	0	0	0	0	0	0	0	284	0	0

Pioneer Property Bank Accounts															
Year	Water Source						Gross Recharge	6% Losses	Net Recharge	4% Loss (to ODC)	Transfer In	Transfer Out	Account Balance	Program Losses (Table 3)	Additional Losses to Table 2
	AE/RRB (Friant-Kern)	KT/RRB (Friant-Kern)	Friant-Kern 215	Kern River	SWP	SWP Article 21									
1995	6355	0	0	0	0	0	6355	381	5974	239	0	5575	160	0	381
1996	10167	0	0	599	145	0	10911	655	10256	410	0	6690	3316	0	655
1997	24	0	0	2264	0	0	2288	137	2151	86	0	0	5381	0	137
1998	0	0	0	0	0	0	0	0	0	0	0	0	5381	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	5381	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	5381	0	0
2001	1262	0	0	794	0	0	2056	123	1933	77	0	0	7236	0	123
2002	0	0	0	1946	0	0	1946	117	1829	73	0	0	8992	0	117
2003	9106	0	0	169	0	0	9275	556	8719	349	0	0	17363	0	556
2004	0	0	0	0	0	0	0	0	0	0	0	0	17363	0	0
2005	21476	20	0	192	0	0	21688	1301	20387	815	7292	3500	40726	1290	11
2006	0	0	570	0	0	417	987	59	928	37	0	0	41617	0	59
2007	0	0	0	0	0	0	0	0	0	0	0	0	41617	0	0
2008	0	0	0	0	0	0	0	0	0	0	0	0	41617	0	0
2009	0	0	0	0	0	0	0	0	0	0	0	0	41617	0	0
2010	0	0	0	0	0	0	0	0	0	0	0	0	41617	0	0
2011	0	0	1944	0	4284	3630	9858	591	9267	371	0	5728	44785	0	591
2012	0	1991	0	0	121	0	2113	127	1986	79	0	0	46691	119	7.2765957
2013	0	0	0	0	0	0	0	0	0	0	0	0	46691	0	0
2014	0	0	0	0	0	0	0	0	0	0	0	0	46691	0	0
2015	0	0	0	0	0	0	0	0	0	0	0	0	46691	0	0
2016	0	0	0	0	0	0	0	0	0	0	0	0	46691	0	0
2017	0	0	2818	647	1788	0	5253	315	4938	198	0	0	51432	0	315.19149
2018	0	0	0	0	0	0	0	0	0	0	2682	0	54114	0	0
2019	0	4182	0	4186	6606	0	14974	898	14076	563	0	34370	33257	251	647.55319
2020	0	0	0	0	0	0	0	0	0	0	3189	0	36446	0	0
2021	0	0	0	0	0	0	0	0	0	0	659	0	37105	0	0
2022	0	0	0	0	0	0	0	0	0	0	0	15000	22105	0	0

Table 4 (continued)

Total RRBWSD Kern Fan ODC Accounts																
Year	Water Source				Kern River	SWP		Gross Recharge	6% Losses	Net Recharge	From Bank (4% Loss)	Transfer	Purchased Losses	Account Balance	Program Losses (Table 3)	Additional Losses to Table 2
	Friant-Kern					Entl.	Article 21									
	AE/RRB	KT/RRB	DEID/RRB	215												
1995	0	0	0	0	1545	0	0	1545	93	1452	239	0	0	1691	0	93
1996	1174	0	0	0	0	0	0	1174	70	1104	539	0	0	3334	0	70
1997	0	0	0	2323	2275	0	0	4598	276	4322	86	0	0	7742	0	276
1998	0	0	0	667	11986	278	0	12931	776	12155	0	0	0	19897	0	776
1999	0	0	0	0	0	0	0	0	0	0	0	0	0	19897	0	0
2000	22674	667	0	0	0	0	0	23341	1400	21941	0	0	0	41838	0	1400
2001	0	0	0	0	0	0	0	0	0	0	77	0	9130	51045	0	0
2002	0	0	0	0	0	0	0	0	0	0	73	0	0	51118	0	0
2003	0	0	0	0	0	0	0	0	0	0	349	0	0	51467	0	0
2004	0	0	0	0	0	0	0	0	0	0	0	0	0	51467	0	0
2005	41183	23982	0	0	268	3311	0	68744	4124	64620	969	7000	0	124056	1955	2169
2006	162	0	0	4274	3917	3105	466	11924	715	11209	37	0	0	135302	5	579
2007	0	0	0	0	0	0	0	0	0	0	0	0	0	135302	0	0
2008	0	0	0	0	0	0	0	0	0	0	0	0	0	135302	0	0
2009	0	0	0	0	0	0	0	0	0	0	0	0	0	135302	0	0
2010	0	3803	3889	0	0	0	0	7692	462	7230	0	0	0	142532	231	231
2011	0	0	0	2292	13474	0	0	15766	946	14820	371	0	0	157723	0	946
2012	0	0	1991	0	0	121	0	2112	127	1985	79	0	0	159787	60	67
2013	0	0	0	0	0	0	0	0	0	0	0	0	0	159787	0	0
2014	0	0	0	0	0	0	0	0	0	0	0	0	0	159787	0	0
2015	0	0	0	0	0	0	0	0	0	0	0	0	0	159787	0	0
2016	0	0	0	0	0	0	0	0	0	0	563	0	0	160350	0	0
2017	1150	1695	3727	929	31279	3451	6157	48388	2903	45485	13	0	0	205848	197	2706
2018	0	2682	0	0	0	0	0	2682	161	2521	0	0	0	208369	80	80
2019	2834	267	4621	0	4187	3104	3173	18186	1091	17095	121	0	0	225585	325	766
2020	0	0	0	0	0	0	0	0	0	0	0	0	0	225585	0	0
2021	0	0	0	0	0	0	0	0	0	0	0	0	0	225585	0	0
2022	0	0	0	0	0	0	0	0	0	0	0	0	0	225585	0	0

Kern River Channel ODC Accounts																
Year	Water Source				Kern River	SWP		Gross Recharge	6% Losses	Net Recharge	From Bank (4% Loss)	Transfer	Purchased Losses	Account Balance	Program Losses (Table 3)	Additional Losses to Table 2
	Friant-Kern					Entl.	Article 21									
	AE/RRB	KT/RRB	DEID/RRB	215												
1995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	129	0	0	129	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0	0	129	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0	0	129	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0	129	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0	129	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	0	0	129	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0	0	129	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0	0	129	0	0
2004	0	0	0	0	0	0	0	0	0	0	0	0	0	129	0	0
2005	599	0	0	0	0	0	0	599	36	563	153	0	0	845	18	18
2006	162	0	0	0	0	0	0	162	10	152	0	0	0	998	5	5
2007	0	0	0	0	0	0	0	0	0	0	0	0	0	998	0	0
2008	0	0	0	0	0	0	0	0	0	0	0	0	0	998	0	0
2009	0	0	0	0	0	0	0	0	0	0	0	0	0	998	0	0
2010	0	3803	3889	0	0	0	0	7692	462	7230	0	0	0	8228	231	231
2011	0	0	0	0	0	0	0	0	0	0	0	0	0	8228	0	0
2012	0	0	0	0	0	0	0	0	0	0	0	0	0	8228	0	0
2013	0	0	0	0	0	0	0	0	0	0	0	0	0	8228	0	0
2014	0	0	0	0	0	0	0	0	0	0	0	0	0	8228	0	0
2015	0	0	0	0	0	0	0	0	0	0	0	0	0	8228	0	0
2016	0	0	0	0	0	0	0	0	0	0	0	0	0	8228	0	0
2017	0	0	0	0	0	0	0	0	0	0	13	0	0	8241	0	0
2018	0	0	0	0	0	0	0	0	0	0	0	0	0	8241	0	0
2019	0	0	0	0	0	0	0	0	0	0	121	0	0	8361	0	0
2020	0	0	0	0	0	0	0	0	0	0	0	0	0	8361	0	0
2021	0	0	0	0	0	0	0	0	0	0	0	0	0	8361	0	0
2022	0	0	0	0	0	0	0	0	0	0	0	0	0	8361	0	0

Kern Water Bank ODC Accounts																
Year	Water Source				Kern River	SWP		Gross Recharge	6% Losses	Net Recharge	From Bank (4% Loss)	Transfer	Purchased Losses	Account Balance	Program Losses (Table 3)	Additional Losses to Table 2
	Friant-Kern					Entl.	Article 21									
	AE/RRB	KT/RRB	DEID/RRB	215												
1995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1996	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1997	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1999	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2001	0	0	0	0	0	0	0	0	0	0	0	9130	0	9130	0	0
2002	0	0	0	0	0	0	0	0	0	0	0	0	0	9130	0	0
2003	0	0	0	0	0	0	0	0	0	0	0	0	0	9130	0	0
2004	0	0	0	0	0	0	0	0	0	0	0	0	0	9130	0	0
2005	16006	18501	0	0	0	0	0	34507	2070	32437	0	0	0	41567	1035	1035
2006	0	0	0	0	0	0	0	0	0	0	0	0	0	41567	0	0
2007	0	0	0	0	0	0	0	0	0	0	0	0	0	41567	0	0
2008	0	0	0	0	0	0	0	0	0	0	0	0	0	41567	0	0
2009	0	0	0	0	0	0	0	0	0	0	0	0	0	41567	0	0
2010	0	0	0	0	0	0	0	0	0	0	0	0	0	41567	0	0
2011	0	0	0	0	0	0	0	0	0	0	0	0	0	41567	0	0
2012	0	0	0	0	0	0	0	0	0	0	0	0	0	41567	0	0
2013	0	0	0	0	0	0	0	0	0	0	0	0	0	41567	0	0
2014	0	0	0	0	0	0	0	0	0	0	0	0	0	41567	0	0
2015	0	0	0	0	0	0	0	0	0	0	0	0	0	41567	0	0
2016	0	0	0	0	0	0	0	0	0	0	0	0	0	41567	0	0
2017	0	0	0	0	0	0	0	0	0	0	0	0	0	41567	0	0
2018	0	0	0	0	0	0	0	0	0	0	0	0	0	41567	0	0
2019	0	0	0	0	0	0	0	0	0	0	0	0	0	41567	0	0
2020	0	0	0	0	0	0	0	0	0	0	0	0	0	41567	0	0
2021	0	0	0	0	0	0	0	0	0	0	0	0	0	41567	0	0
2022	0	0	0	0	0	0	0	0	0	0	0	0	0	41567	0	0

Table 4 (continued)

2800 Acres ODC Accounts																	
Year	Water Source								Gross Recharge	6% Losses	Net Recharge	From Bank (4% Loss)	Transfer In	Purchased Losses	Account Balance	Program Losses (Table 3)	Additional Losses to Table 2
	Friant-Kern				Kern River	SWP											
	AE/RRB	KT/RRB	DEID/RRB	215		Entl.	Article 21										
1995	0	0	0	0	1545	0	0	1545	93	1452	0	0	0	1452	0	93	
1996	1174	0	0	0	0	0	0	1174	70	1104	0	0	0	2556	0	70	
1997	0	0	0	0	0	0	0	0	0	0	0	0	0	2556	0	0	
1998	0	0	0	0	0	0	0	0	0	0	0	0	0	2556	0	0	
1999	0	0	0	0	0	0	0	0	0	0	0	0	0	2556	0	0	
2000	0	0	0	0	0	0	0	0	0	0	0	0	0	2556	0	0	
2001	0	0	0	0	0	0	0	0	0	0	0	0	0	2556	0	0	
2002	0	0	0	0	0	0	0	0	0	0	0	0	0	2556	0	0	
2003	0	0	0	0	0	0	0	0	0	0	0	0	0	2556	0	0	
2004	0	0	0	0	0	0	0	0	0	0	0	0	0	2556	0	0	
2005	0	0	0	0	0	0	0	0	0	0	0	0	0	2556	0	0	
2006	0	0	0	0	0	0	0	0	0	0	0	0	0	2556	0	0	
2007	0	0	0	0	0	0	0	0	0	0	0	0	0	2556	0	0	
2008	0	0	0	0	0	0	0	0	0	0	0	0	0	2556	0	0	
2009	0	0	0	0	0	0	0	0	0	0	0	0	0	2556	0	0	
2010	0	0	0	0	0	0	0	0	0	0	0	0	0	2556	0	0	
2011	0	0	0	0	0	0	0	0	0	0	0	0	0	2556	0	0	
2012	0	0	0	0	0	0	0	0	0	0	0	0	0	2556	0	0	
2013	0	0	0	0	0	0	0	0	0	0	0	0	0	2556	0	0	
2014	0	0	0	0	0	0	0	0	0	0	0	0	0	2556	0	0	
2015	0	0	0	0	0	0	0	0	0	0	0	0	0	2556	0	0	
2016	0	0	0	0	0	0	0	0	0	0	0	0	0	2556	0	0	
2017	0	0	0	0	0	0	0	0	0	0	0	0	0	2556	0	0	
2018	0	0	0	0	0	0	0	0	0	0	0	0	0	2556	0	0	
2019	0	0	0	0	0	0	0	0	0	0	0	0	0	2556	0	0	
2020	0	0	0	0	0	0	0	0	0	0	0	0	0	2556	0	0	
2021	0	0	0	0	0	0	0	0	0	0	0	0	0	2556	0	0	
2022	0	0	0	0	0	0	0	0	0	0	0	0	0	2556	0	0	

Pioneer Property ODC Accounts																	
Year	Water Source								Gross Recharge	6% Losses	Net Recharge	From Bank (4% Loss)	Transfer In	Purchased Losses	Account Balance	Program Losses (Table 3)	Additional Losses to Table 2
	Friant-Kern				Kern River	SWP											
	AE/RRB	KT/RRB	DEID/RRB	215		Entl.	Article 21										
1995	0	0	0	0	0	0	0	0	0	0	239	0	0	239	0	0	
1996	0	0	0	0	0	0	0	0	0	0	410	0	0	649	0	0	
1997	0	0	0	2323	2275	0	0	4598	276	4322	86	0	0	5057	0	276	
1998	0	0	0	667	11986	278	0	12931	776	12155	0	0	0	17213	0	776	
1999	0	0	0	0	0	0	0	0	0	0	0	0	0	17213	0	0	
2000	22674	667	0	0	0	0	0	23341	1400	21941	0	0	0	39153	0	1400	
2001	0	0	0	0	0	0	0	0	0	0	77	0	0	39230	0	0	
2002	0	0	0	0	0	0	0	0	0	0	73	0	0	39304	0	0	
2003	0	0	0	0	0	0	0	0	0	0	349	0	0	39652	0	0	
2004	0	0	0	0	0	0	0	0	0	0	0	0	0	39652	0	0	
2005	24578	5481	0	0	268	3311	0	33638	2018	31620	815	7000	0	79088	902	1116	
2006	0	0	0	4274	3917	3105	466	11762	706	11056	37	0	0	90181	0	574	
2007	0	0	0	0	0	0	0	0	0	0	0	0	0	90181	0	0	
2008	0	0	0	0	0	0	0	0	0	0	0	0	0	90181	0	0	
2009	0	0	0	0	0	0	0	0	0	0	0	0	0	90181	0	0	
2010	0	0	0	0	0	0	0	0	0	0	0	0	0	90181	0	0	
2011	0	0	0	2292	13474	0	0	15766	946	14820.04	371	0	0	105372	0	946	
2012	0	0	1991	0	0	121	0	2112	127	1985	79	0	0	107437	60	67	
2013	0	0	0	0	0	0	0	0	0	0	0	0	0	107437	0	0	
2014	0	0	0	0	0	0	0	0	0	0	0	0	0	107437	0	0	
2015	0	0	0	0	0	0	0	0	0	0	0	0	0	107437	0	0	
2016	0	0	0	0	0	0	0	0	0	0	563	0	0	108000	0	0	
2017	1150	1695	3727	929	31279	3451	6157	48388	2903	45485	0	0	0	153484	197	2706	
2018	0	2682	0	0	0	0	0	2682	161	2521	0	0	0	156005	80	80	
2019	2834	267	4621	0	4187	3104	3173	18186	1091	17095	0	0	0	173100	325	766	
2020	0	0	0	0	0	0	0	0	0	0	0	0	0	173100	0	0	
2021	0	0	0	0	0	0	0	0	0	0	0	0	0	173100	0	0	
2022	0	0	0	0	0	0	0	0	0	0	0	0	0	173100	0	0	

Table 5 - BALANCE FOR Rosedale-Rio Bravo Water Storage District

Balance for GLC Program

Year	West Kern Water	Additions to Account ¹	Water Sold	Borrowed From Account	Account Payback	Cumulative Balance for GLC		
						Exportable Balance	ODC Balance	Total
2004	100,000	0	0	0	0	100,000	123,740	223,740
2005		0	0	0	0	100,000	217,258	317,258
2006		21,809	0	0	0	121,809	223,230	345,039
2007		0	0	0	0	121,809	185,749	307,558
2008		0	3,000	0	0	118,809	132,214	251,023
2009		0	3,000	0	0	115,809	83,832	199,641
2010		0	0	0	0	115,809	108,812	224,621
2011		18,353	0	0	0	134,162	162,976	297,138
2012		0	4,000	0	0	130,162	134,550	264,712
2013	(25,000)	0	16,500	0	0	88,662	112,254	200,916
2014		0	5,000	0	0	83,662	55,440	139,102
2015		0	9,500	0	0	74,162	(8,472)	65,690
2016		0	16,500	0	0	57,662	(57,597)	65
2017		5,387	5,397	0	0	57,652	89,798	147,450
2018		0	20,603	0	0	37,049	70,067	107,116
2019		0	0	0	0	37,049	112,486	149,535
2020		0	19,000	0	0	18,049	88,833	106,882
2021		0	9,500	0	0	8,549	146,993	155,542
2022	(25,000)	0	0	0	0	(16,451)	90,680	74,229

112,000

1. Includes floodwater from the Friant-Kern, qualified high flow Kern River water purchases, and KR Mandatory Release.

Appendix 5
SGMA Timeline and RRBMA
Implementation Progress for Water Year 2022

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))

7.5.7 Rosedale-Rio Bravo 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 Management Area (RRBMA, Management Area).

1) COMPLIANCE WITH SUSTAINABLE MANAGEMENT CRITERIA

Progress towards compliance with sustainable management criteria in the RRBMA during water year (WY) 2022 is summarized as follows:

a) GSP MONITORING ACTIVITIES

Chronic Lowering of Water Levels. Groundwater levels were monitored monthly in 19 representative monitoring wells within the Management Area. The wells are a combination of agricultural, domestic, and dedicated monitor wells of known well construction and offer reliable long-term data.

Reduction in Groundwater Storage. A sustainable yield was calculated for the water users in the RRBMA. RRBWSD also prepared an annual operations report including an updated groundwater checkbook balance for 1995-2021.

Groundwater elevations for each Fall measurement cycle were also compared and groundwater storage volume was calculated using RRBWSD's numerical groundwater model.

Water Quality. Groundwater quality was monitored annually in 11 representative monitor wells within the Management Area. The wells are a combination of agricultural, domestic, and dedicated monitor wells of known well construction.

Land Subsidence. Subsidence data was gathered via publicly available InSAR data (provided by DWR for GSP development and implementation) at the five identified monitoring locations. Each monitoring location is near Management Area critical infrastructure throughout the RRBWSD.

Interconnected Surface Water. Not applicable.

b) CHANGES IN GSP MONITORING NETWORK

Chronic Lowering of Water Levels. Groundwater levels were monitored monthly in 19 representative monitoring wells within the management area, no changes were made in the GW levels monitoring network.

Reduction in Groundwater Storage. RRBWSD has no changes in the monitoring network for the Groundwater Storage Calculation.

Water Quality. Groundwater quality was monitored annually in 11 representative monitor wells within the management area. The wells were previously hyper-focused on one area of the District and mainly

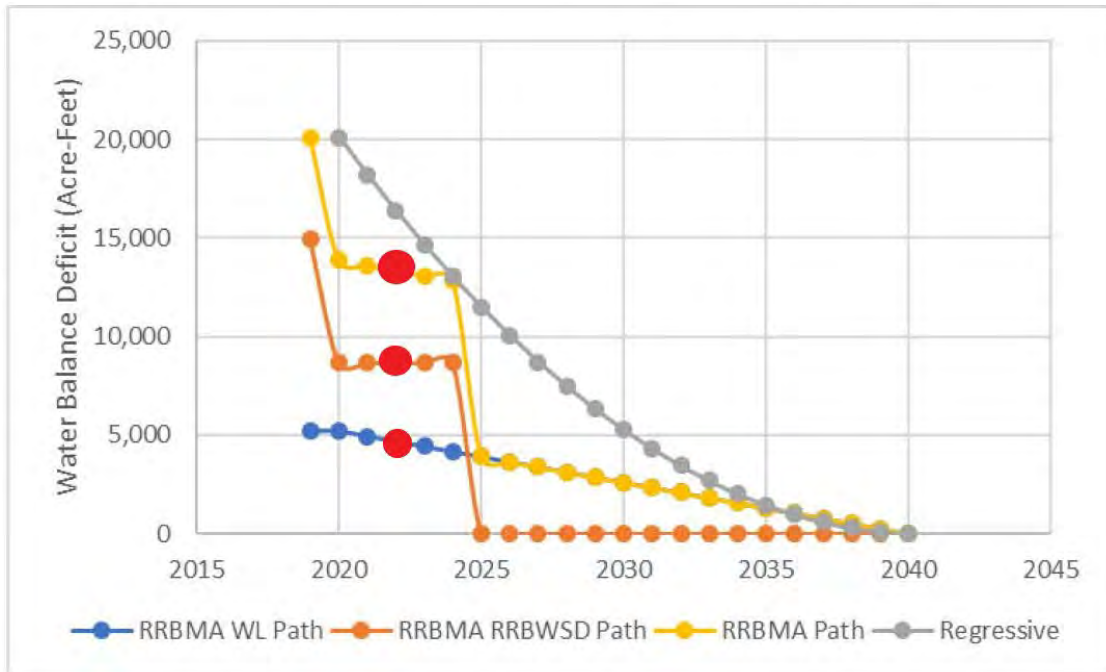
looked at District production wells. To be more representative of all beneficial users in the Management Area, RRBWSD added domestic and municipal wells to the Water Quality monitoring network and spaced the monitoring network uniformly across the RRBMA boundary. The new list of Water Quality wells includes the following: RBG School, Frito-Lay #1, Mayer, Enos, Greeley, Schweikart, Clarisse #2, Brock North, Brock South, Shop, 32N.

Land Subsidence. No change in the Land Subsidence monitoring network. Interconnected Surface Water. Not applicable.

c) PROGRESS IN ACHIEVING INTERIM MILESTONES

There are three identified interim milestone goals that RRBMA has set in their GSP.

Path to Sustainability. The RRBMA is on its regressive path to sustainability as shown by the red dots on the graph below.



Projects and Management Action Implementation. The RRBMA, as of the end of 2022, has successfully exceeded its 2020 Implementation Milestone by 1,500 AF and has implemented 86% of its 2025 16,800 AF Implementation Milestone goal (see table below).

RRBWS - GSP Projected Project and Management Action Milestones									
Year	Projects (AFY)			Management Actions (AFY)			Total (AFY)		
	Actual	Milestone	Status	Actual	Milestone	Status	Actual	Milestone	Status
2020	6,500	5,000	Complete	1,250	1,250	Complete	7,750	6,250	Complete
2022	10,500		Current	1,901		Current	14,401		Current
2025	TBD	11,500	Not Met	TBD	5,300	Not Met	TBD	16,800	Not Met
2030	TBD	10,000	Not Met	TBD	1,300	Not Met	TBD	11,300	Not Met
2035	TBD	1,000	Not Met	TBD	1,300	Not Met	TBD	2,300	Not Met
2040	TBD	0	Not Met	TBD	1,300	Not Met	TBD	1,300	Not Met

White Land Demand Reduction. White Lands Allowable Imbalance Calculation - As part of the White Land Demand reduction action implementation, demand (AF) is tracked monthly using ET data.

White Lands Allowable Imbalance Calculation							
Name	Developed Acres					Interim Milestone	
		2020	2021	2022	Sum 2020-2022	2020-2024 Total (9.11 Ac-Ft/Ac.)	
Landowner A1	118	97	86	154	337	1,074	
Landowner A2	558	(104)	169	830	895	5,079	
Landowner A3	60	82	92	138	312	548	
Landowner A4	44	28	33	70	130	404	
Landowner A5	315	795	996	1,049	2,839	2,867	
Landowner A6	318	75	(14)	20	81	2,895	
Landowner A7	318	244	315	500	1,060	2,899	
Landowner A8	637	306	(76)	1,007	1,237	5,805	
Landowner A9	208	(102)	211	(104)	5	1,899	
Landowner A10	297	874	1,051	1,101	3,026	2,707	
Landowner A11	371	925	1,034	751	2,710	3,381	
Landowner A12	58	(9)	(20)	57	28	525	
Landowner A13	139	110	22	41	174	1,264	
Total Allowable Imbalance Used	3,441	3,321	3,901	5,614	12,835		
Total Allowable Imbalance (GSP)		6985	6606	6262	19,853	31,345	

Lands using more than their allowable water during 2020-2024 are shown in red font in the table above.

Supplies are compared based on developed acres and a straight line reduction as seen on the blue line in the "Path to Sustainability" chart above. The District is actively monitoring water use by white land's but the first interim milestone occurs in 2024, when actions may be taken against White

d) COMPLIANCE WITH ADDITIONAL SUSTAINABLE MANAGEMENT CRITERIA

Chronic Lowering of Water Levels. RRBMA groundwater levels continued to decline as a result of three consecutive dry years. Water levels in the representative monitoring wells (RMWs) declined by 15-20 feet from Fall 2021 to Fall 2022. No exceedances occurred in 2022 within the Management Area. RRBMA will continue to monitor and report the RMWs in accordance with SGMA guidelines.

Reduction in Groundwater Storage. A Sustainable Yield for the Rosedale-Rio Bravo District Lands within the RRBMA 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 2002-2021 period, Project Water supplies were approximately 66,976 AFY. District Assessed Acres total

39,468 acres, resulting in Project Water of 1.70 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 89,473 AFY or 2.27 AF/acre/yr.

RRBWSD prepares an annual operations report including an updated checkbook groundwater balance. For the period of 1995-2021, RRBWSD has a cumulative storage balance of 300,058 AF. In 2021 the overall balance was reduced by about 58,000 AF due to dry hydrology.

Groundwater elevations for each Fall measurement cycle were also compared and groundwater storage volume was calculated using RRBWSD's numerical groundwater model. The model area includes the RRBMA and portions of other neighboring management areas and GSA's. In the model area, based on the Fall 2022 measurement, there was 990,000 AF estimated to be in storage above the RRBMA Minimum Thresholds. The amount of water estimated in storage decreased by 370,000 AF between Fall 2021 and Fall 2022.

Water Quality. The current monitoring wells offer reliable long-term data. Data collection continues but results have not yet been analyzed. Per the GSP, the baseline calculations for the Minimum Thresholds (MT's) and Measurable Objectives (MO's) are complete, with RRBWSD set to collect samples in 2023. To streamline the semiannual data reporting, KGA developed the web-based Data Management System (DMS) for accessing groundwater level and water quality data. Water Quality is a feature that is currently being developed within the DMS.

Land Subsidence. No exceedances occurred in 2022 within the management area. The annual subsidence rate for the five locations (2017-2022) ranged from 0.009 feet to 0.018 feet (or 0.05-0.11 feet in total over six years), which is well below the Minimum Threshold of 0.6 feet over the six-year period.

Interconnected surface water. Not applicable.

2) IMPLEMENTATION OF PROJECTS AND MANAGEMENT ACTIONS

Project Implementation:

The RRBMA made progress towards implementing several of its planned GSP Projects in Water Year 2022 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 and construction of recharge ponds and intake was completed in 2022. The design of two Conjunctive-Use banking wells is scheduled for construction in 2022-2023.

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 completed and circulated, and the FEIR was certified in January 2021. During 2021, RRBWSD coordinated with the Kern River Interests and initiated a Pilot Project in early 2022 where approximately 1100 AF was delivered for groundwater storage in the Kern Subbasin. Severe drought conditions limited supplies from May through December of 2022. RRBWSD anticipates deliveries will recommence during the winter of 2023.

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 a 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 Notice of Preparation of an EIR in June 2020, distribution of the DEIR in 2022, and certification of the FEIR expected in 2023. The design of an intake from the Kern River to the James Project across the Pioneer Project stands at 30% status.

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 an 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. On these properties, recharge improvement plans and specifications stand at 60% with construction expected in 2023-2025. Alternative conveyance routes were also analyzed.

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 RRBMA. A feasibility study of 200+ acre groundwater recharge, storage, and recovery projects is currently underway. No implementation date is known at this time.

The RRBMA made progress toward implementing several of its planned GSP Management Actions in Water Year 2022 as summarized by the following:

Water Charge Demand Reduction: This action is being developed that would be imposed on landowners for the use of water over Native Yield, precipitation, and Project Water. A web-based water budget platform was completed in 2020 and real-time evapotranspiration (ET) data was incorporated in 2021 allowing users the ability to track their water usage for background information. The RRBWSD Board directed staff to change implementation from 2023 to 2024.

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.

RRBWSD 3rd Party Recharge and Storage Program: This action will be developed by RRBWSD for 3rd-party recharge for use in the RRBMA 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.

The RRBMA made progress towards implementing several of its planned GSP **Adaptive Management** in Water Year 2022 as summarized by the following:

- To the extent that projects and management actions are unable to prevent undesirable effects that are caused by RRBMA activities, further actions will be evaluated and considered. For example, if either the projects or management actions are unable to produce the projected supplies, or other more cost-effective options are found, the RRBMA may deviate from the actions as described above.
- Because the White Lands are located outside of the political boundaries of RRBWSD, assessment, and water charges are not likely to be imposed unless voluntarily created by those landowners. Currently, there is a contractual relationship where RRBWSD provides certain landowners with SGMA compliance methodology. Compliance with demand reduction management action(s) will initially be voluntary in nature. However, to the extent that a landowner refuses to comply, RRBWSD may terminate the contractual relationship that provides the landowner with SGMA compliance and remove the landowner from the RRBMA. During 2020 and 2022, RRBWSD offered groundwater for transfer from a potential land fallow program. No Rosedale-Rio Bravo White Land participants opted to participate.

3) COORDINATION WITH STAKEHOLDERS

RRBWSD held monthly Board meetings during all of 2022 which included briefing the Board on SGMA-related activities. Five stakeholder meetings were also held in person at the District's office with a virtual option. RRBWSD provided updates on groundwater monitoring results, plan revisions associated with DWR comments, and implementation of projects and management actions.

4) SUMMARY OF OTHER GSP-RELATED SPECIAL STUDIES OR ACTIVITIES

RRBMA did not engage in any additional GSP-related studies or activities in 2022, beyond the normal operation and management of groundwater and surface water supplies for the benefit of landowners.

TO: Rosedale-Rio Bravo Water Storage District Board of Directors
Agenda Item 7.a.i

FROM: Dan W. Bartel

DATE: December 12, 2023

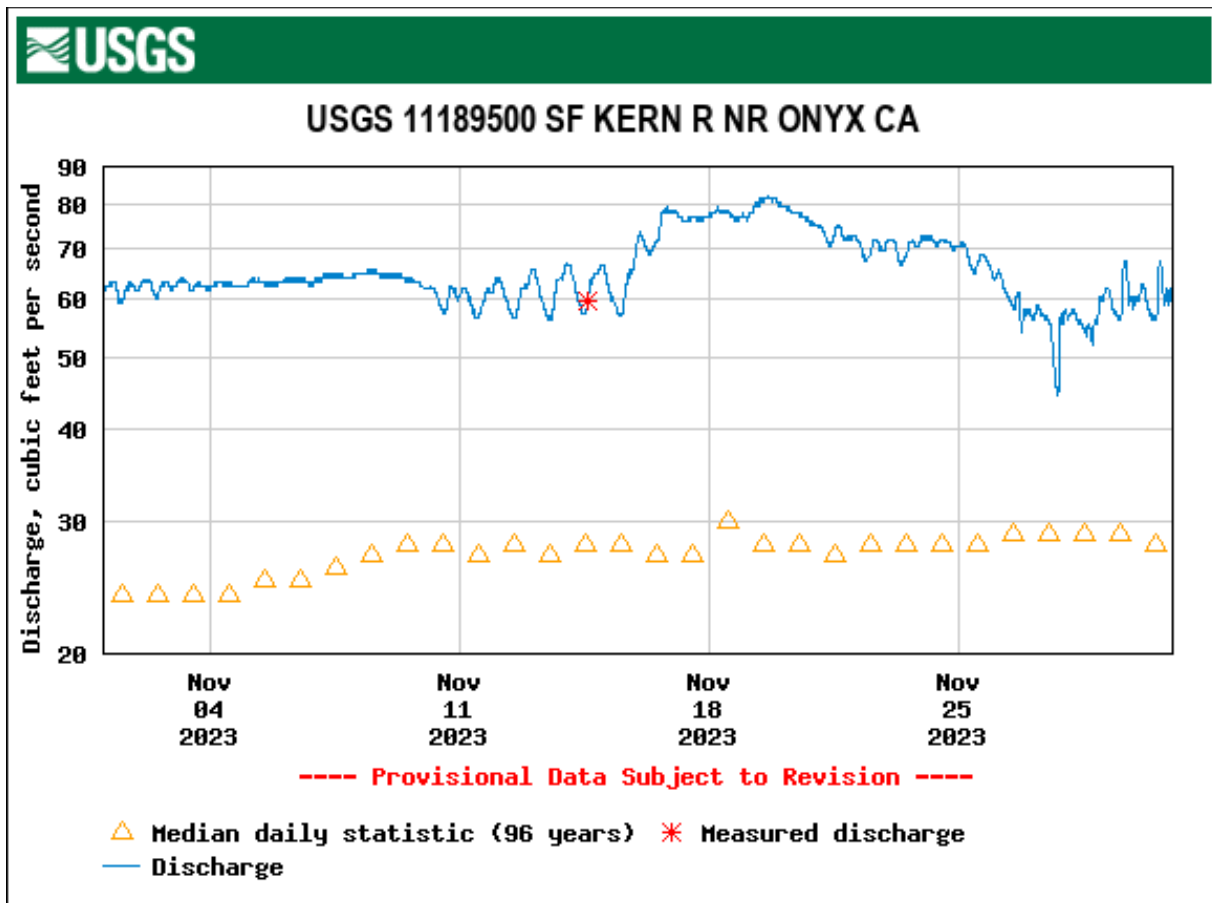
RE: Onyx Ranch Operations Report

Discussion:

Staff has:

- Continued operation of non-project conveyance
- Staff stream gaged and calculated accretions 4 times during the month.
- USGS verified South Fork flow on November 14.
- Smith Ditch cleaning has commenced, and the spill box replacement has been completed.

South Fork flows downstream of Bloomfield averaged 66 cfs plus calculated accretions of 14 cfs, for a total average flow of about 80 cfs.











**ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT - ONYX RANCH
MONTHLY GROUNDWATER MONITORING RUN
NOV**

2023

Well Name	DATE	Depth to Water (ft)	Notes
Onyx Store - Domestic	11/30/2023	39.8	
Ranch HQ - Domestic	11/30/2023	30	On
Landers Sand - Old Ag Well	11/30/2023	18.6	
Onyx Store - Old Ag Well	11/30/2023	19.5	
	11/30/2023	9.9	
Mack Well	11/30/2023	21.8	
Nicoll Field - Old Ag Well	11/30/2023	14.7	
Mack Field West - Domestic	11/30/2023	13.2	
Gibboney-2 Piezo			
Gibboney-3 Piezo	11/30/2023	6.8	
Boone Piezo	11/30/2023	4.8	
Lieb Piezo	11/30/2023	7.8	
Pruitt Piezo	11/30/2023	12.3	
Scodie Well	11/30/2023	22	
Pruitt Well	11/30/2023	15	
Nicoll Well	11/30/2023	15.2	
Mack Piezo	11/30/2023	16.4	
West Onyx Piezo (Top of pipe to the concrete 1.9ft)	11/30/2023	16.9	On
East Onyx Piezo (Top of pipe to the concrete 1.4ft)	11/30/2023	22	
Smith Piezo #1	11/30/2023	14.9	
Smith Piezo #2	11/30/2023	18.8	
Smith Piezo #3	11/30/2023	16.9	



Cal OES ID No: _____

DESIGNATION OF APPLICANT'S AGENT RESOLUTION FOR NON-STATE AGENCIES

BE IT RESOLVED BY THE _____ OF THE _____
 (Governing Body) (Name of Applicant)

THAT _____, OR
 (Title of Authorized Agent)

_____, OR
 (Title of Authorized Agent)

 (Title of Authorized Agent)

is hereby authorized to execute for and on behalf of the _____,
 (Name of Applicant)

a public entity established under the laws of the State of California, this application and to file it with the California Governor's Office of Emergency Services for the purpose of obtaining federal financial assistance for any existing or future grant program, including, but not limited to any of the following:

- **Federally declared Disaster (DR), Fire Mitigation Assistance Grant (FMAG), California State Only Disaster (CDAA), Immediate Services Program (ISP), Hazard Mitigation Grant Program (HMGP), Building Resilient Infrastructure and Communities (BRIC), Legislative Pre-Disaster Mitigation Program (LPDM),** under
- Public Law 93-288 as amended by the Robert T. Stafford Disaster Relief and Emergency Assistance Act of 1988, and/or state financial assistance under the California Disaster Assistance Act.
- **Flood Mitigation Assistance Program (FMA),** under Section 1366 of the National Flood Insurance Act of 1968.
- **National Earthquake Hazards Reduction Program (NEHRP)** 42 U.S. Code 7704 (b) ((2) (A) (ix) and 42 U.S. Code 7704 (b) (2) (B) National Earthquake Hazards Reduction Program, and also The Consolidated Appropriations Act, 2018, Div. F, Department of Homeland Security Appropriations Act, 2018, Pub. L. No. 115-141
- **California Early Earthquake Warning (CEEW)** under CA Gov Code – Gov, Title 2, Div. 1, Chapter 7, Article 5, Sections 8587.8, 8587.11, 8587.12

That the _____, a public entity established under the
 (Name of Applicant)

laws of the State of California, hereby authorizes its agent(s) to provide to the Governor's Office of Emergency Services for all matters pertaining to such state disaster assistance the assurances and agreements required.



Please check the appropriate box below

- This is a universal resolution and is effective for all open and future disasters/grants declared up to three (3) years following the date of approval.
- This is a disaster/grant specific resolution and is effective for only disaster/grant number(s): _____

Passed and approved this ___ day of _____, 20__

 (Name and Title of Governing Body Representative)

 (Name and Title of Governing Body Representative)

 (Name and Title of Governing Body Representative)

CERTIFICATION

I, _____, duly appointed and _____ of
 (Name) (Title)

_____, do hereby certify that the above is a true and
 (Name of Applicant)

correct copy of a resolution passed and approved by the _____
 (Governing Body)

of the _____ on the _____ day of _____, 20__.
 (Name of Applicant)

 (Signature)

 (Title)



Cal OES Form 130 Instructions

A Designation of Applicant's Agent Resolution for Non-State Agencies is required of all Applicants to be eligible to receive funding. A new resolution must be submitted if a previously submitted resolution is older than three (3) years from the last date of approval, is invalid, or has not been submitted.

When completing the Cal OES Form 130, Applicants should fill in the blanks on pages 1 and 2. The blanks are to be filled in as follows:

Resolution Section:

Governing Body: This is the group responsible for appointing and approving the Authorized Agents.

Examples include: Board of Directors, City Council, Board of Supervisors, Board of Education, etc.

Name of Applicant: The public entity established under the laws of the State of California.

Examples include: School District, Office of Education, City, County or Non-profit agency that has applied for the grant, such as: City of San Diego, Sacramento County, Burbank Unified School District, Napa County Office of Education, University Southern California.

Authorized Agent: These are the individuals that are authorized by the Governing Body to engage with the Federal Emergency Management Agency and the California Governor's Office of Emergency Services regarding grants for which they have applied. There are two ways of completing this section:

1. **Titles Only:** The titles of the Authorized Agents should be entered here, not their names. This allows the document to remain valid if an Authorized Agent leaves the position and is replaced by another individual. If "Titles Only" is the chosen method, this document must be accompanied by either a cover letter naming the Authorized Agents by name and title, or the Cal OES AA Names document. The supporting document can be completed by any authorized person within the Agency (e.g., administrative assistant, the Authorized Agent, secretary to the Director). It does not require the Governing Body's signature.
2. **Names and Titles:** If the Governing Body so chooses, the names **and** titles of the Authorized Agents would be listed. A new Cal OES Form 130 will be required if any of the Authorized Agents are replaced, leave the position listed on the document, or their title changes.



Checking Universal or Disaster-Specific Box: A Universal resolution is effective for all past disasters and for those declared up to three (3) years following the date of approval. Upon expiration it is no longer effective for new disasters, but it remains in effect for disasters declared prior to expiration. It remains effective until the disaster goes through closeout unless it is superseded by a newer resolution.

Governing Body Representative: These are the names and titles of the approving Board Members.

Examples include: Chairman of the Board, Director, Superintendent, etc. The names and titles **cannot** be one of the designated Authorized Agents. A minimum of three (3) approving board members must be listed. If less than three are present, meeting minutes must be attached in order to verify a quorum was met.

Certification Section:

Name and Title: This is the individual in attendance who recorded the creation and approval of this resolution.

Examples include: City Clerk, Secretary to the Board of Directors, County Clerk, etc. This person **cannot** be one of the designated Authorized Agents or Approving Board Member. If a person holds two positions (such as City Manager and Secretary to the Board) and the City Manager is to be listed as an Authorized Agent, then that person could sign the document as Secretary to the Board (not City Manager) to eliminate "Self-Certification."

TO: Rosedale-Rio Bravo Water Storage District Board of Directors
Agenda Item 7.b.i.

FROM: Dan Bartel and Markus Nygren

DATE: December 12, 2023

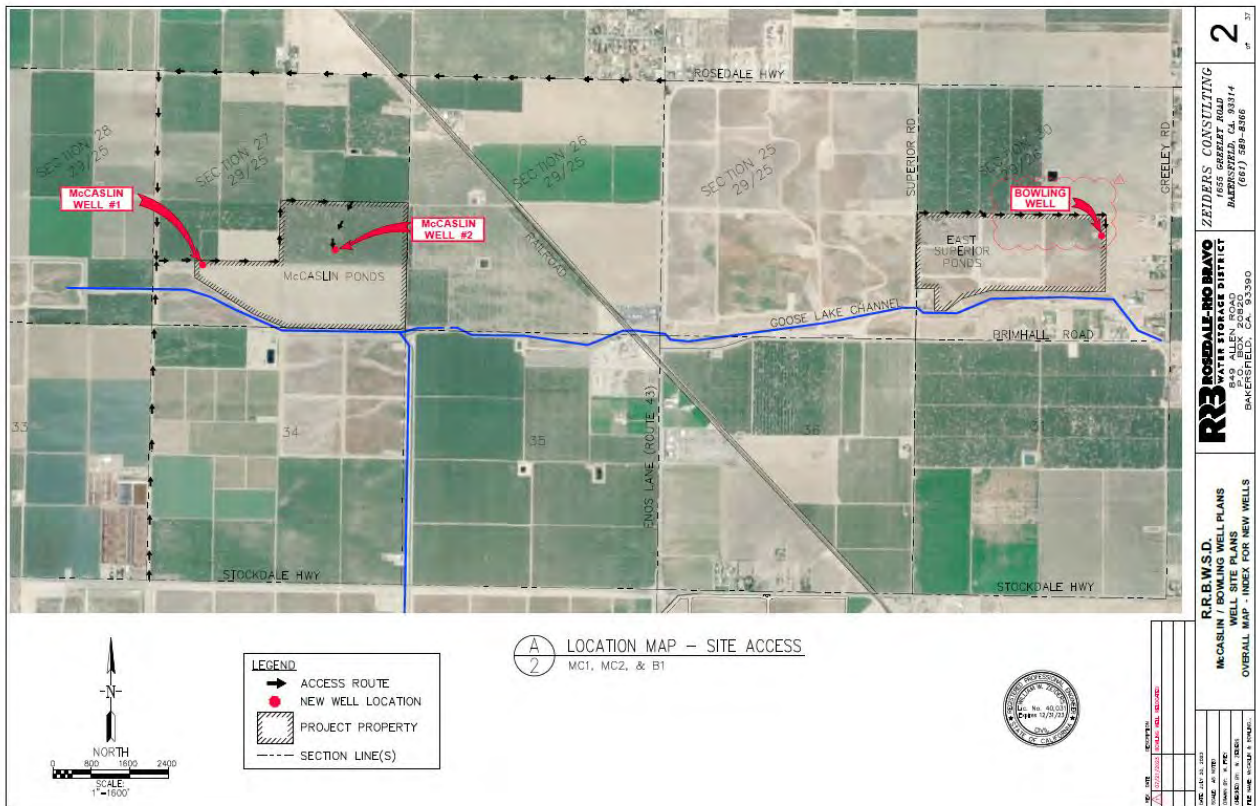
RE: Improvement Projects

Discussion:

Bowling and McCaslin Recovery Well Project

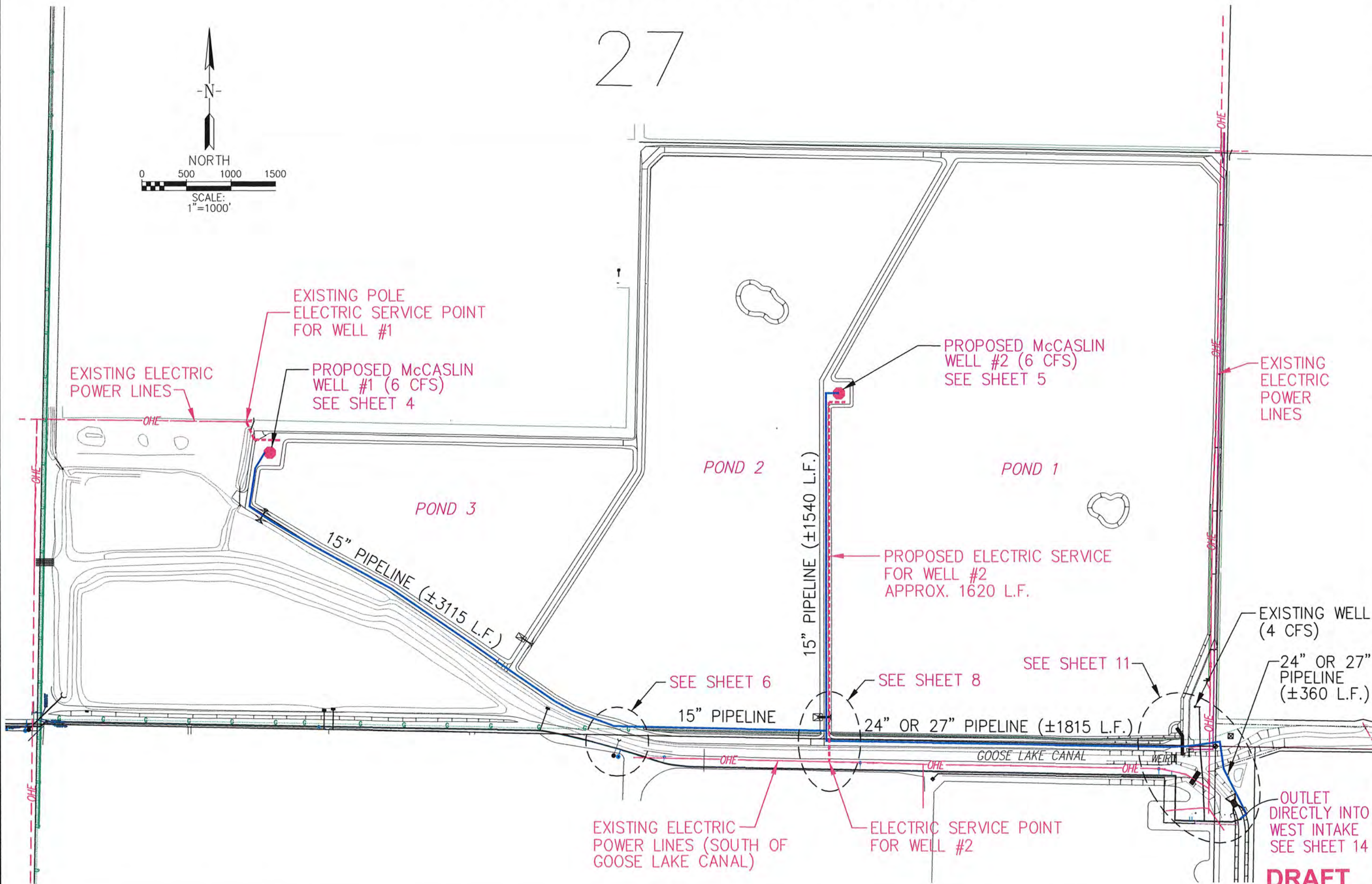
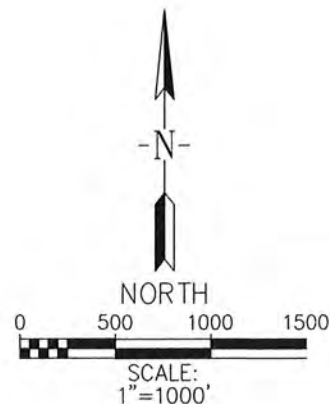
Bidding of the McCaslin / Bowling Recovery Well Project

Three additional recovery wells are to be drilled and completed, two at the McCaslin Recharge site, and one well at the Bowling Recharge site in East Superior. The District is receiving two million dollars as part of the WaterSMART Drought Resiliency 2021 award to help supplement the costs. The pipeline design is nearing 90% complete, which will cover the route, size, plumbing, etc. of the conveyance from the wells to Rosedale No. 1 (McCaslin) and the Central Intake (B-1).

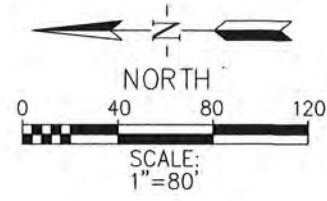


SHEET INDEX AND ELECTRICAL SERVICE PLAN

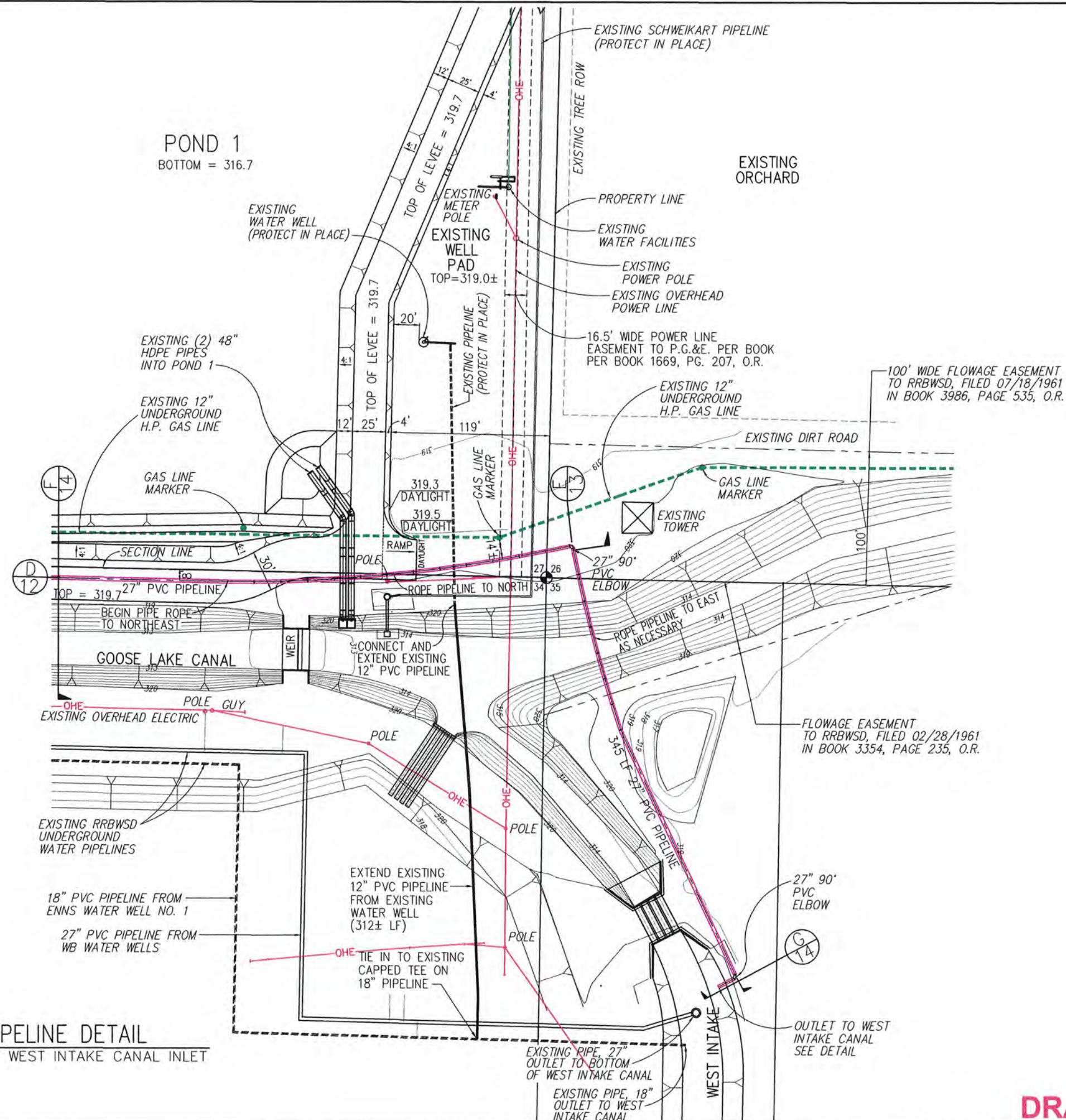
27



ZEIDERS CONSULTING 1655 GREELEY ROAD BAKERSFIELD, CA. 93314 (661) 589-8366	3 of 14
RRB ROSEDALE-RIO BRAVO WATER STORAGE DISTRICT 849 ALLEN ROAD P.O. BOX 20820 BAKERSFIELD, CA. 93390	
R.R.B.W.S.D. McCASLIN WELLS PIPELINE EXISTING AND PROPOSED ELECTRICAL SERVICE	
DATE: JANUARY 06, 2023 SCALE: AS NOTED DRAWN BY: A. TAYLOR CHECKED BY: W. ZEIDERS FILE NAME: McCASLIN & BOWLING...	



NOTE:
 CONTRACTOR TO USE EXTREME CAUTION WHEN WORKING IN THE VICINITY OF OVERHEAD HIGH VOLTAGE POWER LINES AND BURIED UTILITIES AND GAS OR PETROLEUM PIPELINES.



A
 11 PIPELINE DETAIL
 AT WEST INTAKE CANAL INLET

DRAFT

DATE: JANUARY 06, 2023	SCALE: AS NOTED	DRAWN BY: J. STORMONT	CHECKED BY: W. ZEDERS	FILE NAME: MCCASLIN-BASE
R.R.B.W.S.D.				
MCCASLIN WELLS PIPELINE				
HYDRAULICS ANALYSIS				
PIPELINE AT SOUTHEAST CORNER - INTO WEST INTAKE CANAL				
RRB ROSEDALE-RIO BRAVO		ZEIDERS CONSULTING		
WATER STORAGE DISTRICT		1655 GREELEY ROAD		
849 ALLEN ROAD		BAKERSFIELD, CA. 93314		
P.O. BOX 20820		(661) 589-8366		
BAKERSFIELD, CA. 93390		11 of 14		

**AGENDA
GROUNDWATER BANKING JOINT POWERS AUTHORITY
BOARD OF DIRECTORS
SPECIAL MEETING**

December 7, 2023
10:00AM

Rosedale Rio-Bravo Water Storage District
849 Allen Road
Bakersfield, CA 93314

Irvine Ranch Water District
15600 Sand Canyon Avenue
Irvine, CA 92618

This meeting will be made available to the public telephonically/electronically.

To virtually attend the meeting and to be able to view any presentations or additional materials provided at the meeting, please join online using the link and information below:

Via Web: <https://zoom.us/j/83815086560>
Meeting Number (Access Code): 838 1508 6560
Meeting Password: 982590
Telephone Dial In: (669) 900-6833

As courtesy to the other participants, please mute your phone when you are not speaking.

PLEASE NOTE: Participants joining the meeting will be placed into the lobby when the Board enters closed session. Participants who remain in the “lobby” will automatically be returned to the open session of the Board once the closed session has concluded. Participants who join the meeting while the Board is in closed session will be placed in the waiting room. When the Board has returned to open session, the participants will be automatically added to the meeting.

CALL TO ORDER 10:00 a.m.

ROLL CALL Directors Pierucci, Selvidge, Reinhart, Swan

**PUBLIC COMMENT
NOTICE**

If you wish to address the Board of Directors on any item, please submit a request to speak via the “chat” feature available when joining the meeting virtually. Remarks are limited to three minutes per speaker on each subject. You may also submit a public comment in advance of the meeting by emailing mmisuraca@rrbwsd.com before 5:00 p.m. on December 6, 2023.

ALL VOTES SHALL BE TAKEN BY A ROLL CALL VOTE

1. COMMUNICATIONS TO THE BOARD

- a) Written:
- b) Oral:

2. ITEMS RECEIVED TOO LATE TO BE AGENDIZED

3. CONSENT ITEMS

- a) Meeting Minutes September 7, 2023

4. JPA ADMINISTRATIVE AND FINANCIAL REPORT

- a) Consideration of FYE June 30, 2023 Audit and Financial Report (Eileen)
- b) Consideration of 1st Quarter Budget to Actual- FYE June 30, 2024 and Cash Call (Eileen)
- c) Consideration of Appointment of Treasurer and Authorized Signer Changes (Kent)
- d) Consideration of Emergency Action

5. KERN FAN GROUNDWATER STORAGE PROJECT

- a) Engineering (Dan)
 - i. Design Update
 - ii. Conveyance Alternatives
 - iii. West Enos Pilot Project
- b) Grant Funding Update (Fiona)
- c) State Agreements Update- SEIR Pulse Flows (Fiona)
- d) Consideration of Resolution No. 2023-04 USBR Small Storage Grant (Fiona)
- e) Consideration of West Enos Construction Initiation (Dan)

6. GENERAL MANAGER'S REPORT

7. OTHER BUSINESS

Pursuant to Government Code Section 54954.2, members of the Board of Directors or staff may ask questions for clarification, make brief announcements, and make brief reports on his/her own activities. The Board or a Board member may provide a reference to staff or other resources for factual information, request staff to report back at a subsequent meeting concerning any matter, or

direct staff to place a matter of business on a future agenda. Such matters may be brought up under the General Manager's Report or Directors' Comments.

8. CLOSED SESSION

a) CLOSED SESSION CONFERENCE WITH REAL PROPERTY
NEGOTIATORS – Pursuant to Government Code Section 54956.8:

Property: Parcels 103-270-07; 104-270-01,06; 104-260-09,15; 104-280-08,29,30,31,32,33,34,35; 104-260-08;104-270-28;104-291-07;104-240-31,22,30; 104-250-20,21; 104-280-01,02,07,19,24,25,27; 104-240-18;104-292-09; 103-170-09,12,14,15 25-32; 160-010-66, 71; 104-280-18 and possible others all in County of Kern

Agency negotiators: Dan Bartel

Negotiating parties: Various parties and Groundwater Banking Joint Powers Authority

Under negotiation: Price and Terms of Payment

9. OPEN SESSION

General Counsel may announce any reportable actions taken during Closed Session.

10. ADJOURN

Availability of agenda materials: Agenda exhibits and other writings that are disclosable public records distributed to all or a majority of the members of the above-named Board in connection with a matter subject to discussion or consideration at an open meeting of the Board are available for public inspection by contacting Megan Misuraca at mmisuraca@rrbwsd.com. If such writings are distributed to members of the Board less than 72 hours prior to the meeting, they will be available to the public at the same time as they are distributed to Board Members, except that if such writings are distributed one hour prior to, or during, the meeting, they will be available electronically during the meeting.

Accommodations: Upon request, the Authority will provide for written agenda materials in appropriate alternative formats, and reasonable disability-related modification or accommodation to enable individuals with disabilities to participate in and provide comments at the meeting. Please submit a request, including your name, phone number and/or email address, and a description of the modification, accommodation, or alternative format requested at least two days before the meeting. Requests should be emailed to mmisuraca@rrbwsd.com. Requests made by mail must be received at least two days before the meeting. Requests will be granted whenever possible and resolved in favor of accessibility.

DECLARATION OF POSTING: I, Megan Misuraca, 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 on or before December 4, 2023. I, Kristine Swan, declare under penalty of perjury, that I am employed by the Irvine Ranch Water District and I posted the foregoing Agenda at the District Office on or before December 4, 2023.

**James Water Bank Authority –Operations Committee Meeting
November 16, 2023, at 10:30am**

Location: Rosedale-Rio Bravo Water Storage District Board Room
849 Allen Road Bakersfield, CA 93314

AGENDA

This meeting will be held in accordance with the Brown Act pursuant to Section 54950, *et seq.* of the California Government Code and the James Water Bank Authority Joint Powers Agreement.

1. Roll Call

In the absence of a quorum of the Board the meeting will be adjourned.

2. Public Input

This portion of the meeting is set aside to provide the public an opportunity to bring to the attention of the Board matters of which the Board may not be aware and which are not on the current agenda. No action can be taken on any matter raised during this portion of the meeting; however, a Board member may request that the matter be placed on any future agenda for further review and possible action.

3. Approval of Minutes

ISL

- a. October 19, 2023, Meeting

4. Financial Matters

TA

- a. Bank Account(s) – Status
b. Accounts Payable
c. Review of Draft Proposed 2024 Budget

5. Reports on Pending Activities

- a. IRWMP Grant Opportunity / Report **TA**
b. CEQA Status - DEIR **TA**
c. Maintenance and Operations **DWB**
d. River Turnout/Canal
 1. James Inlet Canal 90% Design Comment Review

6. New Business

This portion of the meeting is set aside to provide each Board member an opportunity to bring to the attention of other Board members and the public matters which have come to their attention and/or which may be appropriate for future consideration. No action can be taken on any matter raised during this portion of the meeting; however, a Board member may request that the matter be placed on any future agenda for further review and possible action.

7. Closed Session

DNR/ILS

- a. Conference with legal counsel – existing litigation [Cal. Govt. Code § 54956.9(a)]
 1. City of Bakersfield v. BVWSD & RRBWSD; Kern Co. Superior Court Case No.: S-1500-CV-274238-RST
b. Conference with legal counsel – potential litigation [Cal. Govt. Code § 54956.9(b) & (c)]
 - Two (2) Matters
c. Conference with legal counsel – real property negotiations [Cal. Govt. Code §54956.8]

8. Adjournment

DECLARATION OF POSTING: I, Rachele 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 November 13, 2023. *Requests for disability-related modifications or accommodations, including auxiliary aids or services may be made by telephoning or contacting Rachele Echeverria at (661)589-6045 or recheverria@rrbwsd.com. Please attempt to make such requests known at least 24 hours before the scheduled meeting.*

Kern Groundwater Authority

Proposed Budget Calendar Year 2024

Budget Item	CY 2024	Not Budgeted	CY 2023 Budget	Current Amount as of 9-2023
KERN GROUNDWATER AUTHORITY JPA EXPENSES				
General and Administrative Costs				
1 KGA Management				
1A Executive Director			\$ 285,000	\$ 218,556
1B Administrative Assistant	\$ 25,000			
1C General Attorney Support	\$ 200,000		\$ 200,000	\$ 119,731
1D Website Management	\$ 4,000		\$ 3,000	\$ 1,934
2 Governance				
2A Litigation - Cash Call when needed				\$ -
3 Miscellaneous				
3A Audit / Financial Reports	\$ 11,000		\$ 11,000	\$ 11,000
3B Miscellaneous Admin Costs - Includes Adnrea Hill CPA	\$ 20,000		\$ 17,000	\$ 21,524
3C Stakeholder Outreach - P&P - Cash Call when needed				
3D General Technical Consultant Support	\$ 5,000		\$ 5,000	\$ 7,583
<i>General and Administrative Costs Subtotal</i>	\$ 265,000	\$ -	\$ 521,000	\$ 380,328
Technical Consultant Costs				
4 Coordination				
4A Coordination Agreement	\$ -	\$ -		\$ -
4B Legal Issues Paper	\$ -	\$ -		\$ -
4C Technical Issues Review	\$ -	\$ -		\$ -
4D Kern County Facilitation Services - Center for Collaborative Policy		\$ -		\$ -
5 Groundwater Sustainability Amended Plan Preparation				
5A GEI Task Order #19 - Cost Share				Refund
5B GEI Task Order (if needed for DWR final determination) - Cost Share	\$ -	\$ -		\$ -
6 Grant Administration - KGA Cost Share Amounts				
6A Prop 68 Grant Administration - DMS				
6B Prop 68 Grant Application Submittal - Basin Study				
6B Prop 68 Grant Administration - Basin Study				
<i>Technical Consultant Costs Subtotal</i>	\$ -	\$ -	\$ -	\$ -
KERN GROUNDWATER AUTHORITY JPA EXPENSES SUBTOTAL	\$ 265,000	\$ -	\$ 521,000	

October 20, 2023

Dan Waterhouse
Board Chairman
Kern Groundwater Authority
P.O. Box 20820
Bakersfield, CA 93390-0820

RE: Proposal for 2024 Management Services for the Kern Groundwater Authority, Kern County, California

Dear Dan:

Thank you for the opportunity to submit this proposal to provide continuing services for the Kern Groundwater Authority (KGA). We have assisted with management services since September 2017. This proposal is for continuing management services through 2024, consistent with the KGA proposed 2024 budget for Provost & Pritchard Consulting Group (Provost & Pritchard) management services. There is time included as requested by Patty Poire to assist in 2023 for the Component Closeout for the Kern River Groundwater Sustainability Agency (KRGSA) Proposition 1 GSA Grant with DWR. Note that we have removed the Executive Director scope of work as Patty Poire retires in December 2023. This proposal describes the proposed scope of services together with associated fees, deliverables and approximate schedules, and sets forth our assumptions.

Project Understanding

Provost & Pritchard provide staffing to assist the KGA. The staffing responsibilities are as follows:

1. **Administrative Assistant** – This position will provide support services for the activities of the KGA including coordinating meetings, preparing agendas and supporting materials, and drafting minutes.
2. **GIS Technician** – This position provides Geographic Information System (GIS) management assistance to the KGA to review and analyze data and mapping, prepare maps and figures for the KGA, and manage datasets within the basin.
3. **Outreach Coordinator** – The Outreach Coordinator is responsible for preparation of communication materials for outreach, and other outreach activities requested by the KGA.
4. **Website Coordinator** – This position is responsible for management and updates to the KGA website.
5. **Grant Administration** – This position will provide services for activities related to grant administration including grant management, reporting and invoicing.

Work may be performed by other Provost & Pritchard staff as needed in accordance with our current fee schedule.

Scope of Services

Our proposed scope of work for this project is segregated into six phases – Administration / Technical Services, Website Updates, Outreach, GIS Assistance, and two phases of Grant Management Assistance. Provost & Pritchard staff will serve in the roles described above in the project understanding section. Provost & Pritchard will work with the KGA to refine the roles over time to reflect needs that may change.

The services of all Provost & Pritchard employees will be billed to the KGA in six separate phases:

Phase ATS: Administration/Technical Services

Provost & Pritchard staff, including the Administrative Assistant, will assist in the management and administrative services described above.

Specifically, the following tasks will be performed by our staff:

1. Assist with facilitation at monthly KGA Board Meetings.
2. Preparation and distribution of meeting agendas, board packets and minutes.
3. Collecting and logging of consultant invoices, with delivery to the KGA accountant.
4. Technical Services, as requested.
5. Project management.

Phase WEB: Website Hosting & Maintenance

It is anticipated the following tasks may be performed by Provost & Pritchard staff:

1. Annual hosting services for KGA website on Provost & Pritchard's hosting server.
2. Provide updates to website as needed to keep the website content relevant. Updates generally include the addition of monthly board meeting agendas, board meeting packets and approved minutes, public meeting updates, public review documents, and the addition and/or updates of other pertinent information.

Phase OC: Outreach Coordinator

Provost & Pritchard's Outreach Coordinator will work with KGA to implement outreach efforts as requested. The following tasks may be performed by Provost & Pritchard staff, but note that these tasks are currently not included in the budget for 2024:

1. Educational/Outreach Meetings – Schedule outreach meetings at various locations within the KGA boundary to educate stakeholders on GSP implementation activities. Educational/outreach meetings may be conducted in-person or online, depending on COVID-19 restrictions.
 - a. Outreach meetings includes initial planning, meeting notices, preparation of presentation, handouts, sign-in sheets, day-of-coordination, meeting facilitation, and other unforeseen meeting details that may arise. The number of estimated meetings for this phase is not yet determined.

2. Development, design and distribution of educational correspondence, fact sheets, newsletters, and other necessary printed and digital materials and/or graphics for stakeholder groups.
3. Write, manage review/approval process, and distribute press releases for the purpose of announcing stakeholder outreach meetings and GSP implementation activities.
4. Correspond with community organizations and public agencies to distribute information and notices to their contact lists, and schedule presentations related to SGMA, as needed or when appropriate.
5. Spanish Translation – If needed, translate printed materials and presentations into Spanish, as well as provide in-person translation services at outreach meetings.
6. Provide outreach coordination services for KGA member districts, as requested.
7. Provide updates to Communication & Engagement Plan, as requested, which may include updating completed outreach timeline graphics and outreach tracking tables for reporting requirements, updating communication method section to reflect outreach efforts for COVID-19 restrictions (if needed), etc.

Phase GIS: GIS Technical Services

It is anticipated the following tasks may be performed by Provost & Pritchard staff:

1. GIS management of datasets.
2. Review and analysis of data and mapping from KGA members and other GSAs.
3. Preparation of GIS maps and exhibits.
4. Other tasks requested by the Director.

Phase GMA1: Grant Management Assistance for SGMA Implementation Grant

Grant administration in 2024 for the SGMA Implementation Grant has been broken into three tasks; grant administration, grant invoicing and grant reporting, but will be invoiced as a since phase, are described below.

1. Grant Administration - This task includes phone, email and mail correspondence with KGA staff, DWR, contractors, and the Grant Administrator (GA). This task includes regular correspondence regarding contractual issues, reporting, invoicing, contract amendments, meetings, and other administrative issues.
 - a. KGA will do all contract related work with sub-contractors and will forward all executed contracts to P&P.
 - b. Audit compliance related tasks are not included.
2. Grant Invoicing - This task includes Project Accounting and Pay Requests.
 - a. Project Accounting includes tracking project expenses, pay requests and payments for the project according to the main project categories listed in the grant scope of work.
 - b. Pay requests includes collecting invoices and preparing pay requests using DWR approved templates. Pay Requests will be submitted to DWR quarterly. We assume 6 more quarters remain based on the term of the grant agreement.

- c. KGA will provide copies of all submitted and project relevant invoices to the GA including contractor contact information, labor type breakout, hourly wage per labor type and hourly breakout. Invoices will include copies of all additional receipts (photocopies, mail costs, etc.) if they are to be claimed.
3. Grant Reporting - This task includes collecting, reviewing and consolidating information from the project and submitting reports to the GA in the approved format. The Grant Completion Report is anticipated for 2025 and has not been included in this budget.
 - a. Progress Reports will be prepared and will include an update on the various tasks for each Component and the status of required deliverables as identified in the Grant Agreement. The reports along with completed deliverables will be submitted to DWR quarterly. We assume 4 quarterly reports will be completed in 2024.
 - b. Component Final Reports will be prepared at the completion of each component including relevant project information to satisfy Grant requirements. One draft and one final report will be submitted for each component.

Phase GMA2: Grant Management Assistance for the Prop 1 GSP Grant

Grant administration, to be performed in 2023, includes the closeout of the KGA-led Proposition 1 GSP Grant Agreement 4600012955, Component 7. Administration tasks have been broken into three tasks; grant administration, grant invoicing and grant reporting, but will be invoiced as a since phase, are described below.

1. Grant Administration - This task includes phone, email and mail correspondence with KGA staff, KRGSA Staff and consultants, DWR, contractors, and the Grant Administrator (GA). This task includes correspondence regarding contractual issues, reporting, invoicing, meetings, and other administrative issues.
 - a. KGA will continue to be the point of contact with the KRGSA GA and DWR. P&P will assist with facilitation of deliverables, reporting, invoicing, and Sub-Grantee Agreement contract responsibilities.
 - b. Audit compliance related tasks are not included.
2. Grant Invoicing - This task includes the final Pay Request.
 - a. The final Pay request will include collecting invoices and preparing pay requests using DWR approved templates. Pay Requests will be submitted to the KRGSA GA quarterly.
 - b. KGA will provide copies of all submitted and project relevant invoices to P&P including contractor contact information, labor type breakout, hourly wage per labor type and hourly breakout. Invoices will include copies of all additional receipts (photocopies, mail costs, etc.) if they are to be claimed.
3. Grant Reporting - This task includes collecting, reviewing and consolidating information from the project and submitting the final Progress Report to the KRGSA GA in the approved format. The Grant Completion Report is included in this budget.
 - a. The final Progress Report will be prepared and will include an update on the various tasks for Component 7 and the inclusion of the remaining required

deliverables as identified in the Grant Agreement. The final Progress Report is due by the KRGSA to DWR by November 30, 2023.

- b. The Component Final Report will be prepared for Component 7 including relevant project information to satisfy Grant requirements. One draft and one final report will be submitted for each component. The Grant Completion Report is due by December 31, 2023.

Budget

Provost & Pritchard Consulting Group will perform the services in the scope of services on a time and materials basis, in accordance with our Standard Fee Schedule in effect at the time services are rendered. A budget of **\$75,000** is proposed. It is allocated by phase according to the table below. Some adjustment of the budget allocation between phases may be needed as work progresses. These fees will be invoiced monthly as they are accrued. Reimbursable expenses will be invoiced in addition to professional fees and are included in the estimated fee. If it appears we will exceed the estimate above, we will notify you in writing before we do so and will provide a revised estimate. We will not continue work beyond the previously approved budgets without additional authorization.

Phase	Proposed Budget
ATS	\$25,000
WEB	\$4,000
OC	As Requested
GIS	\$5,000
GMA1	\$30,000
GMA2	\$11,000
Total	\$75,000

Schedule

We understand that most of our work must conform to existing KGA commitments and regulatory requirements.

Terms & Conditions

Our ongoing work will continue to be subject to the terms and conditions detailed in our September 20, 2017 Consultant Services Agreement. Per the terms of the Agreement, "the Client may terminate this Agreement for the Client's convenience and without cause upon giving the Consultant not less than seven (7) calendar days' written notice."

If this proposal is acceptable, please sign below and return a copy to our office. This document will serve as our official Notice to Proceed. This amendment is valid for 60 days from the date above.

Respectfully,
Provost & Pritchard Consulting Group



Jeff Eklund, RCE 75680
Director of Operations

Terms & Conditions Accepted
By Kern Groundwater Authority

Signature

Printed Name

Title

Date

KGA 2024 Budget

General Legal

Paris Kincaid Wasiewski

General legal (Board meetings, agenda review, posting review, Brown Act interpretation and guidance; review, interpret, and negotiate third party agreements; review and interpret grant agreements.)	68,000.00
Membership and JPA (Review, interpret, manage Joint Powers Agreement, interpretation of JPA for members, draft, review and negotiate membership agreements, manage and interpret associate membership agreements; receive, review, and respond to member questions/concerns.)	28,000.00
KGA Dissolution Management and Solutions (Subbasin attorney meetings, development of dissolution solutions, review and interpretation of SGMA requirements, analysis of risk of probation, meeting and negotiation with regulatory agencies, interpretation of regulatory agency guidance, develop options for compliance, develop white area coverage solutions, support members development probation hearing preparation.)	88,000.00
Technical review and guidance (Review annual report, review and provide direction on SGMA requirements for GSP and implementation; .)	16,000.00
Total Estimated Cost	200,000.00

December 7, 2023

Kern Groundwater Authority
Board of Directors
1800 30th Street
Bakersfield, CA 93301

Re: Kern Groundwater Authority Proposed 2024 Budget

Board of Directors,

The Kern Groundwater Authority (KGA) Temporary Associate Members Cawelo Water District (CWD), North Kern Water Storage District (NKWSD), Rosedale-Rio Bravo Water Storage District (RRBWSD), Shafter-Wasco Irrigation District (SWID), and Southern San Joaquin Municipal Utility District (SSJMUD) (collectively the "Temporary Associate Members" or "Districts") understand that the KGA is considering a proposed 2024 budget at the Board of Directors meeting scheduled for December 13, 2023. The Temporary Associate Members are in receipt of the proposed draft 2024 budget and do not agree to the total proposed amount of \$265,000 for the 2024 calendar year and more specifically the proposed \$200,000 budget item for General Attorney Support.

Per the Temporary Associate Membership Agreement, effective August 31, 2023, "...any future KGA budget for the term of this agreement must be approved by the Districts prior to expenditure or adoption of the KGA budget." The Temporary Associate Members understand the proposed budget is to be considered and discussed at the next Board meeting and therefore the Associate Members have the following comments for the Board of Directors to consider:

Not all of the General Attorney Support should be funded with the Temporary Associate Members. The Temporary Associate Members believe the General Attorney Support should be split into two tasks: one that General and Temporary Associate KGA Members contribute towards, and another task that only the General KGA Members fund. Included below is the position of the Temporary Associate Members regarding which portions of General Attorney Support should be funded with Temporary Associate Members.

- *General Legal* - The Temporary Associate Members do not participate in the KGA meetings to discuss administrative activities or other KGA-related activities and thus they do not agree to the \$68,000 allocated to this effort.

- *Membership and JPA* - The Temporary Associate Members agree to the \$28,000 allocated to this effort.
- *KGA Dissolution Management and Solutions* - The Temporary Associate Members are contributing to this effort through their own legal counsel through the Subbasin Attorney Working Group. This is not an administrative function that the Temporary Associate Members are obligated to participate in through the KGA and thus they do not agree to the \$88,000 allocated to this effort.
- *Technical Review and Guidance* – The Temporary Associate Members are not involved in the development of the new KGA GSP. This is not an administrative function that the Temporary Associate Members participate in and thus they do not agree to the \$16,000 allocated to this effort.

The Temporary Associate Members acknowledge they are committed to paying for any equitable proportionate share of costs related for the full and final extraction of the Temporary Associate Members from the KGA GSP, but those costs are unknown at this time and should be separate and outside of the KGA budget.

The recommendation from the Temporary Associate Members is that the General Attorney Support line item under the 2024 proposed budget be split into two line items. The first would be included under General and Administrative Costs in the amount of \$28,000 which would result in a total General and Administrative budget of \$93,000, which would be shared by KGA Temporary Associate Members and General Members alike. The remaining \$172,000 of General Attorney Support (for the reasons stated above) should be a separate line item that is funded only by current General Members of the KGA.

If, during the 2024 year, there is a potential for a budget shortfall then the KGA and the Board of Directors can consider an appropriate budget amendment and additional cash call at that time. The Associate Members plan to attend the December 13th KGA Board meeting to discuss a revised 2024 draft budget proposal that takes into account these comments.

Respectfully,
Cawelo Water District
North Kern Water Storage District
Rosedale-Rio Bravo Water Storage District
Shafter-Wasco Irrigation District
Southern San Joaquin Municipal Utility District

Kern Groundwater Authority

Proposed Budget Calendar Year 2024

Budget Item	CY 2024	Not Budgeted	CY 2023 Budget	Current Amount as of 9-2023
KERN GROUNDWATER AUTHORITY JPA EXPENSES				
General and Administrative Costs				
1 KGA Management				
1A Executive Director			\$ 285,000	\$ 218,556
1B Administrative Assistant	\$ 25,000			
1C General Attorney Support	\$ 200,000		\$ 200,000	\$ 119,731
1D Website Management	\$ 4,000		\$ 3,000	\$ 1,934
2 Governance				
2A Litigation - Cash Call when needed				\$ -
3 Miscellaneous				
3A Audit / Financial Reports	\$ 11,000		\$ 11,000	\$ 11,000
3B Miscellaneous Admin Costs - Includes Adnrea Hill CPA	\$ 20,000		\$ 17,000	\$ 21,524
3C Stakeholder Outreach - P&P - Cash Call when needed				
3D General Technical Consultant Support	\$ 5,000		\$ 5,000	\$ 7,583
<i>General and Administrative Costs Subtotal</i>	\$ 265,000	\$ -	\$ 521,000	\$ 380,328
Technical Consultant Costs				
4 Coordination				
4A Coordination Agreement	\$ -	\$ -		\$ -
4B Legal Issues Paper	\$ -	\$ -		\$ -
4C Technical Issues Review	\$ -	\$ -		\$ -
4D Kern County Facilitation Services - Center for Collaborative Policy		\$ -		\$ -
5 Groundwater Sustainability Amended Plan Preparation				
5A GEI Task Order #19 - Cost Share				Refund
5B GEI Task Order (if needed for DWR final determination) - Cost Share	\$ -	\$ -		\$ -
6 Grant Administration - KGA Cost Share Amounts				
6A Prop 68 Grant Administration - DMS				
6B Prop 68 Grant Application Submittal - Basin Study				
6B Prop 68 Grant Administration - Basin Study				
<i>Technical Consultant Costs Subtotal</i>	\$ -	\$ -	\$ -	\$ -
KERN GROUNDWATER AUTHORITY JPA EXPENSES SUBTOTAL	\$ 265,000	\$ -	\$ 521,000	

KERN GROUNDWATER AUTHORITY
TEMPORARY ASSOCIATE MEMBERSHIP AGREEMENT

THIS TEMPORARY ASSOCIATE MEMBERSHIP AGREEMENT (“Agreement”) is made and effective as of September 1, 2023, by and between the Kern Groundwater Authority, a California Joint Powers Authority (“KGA”) on the one hand, and Cawelo Water District, a California water district (“Cawelo”), North Kern Water Storage District, a California water storage district (“North Kern”), Rosedale-Rio Bravo Water Storage District, a California water storage district (“Rosedale”), Shafter-Wasco Irrigation District, a California irrigation district (“SWID”), and Southern San Joaquin Municipal Utility District, a California municipal utilities district (“SSJMUD”) on the other hand. Cawelo, North Kern, Rosedale, SWID and SSJMUD are referred to herein collectively as the “Districts” and individually as “District.” KGA and the Districts are also referred to herein collectively as the “parties” and individually as a “party.”

This Agreement is made with reference to the following facts and understandings.

A. In 2014, the California Legislature passed comprehensive groundwater legislation referred to as the “Sustainable Groundwater Management Act” (“SGMA”), which became effective on January 1, 2015. In adopting SGMA, the Legislature intended “[t]o provide local groundwater agencies with the authority and technical and financial assistance necessary to sustainably manage groundwater.” (California Water Code Section 10720(d).)

B. Certain local agencies with jurisdiction over groundwater management, including the Districts, have entered into that certain *Kern Groundwater Authority for the Tulare Lake Basin Portions of Kern County Joint Powers Agreement* dated as of May 27, 2014 (“JPA”) which has been amended and restated from time to time, pursuant to which they formed the KGA for the purposes set forth therein.

C. As of the date of this Agreement, the Districts are General Members of the KGA, as that term is defined in the JPA, and have been General Members since the inception of the KGA. As General Members, each of the Districts has satisfied their respective SGMA responsibilities by including a management area plan (MAP) in the KGA Groundwater Sustainability Plan (KGA GSP) covering the lands within the boundaries of the respective Districts’ management areas.

D. On or around January 30, 2020, and July 27, 2022, KGA submitted the KGA GSP, including the Districts’ MAPs, to DWR for review and approval.

E. On March 2, 2023, DWR determined that all of the GSP’s for the Kern County Subbasin are inadequate. The KGA and the Districts are currently working with other GSA’s overlying the Kern Subbasin to correct the deficiencies identified by DWR.

F. Each of the Districts have elected to become and are (or will soon be) GSAs. Each of the Districts has provided the KGA Board of Directors (“Board”) with notice of its intent to withdraw from the KGA.

G. The Districts intend to address the inadequacies identified by DWR in its June 2,

2023 letter by removing their respective MAPs from the KGA GSP and submitting new GSPs directly to the State Board.

H. The Districts desire to become Associate Members of the KGA on a temporary basis, until such time that the entire Kern Subbasin can submit a revised GSP (or GSPs) addressing the inadequacies identified by DWR, or such other time as may be necessary and appropriate.

I. The JPA provides that the KGA may from time to time admit Associate Members on terms and conditions consistent with SGMA and as determined by the KGA Board. Associate Members means those members of the KGA that are not General Members. Representatives of Associate Members may not serve on the KGA Board and/or KGA Board Committees. Likewise, while Associate Members may provide the KGA Board with input, the representatives of Associate Members shall be non-voting, and their presence shall not be counted in determining whether a quorum is present at KGA Board meetings.

J. The KGA and the Districts, individually and collectively, share the goal of ensuring sustainable groundwater management in the Kern County Subbasin and of obtaining approval of the Groundwater Sustainability Plan for the entire Kern Subbasin by DWR and/or the State Water Resources Control Board ("State Board"), and avoiding probationary status and/or the implementation of an interim plan by the State Board.

THEREFORE, in consideration of the foregoing, and of the mutual promises, covenants and conditions herein set forth, the Districts and the KGA agree as follows:

1. TERM: This Agreement shall become effective upon execution by all parties, and shall remain effective until

- a. Such time as the Districts adopt and submit a GSP (or GSPs) covering their respective areas to the State Board and/or DWR, as may be required by such agencies, addressing the inadequacies identified in DWR's March 2, 2023 letter; and
- b. The Districts execute a Coordination Committee Agreement (or an amendment thereto) for the Kern County Subbasin.

2. TERMINATION: Notwithstanding the foregoing, any party may terminate this Agreement upon 30 days' written notice to the other parties. In the event less than all of the Districts give notice to terminate this Agreement prior to the end of the term, the remaining District(s) and KGA may elect to have this Agreement remain in effect as between KGA and such remaining District(s).

3. ASSOCIATE MEMBERSHIP: Upon execution of this Agreement, the Districts' status as General Members of the KGA shall be immediately terminated, and they shall become Associate Members of the KGA pursuant to the terms and conditions of this Agreement. As Associate Members, the District's representatives to the KGA may not serve on the KGA Board and/or KGA Board Committees and they shall have no right to vote on matters decided by the KGA, except for the administrative and overhead cost line-item budget referred to in Section 4. The Districts' representatives shall not be counted in determining whether a quorum is present at

KGA Board meetings, and may be excluded from KGA closed session items that do not pertain to Associate Members.

4. COSTS: Pursuant to the JPA, each District shall remain responsible for its respective share for all obligations for assessments to pay costs or liabilities of the KGA which were incurred prior to the date of the District's notice of withdrawal. The Districts shall be responsible to cover the costs of the KGA required to facilitate the removal of the District or District GSP from the KGA GSP. These costs will be tracked as a separate item specific to each District. In addition, each District shall be obligated to pay a proportionate share (based upon total KGA membership) of the KGA administrative and overhead costs until this Agreement is terminated pursuant to sections 1 or 2. The administrative and overhead costs included in this provision shall be represented as a separate budget line item in the 2024 KGA budget and any future KGA budget for the term of this Agreement and must be approved by the Districts prior to expenditure or adoption of the KGA budget. Nothing herein shall prohibit any District from agreeing to pay other KGA costs covered by a Special Activity Agreement.

5. COORDINATION COMMITTEE: Nothing in this Agreement shall prohibit any or all of the Districts from executing any amendment to the *Kern County Subbasin Coordination Agreement* or from becoming a member of the Basin Coordination Committee formed thereunder.

6. DEVELOPMENT OF GSPs: During the term of this Agreement, the Districts shall develop their own GSPs (either individually or collectively) covering the lands within their respective GSA boundaries; the Districts shall coordinate and cooperate with the KGA and other GSAs in the subbasin on the development, adoption and submission of their GSPs. The Districts shall be solely responsible for all costs associated with the development of their GSPs, including but not limited to the cost of all efforts necessary to revise the Water Budget Baseline Conditions appendices to the *Kern County Subbasin Coordination Agreement*.

7. PROVISION OF JURISDICTION: Each District shall obtain and execute agreements with other agencies in order to provide jurisdiction over those lands outside the District's respective District boundaries but within its GSA boundaries and/or that are currently under contract with the Districts to provide SGMA services and jurisdiction. During the term of this Agreement, all of the terms and conditions of any *Provision of Jurisdiction Agreement* between the KGA and any District shall remain in full force and effect unless terminated as provided for therein; upon termination of this Agreement, any such agreements shall automatically terminate and neither the KGA nor any of its other members shall be required to provide jurisdiction over any such lands/landowners that have contracted with the Districts for SGMA services and jurisdiction. The Districts shall not be obligated to provide any services or jurisdiction over nor shall they (jointly or severally) be responsible for any of the so-called "undistricted lands" that are outside of their GSA boundaries and/or that not under contract with the Districts (or any of them) for the provision of SGMA services and jurisdiction.

8. SGMA IMPLEMENTATION: Each District shall have the sole right and responsibility to implement SGMA within its respective management area boundaries in a manner determined by each District. The KGA will not have the authority to limit or interfere with the respective Districts' rights and authorities over their own internal matters, including but not limited to each District's surface water supplies, facilities, operation, and any other water management

activities.

9. COOPERATION: The KGA and the Districts will cooperate with one another on all actions that are necessary to effectuate the purposes and provisions of this Agreement. If the State Board or DWR do not accept the submission of additional GSPs from the Districts, the KGA will continue to work with the Districts to reestablish General Membership upon request.

10. INDEMNIFICATION: Each District shall indemnify, defend and hold the KGA and its other members harmless from and against any liability, cause of action or damage to the extent arising out of its performance of this Agreement.

11. SEVERABILITY AND VALIDITY OF AGREEMENT: Should the participation of any party to this Agreement, or any part, term or provision of this Agreement be decided by a courts or the legislature to be illegal, in excess of that party's authority, in conflict with any law of the State of California, or otherwise rendered unenforceable or ineffectual, the validity of the remaining portions, terms or provisions of this Agreement shall not be affected thereby and each party hereby agrees it would have entered into this Agreement upon the remaining terms and provisions.

12. EXECUTION IN PARTS OR COUNTERPARTS: This Agreement may be executed in parts or counterparts, each part or counterpart being an exact duplicate of all other parts or counterparts, and all parts or counterparts shall be considered as constituting one complete original and may be attached together when executed by the parties hereto. Facsimile or electronic signatures shall be binding.

13. NOTICES: Notices authorized or required to be given pursuant to this Agreement shall be in writing and shall be deemed to have been given when mailed, postage prepaid, or delivered in person or by electronic mail during working hours to the addresses set forth below for each of the parties hereto, or to such other changed addresses communicated to the Authority and the Districts in writing.

IN WITNESS WHEREOF, the parties hereto, pursuant to authority provided by their respective Board of Directors or governing board, have caused their names to be affixed by their proper and respective officers as of the day and year first above-written.

Dated:

~~Kern Groundwater Authority~~

By:  _____

Name, Title: Dan Waterhouse, President

Address: 1800 30th Street Suite 280

Bakersfield, CA 93301

Dated: 8/30/23

Cawelo Water District

By: 

Name, Title: Keith Watkins, President

Address: 17207 Industrial Farm Rd.
Bakersfield CA 93308

Dated: 8/31/23

North Kern Water Storage District

By: 

Name, Title: Kevin Andrews, President

Address: 33380 Cawelo Ave.
Bakersfield, CA 93308

Dated: 8/30/23

Rosedale-Rio Bravo Water Storage District

By: 

Name, Title: GARY UNRUH, DIRECTOR

Address: 849 ALLEN ROAD

BAKERSFIELD, CA 93314

Dated: 8/30/23

Shafter-Wasco Irrigation District

By: 

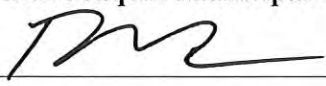
Name, Title: Craig D. Fulwyle, Director

Address: PO Box 1168

Wasco, CA 93280

Dated: 8/30/2023

Southern San Joaquin Municipal Utility District

By: 

Name, Title: Brandon N. Morris, Director

Address: PO Box 279

Delano, CA 93216

KERN COUNTY WATER AGENCY
CROSS VALLEY CANAL ADVISORY COMMITTEE

SPECIAL MEETING NOTICE & AGENDA

Stuart T. Pyle Water Resources Center

3200 Rio Mirada Drive

Bakersfield, California

November 13, 2023

Conference Line: 1 (571) 317-3122

Access Code: 500-820-565#

<https://global.gotomeeting.com/join/500820565>

Agenda

1. Call to order – 11:00 a.m.
2. Cross Valley Canal Advisory Committee Members Report
3. Public Comment
4. Approval of Cross Valley Canal Advisory Committee Meeting Minutes

Regular Meeting – October 25, 2023
5. Report of the Water Resources Manager
 - a. Update on Cross Valley Canal Construction/Maintenance Projects
6. Report on Cross Valley Canal Operations and Deliveries
 - a. Operations and Maintenance Activity
 - b. Year-to-Date Deliveries
7. Recommendation to Approve the 2024 Cross Valley Canal Operations and Maintenance Budget
8. Cross Valley Canal Extension Lining Project
 - a. Recommendation to Execute Change Order No. 5 to Cross Valley Canal Extension Lining Project – Pool No. 8 – Contract No. KCWA 2022-05
 - b. Recommendation to Execute Amendment No. 1 to the Kern County Water Agency Agreement for a Construction Management Services Consultant for the Cross Valley Canal Extension Lining Project – Pool No. 8 – Contract No. KCWA 2022-05
 - c. Recommendation to Execute Amendment No. 1 to the Kern County Water Agency Agreement for a Geotechnical Consultant for the Cross Valley Canal Extension Lining Project – Pool No. 8 – Contract No. KCWA 2022-05
 - d. Recommendation to Execute Amendment No. 1 to the Kern County Water Agency Agreement for an Engineering Consultant for the Cross Valley Canal Extension Lining Project – Pool No. 8 – Contract No. KCWA 2022-05
9. Cross Valley Canal Pioneer Inlet Improvements Project
 - a. Recommendation to Execute Change Order No. 2 to Cross Valley Canal Pioneer Inlet Improvements Project – Contract No. KCWA 2022-02

Cross Valley Canal Advisory Committee Agenda

November 13, 2023

Page 2 of 2

- b. Recommendation to Execute Amendment No. 1 to the Kern County Water Agency Agreement for a Construction Management Services for the Cross Valley Canal Pioneer Inlet Improvements Project – Contract No. KCWA 2022-02

10. 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

Kern Tulare Water District
5001 California Avenue, Suite 102
Bakersfield, CA 93312

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
October 25, 2023

The Cross Valley Canal Advisory Committee conducted its regular meeting Wednesday, October 25, 2023 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	Eric Limas
Improvement District No. 4	Tim Ruiz
	Dave Beard, alt
Kern County Water Agency	Sheridan Nicholas
Kern Delta Water District	Steven Teglia
	Richard Iger, alt
Kern Tulare Water District	Skye Grass
Rosedale-Rio Bravo Water Storage District	Trent Taylor, alt
	Roy Pierucci, alt

Others Present:

Kern County Water Agency	President Ted Page
	Director Gene Lundquist
	Director Martin Milobar
	Director Charles (Bill) W. Wulff
	Lauren Bauer
	Thane Campbell
	Scott Chambless
	Thomas McCarthy
	Amelia Minaberrigarai
	David Pieper
	Stephanie Prince
	Monica Tennant
	Candice Valdez
	Steve Yoder

Arvin-Edison Water Storage District	Sam Blue
Belridge Water Storage District,	Jamie Marquez
Berrenda Mesa Water District, and	
City of Bakersfield	Kristina Budak
Lost Hills Water District	
Wheeler Ridge-Maricopa Water Storage District	Eric McDaris

-
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 proceeding 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 It was noted that the agenda listed an incorrect date. The minutes for approval were for the June 21, 2023 meeting.

Action: Tim Ruiz made a motion and Steven Teglia seconded to approve the minutes from the June 21, 2023 regular meeting.

Roll call vote: Ayes: Beard, Nicholas, Teglia, Grass, Taylor, Ansolabehere, Limas, Muhar
Noes: None
Absent: None

Committee member Tim Ruiz joined the meeting at 1:33 p.m.

5. Report of the Water Resources Manager
 - a. Update on Cross Valley Canal Construction/Maintenance Projects – Lauren Bauer provided a brief monthly overview of the CVC facilities improvements, outages and construction projects.
6. Report on Cross Valley Canal Operations and Deliveries
 - a. Operations and Maintenance Activity – Thane Campbell reported that staff performed mechanical cleaning of forebays using the Gradall, pulled 2A (100 horsepower) pump for repairs at Pumping Plant No. 2A, assisted with the north door repairs at Pumping Plant No. 3A, assisted air-conditioning contractor with repairs at Pumping Plant No. 3B, performed vegetation and weed removal north of Pumping Plant No. 4B, assisted electrical staff with multiple motor control issues at various pumping plants, including power failures at Pumping Plant Nos. 5A and 6A, assisted contractor with multiple SCADA issues, assisted various contractors and consultants associated with multiple Agency projects, performed air-conditioning maintenance on all CVC Motor Control Center (MCC) Building A/C units, 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 O&M Center, performed post-emergent herbicide applications, performed extensive fence and gate repairs, performed road and levee maintenance and washout repairs along CVC rights-of-way, continued rodent abatement 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 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.
 - b. Year-to-Date Deliveries – Monica Tennant reported that deliveries for September 2023 were approximately 50,000 acre-feet, with deliveries on behalf of Arvin-Edison Water Storage District, Improvement District No. 4, Rosedale-Rio Bravo Water Storage

District and other Agency Member Units. Deliveries were made in both forward and reverse flow.

7. Recommendation to Approve an Amendment to the 2023 Cross Valley Canal Operations and Maintenance Budget – Monica Tennant reported that the 2023 CVC Operations and Maintenance O&M Budget (2023 Budget) includes \$50,000 for maintenance costs for CVC vehicles and equipment. Due to continued manufacturing delays and existing vehicles reaching the end of their useful life, Agency vehicles require more frequent and costly repairs to prevent the loss of functionality in CVC operations. Agency staff recommended the Maintenance Mobile Equipment line item in the 2023 Budget be increased from \$50,000 to \$75,000 for additional Agency vehicle and equipment repairs as needed. Approval of the amendment to the 2023 Budget authorized the expenditure of an additional \$25,000.

Action: Jeevan Muhar made a motion and Tim Ruiz seconded to recommend approving an amendment to the 2023 Cross Valley Canal Operations and Maintenance Budget in the amount of \$25,000, as outlined in the October 25, 2023 staff memorandum to the Cross Valley Canal Advisory Committee, Agenda Item No. 7.

Roll call vote: Ayes: Ruiz, Nicholas, Teglia, Grass, Taylor, Ansolabehere, Limas, Muhar
Noes: None
Absent: None

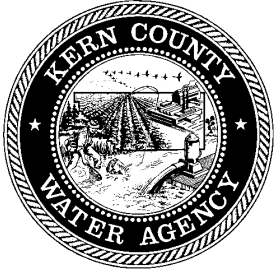
8. Recommendation to Issue the Request for Bid for the Kern County Water Agency Uninterruptible Power Supply Replacement – Contract No. KCWA 2023-010 – This item was tabled.

9. Recommendation to Execute Amendment No. 1 to the Kern County Water Agency Agreement for Technical Services to Repair Axial Flow Pumps for the Cross Valley Canal – Scott Chambless reported that on December 15, 2021, Agency Board of Directors authorized the Engineering and Groundwater Services Manager to retain On-Site Technical Services, Inc. (On-Site) to provide technical support for selection, testing and repair of axial flow pumps for the CVC. The agreement with On-Site expires on December 31, 2023 and additional time is needed to cover testing of new axial flow pumps and the warranty period of the pumps; therefore, Agency staff recommended that the Water Resources Manager be authorized to execute Amendment No. 1 to the Kern County Water Agency Agreement for Professional Consulting Services with On-Site Technical Services, Inc. amending the contract termination date to December 31, 2025. The amendment is a no cost time extension.

Action: Tim Ruiz made a motion and Steven Teglia seconded to recommend authorizing the Water Resources Manager to execute Amendment No. 1 to the Kern County Water Agency Agreement with On-Site Technical Services, Inc. to repair axial flow pumps for the Cross Valley Canal amending the contract termination date to December 31, 2025, subject to approval of General Counsel as to legal form, as outlined in the October 25, 2023 staff memorandum to the Cross Valley Canal Advisory Committee, Agenda Item No. 8.

Roll call vote: Ayes: Ruiz, Nicholas, Teglia, Grass, Taylor, Ansolabehere, Limas, Muhar
Noes: None
Absent: None

10. Adjourn Chairman Sheridan Nicholas adjourned the Committee meeting at 1:52 p.m.



MEMORANDUM

20.2.1

TO: Cross Valley Canal Advisory Committee
Agenda Item No. 5a

FROM: Lauren Bauer

DATE: November 13, 2023

SUBJECT: Update on Cross Valley Canal Construction/Maintenance Projects

Issue:

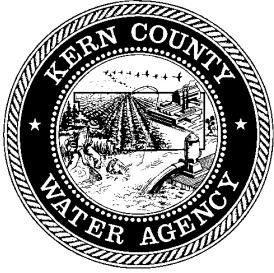
Update on Cross Valley Canal construction/maintenance projects.

Recommended Motion:

None – information only.

Discussion:

An overview of the construction projects associated with the Cross Valley Canal are provided as Attachments 1A and 1B.



MEMORANDUM

20.2.1

TO: Cross Valley Canal Advisory Committee
Agenda Item No. 6a

FROM: Thane Campbell

DATE: November 13, 2023

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.

DRAFT

**CROSS VALLEY CANAL
REPORT ON OPERATIONS, MAINTENANCE AND DELIVERIES
NOVEMBER 2023**

**CROSS VALLEY CANAL
OPERATIONS**

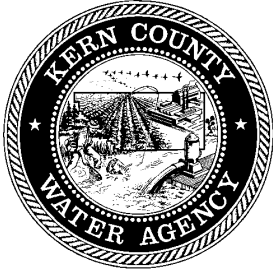
Preliminary inflows and deliveries for the month of October were as follows:

	California Aqueduct SWP (AF)	California Aqueduct CVP (AF)	Friant- Kern CVP (AF)	CVC Total (AF)
Deliveries by Turnout:				
N-2 Siphon	1,446	48		1,494
Strand Siphon	2,666	228		2,894
Rosedale-Rio Bravo Turnout No. 1		5399		5,399
Rosedale-Rio Bravo Turnout No. 1B	1579			1,579
North Strand		2539		2,539
South Strand		1020		1,020
Kern Water Bank P-11 Turnout	5951	877		6,828
Rosedale-Rio Bravo Central Intake				0
Nord Siphons	4,975			4,975
Grimmway Temporary Pumps				0
Section 4 Turnout	5,133	177		5,310
River Turnout No. 1	1,269			1,269
Rosedale-Rio Bravo Turnout No. 2	2613	1,868	1,651	6,132
River Turnout No. 2	2709			2,709
Arvin-Edison Turnout		7411		7,411
Lined Losses - Pools 1-6	109			109
River Turnout No. 3 Pond	268			268
River Turnout No. 3 River	2218			2,218
Big Bertha Siphon	436			436
Truxtun Lakes	107			107
Lined Losses – Pool 7	32			32
Henry C. Garnett Water Purification Plant				0
Unlined Losses – Pool 8				0
Total	31,511	19,567	1,651	52,729

MAINTENANCE AND REPAIRS:

- Performed mechanical cleaning of forebays using Gradall excavator;
- Rebuilt two siphon breaker actuators;
- Removed two siphon meters for repair;
- Assisted air-conditioning contractor with repairs at Pumping Plant No. 3B;
- Assisted electrical staff with multiple motor control issues at various pumping plants;
- Assist contractor with multiple SCADA issues;
- Assisted various contractors and consultants associated with multiple Agency projects;
- 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 & Maintenance (O&M) Center;
- Performed post-emergent herbicide applications;
- Performed extensive fence and gate repairs;
- Performed road and levee maintenance and washout repairs along CVC rights-of-way;
- Continued rodent abatement 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

20.2.1

TO: Cross Valley Canal Advisory Committee
Agenda Item No. 6b

FROM: Monica Tennant

DATE: November 13, 2023

SUBJECT: Report on Cross Valley Canal Operations and Deliveries

Issue:

Report on Cross Valley Canal operations and deliveries.

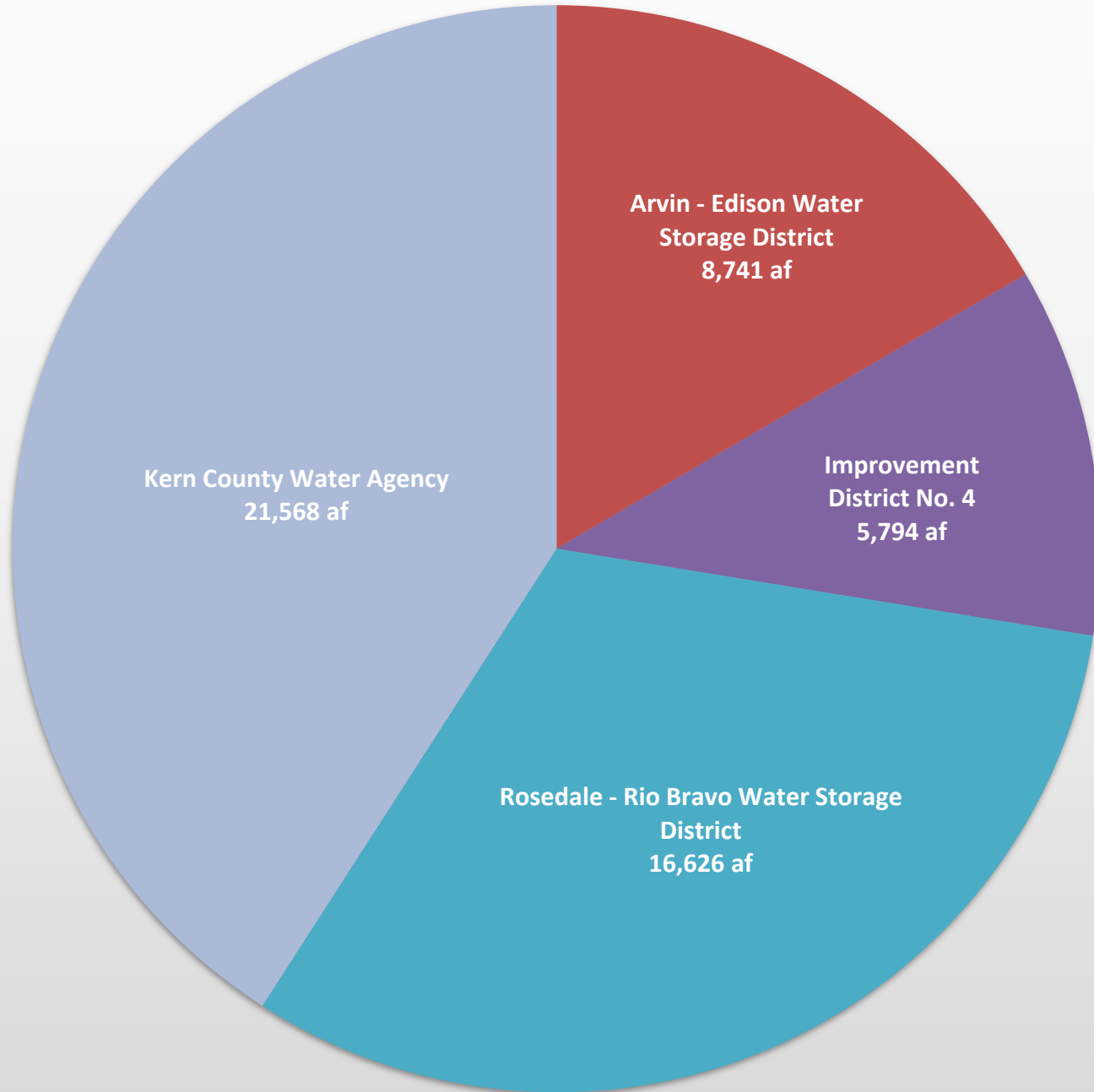
Recommended Motion:

None – information only.

Discussion:

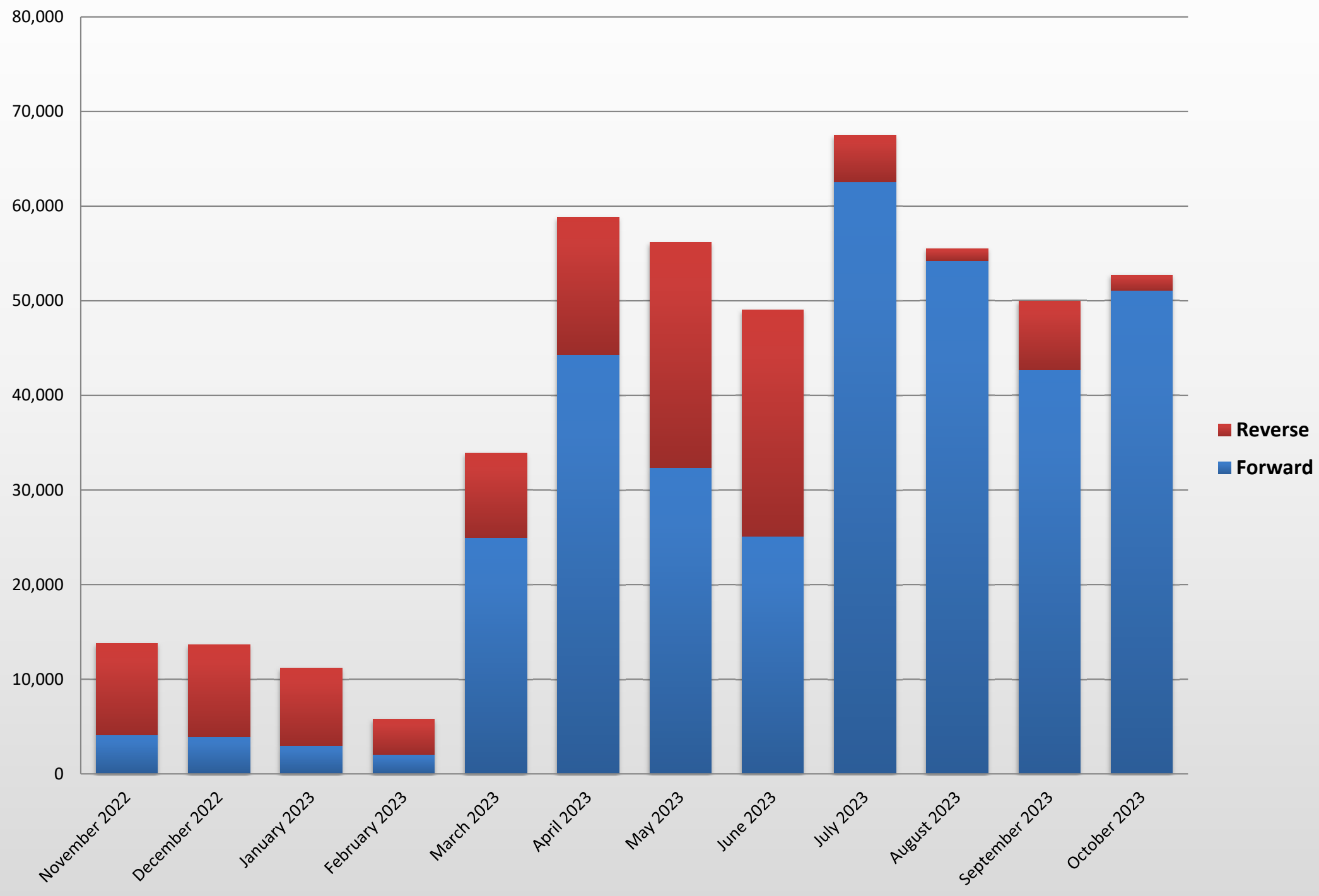
A summary and graph of the Cross Valley Canal (CVC) operations, maintenance and deliveries for October 2023 is provided as Attachment 1. A table summarizing the year-to-date deliveries is provided as Attachment 2. Graphs illustrating deliveries by direction of flow and by source over the last 12 months are provided as Attachment 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
October 2023 Deliveries
Total deliveries 52,729 af**

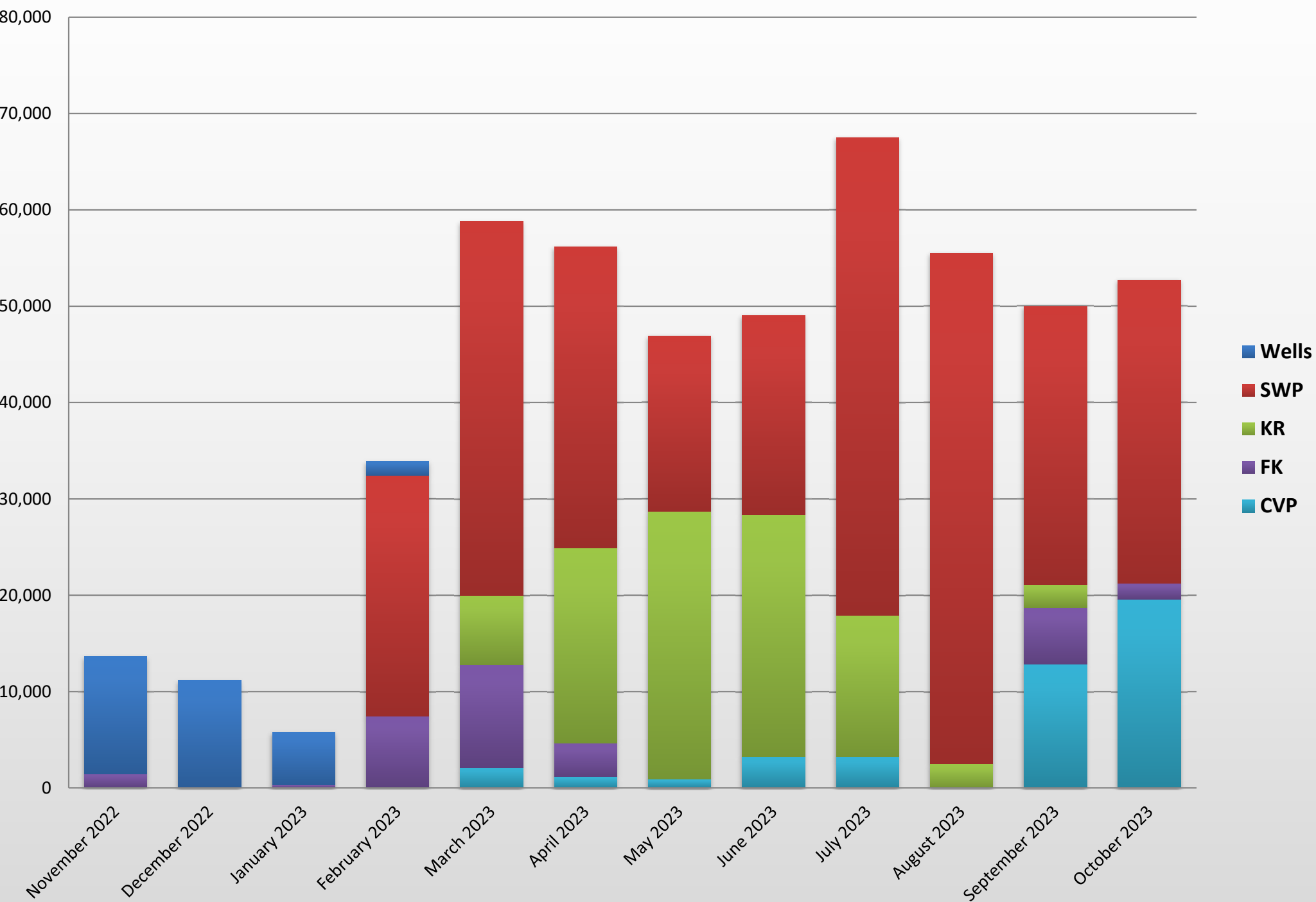


Cross Valley Canal

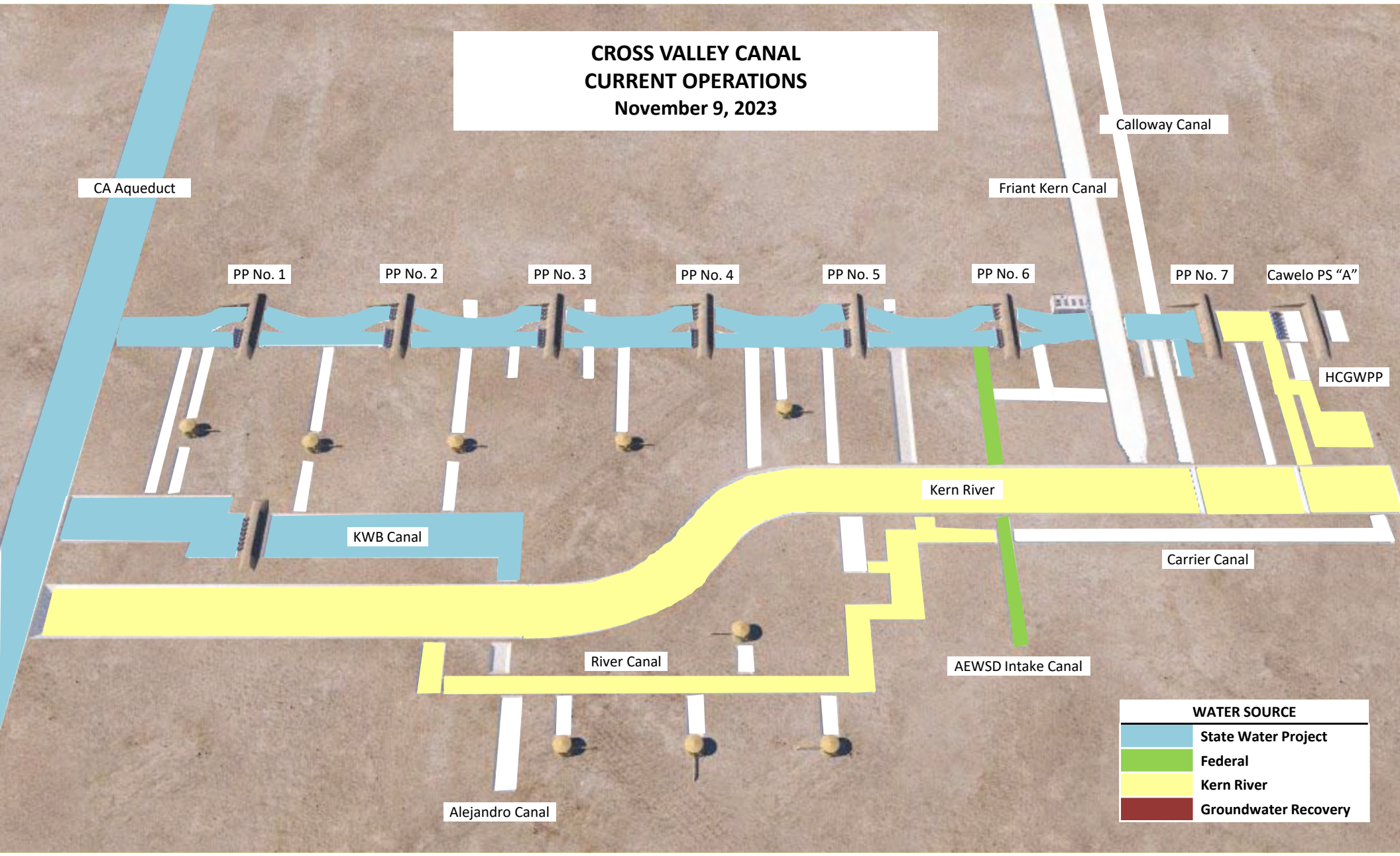
Twelve Month Delivery by Direction



Cross Valley Canal Twelve Month Delivery by Source



**CROSS VALLEY CANAL
CURRENT OPERATIONS
November 9, 2023**



CA Aqueduct

PP No. 1

PP No. 2

PP No. 3

PP No. 4

PP No. 5

PP No. 6

PP No. 7

Cawelo PS "A"

Calloway Canal

Friant Kern Canal

HCGWPP

KWB Canal





Kern River

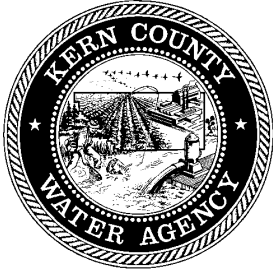
Carrier Canal

River Canal

AEWSD Intake Canal

Alejandro Canal

WATER SOURCE	
	State Water Project
	Federal
	Kern River
	Groundwater Recovery



MEMORANDUM

20.2.1

TO: Cross Valley Canal Advisory Committee
Agenda Item No. 7

FROM: Monica Tennant

DATE: November 13, 2023

SUBJECT: Recommendation to Approve the 2024 Cross Valley Canal Operations and Maintenance Budget

Issue:

Consider approving the 2024 Cross Valley Canal Operations and Maintenance Budget.

Recommended Motion:

Recommend approving the 2024 Cross Valley Canal Operations and Maintenance Budget in the total amount of \$8,705,000 as outlined in the November 13, 2023 staff memorandum to the Cross Valley Canal Advisory Committee, Agency Item No.7.

Discussion:

Provided as Attachment 1 is the proposed 2024 Cross Valley Canal (CVC) Operations and Maintenance (O&M) Budget (Budget). The proposed 2024 Budget is \$ 8,705,000 for operations, maintenance and administration. This represents a 9 percent decrease compared to the 2023 Budget. The proposed 2024 Budget includes the following items: purchase of up to three new work trucks and a service vehicle; CVC Pool Nos. 2 and 3 Liner Raising Projects design; improvements to the Pioneer Inlet; installation of the afterbay trash racks at Pumping Plant Nos. 3A, 4A and 5A; CVC Pumping Plant No. 1A Back Siphoning Mitigation Initial Study; CVC Pool level circuit and invert surveys; CVC flow meter testing; channel meter installations; uninterruptible power supply replacements; and continued analysis related to the CVC Hydraulic Improvement Project. Approval of the 2024 Budget authorizes expenditure for all asterisked items and all items that are not included in the Agency's Fiscal Year 2023-24 budget. These costs are reimbursed by the CVC Participants and there is no fiscal impact to the Agency.

**KERN COUNTY WATER AGENCY
CROSS VALLEY CANAL
BUDGETED AND ACTUAL OPERATING COSTS
CALENDAR YEARS 2020-2022 ACTUAL, 2023 YTD and PRELIMINARY 2024**

Description	2020		2021		2022		2023			2024	%
	Approved Budget	Actual Expenses	Approved Budget	Actual Expenses	Approved Budget	Actual Expenses	Approved Budget	Expenses @ 08/31/23	Estimated Exp. @ 12/31/23	Proposed Budget	Change 2024 / 2023
SALARIES AND BENEFITS	\$2,052,000	\$1,874,240	\$2,210,000	\$1,653,135	\$2,353,000	\$1,850,984	\$2,353,000	\$1,267,901	\$1,690,534	\$2,353,000	0.0%
MAINTENANCE	746,000	631,158	646,000	296,255	695,450	400,457	561,000	175,214	474,071	736,000	31.2%
OPERATING SUPPLIES	96,500	61,083	96,500	62,592	101,500	78,630	96,500	44,307	86,500	121,500	25.9%
OFFICE SUPPLIES	16,000	3,937	23,500	8,935	20,500	1,370	17,500	54	71	10,000	-42.9%
UTILITIES	36,500	31,872	36,500	28,752	36,500	33,288	38,000	17,545	33,099	38,000	0.0%
PROFESSIONAL SERVICES	901,500	254,096	1,121,000	415,558	1,583,000	465,599	1,374,000	539,815	804,098	1,360,000	-1.0%
MEETINGS, TRAVEL & EDUCATION	10,000	917	10,000	24	10,000	48	10,000	53	3,080	12,500	25.0%
LICENSES & PERMITS	1,500	23,029	1,000	60	1,000	160	1,000	211	316	1,000	0.0%
INSURANCE	101,260	63,283	118,600	62,230	128,700	75,940	144,300	73,322	79,494	169,700	17.6%
RENTS & LEASES	60,000	14,141	40,000	5,040	40,000	10,597	60,000	32,948	49,421	40,000	-33.3%
ASSOC. & PROF. MEMBERSHIP FEES	15,000	11,447	14,300	8,674	14,200	9,636	15,000	9,736	15,000	15,000	0.0%
DIRECTORS FEES	6,000	7,354	6,000	6,587	6,000	4,146	6,000	1,538	2,307	6,000	0.0%
OUTSIDE SERVICES	8,000	10,187	8,000	4,863	10,000	3,650	10,000	7,917	11,875	10,000	0.0%
AGENCY OVERHEAD	777,600	514,086	813,400	445,741	653,500	505,268	502,700	335,902	502,700	507,300	0.9%
REPLACEMENT FUND COLLECTION	40,000	40,000	40,000	40,000	0	0	0	0	0	0	0.0%
TRANSFER FROM RESERVES	0	0	0	0	0	0	0	0	0	0	0.0%
OPERATING CAPITAL OUTLAY	2,280,000	1,391,854	2,200,000	2,310	3,505,000	272,669	4,383,000	2,125,852	2,834,469	3,325,000	-24.1%
TOTAL CVC OPERATIONS	\$7,147,860	\$4,932,684	\$7,384,800	\$3,040,756	\$9,158,350	\$3,712,442	\$9,572,000	\$4,632,313	\$6,587,036	\$8,705,000	-9.1%

**KERN COUNTY WATER AGENCY
CROSS VALLEY CANAL
BUDGETED AND ACTUAL OPERATING COSTS
CALENDAR YEARS 2020-2022 ACTUAL, 2023 YTD and PRELIMINARY 2024**

Account Number	Description	2020		2021		2022		2023			% of 2023 Estimated / Approved	2024 Proposed Budget	% Change 2024 / 2023
		Approved Budget	Actual Expenses	Approved Budget	Actual Expenses	Approved Budget	Actual Expenses	Approved Budget	Expenses @ 08/31/23	Estimated Exp. @ 12/31/23			
EMPLOYEE SALARIES													
5000	Regular Salaries	950,000	947,278	1,000,000	843,562	1,100,000	950,639	1,100,000	651,866	869,155	-21.0%	1,100,000	0.0%
5001	Overtime	75,000	66,724	100,000	68,535	100,000	69,371	100,000	81,449	108,599	8.6%	100,000	0.0%
	TOTAL SALARIES	1,025,000	1,014,002	1,100,000	912,097	1,200,000	1,020,009	1,200,000	733,316	977,754	-18.5%	1,200,000	0.0%
EMPLOYEE BENEFITS													
5020	Retirement	520,000	448,733	605,000	365,933	626,000	457,952	626,000	316,632	422,176	-32.6%	626,000	0.0%
5010	Social Security	85,000	65,919	90,000	58,580	93,000	68,379	93,000	53,662	71,550	-23.1%	93,000	0.0%
5021,23	Health & Dental Insurance	400,000	328,389	390,000	302,638	407,000	289,781	407,000	151,782	202,375	-50.3%	407,000	0.0%
5022,24	Life Insurance and Vision Care	12,000	8,985	12,000	7,257	12,500	7,713	12,500	6,214	8,286	-33.7%	12,500	0.0%
5012	Unemployment Insurance	0	0	0	0	0	0	0	0	0	0.0%	0	0.0%
5025	LTD Insurance	10,000	8,212	13,000	6,630	14,500	7,150	14,500	6,295	8,394	-42.1%	14,500	0.0%
	TOTAL EMPLOYEE BENEFITS	1,027,000	860,238	1,110,000	741,038	1,153,000	830,974	1,153,000	534,585	712,780	-38.2%	1,153,000	0.0%
	TOTAL SALARIES AND BENEFITS	2,052,000	1,874,240	2,210,000	1,653,135	2,353,000	1,850,984	2,353,000	1,267,901	1,690,534	-28.2%	2,353,000	0.0%
MAINTENANCE													
5400	Structures & Improvements * [1]	100,000	46,828	80,000	70,859	100,000	198,408	100,000	11,457	100,000	0.0%	250,000	150.0%
5401	Mobile Equipment * [2]	40,000	41,767	40,000	40,696	50,000	22,577	50,000	14,039	75,000	50.0%	65,000	30.0%
5402	Electronic Equipment * [3]	50,000	8,744	25,000	7,809	30,000	16,568	30,000	28,694	30,000	0.0%	40,000	33.3%
5403	Pumps & Motors * [4]	500,000	484,680	400,000	111,411	425,000	139,962	325,000	106,720	250,000	-23.1%	325,000	0.0%
5404	Chemicals & Weed Control * [4]	45,000	47,598	45,000	12,318	50,000	17,352	50,000	12,610	16,813	-66.4%	50,000	0.0%
5408	Office Equip. & Furnishings	1,000	0	1,000	0	1,000	0	1,000	0	0	-100.0%	1,000	0.0%
5409	Other Maintenance	10,000	1,541	5,000	3,162	5,000	5,591	5,000	1,693	2,258	-54.8%	5,000	0.0%
	CVC Maintenance fund collections [5]	0	0	50,000	50,000	34,450	0	0	0	0	0.0%	0	-
	TOTAL MAINTENANCE	746,000	631,158	646,000	296,255	695,450	400,457	561,000	175,214	474,071	-15.5%	736,000	31.2%
OPERATING SUPPLIES													
5260	Fuel and Oil - Vehicles	55,000	45,731	55,000	47,300	60,000	54,603	60,000	35,004	60,000	0.0%	60,000	0.0%
5299	Other Operating Supplies	10,000	1,093	10,000	0	10,000	1,974	10,000	0	0	-100.0%	10,000	0.0%
5410	Janitorial Supplies	1,500	120	1,500	0	1,500	1,346	1,500	667	1,500	0.0%	1,500	0.0%
5589	Safety Equipment * [6]	30,000	14,139	30,000	15,292	30,000	20,707	25,000	8,636	25,000	0.0%	50,000	100.0%
	TOTAL OPERATING SUPPLIES	96,500	61,083	96,500	62,592	101,500	78,630	96,500	44,307	86,500	-10.4%	121,500	25.9%
OFFICE SUPPLIES													
5500	General Office Supplies	2,500	37	4,000	2,361	4,000	185	4,000	19	26	-99.4%	1,000	-75.0%
5501	Printing & Reproductions	5,000	0	8,000	6	5,000	37	5,000	0	0	-100.0%	1,000	-80.0%
5502	Computer Supplies/Subscriptions * [7]	8,500	3,900	11,500	6,568	11,500	1,147	8,500	34	45	-99.5%	8,000	-5.9%
	TOTAL OFFICE SUPPLIES	16,000	3,937	23,500	8,935	20,500	1,370	17,500	54	71	-99.6%	10,000	-42.9%
UTILITIES													
5570	Telephone	16,500	20,166	16,500	15,035	16,500	15,325	18,000	6,220	18,000	0.0%	18,000	0.0%
5571	Gas, Electricity, Water & Garbage	20,000	11,706	20,000	13,717	20,000	17,963	20,000	11,324	15,099	-24.5%	20,000	0.0%
	TOTAL UTILITIES	36,500	31,872	36,500	28,752	36,500	33,288	38,000	17,545	33,099	-12.9%	38,000	0.0%

- [1] Proposed costs consist of various anticipated and unanticipated structural repairs and improvements. Additional funds included for air conditioning unit replacements, turnout actuator replacements, gravel for levee roads and replacement of a motor storage unit at the CVC O&M center.
- [2] Proposed costs include maintenance costs on all vehicles and equipment.
- [3] Proposed costs include maintenance costs for electrical equipment in motor control centers, canal and canal structures, SCADA components and CVC O&M Center.
- [4] Proposed costs include repair or replacement of shafts, bushings and/or coating as needed.
- [5] CVC Maintenance Fund, which began with the 2012 CVC O&M Budget, collected \$300,000 from 2012-2014, \$200,000 in 2017, \$50,000 in 2021 and \$34,450 in 2022. In 2022, \$50,000 was refunded to the Participants. A total of \$550,000 has been collected to date.
- [6] Proposed costs include purchase of new safety equipment, including, but not limited to, signage, railing, lighting, safety upgrades and a replacement surveillance system.
- [7] Proposed costs include replacement costs for computers, iPads and upgrade costs for software.

* Approval of the 2024 O&M Budget authorizes expenditure, subject to statutory and regulatory restrictions, as outlined in the 2024 CVC Operation and Maintenance Budget Preliminary Expenditure summary.

**KERN COUNTY WATER AGENCY
CROSS VALLEY CANAL
BUDGETED AND ACTUAL OPERATING COSTS
CALENDAR YEARS 2020-2022 ACTUAL, 2023 YTD and PRELIMINARY 2024**

Account Number	Description	2020		2021		2022		2023			% of 2023 Estimated / Approved	2024 Proposed Budget	% Change =B/H9 C / A	
		Approved Budget	Actual Expenses	Approved Budget	Actual Expenses	Approved Budget	Actual Expenses	Approved Budget	Expenses @ 08/31/23	Estimated Exp. @ 12/31/23				
PROFESSIONAL SERVICES														
5601	Legal Services	40,000	639	40,000	845	40,000	7,049	20,000	17,083	20,000	0.0%	40,000	100.0%	
5602	Consulting Engineers * [8]	655,000	232,534	785,000	373,300	1,073,000	375,314	986,000	427,607	641,411	-34.9%	910,000	-7.7%	
5604	Special Consultants * [9]	206,500	20,923	296,000	41,413	470,000	83,236	368,000	95,125	142,687	-61.2%	410,000	11.4%	
	TOTAL PROFESSIONAL SERVICES	901,500	254,096	1,121,000	415,558	1,583,000	465,599	1,374,000	539,815	804,098	-41.5%	1,360,000	-1.0%	
BUSINESS MEETINGS & TRAVEL EXPENSE														
5591	Business Meetings/Travel	5,000	697	5,000	24	5,000	48	5,000	53	80	-98.4%	5,000	0.0%	
5592	Educational Expense [10]	5,000	220	5,000	0	5,000	0	5,000	0	3,000	-40.0%	7,500	50.0%	
	TOTAL MEETINGS & TRAVEL EXPENSE	10,000	917	10,000	24	10,000	48	10,000	53	3,080	-69.2%	12,500	25.0%	
LICENSES & PERMITS														
5950	Licenses & Permits	1,500	23,029	1,000	60	1,000	160	1,000	211	316	-68.4%	1,000	0.0%	
	TOTAL LICENSES & PERMITS	1,500	23,029	1,000	60	1,000	160	1,000	211	316	-68.4%	1,000	0.0%	
INSURANCE														
5582	Property Insurance	31,000	31,798	34,100	41,455	42,000	47,862	57,600	60,977	60,977	5.9%	83,000	44.1%	
5011	Workers Compensation Insurance	40,260	14,533	50,100	5,714	51,000	7,226	51,000	12,345	18,517	-63.7%	51,000	0.0%	
5581	Liability Insurance (JPIA)	30,000	16,952	34,400	15,061	35,700	20,851	35,700	0	0	-100.0%	35,700	0.0%	
	TOTAL INSURANCE	101,260	63,283	118,600	62,230	128,700	75,940	144,300	73,322	79,494	-44.9%	169,700	17.6%	
RENTS & LEASES														
5290	Equipment	60,000	14,141	40,000	5,040	40,000	10,597	60,000	32,948	49,421	-17.6%	40,000	-33.3%	
	TOTAL RENTS & LEASES	60,000	14,141	40,000	5,040	40,000	10,597	60,000	32,948	49,421	-17.6%	40,000	-33.3%	
ASSOC. & PROF. MEMBERSHIP FEES														
5550	Assoc. Fees * [11]	15,000	11,447	14,300	8,674	14,200	9,636	15,000	9,736	15,000	0.0%	15,000	0.0%	
	TOTAL ASSOC. FEES	15,000	11,447	14,300	8,674	14,200	9,636	15,000	9,736	15,000	0.0%	15,000	0.0%	
DIRECTORS FEES														
5590	Directors Fees	6,000	7,354	6,000	6,587	6,000	4,146	6,000	1,538	2,307	-61.6%	6,000	0.0%	
	TOTAL DIRECTORS FEES	6,000	7,354	6,000	6,587	6,000	4,146	6,000	1,538	2,307	-61.6%	6,000	0.0%	
OUTSIDE SERVICES														
5510	Laundry & Uniforms	8,000	10,187	8,000	4,863	10,000	1,346	10,000	5,620	8,430	-15.7%	10,000	0.0%	
5960	Security	0	0	0	0	0	2,304	0	2,297	3,446	0.0%	6,000	100.0%	
	TOTAL OUTSIDE SERVICES	8,000	10,187	8,000	4,863	10,000	3,650	10,000	7,917	11,875	18.8%	10,000	0.0%	
AGENCY OVERHEAD														
5599	KCWA Overhead Allocation [12]	777,600	514,086	813,400	445,741	653,500	505,268	502,700	335,902	502,700	0.0%	507,300	0.9%	
	TOTAL OVERHEAD EXPENSE	777,600	514,086	813,400	445,741	653,500	505,268	502,700	335,902	502,700	0.0%	507,300	0.9%	
REPLACEMENT FUND COLLECTIONS														
	CVC Replacement fund collections [13]	40,000	40,000	40,000	40,000	0	0	0	0	0	0.0%	0	0.0%	
	TOTAL REPLACEMENT FUND	40,000	40,000	40,000	40,000	0	0	0	0	0	0.0%	0	0.0%	
TRANSFER FROM RESERVES														
	Maintenance Fund Reserve Transfer	0	0	0	0	0	0	0	0	0	0.0%	0	0.0%	
	TOTAL TRANSFER FROM RESERVES	0	0	0	0	0	0	0	0	0	0.0%	0	0.0%	
OPERATING CAPITAL EXPENDITURES														
5720	Structures & Improvements [14]	1,270,000	423,910	1,990,000	202	3,270,000	245,416	3,518,000	1,979,219	2,968,829	-15.6%	2,690,000	-23.5%	
5730	Mobile Equipment * [15]	430,000	387,806	80,000	0	105,000	0	435,000	145,549	247,450	-43.1%	335,000	-23.0%	
5740	Electrical & Mechanical Equipment * [16]	580,000	580,138	130,000	2,108	130,000	27,253	430,000	1,083	130,000	-69.8%	300,000	-30.2%	
	TOTAL CAPITAL EXPENDITURES	2,280,000	1,391,854	2,200,000	2,310	3,505,000	272,669	4,383,000	2,125,852	2,834,469	-35.3%	3,325,000	-24.1%	
TOTAL CROSS VALLEY CANAL OPERATIONS		\$7,147,860	\$4,932,684	\$7,384,800	\$3,040,756	\$9,158,350	\$3,712,442	\$9,572,000	\$4,632,313	\$6,587,036	-31.2%	\$8,705,000	-9.1%	

- [8] Proposed costs include \$305,000 for the Pool Nos. 2 and 3 Liner Raising Projects, Post-Expansion Study, Pump Submergence and Canal Freeboard and the Pumping Plant 1A Back Siphoning Mitigation. An additional \$605,000 has been budgeted for the Arc Flash study, miscellaneous consulting engineering, CVC Pool level circuit and Pools 5-8 invert surveys, electrical engineering services, Hageman Flyover Utility Conflict Relocation Project design, Pioneer Inlet Improvements, pump consultant, the Pool No. 6 Open Channel Meter design and the Pool No. 6 Junction Box Bypass Meter study.
- [9] Proposed costs include \$410,000 for the Afterbay Trash Rack Installations on Pumping Plants 3A, 4A and 5A, biological services, CVC flow meter testing, CVC roof maintenance and inspection, database consulting, Pioneer Inlet construction materials testing, protective relay testing, safety/emergency response planning consulting services, SCADA consulting services, miscellaneous consulting services, standby emergency electrical services and the Pumping Plant Outage Mitigation Project.
- [10] Miscellaneous educational expenses and up to five staff members to attend pump and/or flow measurement courses at Cal Poly Irrigation Training and Research Center.
- [11] Proposed costs include estimated Agricultural Energy Consumers Association dues, as well as the CVC's proportionate share of the Agency's dues for the American Concrete Institute, American Society of Testing and Materials, Association of California Water Agencies, International Society of Automation, Kern County Local Agency Formation Commission, National Association of Corrosion Engineers International and the Underground Service Alert.
- [12] Proposed costs are utilizing Agency's FY 2023-24 Overhead Allocation for budgeted amount of \$507,300. The 2022-23 FY Budget amount was \$502,700.
- [13] CVC Replacement Fund collected \$75,000 in 2005, \$100,000 from 2006-2008, \$20,000 in 2009, \$40,000 from 2011-2021. The fund decreased by \$375,199.91 with the Gradall purchase in 2010 and no additional funds were collected that year. In 2022, \$40,000 was refunded to the Participants. The current fund total is \$419,800.09.
- [14] Proposed costs include anticipated and unanticipated repairs and improvements to the CVC and CVC structures as well as the Pioneer Inlet Improvements construction and the Pool 6 Meter Installation.
- [15] Proposed costs include the purchase of two new work trucks, one electrician work truck and one service truck.
- [16] Proposed costs include Uninterruptible Power Supply replacements and a solar battery system for the CVC open channel meter device.

* Approval of the 2024 O&M Budget authorizes expenditure, subject to statutory and regulatory restrictions, as outlined in the 2024 CVC Operation and Maintenance Budget Preliminary Expenditure summary.

**KERN COUNTY WATER AGENCY
CROSS VALLEY CANAL
PROPOSED 2024 Operations and Maintenance Budget
Allocation to CVC Participants Utilizing CVC Integrated Canal Capacities**

C.V.C.PARTICIPANTS	Integrated Canal Capacity (%) Percentages	2024 Integrated Canal Est. Annual Budget O&M Costs	Less 2024 O&M Budget Pioneer Inlet Total Costs ^[1]	2024 Integrated Canal Collected Annual O&M Costs	2024 Integrated Canal Estimated Quarterly O&M Costs	Extension Capacity (%) Percentages	2024 Extension Estimated Annual Budget O&M Costs	Less 2024 O&M Budget Pioneer Inlet Total Costs ^[1]	2024 Extension Estimated Collected Annual O&M Costs	2024 Extension Estimated Quarterly O&M Costs
FRESNO-TULARE GROUP										
Lower-Tule River I.D.	7.91%	\$ 578,395	\$ 194,016	\$ 384,379	\$ 96,095	0.00%	\$ -	\$ -	\$ -	\$ -
Pixley I.D.	7.91%	578,395	194,016	384,379	96,095	0.00%	-	-	-	-
County of Tulare	0.76%	55,573	18,641	36,931	9,233	0.00%	-	-	-	-
County of Fresno	0.76%	55,573	18,641	36,931	9,233	0.00%	-	-	-	-
Hills Valley I.D.	0.55%	40,217	13,490	26,727	6,682	0.00%	-	-	-	-
Tri-Valley W.D.	0.25%	18,281	6,132	12,149	3,037	0.00%	-	-	-	-
Sub-Total F-T Group	18.14%	1,326,433	444,938	881,495	220,374	0.00%	-	-	-	-
ARVIN-EDISON W.S.D.	0.93%	68,003	22,811	45,192	11,298	0.00%	-	-	-	-
KERN-TULARE W.D.	13.99%	1,022,977	343,147	679,830	169,958	0.00%	-	-	-	-
CAWELO W.D.	12.26%	896,476	300,713	595,762	148,941	50.66%	705,592	236,684	468,909	117,227
IMPROVEMENT DISTR.No.4	12.81%	936,693	314,204	622,489	155,622	49.34%	687,208	230,516	456,691	114,173
ROSEDALE-RIO BRAVO WSD	5.07%	370,729	124,357	246,372	61,593	0.00%	-	-	-	-
Sub-Total Existing Participants	63.20%	4,621,310	1,550,170	3,071,141	767,785	100.00%	1,392,800	467,200	925,600	231,400
KERN COUNTY WATER AGENCY	14.72%	1,076,356	361,052	715,304	178,826	0.00%	-	-	-	-
KERN DELTA	14.72%	1,076,356	361,052	715,304	178,826	0.00%	-	-	-	-
ARVIN-EDISON W.S.D.	7.36%	538,178	180,526	357,652	89,413	0.00%	-	-	-	-
TOTAL	100.00%	\$ 7,312,200	\$ 2,452,800	\$ 4,859,400	\$ 1,214,850	100.00%	\$ 1,392,800	\$ 467,200	\$ 925,600	\$ 231,400

[1] Funds for the Pioneer Inlet Improvement Project budgeted in the 2024 CVC O&M Budget will not be collected in CY 2024. Funds collected in the 2023 CVC O&M Budget will be rolled over into the 2024 CVC O&M Budget and not refunded.

**2024 CVC Operations and Maintenance Budget
Preliminary Expenditures**

	2024 Proposed Budget
5400 Structures and Improvements *	\$ 250,000
5401 Mobile Equipment *	\$ 65,000
5402 Electronic Equipment *	\$ 40,000
5403 Pumps and Motors *	\$ 325,000
5404 Chemical and Weed Control *	\$ 50,000
5589 Safety Equipment *	\$ 50,000
5502 Computer Supplies *	\$ 8,000
5550 Association and Professional Membership Fees *	\$ 15,000
5602 Consulting Engineers	
CVC Hydraulic Improvement Projects	
Pool No. 2 Phase No. 1 Liner Raising Project - Design *	\$ 15,000
Pool No. 2 Phase No. 2 Liner Raising Project - Design	80,000
Pool No. 3 Liner Raising Project - Design	80,000
Post-Expansion Study *	20,000
Pump Submergence and Canal Freeboard Study *	30,000
Pumping Plant 1A Back Siphoning Mitigation Initial Study	80,000
Projects	
Hageman Flyover Utility Conflict Relocation Project Design *	\$ 5,000
Pioneer Inlet Improvements - Design and Construction Management Services ^[1] *	270,000
Pool No. 6 Open Channel Meter - Design *	15,000
Pool No. 6 Junction Box Bypass Meter - Study *	25,000
Routine	
Arc Flash *	\$ 20,000
Consulting Engineers - Miscellaneous *	50,000
CVC Pool Level Circuit Survey *	90,000
CVC Pools 5-8 Invert Survey *	80,000
Electrical Engineering Services *	25,000
Pump Consultant *	25,000
Total	\$ 910,000
5604 Special Consultants	
Projects	
Pioneer Inlet Construction Materials Testing ^[2] *	\$ 30,000
Protective Relay Testing *	26,000
Pumping Plant Outage Mitigation - 'A' Pumping Plants *	60,000
Routine	
Afterbay Trash Rack Installation *	\$ 120,000
Biological Services *	11,000

* Approval of the 2024 O&M Budget authorizes expenditure, subject to statutory and regulatory restrictions.

[1] Recommended by the CVCAC on November 14, 2022 and approved by the Agency Board at the November 16, 2022 meeting.

[2] Contract executed based on the CVCAC recommendation and Agency Board approval of the 2023 CVC O&M Budget on November 14, 2022 and November 16, 2022, respectively.

**2024 CVC Operations and Maintenance Budget
Preliminary Expenditures**

	2024 Proposed Budget
5604 Special Consultants	
CVC Flow Meter Testing *	\$ 20,000
CVC Roof Maintenance and Inspection *	30,000
Database Consultant *	3,000
Safety/Emergency Response Planning *	10,000
SCADA Consultant Services *	60,000
Special Consultants - Miscellaneous *	20,000
Standby Emergency Electrical Services Contract *	20,000
<hr/> Total	<hr/> \$ 410,000
5720 Structures and Improvements	
Projects	
Pioneer Inlet Improvements Construction ^[1] *	\$ 2,620,000
Routine	
CVC Improvements *	\$ 50,000
Pool 6 Meter Installation *	20,000
<hr/> Total	<hr/> \$ 2,690,000
5730 Mobile Equipment	
Vehicles - Up to 3 ^[3,4] *	\$ 185,000
One 1 1/2-ton Service Vehicle ^[3,4] *	150,000
<hr/> Total	<hr/> \$ 335,000
5740 Electrical & Mechanical Equipment	
Projects	
Uninterruptible Power Supply Replacement *	\$ 200,000
Routine	
CVC Electrical and Mechanical Equipment *	\$ 50,000
CVC Meters *	50,000
<hr/> Total	<hr/> \$ 300,000

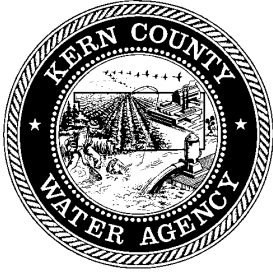
* Approval of the 2024 O&M Budget authorizes expenditure, subject to statutory and regulatory restrictions.

[1] Recommended by the CVCAC on November 14, 2022 and approved by the Agency Board at the November 16, 2022 meeting.

[2] Contract executed based on the CVCAC recommendation and Agency Board approval of the 2023 CVC O&M Budget on November 14, 2022 and November 16, 2022, respectively.

[3] Recommended by the CVCAC on September 21, 2022 and approved by the Agency Board at the September 22, 2022 meeting.

[4] Recommended by the CVCAC on January 25, 2023 and approved by the Agency Board at the January 26, 2023 meeting.



MEMORANDUM

20.2.1

TO: Cross Valley Canal Advisory Committee
Agenda Item No. 8a

FROM: Scott Chambless

DATE: November 13, 2023

SUBJECT: Recommendation to Execute Change Order No. 5 to Cross Valley Canal
Extension Lining Project – Pool No. 8 – Contract No. KCWA 2022-05

Issue:

Consider authorizing the execution of Change Order No. 5 to Cross Valley Canal Extension Lining Project – Pool No. 8 – Contract No. KCWA 2022-05.

Recommended Motion:

Recommend execution of Change Order No. 5 to Cross Valley Canal Extension Lining Project – Pool No. 8 – Contract No. KCWA 2022-05 in the amount of \$223,120 and for a contract time extension of 10 calendar days, subject to approval of General Counsel as to legal form, as outlined in the November 13, 2023 staff memorandum to the Cross Valley Canal Advisory Committee, Agenda Item No. 8a.

Discussion:

On November 16, 2022, the Kern County Water Agency (Agency) executed a contract with Floyd Johnston Construction Co., Inc. for the Cross Valley Canal Extension Lining Project – Pool No. 8 – Contract No. KCWA 2022-05.

Contract Change Order No. 5 extends the duration of the existing contract to account for the addition of installing an electrical conduit trench for River Turnout 4. Additional costs include bid quantity adjustments for import borrow material, dewatering days and the addition of installing an electrical conduit trench for River Turnout 4.

The proposed contract change order is provided as Attachment 1. Agency staff is recommending authorization to execute the change order for an amount not to exceed \$223,120 and for a contract time extension of 10 calendar days. Money for additional costs will be expended from the Cross Valley Canal (CVC) Operations Fund and reimbursed by Improvement District No. 4.

**Contract Change Order No. 5
Kern County Water Agency
Cross Valley Canal Extension Lining Project - Pool No. 8 - KCWA 2022-05**

Contractor: Floyd Johnston Construction Co., Inc.

Engineer: Tom McCarthy

CM: Kramer Walker (NV5)

CO No: 5

	Amount, \$	Days
Original Contract Amount	\$ 5,457,713.00	190
Previously Approved Changes	\$ 333,402.42	123
Current Contract Amount	\$ 5,791,115.42	313
This Change Amount	\$ 223,120.00	10
Revised Contract Amount	\$ 6,014,235.42	323

This change order covers changes to the subject contract as described herein. The Contractor shall construct, furnish equipment and materials, and perform all work as necessary or required to complete the Change Order items for the lump sum price agreed upon between the Contractor and the Kern County Water Agency, otherwise referred to as the Owner.

PCO #	Description of Changes	Increase in Contract Amount \$	Decrease in Contract Amount \$	Contract Time Elapsed
	Electrical Trench for River Turnout No. 4 Justification: The Agency requested a quote from the Contractor to install 580-ft of electrical conduit and 4 pull boxes from River Turnout 4 to the CVC right-of-way at the Calloway Canal Siphon inlet as part of the work to bring power to the turnout per CVC standards. Work associated with the CCO is for all labor, equipment and materials required to complete the work. Cost is paid per submitted quote from September 15, 2023. Completion date is extended 10 days from 313 calendar days to 323 calendar days, to December 5, 2023. Substantial completion date remains October 26, 2023.	\$ 39,160.00		10
	Dewatering Days Bid Quantity Adjustment Justification: The original bid had a bid quantity of 90 Days for the project. This increase in cost covers an additional 32 days through October 31, 2023. This item is paid per the unit bid price.	\$ 14,560.00		0
	Import Borrow Bid Quantity Adjustment Justification: The original bid had a bid quantity of 5,341 cubic yards of import borrow for the project. This increase covers an additional 2,800 cubic yards that has been imported to the site through October 31, 2023. Final quantity of import borrow material shall be verified by a final topographic survey of the borrow site. This item is paid per the unit bid price.	\$ 169,400.00		0
Subtotal		\$ 223,120.00	\$ -	10
Net Change in Contract Amount		\$ 223,120.00		10

The Contract Price is modified by the sum of \$223,120.00 and Contract Time is modified by 10 calendar days.

By signing this Change Order, the Contractor: (1) agrees to the foregoing modifications to the Contract Price and Contract Time; (2) agrees that such modifications are inclusive of all labor, services, material, equipment and time necessary to complete the added Work identified under the Description of Changes and/or represents an appropriate reduction in the Contract Price and/or Contract Time for the deleted Work identified under the Description of Changes; and (3) agrees that Contractor shall not be entitled to any further modifications to the Contract Time or Contract Price except as provided in this Change Order for the added and/or deleted Work identified under the Description of Changes. This Change Order amends the Contract and, except as provided in this Change Order, all other provisions of the Contract and Contract Documents continue in full force and effect. This Change Order is effective when signed by the representative(s) of the Agency identified below.

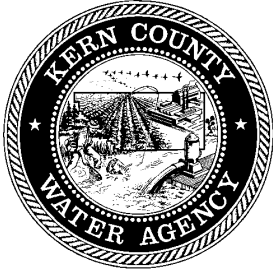
Recommended: _____ /KCWA Inspector (Scott Chambless)
 (Signature) _____ (Date)

DRAFT

Recommended: _____ /NV5 CM (Kramer Walker)
(Signature) (Date)

Accepted: _____ /Contractor (Floyd Johnston Construction Co., Inc.)
(Signature) (Date)

Approved: _____ /KCWA Engineer (Tom McCarthy)
(Signature) (Date)



MEMORANDUM

20.2.1

TO: Cross Valley Canal Advisory Committee
Agenda Item No. 8b

FROM: Scott Chambless

DATE: November 13, 2023

SUBJECT: Recommendation to Execute Amendment No. 1 to the Kern County Water Agency Agreement for a Construction Management Services Consultant for the Cross Valley Canal Extension Lining Project – Pool No. 8 – Contract No. KCWA 2022-05

Issue:

Consider authorizing the Water Resources Manager to execute Amendment No. 1 to the Kern County Water Agency Agreement for a Construction Management Services Consultant for the Cross Valley Canal Extension Lining Project – Pool No. 8 – Contract No. KCWA 2022-05.

Recommended Motion:

Recommend authorizing the Water Resources Manager to execute Amendment No. 1 to the Kern County Water Agency Agreement for Professional Consulting Services with NV5 for the Cross Valley Canal Extension Lining Project – Pool No. 8 – Contract No. KCWA 2022-05 amending the contract termination term to March 31, 2024 and increase the expenditure limit for an amount not to exceed \$190,000, subject to approval of General Counsel as to legal form, as outlined in the November 13, 2023 staff memorandum to the Cross Valley Canal Advisory Committee, Agenda Item No. 8b.

Discussion:

On November 16, 2022, the Kern County Water Agency (Agency) Board of Directors authorized the Engineering and Groundwater Services Manager to retain NV5 to provide construction management services as part of the construction of facilities and associated with the Cross Valley Canal Extension Lining Project – Pool No. 8 – Contract No. KCWA 2022-05 (Project).

The agreement with NV5 expires on December 31, 2023 and the Project had delays due to high flows in the Kern River and extended earthwork activities due to unsuitable material and shallow groundwater. The Project delays and extended earthwork requires additional inspection days and management oversight; therefore, Agency staff recommends that the Water Resources Manager be authorized to execute Amendment No. 1 to the Kern County Water Agency Agreement for Professional Consulting Services with NV5 amending the contract termination term to March 31, 2024 and to increase the expenditure limit by \$190,000, bringing the total amount of compensation to \$640,000.

Cross Valley Canal Advisory Committee
Agenda Item No. 8b
November 13, 2023
Page 2 of 2

Amendment No. 1 is provided as Attachment 1. Money for additional consulting services related to Amendment No. 1 will be expended from the Cross Valley Canal (CVC) Operations Fund and reimbursed by Improvement District No. 4.

**AMENDMENT NO. 1 to
KERN COUNTY WATER AGENCY
AGREEMENT
FOR
PROFESSIONAL CONSULTING SERVICES**

This Amendment No. 1 is made this 15th day of November, 2023, by and between the Kern County Water Agency, a political subdivision of the State of California, hereinafter referred to as “Agency”, and NV5, hereinafter referred to as “Consultant”.

WITNESSETH:

WHEREAS, the Agency and Consultant entered into an agreement for construction management services dated November 16, 2022; and

WHEREAS, the Agency continues to require construction management services for the Cross Valley Canal Extension Lining Project – Pool No. 8 Project; and

WHEREAS, the Agency and Consultant desire to increase the compensation and extend the time for such professional services; and

NOW, THEREFORE, in consideration of the covenants and conditions herein contained, the parties hereto agree as follows:

- I. Article III. A. of the Agreement with Kern County Water Agency for Professional Consulting Services dated November 16, 2022 is hereby amended to extend the termination date to March 31, 2024.
- II. Article IV. of the Agreement with Kern County Water Agency for Professional Consulting Services dated November 16, 2022 is hereby amended to increase Consultant’s compensation by \$190,000, thereby increasing the total amount of compensation under the Agreement to \$640,000.
- III. All other provisions of the Kern County Water Agency Agreement for Professional Consulting Services dated November 16, 2022 shall remain in full force and effect.

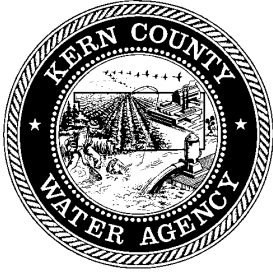
IN WITNESS WHEREOF, the Agency and Consultant have executed this Amendment No. 1 on the day and year first herein above set forth.

KERN COUNTY WATER AGENCY

CONSULTANT

By: _____
Water Resources Manager

By: _____
NV5



MEMORANDUM

20.2.1

TO: Cross Valley Canal Advisory Committee
Agenda Item No. 8c

FROM: Scott Chambless

DATE: November 13, 2023

SUBJECT: Recommendation to Execute Amendment No. 1 to the Kern County Water Agency Agreement for a Geotechnical Consultant for the Cross Valley Canal Extension Lining Project – Pool No. 8 – Contract No. KCWA 2022-05

Issue:

Consider authorizing the Water Resources Manager to execute Amendment No. 1 to the Kern County Water Agency Agreement for a Geotechnical Consultant for the Cross Valley Canal Extension Lining Project – Pool No. 8 – Contract No. KCWA 2022-05.

Recommended Motion:

Recommend authorizing the Water Resources Manager to execute Amendment No. 1 to the Kern County Water Agency Agreement for Professional Consulting Services with Soils Engineering, Inc. for geotechnical services, amending the contract termination term to March 31, 2024 and increase the expenditure limit for an amount not to exceed \$75,000, subject to approval of General Counsel as to legal form, as outlined in the November 13, 2023, staff memorandum to the Cross Valley Canal Advisory Committee, Agenda Item No. 8c.

Discussion:

On November 16, 2022, Kern County Water Agency (Agency) Board of Directors authorized the Engineering and Groundwater Services Manager to retain Soils Engineering, Inc. (SEI) to perform geotechnical services for the Cross Valley Canal Extension Lining Project – Pool No. 8 – Contract No. KCWA 2022-05 (Project).

The agreement with SEI expires on December 31, 2023 and the Project had delays due to high flows in the Kern River and extended earthwork activities due to unsuitable material and shallow groundwater. The Project delays and extended earthwork requires additional inspection days and material testing; therefore, Agency staff recommends that the Water Resources Manager be authorized to execute Amendment No. 1 to the Kern County Water Agency Agreement for Professional Consulting Services with Soils Engineering, Inc. amending the contract termination date to March 31, 2024 and to increase the expenditure limit by \$75,000, bringing the total amount of compensation to \$190,000.

Cross Valley Canal Advisory Committee
Agenda Item No. 8c
November 13, 2023
Page 2 of 2

Amendment No. 1 is provided as Attachment 1. Money for additional consulting services related to Amendment No. 1 will be expended from the Cross Valley Canal (CVC) Operations Fund and reimbursed by Improvement District No. 4.

**AMENDMENT NO. 1 to
KERN COUNTY WATER AGENCY
AGREEMENT
FOR
PROFESSIONAL CONSULTING SERVICES**

This Amendment No. 1 is made this 15th day of November, 2023, by and between the Kern County Water Agency, a political subdivision of the State of California, hereinafter referred to as “Agency”, and Soils Engineering, Inc., hereinafter referred to as “Consultant”.

WITNESSETH:

WHEREAS, the Agency and Consultant entered into an agreement for professional services dated November 16, 2022; and

WHEREAS, the Agency continues to require geotechnical services for the Cross Valley Canal Extension Lining Project – Pool No. 8; and

WHEREAS, the Consultant has provided a scope of additional work as Exhibit B; and

WHEREAS, the Agency and Consultant desire to extend the time and increase the compensation for such professional services; and

NOW, THEREFORE, in consideration of the covenants and conditions herein contained, the parties hereto agree as follows:

- I. Article III. A. of the Agreement with Kern County Water Agency for Professional Consulting Services dated November 16, 2022 is hereby amended to extend the termination date to March 31, 2024.
- II. Article IV. of the Agreement with Kern County Water Agency for Professional Consulting Services dated November 16, 2022 is hereby amended to increase Consultant’s compensation by \$75,000, thereby increasing the total amount of compensation under the Agreement to \$190,000.
- III. The additional work necessary is identified in the scope of work provided as Exhibit B.
- II. All other provisions of the Kern County Water Agency Agreement for Professional Consulting Services dated November 16, 2022 shall remain in full force and effect.

IN WITNESS WHEREOF, the Agency and Consultant have executed this Amendment No. 1 on the day and year first herein above set forth.

KERN COUNTY WATER AGENCY

CONSULTANT

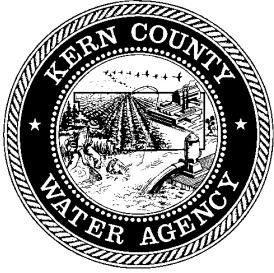
By: _____
Water Resources Manager

By: _____
Soils Engineering, Inc.

EXHIBIT B
(Scope of Work)

The Consultant will perform the following geotechnical services for the Cross Valley Canal Extension Lining Project – Pool No. 8 Project:

1. Soils and grading work
 - a. Up to 48 additional site days of mass grading compaction testing
 - b. Up to 20 additional site visits of miscellaneous compaction testing
 - c. Up to 6 additional qualification tests
 - d. Up to 40 additional maximum densities tests using ASTM D1557 Method ‘A’ or ‘B’
 - e. Up to 2 additional maximum density tests using ASTM D1557 Method ‘C’
2. Project management work
 - a. Up to 10 additional project reports
 - b. Up to 10 additional hours of project management by the project manager
 - c. Up to 10 additional hours of geotechnical engineering review



MEMORANDUM

20.2.1

TO: Cross Valley Canal Committee
Agenda Item No. 8d

FROM: Scott Chambless

DATE: November 13, 2023

SUBJECT: Recommendation to Execute Amendment No. 1 to the Kern County Water Agency Agreement for an Engineering Consultant for the Cross Valley Canal Extension Lining Project – Pool No. 8 – Contract No. KCWA 2022-05

Issue:

Consider authorizing the Water Resources Manager to execute Amendment No. 1 to the Kern County Water Agency Agreement for an Engineering Consultant for the Cross Valley Canal Extension Lining Project – Pool No. 8 – Contract No. KCWA 2022-05.

Recommended Motion:

Recommend authorizing the Water Resources Manager to execute Amendment No. 1 to the Kern County Water Agency Agreement for Professional Consulting Services with Provost and Pritchard Consulting Group, for civil engineering services amending the contract termination term to June 30, 2024, subject to approval of General Counsel as to legal form, as outlined in the November 13, 2023, staff memorandum to the Cross Valley Canal Advisory Committee, Agenda Item No. 8d.

Discussion:

On May 26, 2022, Kern County Water Agency (Agency) Board of Directors authorized the Engineering and Groundwater Services Manager to retain Provost and Pritchard Consulting Group (Provost) to perform engineering consulting services for the Cross Valley Canal Extension Lining Project – Pool No. 8 – Contract No. KCWA 2022-05 (Project).

The agreement with Provost expires on December 31, 2023 and the Project had delays due to high flows in the Kern River and extended earthwork activities due to unsuitable material and shallow groundwater. The Project delays and extended earthwork requires additional time for engineering consulting services; therefore, Agency staff recommends that the Water Resources Manager be authorized to execute Amendment No. 1 to the Kern County Water Agency Agreement for Professional Consulting Services with Provost and Pritchard Consulting Group amending the contract termination term to June 30, 2024. The amendment is a no cost time extension. Amendment No. 1 is provided as Attachment 1.

**AMENDMENT NO. 1 to
KERN COUNTY WATER AGENCY
AGREEMENT
FOR
PROFESSIONAL CONSULTING SERVICES**

This Amendment No. 1 is made this 15th day of November, 2023, by and between the Kern County Water Agency, a political subdivision of the State of California, hereinafter referred to as “Agency”, and Provost and Pritchard Consulting Group, hereinafter referred to as “Consultant”.

WITNESSETH:

WHEREAS, the Agency and Consultant entered into an agreement for professional services dated May 26, 2022; and

WHEREAS, the Agency continues to require civil engineering services for the Cross Valley Canal Extension Lining Project, Pool No. 8; and

WHEREAS, the Agency and Consultant desire to extend the time for such professional services; and

NOW, THEREFORE, in consideration of the covenants and conditions herein contained, the parties hereto agree as follows:

- I. Article III. A. of the Agreement with Kern County Water Agency for Professional Consulting Services dated May 26, 2022 is hereby amended to extend the termination date to June 30, 2024.
- II. All other provisions of the Kern County Water Agency Agreement for Professional Consulting Services dated May 26, 2022 shall remain in full force and effect.

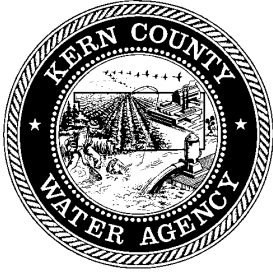
IN WITNESS WHEREOF, the Agency and Consultant have executed this Amendment No. 1 on the day and year first herein above set forth.

KERN COUNTY WATER AGENCY

CONSULTANT

By: _____
Water Resources Manager

By: _____
Provost and Pritchard Consulting Group



MEMORANDUM

20.2.1

TO: Cross Valley Canal Advisory Committee
Agenda Item No. 9a

FROM: Scott Chambless

DATE: November 13, 2023

SUBJECT: Recommendation to Execute Change Order No. 2 to Cross Valley Canal Pioneer Inlet Improvements Project – Contract No. KCWA 2022-02

Issue:

Consider authorizing the execution of Change Order No. 2 to Cross Valley Canal Pioneer Inlet Improvements Project – Contract No. KCWA 2022-02.

Recommended Motion:

Recommend execution of Change Order No. 2 to Cross Valley Canal Pioneer Inlet Improvements Project – Contract No. KCWA 2022-02 in the amount of \$15,763.53 and for a contract time extension of 92 calendar days, subject to approval of General Counsel as to legal form, as outlined in the November 13, 2023 staff memorandum to the Cross Valley Canal Advisory Committee, Agenda Item No. 9a.

Discussion:

On December 5, 2022, the Kern County Water Agency (Agency) executed a contract with Nicholas Construction, Inc. for the Cross Valley Canal Pioneer Inlet Improvements Project – Contract No. KCWA 2022-02.

Contract Change Order No. 2 extends the duration of the existing contract to account for placing the project on hold due to high flows in the Kern River. Additional cost is for the restoration of the Improvement District No. 1 levee.

The proposed contract change order is provided as Attachment 1. Agency staff is recommending authorization to execute the change order for an amount not to exceed \$15,763.53 and for a contract time extension of 92 calendar days. Money for this additional cost will be expended from the Cross Valley Canal (CVC) Operations Fund and will be paid by the Integrated Canal Participants.

**Contract Change Order No. 2
Kern County Water Agency
Cross Valley Canal Pioneer Inlet Improvements Project - KCWA 2022-02**

Contractor: Nicholas Construction

Engineer: Tom McCarthy

CM: Arturo Infante (V&A)

CO No: 2

	Amount, \$	Days
Original Contract Amount	\$ 2,379,244.00	330
Previously Approved Changes	\$ 47,669.71	0
Current Contract Amount	\$ 2,426,913.71	330
This Change Amount	\$ 15,763.53	92
Revised Contract Amount	\$ 2,442,677.24	422

This change order covers changes to the subject contract as described herein. The Contractor shall construct, furnish equipment and materials, and perform all work as necessary or required to complete the Change Order items for the lump sum price agreed upon between the Contractor and the Kern County Water Agency, otherwise referred to as the Owner.

PCO #	Description of Changes	Increase in Contract Amount \$	Decrease in Contract Amount \$	Contract Time Elapsed
2	ID1 Levee Restoration Justification: Due to high flows in the Kern River, Agency elected to place the project on hold and have the Contractor restore the Improvement District No. 1 levee. The Contractor constructed a benched keyway to receive fill material and compact soil in place. Work associated with this CCO is for all labor, equipment and materials required to restore the levee. Cost is paid through force account.	\$ 15,763.53		0
	Time Extension for Emergency Use of CVC Justification: Due to high flows in Kern River, Agency elected to place the project on hold and have the Pioneer Inlet returned to operation to deliver water to the CVC. Construction is expected to be resume in Spring 2024. This is an extension for time only.	\$ -		92
Subtotal		\$ 15,763.53	\$ -	92
Net Change in Contract Amount		\$ 15,763.53		92

The Contract Price is modified by the sum of \$15,763.53 and Contract Time is modified by 92 calendar days.

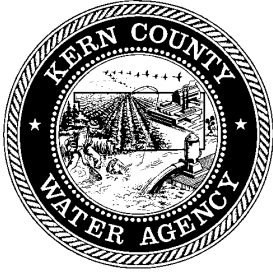
By signing this Change Order, the Contractor: (1) agrees to the foregoing modifications to the Contract Price and Contract Time; (2) agrees that such modifications are inclusive of all labor, services, material, equipment and time necessary to complete the added Work identified under the Description of Changes and/or represents an appropriate reduction in the Contract Price and/or Contract Time for the deleted Work identified under the Description of Changes; and (3) agrees that Contractor shall not be entitled to any further modifications to the Contract Time or Contract Price except as provided in this Change Order for the added and/or deleted Work identified under the Description of Changes. This Change Order amends the Contract and, except as provided in this Change Order, all other provisions of the Contract and Contract Documents continue in full force and effect. This Change Order is effective when signed by the representative(s) of the Agency identified below.

Recommended: _____ /Contractor (Nicholas Construction)
(Signature) (Date)

Accepted: _____ /V&A Inspector (Arturo Infante)
(Signature) (Date)

Accepted: _____ /KCWA Engineer (Scott Chambless)
(Signature) (Date)

Approved: _____ /KCWA Engineer (Tom McCarthy)
(Signature) (Date)



MEMORANDUM

20.2.1

TO: Cross Valley Canal Advisory Committee
Agenda Item No. 9b

FROM: Scott Chambless

DATE: November 13, 2023

SUBJECT: Recommendation to Execute Amendment No. 1 to the Kern County Water Agency Agreement for a Construction Management Services Consultant for the Cross Valley Canal Pioneer Inlet Improvements Project – Contract No. KCWA 2022-02

Issue:

Consider authorizing the Water Resources Manager to execute Amendment No. 1 to the Kern County Water Agency Agreement for a Construction Management Services Consultant for the Cross Valley Canal Pioneer Inlet Improvements Project – Contract No. KCWA 2022-02.

Recommended Motion:

Recommend authorizing the Water Resources Manager to execute Amendment No. 1 to the Kern County Water Agency Agreement for Professional Consulting Services with V&A, Inc. for the Cross Valley Canal Pioneer Inlet Improvements Project – Contract No. KCWA 2022-02 amending the contract termination term to February 29, 2024, subject to approval of General Counsel as to legal form, as outlined in the November 13, 2023 staff memorandum to the Cross Valley Canal Advisory Committee, Agenda Item No. 9b.

Discussion:

On November 16, 2022, the Kern County Water Agency (Agency) Board of Directors authorized the Engineering and Groundwater Services Manager to retain V&A, Inc. to provide construction management services for the Cross Valley Canal Pioneer Inlet Improvements Project – Contract No. KCWA 2022-02 (Project).

The Agreement with V&A, Inc. expires on December 31, 2023, and the Project has had delays due to high flows in the Kern River; therefore, Agency staff recommends that the Water Resources Manager be authorized to execute Amendment No. 1 to the Kern County Water Agency Agreement for Professional Consulting Services with V&A, Inc. amending the contract termination term to February 29, 2024. The amendment is a no cost time extension. Amendment No. 1 is provided as Attachment 1.

**AMENDMENT NO. 1 to
KERN COUNTY WATER AGENCY
AGREEMENT
FOR
PROFESSIONAL CONSULTING SERVICES**

This Amendment No. 1 is made this 15th day of November, 2023, by and between the Kern County Water Agency, a political subdivision of the State of California, hereinafter referred to as “Agency”, and V&A, Inc., hereinafter referred to as “Consultant”.

WITNESSETH:

WHEREAS, the Agency and Consultant entered into an agreement for professional services dated November 16, 2022; and

WHEREAS, the Agency requires additional construction management services for the Cross Valley Canal Pioneer Inlet Improvement Project; and

WHEREAS, the Agency and Consultant desire to extend the time for such professional services; and

NOW, THEREFORE, in consideration of the covenants and conditions herein contained, the parties hereto agree as follows:

- I. Article III. A. of the Agreement with Kern County Water Agency for Professional Consulting Services dated November 16, 2022 is hereby amended to extend the termination date to February 29, 2024.
- II. All other provisions of the Kern County Water Agency Agreement for Professional Consulting Services dated November 16, 2022 shall remain in full force and effect.

IN WITNESS WHEREOF, the Agency and Consultant have executed this Amendment No. 1 on the day and year first herein above set forth.

KERN COUNTY WATER AGENCY

CONSULTANT

By: _____
Water Resources Manager

By: _____
V&A, Inc.

TABLE 1

**Pioneer Project
2024 Budget
Final**

	2023 Budget	Actual 8/31/2023	Anticipated 12/31/2023	Total 2023 Expense	Amount Remaining	2024 Budget
Administration (Table 2).....	\$ 816,400	\$ 199,800	\$ 187,300	\$ 387,100	\$ 429,300	\$ 1,022,900
Recharge O&M (Table 3).....	231,000	8,000	3,900	11,900	219,100	358,000
Recovery O&M (Table 4).....	464,900	293,800	63,200	357,000	107,900	624,900
Subtotal	1,512,300	501,600	254,400	756,000	756,300	2,005,800
Replacement - Recharge Facilities (Table 5).....	990,000	17,300	8,800	26,100	963,900	3,558,700
Capital - Recharge Facilities (Table 6).....	375,000	9,000	34,700	43,700	331,300	820,600
Capital - Recovery Facilities (Table 7).....	542,000	100	-	100	541,900	12,000
Subtotal	1,907,000	26,400	43,500	69,900	1,837,100	4,391,300
Total.....	\$ 3,419,300	\$ 528,000	\$ 297,900	\$ 825,900	\$ 2,593,400	\$ 6,397,100

TABLE 2

**Pioneer Project
2024 Budget
Administration
Final**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Activity	Description	2023 Budget	Actual 8/31/2023	Anticipated 12/31/2023	Total 2023 Expense	Amount Remaining	2024 Budget
1. Administer leases, easements and other land use requests with non-tenants	Agency Staff	\$ 1,000	\$ -	\$ -	\$ -	\$ 1,000	\$ 1,000
2. Administration of storage accounts	Agency Staff	10,000	7,800	3,900	11,700	(1,700)	10,000
3. Prepare annual budget, collect fees, association fees and attend meetings	Agency Staff	75,000	60,100	27,900	88,000	(13,000)	75,000
4. Measure water levels in non-recharge and non-recovery years, twice per year	Agency Staff	2,200	-	-	-	2,200	2,200
5. Groundwater quality sampling and evaluation	Agency Staff	1,300	-	-	-	1,300	1,300
	Contract Services	1,000	-	-	-	1,000	1,000
Subtotal		2,300	-	-	-	2,300	2,300
6. Liability/property insurance		7,000	600	-	600	6,400	7,000
7. Land maintenance ^[1]	Contract Services	95,000	-	-	-	95,000	129,300
8. Safety coordinator	Consultant	6,000	-	-	-	6,000	6,000
9. Pioneer survey of record ^[2]	Consultant	65,000	3,900	-	3,900	61,100	62,000
10. GSA ^[3]	Agency Staff	75,000	60,900	30,500	91,400	(16,400)	125,000
	Consultant	100,000	13,000	36,500	49,500	50,500	150,000
	Basin Coordination Fees	125,000	26,900	73,500	100,400	24,600	200,000
Subtotal		300,000	100,800	140,500	241,300	58,700	475,000
11. Property fencing - bike path	Agency Staff	10,000	-	-	-	10,000	22,500
	Consultant	40,000	-	-	-	40,000	46,000
	Contract Services ^[4]	155,300	-	-	-	155,300	178,600
Subtotal		205,300	-	-	-	205,300	247,100
12. Aerial Photogrammetry	Consultant	47,600	26,600	15,000	41,600	6,000	6,000
Total		\$ 816,400	\$ 199,800	\$ 187,300	\$ 387,100	\$ 429,300	\$ 1,022,900

[1] Includes funds to mow 1/3 of Pioneer every year. An additional \$20,000 is included for tree removal in 2024.

[2] Remainder of South Pioneer to be surveyed in 2024 given recharge operations in 2023.

[3] SGMA Costs.

[4] Assumes \$15/foot of 5-strand barbed wire with seven access gates (for a total of 9,000 feet). A 15 percent contingency is included for 2024.

TABLE 3

**Pioneer Project
2024 Budget
Recharge O&M
Final**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Activity	Description	2023 Budget	Actual 8/31/2023	Anticipated 12/31/2023	Total 2023 Expense	Amount Remaining	2024 Budget
1. Maintain tables, billing, budget admin., etc.	Agency Staff	\$ 10,000	\$ 800	\$ 400	\$ 1,200	\$ 8,800	\$ 10,000
2. Maintain and repair levees as needed ^[1]	Agency Staff	4,000	-	-	-	4,000	4,000
	Contract Services	50,000	-	-	-	50,000	50,000
	Subtotal	54,000	-	-	-	54,000	54,000
3. Maintain and repair roads as needed	Agency Staff	5,000	-	-	-	5,000	5,000
	Contract Services	1,000	-	-	-	1,000	1,000
	Subtotal	6,000	-	-	-	6,000	6,000
4. Maintain and repair canals and structures as needed	Agency Staff	6,000	-	-	-	6,000	6,000
	Contract Services ^[2]	85,000	-	-	-	85,000	235,000
	Subtotal	91,000	-	-	-	91,000	241,000
5. Section 4 pump maintenance as needed	Agency Staff	1,000	-	-	-	1,000	1,000
	Contract Services	30,000	-	-	-	30,000	30,000
	Subtotal	31,000	-	-	-	31,000	31,000
6. Power stand-by costs for Section 4 pump		3,000	200	-	200	2,800	3,000
7. Recharge database/iPad application support ^[3]	Consultant	4,000	-	-	-	4,000	4,000
8. Weir board repairs	Purchase	5,000	-	-	-	5,000	5,000
9. Staff gauges	Purchase	4,000	-	-	-	4,000	4,000
10. Levee mitigation feasibility study ^[4]	Consultant	23,000	7,000	3,500	10,500	12,500	-
Total		\$ 231,000	\$ 8,000	\$ 3,900	\$ 11,900	\$ 219,100	\$ 358,000

[1] Annual levee inspection, maintenance and restoration program.

[2] Dredging of James Canal will be evaluated in 2024. Includes funds for maintenance of interbasin structures.

[3] Funds for database development and report production. Additional funds possibly needed for iOS updates.

[4] Mitigation feasibility study and geotechnical work on North Pioneer levees.

TABLE 4

**Pioneer Project
2024 Budget
Recovery O&M
Final**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Activity	Description	2023 Budget	Actual 8/31/2023	Anticipated 12/31/2023	Total 2023 Expense	Amount Remaining	2024 Budget
1. Maintain tables, pump-in program, PG&E	Agency Staff	\$ 3,100	\$ 3,100	\$ 1,600	\$ 4,700	\$ (1,600)	\$ 3,100
2. Maintain and repair electric panels, flow meters, pumps and pipelines as needed	Agency Staff Parts/Equipment ^[1]	16,000 45,000	46,000 32,400	23,000 16,200	69,000 48,600	(53,000) (3,600)	16,000 100,000
Subtotal		61,000	78,400	39,200	117,600	(56,600)	116,000
3. Control rodents	Agency Staff Materials	700 100	700 -	400 -	1,100 -	(400) 100	700 100
Subtotal		800	700	400	1,100	(300)	800
4. Control weeds at well sites	Agency Staff Materials	3,600 900	3,600 -	1,800 -	5,400 -	(1,800) 900	3,600 900
Subtotal		4,500	3,600	1,800	5,400	(900)	4,500
5. Power stand-by costs for recovery facilities		64,000	14,000	7,000	21,000	43,000	64,000
6. Well efficiency testing	Agency Staff Contract Services	3,600 3,000	3,600 -	1,800 -	5,400 -	(1,800) 3,000	3,600 3,000
Subtotal		6,600	3,600	1,800	5,400	1,200	6,600
7. Administrative Costs	Agency Staff	-	2,600	1,300	3,900	(3,900)	4,000
8. Water analyses for pump-in program ^[2]	Contract Services	8,000	400	200	600	7,400	9,000
9. PG&E demand charges ^[3]	PG&E	42,000	-	-	-	42,000	42,000
10. AECA membership	Membership	4,000	-	-	-	4,000	4,000
11. Property insurance	Insurance	12,000	4,300	2,200	6,500	5,500	12,000
12. Safety training	Agency Staff	1,000	1,100	600	1,700	(700)	1,000
13. Recovery database/iPad application support ^[4]	Consultant	4,000	1,900	1,000	2,900	1,100	4,000
14. Electric motor preventative maintenance	Agency Staff	6,300	6,300	3,200	9,500	(3,200)	6,300
15. Well discharge sand production testing	Contract Services	7,200	-	-	-	7,200	7,200
16. Mechanical maintenance	Agency Staff	5,800	5,800	2,900	8,700	(2,900)	5,800
17. Arc Flash update ^[5]	Contract Services	14,600	-	-	-	14,600	14,600
18. Air release valves	Purchase	20,000	-	-	-	20,000	20,000
19. Maintenance based on analyses ^[6]	Contract Services	200,000	168,000	-	168,000	32,000	300,000
Total		\$ 464,900	\$ 293,800	\$ 63,200	\$ 357,000	\$ 107,900	\$ 624,900

[1] Includes motor control center breaker modifications, panel replacements, electrical repairs and purchase of 5 breakers and 5 starters.

[2] Budget includes sampling 1/3 of wells every three years.

[3] Budget assumes starting all 38 wells during winter rates.

[4] Monthly application support from Avadine and additional funds for database development and report production.

[5] Next Arc Flash update needed in 2028.

[6] Two wells are planned for pump maintenance in 2024.

TABLE 5

**Pioneer Project
2024 Budget
Replacement - Recharge Facilities
Final**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Activity	Description	2023 Budget	Actual 8/31/2023	Anticipated 12/31/2023	Total 2023 Expense	Amount Remaining	2024 Budget
1. Basin #9	Agency Staff	\$ 50,000	\$ 3,700	\$ 1,900	\$ 5,600	\$ 44,400	37,800
	Consultant ^[1]	52,000	2,300	1,200	3,500	48,500	52,000
	Construction	302,000	-	-	-	302,000	326,000
Subtotal		404,000	6,000	3,100	9,100	394,900	415,800
2. Nord Siphon Turnout	Agency Staff	16,000	11,300	5,700	17,000	(1,000)	166,000
	Consultant ^[2]	160,000	-	-	-	160,000	160,000
	Construction	-	-	-	-	-	1,500,000
Subtotal		176,000	11,300	5,700	17,000	159,000	1,826,000
3. Spare Section 4 Pump ^[3]	Agency Staff	5,000	-	-	-	5,000	20,300
	Consultant	40,000	-	-	-	40,000	40,000
	Purchase	365,000	-	-	-	365,000	365,000
Subtotal		410,000	-	-	-	410,000	425,300
4. North Pioneer West Basin Levee Repair	Agency Staff		-	-	-	-	65,600
	Consultant		-	-	-	-	64,000
	Construction		-	-	-	-	592,000
Subtotal		-	-	-	-	-	721,600
5. Maintain and repair canals and structures as needed	Contract Services ^[4]	-	-	-	-	-	170,000
Total		\$ 990,000	\$ 17,300	\$ 8,800	\$ 26,100	\$ 963,900	\$ 3,558,700

[1] Includes \$19,000 for materials testing and \$33,000 for construction management services of the replacement of Basin 9 turnout (225 cfs). Construction is subject to revision of the Recharge Plan.

[2] Includes \$100,000 for design and \$60,00 for materials testing.

[3] Delivery will take approximately one year from date of purchase.

[4] Includes funds for replacement of interbasin structures.

TABLE 6

**Pioneer Project
2024 Budget
Capital Budget - Recharge Facilities
Final**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Activity	Description	2023 Budget	Actual 8/31/2023	Anticipated 12/31/2023	Total 2023 Expense	Amount Remaining	2024 Budget
1. North Pioneer Section 4 East Basin Turnout	Agency Staff	\$ 10,000	\$ 1,300	\$ 700	\$ 2,000	\$ 8,000	12,500
	Consultant ^[1]	24,000	2,300	1,200	3,500	20,500	25,000
	Construction	100,000	-	-	-	100,000	100,000
Subtotal		134,000	3,600	1,900	5,500	128,500	137,500
2. McAllister/Central and South Pioneer Delivery Improvements	Agency Staff	4,000	\$ 1,500	\$ 800	\$ 2,300	1,700	4,000
	Consultant ^[2]	40,000	-	30,000	30,000	10,000	40,000
	Construction	-	-	-	-	-	-
Subtotal		44,000	1,500	30,800	32,300	11,700	44,000
3. Basin 11/North Pioneer Turnout	Consultant	-	-	-	-	-	-
4. North Pioneer West Basin Weir Plan	Agency Staff	18,000	3,900	2,000	5,900	12,100	58,100
	Consultant ^[3]	26,000	-	-	-	26,000	21,000
	Construction	153,000	-	-	-	153,000	560,000
Subtotal		197,000	3,900	2,000	5,900	191,100	639,100
Total		\$ 375,000	\$ 9,000	\$ 34,700	\$ 43,700	\$ 331,300	\$ 820,600

[1] 100 cfs turnout from Section 4 Pond 3 to East Basin. Includes \$15,000 for materials testing and \$10,000 for construction management services.

[2] Includes \$30,000 for design and \$10,000 for geotechnical work. Construction estimated in 2024; costs to be determined.

[3] Includes \$21,000 for design and construction management services.

TABLE 7

**Pioneer Project
2024 Budget
Capital Budget - Recovery Facilities
Final**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Activity	Description	2023 Budget	Actual 8/31/2023	Anticipated 12/31/2023	Total 2023 Expense	Amount Remaining	2024 Budget
1. Groundwater transducer	Purchase	\$ 5,000	\$ -	\$ -	\$ -	\$ 5,000	\$ 5,000
2. Well site easements	Consultant	7,000	-	-	-	7,000	7,000
3. Permanent pipeline for R07 (CBK40)	Agency Staff	40,000	100	-	100	39,900	-
	Consultant	85,000	-	-	-	85,000	-
	Construction	405,000	-	-	-	405,000	-
Subtotal		530,000	100	-	100	529,900	-
Total		\$ 542,000	\$ 100	\$ -	\$ 100	\$ 541,900	\$ 12,000

TABLE 8

**Pioneer Project
Annual Budget by Participant
2024**

Participant	Administration			Recharge O&M			Recovery O&M*			Capital - Recharge		
	60%	40%	Total	60%	40%	Total	60%	40%	Total	60%	40%	Total
Belridge WSD.....	60,863	40,575	101,438	21,301	14,201	35,502	59,278	39,519	98,797			0
Berrenda Mesa WD.....	60,863	40,575	101,438	21,301	14,201	35,502	59,278	39,519	98,797			0
Improvement District No. 4.....	35,801	23,867	59,668	12,530	8,354	20,884	34,869	23,246	58,115			0
Lost Hills WD.....	53,702	35,801	89,503	18,795	12,530	31,325	52,304	34,869	87,173			0
Semitropic WSD.....	50,122	33,414	83,536	17,542	11,695	29,237	48,817	32,545	81,362			0
Tejon-Castac WD.....	3,580	2,387	5,967	1,253	835	2,088	3,487	2,325	5,812			0
Wheeler Ridge-Maricopa WSD..	93,084	62,056	155,140	32,578	21,719	54,297	90,661	60,440	151,101			0
Kern County Water Agency.....	51,145	34,097	85,242	17,900	11,933	29,833	26,246	17,497	43,743			0
Buena Vista WSD.....	51,145	34,097	85,242	17,900	11,933	29,833			0	123,090	82,060	205,150
Henry Miller WD.....	51,145	34,097	85,242	17,900	11,933	29,833			0	123,090	82,060	205,150
Kern Delta WD.....	51,145	34,097	85,242	17,900	11,933	29,833			0	123,090	82,060	205,150
Rosedale-Rio Bravo WSD.....	51,145	34,097	85,242	17,900	11,933	29,833			0	123,090	82,060	205,150
Total	613,740	409,160	1,022,900	214,800	143,200	358,000	374,940	249,960	624,900	492,360	328,240	820,600

* Recovery O&M includes KCWA recovery of seven percent of its Reserved Right.

TABLE 9

**Pioneer Project
Annual Budget by Participant
2024**

Participant	Replacement - Recharge**			Capital - Recovery			Total		
	60%	40%	Total	60%	40%	Total	60%	40%	Total
Belridge WSD.....	233,259	155,506	388,766	1,224	816	2,040	375,925	250,617	626,542
Berrenda Mesa WD.....	177,790	118,527	296,317	1,224	816	2,040	320,456	213,638	534,094
Improvement District No. 4.....	50,640	33,760	84,400	720	480	1,200	134,560	89,707	224,267
Lost Hills WD.....	264,454	176,303	440,757	1,080	720	1,800	390,335	260,223	650,558
Semitropic WSD.....	145,869	97,246	243,115	1,008	672	1,680	263,358	175,572	438,930
Tejon-Castac WD.....	3,155	2,103	5,258	72	48	120	11,547	7,698	19,245
Wheeler Ridge-Maricopa WSD..	176,523	117,682	294,205	1,872	1,248	3,120	394,718	263,145	657,863
Kern County Water Agency.....	142,499	95,000	237,499			0	237,790	158,527	396,317
Buena Vista WSD.....	273,351	182,233	455,584			0	465,486	310,323	775,809
Henry Miller WD.....	112,750	75,167	187,917			0	304,885	203,257	508,142
Kern Delta WD.....	162,018	108,012	270,030			0	354,153	236,102	590,255
Rosedale-Rio Bravo WSD.....	392,912	261,941	654,853			0	585,047	390,031	975,078
Total	2,135,220	1,423,480	3,558,700	7,200	4,800	12,000	3,838,260	2,558,840	6,397,100

** Replacement - Recharge allocation based upon proportionate share of historic replacement fees collected to date.

From: [Clark, Micah](#)
To: [Dan Bartel](#); [Bauer, Lauren](#)
Cc: [Trent Taylor](#)
Subject: RE: Approved 2024 Pioneer Budget
Date: Wednesday, November 29, 2023 11:08:50 AM
Attachments: [image001.png](#)

Dan,

Thank you for reaching out! Agency staff will look into the recharge replacement reconciliation and 2020 charges. I will get back to you with our findings.

Regards,

Micah Clark

Water Resources Planner
Kern County Water Agency
3200 Rio Mirada Drive
Bakersfield, CA 93308-4944
main: 661-634-1400
direct: 661-634-1415
cell: 661-304-1542
mclark@kcwa.com

From: Dan Bartel <dbartel@rrbwsd.com>
Sent: Tuesday, November 28, 2023 1:18 PM
To: Clark, Micah <mclark@kcwa.com>; Bauer, Lauren <lbauer@kcwa.com>
Cc: Trent Taylor <ttaylor@rrbwsd.com>
Subject: RE: Approved 2024 Pioneer Budget

I was reviewing the recent Pioneer invoice and wondered if KCWA is reconciling the Pioneer replacement \$2/af recharge charges similarly to the recharge O&M charges. RRB paid \$29,950 in 2019 and I do not see a reconciliation in 2020 like I see with the M&O charges on the \$5/AF. Can you please look into this for us?

6. OPERATION AND MAINTENANCE COSTS

A. Annual Administration

Activities to be conducted under project administration are shown in the Section 5 outline. The costs to conduct these activities will be established in each year's budget on a calendar year basis. For the Pioneer Project, these fixed costs will be allocated in proportion to the following shares: 4/12 to Recharge Participants; 7/12 to Recovery Participants and 1/12 to the Agency. The Recharge Participants share will be allocated equally among Recharge Participants. The Recovery Participants' share will be allocated based on percentage shares shown in Section 4 of the Recovery Plan.

The total estimated project administration costs will be collected from Project Participants by billing sixty percent of said costs in January of each year and forty percent in July of each year. Payments will be due 30 days after billing. The project administration costs may include an allowance, in addition to the costs shown on the annual budget, to defray continuing Agency project development costs.

At the end of each year, actual administration costs will be compared with revenues received from Project Participants. In the event of a shortfall of revenues, Project Participants will be assessed an amount to make up the shortfall, such assessments to be based on 4/12 from Recharge Participants, 7/12 from Recovery Participants, and 1/12 from the Agency. In the event of an excess of revenues, Project Participants, including the Agency, will be credited in proportion to their contribution of such revenues. Such assessments or credits will be applied to the July billing for the subsequent year.

B. Recharge Activities

Administration, operation, maintenance and replacement recharge activities are shown in the Section 5 outline. The costs to conduct these activities will be established in each year's budget on a calendar year basis. Such costs will be divided between minimum fixed costs and variable costs. The minimum fixed recharge costs will be allocated in proportion to the following shares; 4/12 to Recharge Participants; 7/12 to Recovery Participants and 1/12 to the Agency. The Recharge Participant share will be allocated equally among Recharge Participants. The Recovery Participants' share will be allocated among Recovery Participants based on the percentage shares shown in Section 4 of the Recovery Plan. The fixed recharge costs will be collected from Project Participants by billing sixty percent of said costs in January of each year and forty percent of the cost in July of each year. Payments will be due 30 days after billing. The variable costs will be repaid by Participants who recharge with a unit charge that is sufficient to provide for variable administration, operation, maintenance and replacement costs that occur during recharge years. In general, water will be recharged in the least costly locations, considering the source of the water and associated transportation costs. When it is necessary to use more expensive recharge opportunities, recharge and transportation costs will be melded so that all participants (except CVC or River Canal Participants since they don't pay transportation) will pay equal unit operation and maintenance costs.

At the end of each year, actual variable administration, operation, maintenance, and replacement costs for recharge activities will be compared with revenues received from unit charges. In the event of a shortfall of revenues, Project Participants will be assessed an amount to make up the shortfall, such assessments will be in proportion to the quantities recharged during the prior year by each participant. In the event of an excess of revenues, Project Participants will be credited an amount of the excess, such credits to be in proportion to quantities recharged during the prior year by each participant. Such assessments or credits will be applied to the July billing for the subsequent year.

From: Clark, Micah <mclark@kcwa.com>

Sent: Thursday, November 16, 2023 7:55 AM

To: 'Angelica Martin' <amartin@tejonranch.com>; Beard, Dave <dbeard@kcwa.com>; 'Sween, Dominic' <dsween@jgboswell.com>; 'Jason Gianquinto' <jgianquinto@semitropic.com>; 'Sheridan Nicholas' <snicholas@wrmsd.com>; 'Eric McDaris' <emcdaris@wrmsd.com>; 'Steven Teglia' <Steven@kerndelta.org>; 'Tim Ashlock' <tiam@bvh2o.com>; 'Jamie Marquez' <JMarquez@westsidewa.org>; Dan Bartel <dbartel@rrbwsd.com>; Trent Taylor <ttaylor@rrbwsd.com>

Cc: Bauer, Lauren <lbauer@kcwa.com>; Anderson, Michelle <manderson@kcwa.com>

Subject: Approved 2024 Pioneer Budget

Pioneer Participants,

Please see the attached 2024 Pioneer Budget, approved at the KCWA Board meeting yesterday, Wednesday, November 15th.

Thank you,

Micah Clark

Water Resources Planner
Kern County Water Agency
3200 Rio Mirada Drive
Bakersfield, CA 93308-4944
main: 661-634-1400
direct: 661-634-1415
cell: 661-304-1542
mclark@kcwa.com

From: Clark, Micah

Sent: Wednesday, November 8, 2023 1:13 PM

To: Angelica Martin <amartin@tejonranch.com>; Beard, Dave <dbeard@kcwa.com>; Sween, Dominic <dsween@jgboswell.com>; Jason Gianquinto <jgianquinto@semitropic.com>; Sheridan Nicholas <snicholas@wrnwdsd.com>; Eric McDaris <emcdaris@wrnwdsd.com>; Steven Teglia <Steven@kerndelta.org>; Tim Ashlock <tim@byh2o.com>; Jamie Marquez <JMarquez@westsidewa.org>; Dan Bartel <dbartel@rrbwsd.com>; Trent Taylor <ttaylor@rrbwsd.com>

Cc: Bauer, Lauren <lbauer@kcwa.com>; Anderson, Michelle <manderson@kcwa.com>

Subject: Proposed 2024 Pioneer Budget

Pioneer Participants,

Please see the attached Proposed 2024 Pioneer Budget to be presented for approval at the meeting tomorrow, Thursday, November 9th at 1:00pm.

Hard copies will be available upon arrival.

Thank you,

Micah Clark

Water Resources Planner
Kern County Water Agency
3200 Rio Mirada Drive
Bakersfield, CA 93308-4944
main: 661-634-1400
direct: 661-634-1415
cell: 661-304-1542
mclark@kcwa.com

**Regular Meeting of the Board of Directors of
South Valley Water Resources Authority (SVWRA)
Agenda**

Kern Water Bank Conference Room
1620 Mill Rock Way, Suite 500
Bakersfield, CA, 93311
Dial-In (267) 807 9605; Participant Code: 510797#
November 17th, 2023, at 3:00 pm

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 minutes of 10/26/23 regular board meeting
- 3. Directors Forum** – discussion only, no action
 - a. SGMA
 - b. SWP & KCWA
 - c. Kern River
 - d. Other
- 4. Set Date for December Board Meeting**
- 5. New Business for Consideration at Future Meetings and Announcements**
- 6. Adjournment**

**Project Management Committee (Special Activity Agreement #1)
of South Valley Water Resources Authority (SVWRA)**

**Fish Friendly Diversion Project
Agenda**

Kern Water Bank Conference Room
1620 Mill Rock Way, Suite 500
Bakersfield, CA, 93311

Dial-In (267) 807 9605; Participant Code: 510797#

November 17th, 2023, at 3:05 pm

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 10/26/23
- 3. Financial Reports**
 - a. Presentation of financial reports.
 - b. Accounts payable.
- 4. Fish Friendly Diversion Project**
 - a. Project updates – Colorado State Hydraulics Lab
 - b. Demonstration Project Update
- 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**



Meeting: **Joint Sites Reservoir Committee & Authority Board**

**November 17, 2023
9:00 AM**

Locations: [Click here to join the meeting](#)

122 Old Hwy 99W, Maxwell, CA 95955

See additional locations below.

Call in: **1-916-538-7066**

Code: **916 475 053#**

Authority Board Chair:	Fritz Durst (Reclamation District 108)
Authority Board Vice Chair:	Jeff Sutton (Tehama-Colusa Canal Authority)
Reservoir Committee Chair:	Valerie Pryor (Zone 7 Water Agency)
Reservoir Committee Vice-Chair:	Mike Azevedo (Colusa County)
Treasurer:	Jamie Traynham (Davis Water District)

AGENDA

ROLL CALL & CALL TO ORDER:

- Introductions.
- Pledge of Allegiance.
- Approval of November 17, 2023, Joint Meeting Agenda.
- Announcement of Closed Session.
- Period for Public Comment

Any person may speak about any subject of concern, provided it is within the Reservoir Committee's and Authority Board's jurisdiction. Before speaking, you must submit a public comment card either 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.

Public members that have comments on Agenda Item 2.1 are asked to hold your comments on this item until the Board specifically calls for public comments on that item.

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 October 20, 2023, Joint 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 & B)**

- 1.3 Reservoir Committee and Authority Board consider approval of the Sites Project Authority Payment of Claims. **(Attachment A & B)**
- 1.4 Authority Board considers approval of membership dues covering Authority general and administrative costs estimated to not exceed \$410,000 in fiscal year 2024, which equates to dues per member of \$45,000 (9 members total) and \$5,000 per Associate Member (1 member total). Authorize release of invoices in January 2024.
- 1.5 Reservoir Committee and Authority Board consider acceptance of the Sites Project Authority's Third Quarter 2023 Budget Year Quarterly Financial Report.

2. Action Items: Approximate start time 9:15 am

- 2.1 Reservoir Committee considers recommendation to the Authority Board and Authority Board considers approval of proposed Board Resolution No.2023-02 providing for the following actions:
 1. Certify the Final Environmental Impact Report for the Sites Reservoir Project under the California Environmental Quality Act (CEQA);
 2. Adopt CEQA Findings;
 3. Adopt the Statement of Overriding Considerations;
 4. Adopt the Mitigation, Monitoring and Reporting Program;
 5. Approve the Sites Reservoir Project as described in the CEQA Findings;
 6. Direct the Executive Director to File a Notice of Determination and pay all related fees and authorize the Executive Director to certify the CEQA record of proceedings. **(Attachments A, B & C)**

3. Discussion and Information Items: Approximate Start Time: Uncertain
No action from the Reservoir Committee or Authority Board.

- 3.1 Review and comment on quarterly status update of deliverables needed to support home board decision-making (i.e., conditions precedent), including a new "Storage Partner Approvals Coordination Table" that evaluates Participants, State and Federal needs for investor commitment. **(Attachment A & B)**

4. Reports:

- 4.1 Chairpersons' Reports:

This time is set aside to allow the Reservoir Committee & Authority Board Chair/Co-Chair an opportunity to disclose/discuss items related to the Sites 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 – [Committee and Workgroup Agendas](#).

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:

- Monthly status report. **(Attachment A)**
- Work Plan Key Deliverables Report. **(Attachment B)**
- Meetings Action Items Summary. **(Attachment C)**

5. Closed Session: Approximate start time Uncertain

5.1 Negotiations concerning water right permit terms and conditions (Govt. Code §54956.9(c) and §54956.9(d)(4)).

5.2 Conference with Real Property Negotiators (Gov. Code § 54956.8).

Property: [Colusa County] APNs 011-130-004-000, 011-130-011-000, 011-150-017-000, 011-150-018-000, 011-150-020-000

Agency negotiators: Jerry Brown, Kevin Spesert

Negotiating parties: Shirley Jensen

Under negotiation: Price and terms of payment

6. Report from Closed Session Approximate start time Uncertain

7. Recap: Approximate start time Uncertain

7.1 Suggested Future Agenda Items.

7.2 Upcoming Meetings:

Joint Reservoir Committee & Authority Board

Friday, December 15, 2023 (9:00 am to noon)

Meetings are held in the Maxwell Project Office & Virtual.

Virtual Information will be provided on the meeting agenda at [Sitesproject.org](https://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:

City of American Canyon, 4381 Broadway Street, American Canyon, CA 94503

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 Storage District, 849 Allen Road, Bakersfield, CA 93314



For Immediate Release:

November 17, 2023

Contact: Ann Newton

(310) 774-7639

Sites Reservoir Reaches Milestone in Environmental Review Process

SACRAMENTO, CA – The Sites Project Authority, as the lead agency under the California Environmental Quality Act, has certified the Final Environmental Impact Report (Final EIR) and approved the Sites Reservoir Project (Project). This important milestone is the culmination of years of planning and a collaborative effort to increase the reliability of statewide water supplies for environmental, agricultural, and urban uses. With this certification, the Authority will be working to move the project forward through the final planning stages and on to construction.

“Over the last six years, we conducted one of the most comprehensive environmental analyses ever done for a water supply project to design a project that can meet the needs of California’s communities, farms, and environment,” said **Fritz Durst, Chair of the Sites Project Authority Board of Directors**. “Sites Reservoir is a new way of managing water designed to provide resiliency and reliability amid our changing climate.”

The Sites Reservoir Project would increase water supply throughout California and provide, for the first time, environmental benefits by storing water specifically for the environment to support native wildlife and their habitat during drought periods. The 1.5 million acre-foot, off-stream, water storage project is being advanced to increase California’s water and climate resiliency while also protecting and enhancing the environment.

“Sites Reservoir is truly a product of collaboration. The Project would not be possible without the support of our participants and government partners, who all recognize the unique benefits of Sites Reservoir,” said **Jerry Brown, Executive Director of the Sites Project Authority**. “During the multi-year environmental process, we also considered and incorporated feedback from a wide variety of stakeholders, and we have a better Project because of it. It’s allowed us to put forward a Project that is affordable, permissible, and buildable—one that will benefit all of California.”

The Final EIR, which was released as a joint Final EIR/Environmental Impact Statement with the Bureau of Reclamation as the lead federal agency, evaluates and describes the environmental effects and proposed mitigation measures associated with construction and operation of the Sites Reservoir Project. It includes updates to the Revised Draft Environmental Impact Report/Supplemental Draft Environmental Impact Statement (RDEIR/SDEIS), released in 2021, to reflect changes to the Project and to address public comments received during the review period. The Final EIR contains revised modeling results due to changes in diversion criteria, however, no new or substantially greater impacts were identified with the addition of these refinements.

The Final EIR/EIS and information about the environmental review process can be found online at www.sitesproject.org/environmental-review/. For questions about the Sites Reservoir Project, contact Alicia Forsythe, Sites Project Authority, at 916-880-0676 or aforsythe@sitesproject.org.

Sites is an off-stream reservoir proposed north of the Sacramento-San Joaquin Delta, where it would provide unique water supply and environmental benefits during dry periods, especially during extended drought. Additional information can be found at www.sitesproject.org or on Facebook and Twitter at @SitesProject.

RECEIVED

NOV 30 2023

Rosedale-Rio Bravo Water Storage District
Protest Form to the Adoption of Proposed Water Charge

Landowner Printed Name:

Number of Parcels:

Assessor's Parcel Number(s):

All Parcels that pertain to				
Rosedale Rio Bravo Water Shortage Dist.				

(Add Additional Parcels on Separate Sheet if Necessary)

Reason for Protest (optional):

I believe that we should delay any water tax until conditions warrant an increase in water costs. Lets not collect money for a Savings Account

As owner of the parcels listed above, I protest the imposition of the proposed Water Charge.

Landowner Signature: Edward Kosareff

Printed Name: Edward Kosareff



RECEIVED

DEC 06 2023

11/27/2023

ACWA JPIA

P. O. Box 619082
Roseville, CA
95661-9082

phone
916.786.5742
800.231.5742

www.acwajpia.com

Core Values

- People
- Service
- Integrity
- Innovation

Rosedale-Rio Bravo Water Storage District (R018)
849 Allen Road
Bakersfield, CA 93314

General Manager:

Each year at Fall Conference, the JPIA recognizes members that have a Loss Ratio of 20% or less in either of the Liability, Property or Workers' Compensation programs (loss ratio = total losses / total premiums).

The members with this distinction receive the "**President's Special Recognition Award**" certificate for each Program that they qualify in.

The JPIA is extremely pleased to present Rosedale-Rio Bravo Water Storage District (R018) with this special recognition and commends the District on the hard work in reducing claims.

Congratulations to you, your staff, Board, and District. Keep up the good work!

The JPIA wishes you the best in 2024.

Sincerely,

Melody McDonald
President

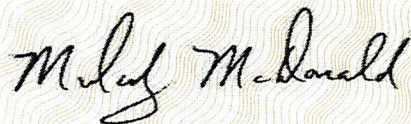
Enclosure: President's Special Recognition Award(s)

President's Special Recognition Award

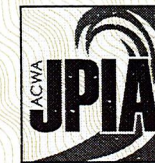
*The President of the
ACWA JPIA
hereby gives Special Recognition to*

Rosedale-Rio Bravo Water Storage District

*for achieving a low ratio of "Paid Claims and Case Reserves" to "Deposit Premiums"
in the Liability Program for the period 10/01/2019 - 09/30/2022
announced at the Board of Directors' Meeting in Indian Wells.*



Melody McDonald, President



November 27, 2023

President's Special Recognition Award

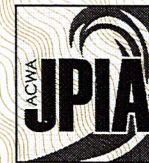
*The President of the
ACWA JPIA
hereby gives Special Recognition to*

Rosedale-Rio Bravo Water Storage District

*for achieving a low ratio of "Paid Claims and Case Reserves" to "Deposit Premiums"
in the Workers' Compensation Program for the period 07/01/2019 - 06/30/2022
announced at the Board of Directors' Meeting in Indian Wells.*



Melody McDonald, President



November 27, 2023