

INDIAN WELLS VALLEY GROUNDWATER AUTHORITY

Ridgecrest City Hall 100 W California Ave., Ridgecrest, CA 93555 760-499-5002

BOARD OF DIRECTORS AGENDA

Wednesday, March 11, 2026

Closed Session – 10:00 a.m.

Open Session no earlier than 11:00 a.m.

NOTICE: *In accordance with the evolving public health declarations, we will continue to provide live stream video for those wishing to participate virtually. Please see the Public Comment Notice below for detailed instructions on submitting public comment as well as websites for livestream broadcasting.*

In compliance with the Americans with Disabilities Act, if you are a disabled person and you need a disability-related modification or accommodation to participate in this meeting, please contact April Keigwin at (805) 764-5452. Requests must be made as early as possible and at least one full business day before the start of the meeting. Documents and material relating to an open session agenda items that are provided to the IWVGA Board of Directors prior to a regular meeting will be available for public inspection and copying at Ridgecrest City Hall, 100 W California Ave, Ridgecrest, CA 93555, or online at <https://iwvga.org/>.

Statements from the Public

The public will be allowed to address the Board during Public Comments about subjects within the jurisdiction of the IWVGA Board and that are NOT on the agenda. No action may be taken on off-agenda items unless authorized by law. Questions posed to the Board may be answered after the meeting or at a future meeting. Dialog or extended discussion between the public and the Board or staff will be limited in accordance with the Brown Act. All Public Comment portions of the meeting shall be limited to three (3) minutes per speaker. Each person is limited to one comment during Public Comments.

1. CALL TO ORDER

2. ADOPTION OF AGENDA

3. PUBLIC COMMENT ON CLOSED SESSION

4. CLOSED SESSION

- **CONFERENCE WITH REAL PROPERTY NEGOTIATIONS**
(Government Code Section 54956.8) - Property: Purchase of Water Rights; Agency Negotiator: Jeff Simonetti; Negotiating Parties: Westside Ag; Under Negotiation: Price and terms of payment.
- **CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION**
(Government Code Section 54956.9(d)(1): IWVGA v. Inyokern CSD – Kern County Superior Court BCV-22-100281

- CONFERENCE WITH LEGAL COUNSEL- EXISTING LITIGATION
(Government Code Section 54956.9(d)(1) - Name of case: Mojave Pistachios, LLC v Indian Wells Valley Water District, et al. Orange County Superior Court Case No. 30-2021-01187275-CU-OR-CJ

5. CALL TO ORDER – No earlier than 11:00 a.m.

- a. Report on closed session
- b. Pledge of Allegiance
- c. Roll Call

6. PUBLIC COMMENT

This time is reserved for the public to address the Board about matters NOT on the agenda. No action will be taken on non-agenda items unless authorized by law. Comments are limited to three minutes per person.

7. BOARD MEMBER COMMENTS

This time is reserved for comments by Board members and/or staff and to identify matters for future Board business.

8. CONSENT AGENDA

- a. Approve Minutes of Board Meeting February 11, 2026
- b. 2026 Insurance Renewal
- c. Approve Expenditures

**To view itemized invoices please visit <https://iwvga.org/iwvga-meetings>.*

- i. \$184,433.37 – Stetson Engineers (December and January invoices)
- ii. \$38,446.80 – Regional Government Services – (Replenishment / Extraction)
- iii. \$21,601.00 – CalMutuals JPRIMA – (Extraction)
- iv. \$13,750.00 – Blue Mountain Development – (SGMA IP / EPA)
- v. \$11,056.25 – Capitol Core Group – (Replenishment)
- vi. \$9,825.00 – Westbound Communication – (Extraction)
- vii. \$4,498.80 – Provost & Pritchard – (SGMA IP / EPA)
- viii. \$1,611.00 – Transystems – (SGMA IP / EPA)

9. CONTRACT MODIFICATION WITH HAMNER AND JEWELL FOR RIGHT OF WAY ACQUISITION SERVICES

10. AMENDMENT TO CONTRACT WITH PROVOST & PRITCHARD FOR CEQA/NEPA DOCUMENTS AND PERMIT DOCUMENTATION FOR THE IMPORTED WATER PIPELINE

11. AMENDMENT TO THE CONTRACT SERVICES AGREEMENT WITH PROVOST & PRITCHARD FOR DESIGN SERVICES FOR THE IMPORTED WATER PIPELINE

12. REQUEST TO THE DEPARTMENT OF WATER RESOURCES FOR REVIEW OF TECHNICAL REPORTS

13. BOARD TO RECEIVE AND FILE 2025 WATER YEAR ANNUAL REPORT

14. WATER RESOURCES MANAGER REPORT

- a. Grant Funding
- b. GSP Implementation Projects/Management Action Updates
 - i. Imported Water Project

- ii. Shallow Well Mitigation Program
- c. Consolidation Projects
 - i. Rademacher Way
 - ii. Stark Street
- d. Miscellaneous Items
 - i. Data Collection and Monitoring
 - ii. IWVGA Basin Model Configuration Management Plan
 - iii. Rose Valley Subflow Update

15. GENERAL MANAGER’S REPORT

- a. Monthly Financial Report
- b. Outreach Update
- c. Report on IWVGA’s Water Marketer (Capitol Core Group)

16. DATE OF NEXT MEETING – APRIL 8, 2026

17. ADJOURN

PUBLIC COMMENT NOTICE

IWVGA meetings will be open to the public for physical attendance; However, for those who wish to continue using virtual alternatives please follow the directions below for access to live stream video as well as ways to submit public comment.

- **Watch meetings on-line:**
All of our meetings are streamed live at <https://ridgecrest-ca.gov/369/Watch> (4 second streaming delay) or on YouTube at <https://www.youtube.com/cityofridgecrest/live> (22 second streaming delay) and are also available for playback after the meeting.
- **Call in for public comments:**
If you wish to make verbal comment, *please call (760) 499-5010*. This phone line will allow only one caller at a time, so if the line is busy, please continue to dial. We will be allowing a 20-30 second pause between callers to give time for media delays and callers to dial in. Due to media delays, please mute your streaming device while making public comment. If you wish to comment on multiple items, you will need to call in as each item is presented.
- **Submit written comments:**
We encourage submittal of written comments supporting, opposing, or otherwise commenting on an agenda item, for distribution to the Board prior to the meeting. Send emails to akeigwin@rgs.ca.gov written correspondence may be sent to April Keigwin, Clerk of the Board, 100 W. California Ave., Ridgecrest, CA 93555. Please specify to which agenda item your comment relates.
- **Large Groups:**
If you are part of a large group that would like to comment on an agenda item, please consider commenting in writing. This will be as impactful to the Board as having a large group in attendance.

The page intentionally blank

INDIAN WELLS VALLEY GROUNDWATER AUTHORITY

City of Ridgecrest, Indian Wells Valley Water District, Inyo County, Kern County, San Bernardino County

BOARD OF DIRECTORS MEETING FEBRUARY 11, 2026

IWVGA Members Present:

Chairman Scott Hayman, City of Ridgecrest	Tim Itnyre, San Bernardino County
Phillip Peters, Kern County	April Keigwin, Interim General Manager
Mallory Boyd, Indian Wells Valley Water District	Steve Johnson, Stetson Engineers
John Vallejo, Inyo County	Keith Lemieux, Legal Counsel

Attending via teleconference is Steve Johnson.

Meeting recording, public comment letters submitted, and all board meeting related documents are made available at:

<https://iwvga.org/iwvga-meetings/>

1. CALL TO ORDER:

Chairman Hayman calls the meeting to order at 10:06 a.m.

2. ADOPTION OF AGENDA:

Motion made by Phillip Peters and seconded by John Vallejo to approve adoption of the agenda. Motion carries by the following roll call vote:

Chairman Hayman	Aye
Vice Chair Peters	Aye
Director Boyd	Aye
Director Itnyre	Aye
Director Vallejo	Aye

3. PUBLIC COMMENT ON CLOSED SESSION:

The Board hears public comment Renee Westa-Lusk.

Chairman Hayman calls the meeting into Closed Session at 10:07 a.m.

4. CLOSED SESSION:

- CONFERENCE WITH LEGAL COUNSEL – PUBLIC EMPLOYEE NEGOTIATIONS
(Government Code Section 54957) Title Manager
- CONFERENCE WITH REAL PROPERTY NEGOTIATIONS
(Government Code Section 54956.8) - Property: Purchase of Water Rights; Agency Negotiator: Jeff Simonetti; Negotiating Parties: Westside Ag; Under Negotiation: Price and terms of payment.
- CONFERENCE WITH LEGAL COUNSEL – EXISTING LITIGATION
(Government Code Section 54956.9(d)(1): IWVGA v. Inyokern CSD – Kern County Superior Court BCV-22-100281

- CONFERENCE WITH LEGAL COUNSEL- EXISTING LITIGATION
(Government Code Section 54956.9(d)(1) - Name of case: Mojave Pistachios, LLC v Indian Wells Valley Water District, et al. Orange County Superior Court Case No. 30-2021-01187275-CU-OR-CJ

Closed Session adjourns at 11:58 a.m.

5. OPEN SESSION – no earlier than 11:00 a.m.

Meeting reconvenes into Open Session at 12:04 p.m.

- a. Report on Closed Session – Counsel Lemieux reports no reportable action was taken that would require disclosure under The Brown Act.
- b. Pledge of Allegiance is led by Chairman Hayman
- c. Roll Call

Chairman Hayman	Present
Vice Chair Peters	Present
Director Boyd	Present
Director Itnyre	Present
Director Vallejo	Present

6. PUBLIC COMMENT:

None.

7. BOARD MEMBER COMMENTS:

None.

8. CONSENT AGENDA:

- a. Approve Minutes of Board Meeting January 14, 2026
- b. Approve Expenditures

**To view itemized invoices please visit <https://iwvga.org/iwvga-meetings>.*

- i. \$65,473.42 – Stetson Engineers
- ii. \$37,510.60 – Regional Government Services – (Replenishment / Extraction)
- iii. \$37,470.66 – Provost & Pritchard – (SGMA IP)
- iv. \$12,365.00 – Westbound Communication – (Extraction)
- v. \$11,962.50 – Blue Mountain Development – (SGMA IP)
- vi. \$11,643.75 – Capitol Core Group – (Replenishment)
- vii. \$1,656.50 – Indian Wells Valley Water District (UCDRG/Consolidation)

The Board hears public comment from Renee Westa-Lusk.

Motion made by Phillip Peters and John Vallejo to approve Minutes of Board Meeting December 10, 2025 and the following expenditures in the amount of, \$65,473.42 to Stetson Engineers, \$37,510.60 to Regional Government Services, \$37,470.66 to Provost & Pritchard, \$12,365.00 to Westbound Communication, \$11,962.50, to Blue Mountain Development, \$11,643.75 to Capitol Core Group and \$1,656.50 to Indian Wells Valley Water District.

Motion carries by the following vote:

Chairman Hayman	Aye
Vice Chair Peters	Aye
Director Boyd	Aye
Director Itnyre	Aye
Director Vallejo	Aye

9. AMENDMENT TO PROFESSIONAL SERVICES AGREEMENT WITH REGIONAL GOVERNMENT SERVICES:

Counsel Lemieux presents staff report and amendment.

The Board hears public comment from Renee Westa-Lusk and Judie Decker

Motion made by John Vallejo and seconded by Phillip Peters to approve amendment to agreement with Regional Government Services.

Motion carries by the following vote:

Chairman Hayman	Aye
Vice Chair Peters	Aye
Director Boyd	Aye
Director Itnyre	Aye
Director Vallejo	Aye

10. REIMBURSEMENT AGREEMENT WITH INDIAN WELLS VALLEY WATER DISTRICT FOR STARK STREET CONSOLIDATION:

April Keigwin presents staff report and amendment.

The Board hears public comments from Renee Westa-Lusk.

Motion made by John Vallejo and seconded by Mallory Boyd to reimbursement agreement with IWVWD for the Stark Street consolidation with the addition of a Not to Exceed amount of \$1 million.

Motion carries by the following vote:

Chairman Hayman	Aye
Vice Chair Peters	Aye
Director Boyd	Aye
Director Itnyre	Aye
Director Vallejo	Aye

11. AGREEMENT WITH HAMNER AND JEWELL FOR EASEMENT ACQUISITION SERVICES:

Jeff Helsley presents staff report and agreement.

Motion made by Phillip Peters and seconded by John Vallejo to approve agreement with Hamner and Jewell.

Motion carries by the following vote:

Chairman Hayman	Aye
Vice Chair Peters	Aye
Director Boyd	Aye
Director Itnyre	Aye
Director Vallejo	Aye

12. WATER RESOURCES MANAGER REPORT:

Jeff Helsley provides updates on the following items:

- a. Grant Funding
- b. GSP Implementation Projects/Management Action Updates
 - i. Imported Water Project
 - ii. Shallow Well Mitigation Program
- c. Miscellaneous Items
 - i. Data Collection and Monitoring
 - ii. IWVGA Basin Model Configuration Management Plan
 - iii. Rose Valley Subflow Update
 - iv. Rademacher Consolidation Update

The Board hears public comment from Renee Westa-Lusk.

13. GENERAL MANAGER REPORT:

April Keigwin presents monthly financial report and updates on public outreach. Michael McKinney provides legislative update.

14. DATE OF NEXT MEETING – MARCH 11, 2026

15. ADJOURN:

Chairman Hayman adjourns the meeting at 12:35 p.m. on February 11, 2026.

Respectfully submitted,

April Keigwin
Clerk of the Board
Indian Wells Valley Groundwater Authority

The page intentionally blank



Stetson Engineers

Indian Wells Valley Groundwater Authority
 100 W. California Ave.
 Ridgecrest, CA 93555

Invoice number 2652-101
 Date 01/30/2026

Project **2652 Indian Wells Valley Groundwater Authority**

Professional services through 12/31/2025

2652-2025 Water Resources Management 2025

2652-2025:01 Meetings & Prep

Professional Fees

	Hours	Rate	Billed Amount
Principal	12.00	244.00	2,928.00
Supervisor I	15.50	212.00	3,286.00
Associate II	57.50	119.00	6,842.50
Associate III	1.00	114.00	114.00
Assistant I	0.50	101.00	50.50
Phase subtotal			13,221.00

2652-2025:02.01 SGMA IP Grant Administration

Professional Fees

	Hours	Rate	Billed Amount
Principal	5.00	244.00	1,220.00
Supervisor I	2.50	212.00	530.00
Senior I	7.00	170.00	1,190.00
Associate II	25.50	119.00	3,034.50
Assistant I	6.00	101.00	606.00
Phase subtotal			6,580.50

2652-2025:02.02 Urban Community Drought Relief Funding Administration

Professional Fees

	Hours	Rate	Billed Amount
Principal	1.50	244.00	366.00
Supervisor I	2.25	212.00	477.00
Senior I	0.50	170.00	85.00
Associate II	0.50	119.00	59.50
Phase subtotal			987.50

2652-2025:02.03 EPA Resiliency Grant Administration

Professional Fees

	Hours	Rate	Billed Amount
Associate II	7.50	119.00	892.50



Indian Wells Valley Groundwater Authority
 Project 2652 Indian Wells Valley Groundwater Authority

Invoice number 2652-101
 Date 01/30/2026

2652-2025 Water Resources Management 2025

2652-2025:04 Data Mgmt System Support

Professional Fees

	Hours	Rate	Billed Amount
Senior III	9.25	138.00	1,276.50
Associate II	0.25	119.00	29.75
Phase subtotal			1,306.25

2652-2025:05 General Project Mgmt

Professional Fees

	Hours	Rate	Billed Amount
Supervisor I	3.50	212.00	742.00
Senior I	0.50	170.00	85.00
Phase subtotal			827.00

2652-2025:06 Model Transfer & Upgrade

Professional Fees

	Hours	Rate	Billed Amount
Associate II	0.50	119.00	59.50

2652-2025:07.03 Resiliency Grant: Design

Professional Fees

	Hours	Rate	Billed Amount
Principal	2.50	244.00	610.00
Supervisor I	18.25	212.00	3,869.00
Associate II	29.25	119.00	3,480.75

Reimbursables

	Units	Rate	Billed Amount
Mileage			
Bianca Cabrera	290.00	0.70	203.00
Jeff Helsley	248.00	0.70	173.60
Subtotal			376.60
Phase subtotal			8,336.35

2652-2025:07.04 Resiliency Grant: Environmental

Professional Fees

	Hours	Rate	Billed Amount
Supervisor I	1.50	212.00	318.00
Associate II	2.25	119.00	267.75
Phase subtotal			585.75

2652-2025:07.05 Resiliency Grant: Right of Way

Professional Fees

	Hours	Rate	Billed Amount
--	-------	------	---------------



Indian Wells Valley Groundwater Authority
 Project 2652 Indian Wells Valley Groundwater Authority

Invoice number 2652-101
 Date 01/30/2026

2652-2025 Water Resources Management 2025
2652-2025:07.05 Resiliency Grant: Right of Way
 Professional Fees

	Hours	Rate	Billed Amount
Associate II	0.25	119.00	29.75

2652-2025:08 Imported Water: Negotiations & Coordination
 Professional Fees

	Hours	Rate	Billed Amount
Principal	2.50	244.00	610.00
Supervisor I	1.00	212.00	212.00

Phase subtotal 822.00

2652-2025:11 Data Collection, Monitoring & Data Gaps
 Professional Fees

	Hours	Rate	Billed Amount
Special Project Director	1.25	244.00	305.00
Supervisor I	1.00	212.00	212.00
Supervisor II	3.50	197.00	689.50
Senior III	3.25	138.00	448.50
Senior Associate	52.50	132.00	6,930.00
Associate II	0.25	119.00	29.75
Contract Manager	0.25	106.00	26.50

Reimbursables

	Units	Rate	Billed Amount
--	-------	------	---------------

Car Rental and Gas			
Stephan Bork			41.27
			12.45
			<u>356.74</u>

Subtotal 410.46

Subtotal 410.46

Equipment Purchase			
Solinst Canada Ltd.			1,068.90
Stephan Bork			101.21
			<u>1,170.11</u>

Subtotal 1,170.11

Equipment Rental Expense			
Stephan Bork			1,174.99

Field Supplies			
Stephan Bork			9.25

Lodging			
Stephan Bork			126.38

Meals			
Stephan Bork			7.65



Indian Wells Valley Groundwater Authority
 Project 2652 Indian Wells Valley Groundwater Authority

Invoice number 2652-101
 Date 01/30/2026

2652-2025 Water Resources Management 2025
2652-2025:11 Data Collection, Monitoring & Data Gaps
 Reimbursables

	Units	Rate	Billed Amount
Meals			
Stephan Bork			17.59
			<u>8.72</u>
		Subtotal	33.96
		Subtotal	33.96
Mileage			
Stephan Bork	16.00	0.70	11.20
	11.00	0.70	7.70
	11.00	0.70	<u>7.70</u>
		Subtotal	26.60
		Subtotal	26.60
Overnight Mail			
FedEx - 1120-7190-3			53.30
Stephan Bork			<u>31.77</u>
		Subtotal	85.07
Storage Fee			
Non Vendor Reimbursables			<u>105.60</u>
		Phase subtotal	11,783.67

2652-2025:12 Shallow Well Consolidation Project
 Professional Fees

	Hours	Rate	Billed Amount
Associate II	12.25	119.00	1,457.75

2652-2025:13 Planning Assistance to States: Army Corps Support
 Professional Fees

	Hours	Rate	Billed Amount
Associate II	2.50	119.00	297.50

2652-2025:18 Navy/Coso Royalty Fund: FY21 Rose Valley MW Permitting, Bid Doc Support & Drilli
 Professional Fees

	Hours	Rate	Billed Amount
Senior Associate	0.75	132.00	99.00

2652-2025:20 Shallow Well Mitigation Program: Outreach & Impacts Evaluation
 Professional Fees

	Hours	Rate	Billed Amount
Assistant I	1.50	101.00	151.50



Indian Wells Valley Groundwater Authority
 Project 2652 Indian Wells Valley Groundwater Authority

Invoice number 2652-101
 Date 01/30/2026

2652-2025 Water Resources Management 2025

2652-2025:21 General Engineering

Professional Fees

	Hours	Rate	Billed Amount
Principal	1.50	244.00	366.00
Supervisor I	4.75	212.00	1,007.00
Associate II	6.00	119.00	714.00
Phase subtotal			<u>2,087.00</u>

2652-2025:23 Annual Report Preparation

Professional Fees

	Hours	Rate	Billed Amount
Supervisor II	20.50	197.00	4,038.50
Senior I	9.50	170.00	1,615.00
Associate II	5.25	119.00	624.75
Associate III	0.25	114.00	28.50
GIS Manager	1.00	126.00	126.00
Phase subtotal			<u>6,432.75</u>

2652-2025:25 Allocation Plan & Rules & Regs on Pumping/Restrictions

Professional Fees

	Hours	Rate	Billed Amount
Principal	4.00	244.00	976.00
Associate III	0.50	114.00	57.00
Phase subtotal			<u>1,033.00</u>

2652-2025:26 Budget Support

Professional Fees

	Hours	Rate	Billed Amount
Associate II	27.00	119.00	3,213.00

2652-2025:27 Litigation Support

Professional Fees

	Hours	Rate	Billed Amount
Special Project Director	1.75	244.00	427.00
Supervisor I	2.25	212.00	477.00
Supervisor II	48.50	197.00	9,554.50
Associate II	8.50	119.00	1,011.50
Phase subtotal			<u>11,470.00</u>

Water Resources Management 2025 subtotal 71,673.27

Invoice total **71,673.27**



STETSON
ENGINEERS INC.

Indian Wells Valley Groundwater Authority

Project **2652 Indian Wells Valley Groundwater Authority**

2171 E. Francisco Blvd., Suite K • San Rafael, California 94901

Phone: (415) 457-0701 • Fax: (415) 457-1638 • Website: www.stetsonengineers.com

Northern California

• Southern California

• Arizona

• Oregon

Invoice number 2652-101

Date 01/30/2026

Thank you for your business!

The page intentionally blank



Stetson Engineers

Indian Wells Valley Groundwater Authority
 100 W. California Ave.
 Ridgecrest, CA 93555

Invoice number 2652-102
 Date 03/04/2026

Project **2652 Indian Wells Valley Groundwater Authority**

Professional services through 01/31/2026

2652-2026 Water Resources Management 2026

2652-2026:01 Meetings & Prep

Professional Fees

	Hours	Rate	Billed Amount
Principal	10.00	244.00	2,440.00
Supervisor I	16.75	212.00	3,551.00
Associate II	65.25	119.00	7,764.75
Associate III	3.50	114.00	399.00
Assistant I	2.00	101.00	202.00
Phase subtotal			14,356.75

2652-2026:02.01 SGMA IP Grant Administration

Professional Fees

	Hours	Rate	Billed Amount
Supervisor I	0.50	212.00	106.00
Senior I	1.50	170.00	255.00
Assistant I	14.00	101.00	1,414.00
Phase subtotal			1,775.00

2652-2026:02.02 Urban Community Drought Relief Funding Administration

Professional Fees

	Hours	Rate	Billed Amount
Associate II	0.75	119.00	89.25
Assistant I	1.00	101.00	101.00
Phase subtotal			190.25

2652-2026:02.03 EPA Resiliency Grant Administration

Professional Fees

	Hours	Rate	Billed Amount
Supervisor I	3.25	212.00	689.00
Associate II	64.50	119.00	7,675.50
Phase subtotal			8,364.50



Indian Wells Valley Groundwater Authority
 Project 2652 Indian Wells Valley Groundwater Authority

Invoice number 2652-102
 Date 03/04/2026

2652-2026 Water Resources Management 2026

2652-2026:04 Data Mgmt System Support

Professional Fees

	Hours	Rate	Billed Amount
Supervisor II	0.50	197.00	98.50
Senior III	12.50	138.00	1,725.00
Phase subtotal			1,823.50

2652-2026:05 General Project Mgmt

Professional Fees

	Hours	Rate	Billed Amount
Supervisor I	5.00	212.00	1,060.00
Senior I	1.25	170.00	212.50
Phase subtotal			1,272.50

2652-2026:07.03 Resiliency Grant: Design

Professional Fees

	Hours	Rate	Billed Amount
Principal	1.50	244.00	366.00
Supervisor I	4.75	212.00	1,007.00
Associate II	41.25	119.00	4,908.75
Phase subtotal			6,281.75

2652-2026:07.04 Resiliency Grant: Environmental

Professional Fees

	Hours	Rate	Billed Amount
Supervisor I	2.00	212.00	424.00
Associate II	5.00	119.00	595.00
Phase subtotal			1,019.00

2652-2026:07.05 Resiliency Grant: Right of Way

Professional Fees

	Hours	Rate	Billed Amount
Supervisor I	1.50	212.00	318.00
Associate II	2.50	119.00	297.50
Phase subtotal			615.50

2652-2026:08 Imported Water: Negotiations & Coordination

Professional Fees

	Hours	Rate	Billed Amount
Principal	1.50	244.00	366.00
Supervisor I	2.25	212.00	477.00
Phase subtotal			843.00



Indian Wells Valley Groundwater Authority
 Project 2652 Indian Wells Valley Groundwater Authority

Invoice number 2652-102
 Date 03/04/2026

2652-2026 Water Resources Management 2026

2652-2026:11 Data Collection, Monitoring & Data Gaps

Professional Fees

	Hours	Rate	Billed Amount
Senior Associate	22.75	132.00	3,003.00

Reimbursables

	Units	Rate	Billed Amount
Equipment Purchase			
Solinst Canada Ltd.			434.34
	1.00	305.97	305.97

Subtotal 740.31

Subtotal 740.31

Storage Fee

Non Vendor Reimbursables

105.60

Phase subtotal 3,848.91

2652-2026:12 Shallow Well Consolidation Project

Professional Fees

	Hours	Rate	Billed Amount
Principal	7.00	244.00	1,708.00
Supervisor I	2.00	212.00	424.00
Associate II	13.75	119.00	1,636.25

Reimbursables

	Units	Rate	Billed Amount
Reproduction			
Boomerang Blueprint			42.43

Phase subtotal 3,810.68

2652-2026:18 Navy/Coso Royalty Fund: FY21 Rose Valley MW Permitting, Bid Doc Support & Drilli

Professional Fees

	Hours	Rate	Billed Amount
Senior Associate	0.75	132.00	99.00

2652-2026:18.1 Navy/Coso Cooperative Agreement

Professional Fees

	Hours	Rate	Billed Amount
Supervisor I	0.25	212.00	53.00

2652-2026:21 General Engineering

Professional Fees

	Hours	Rate	Billed Amount
Supervisor I	1.50	212.00	318.00



Indian Wells Valley Groundwater Authority
 Project 2652 Indian Wells Valley Groundwater Authority

Invoice number 2652-102
 Date 03/04/2026

2652-2026 Water Resources Management 2026

2652-2026:23 Annual Report Preparation

Professional Fees

	Hours	Rate	Billed Amount
Supervisor II	6.00	197.00	1,182.00
Senior I	11.50	170.00	1,955.00
Associate II	5.00	119.00	595.00
Phase subtotal			3,732.00

2652-2026:26 Budget Support

Professional Fees

	Hours	Rate	Billed Amount
Associate II	12.75	119.00	1,517.25

2652-2026:27 Litigation Support

Professional Fees

	Hours	Rate	Billed Amount
Principal	24.00	244.00	5,856.00
Special Project Director	84.25	244.00	20,557.00
Supervisor I	12.25	212.00	2,597.00
Supervisor II	116.00	197.00	22,852.00
Senior I	1.25	170.00	212.50
Associate II	56.00	119.00	6,664.00
Associate III	15.75	114.00	1,795.50
Administrative I	7.00	74.00	518.00

Reimbursables

	Units	Rate	Billed Amount
Car Rental and Gas			
Jean Moran			201.62
Lodging			
Jean Moran			715.77
Reproduction (Color)			
Non Vendor Reimbursables	363.00	0.89	323.07
Reproduction (Black and White)			
Non Vendor Reimbursables	3,647.00	0.15	547.05
Phase subtotal			62,839.51
Water Resources Management 2026 subtotal			112,760.10

Invoice total **112,760.10**



2171 E. Francisco Blvd., Suite K • San Rafael, California 94901
Phone: (415) 457-0701 • Fax: (415) 457-1638 • Website: www.stetsonengineers.com

Northern California • Southern California • Arizona • Oregon

Indian Wells Valley Groundwater Authority

Invoice number 2652-102

Project **2652 Indian Wells Valley Groundwater Authority**

Date 03/04/2026

Thank you for your business!

The page intentionally blank

INVOICE

Regional Government Services
PO Box 1350
Carmel Valley, CA 93924
AR@rgs.ca.gov
(650) 587-7300 x2



Indian Wells Valley Groundwater Authority
April Keigwin
akeigwin@rgs.ca.gov

January 31, 2026
Invoice No: 20829
Total This Invoice \$38,446.80

Project 04014.C210200000-40 Indian Wells Valley GA -Professional Employer Services
Professional Services from January 01, 2026 to January 31, 2026

Phase IWVGA General Administration
Professional Personnel

	Hours	Rate	Amount	
PES Agency Chief Executive	19.00	150.00	2,850.00	
Senior Advisor	9.80	150.00	1,470.00	
Technical Specialist	129.10	116.00	14,975.60	
Totals	157.90		19,295.60	
Total Labor				19,295.60

Additional Fees

Technology Fee			600.00	
Total Additional Fees			600.00	600.00
Total this Phase				\$19,895.60

Phase IWVGA Finance
Professional Personnel

	Hours	Rate	Amount	
Strategic Services Consultant	4.30	176.00	756.80	
Senior Advisor	52.00	140.00	7,280.00	
Senior Finance Manager	59.00	140.00	8,260.00	
Technical Specialist	14.90	116.00	1,728.40	
Totals	130.20		18,025.20	
Total Labor				18,025.20
Total this Phase				\$18,025.20

Phase IWVGA MIP
Professional Personnel

	Hours	Rate	Amount	
Strategic Services Consultant	2.00	176.00	352.00	
Totals	2.00		352.00	
Total Labor				352.00
Total this Phase				\$352.00

Phase IWVGA Website

Professional Personnel

	Hours	Rate	Amount
Technical Specialist	1.50	116.00	174.00
Totals	1.50		174.00
Total Labor			174.00
		Total this Phase	\$174.00
		Total this Invoice	<u><u>\$38,446.80</u></u>

The page intentionally blank



**CALIFORNIA ASSOCIATION OF MUTUAL WATER COMPANIES
JOINT POWERS RISK AND INSURANCE MANAGEMENT AUTHORITY (JPRIMA)
PACKAGE/AUTO/EXCESS**

COVERAGE PROPOSAL FOR:

Indian Wells Valley Groundwater Authority

COVERAGE PERIOD:

4/1/2026 - 4/1/2027

PRESENTED BY:

INSURICA Insurance Services, LLC

PROGRAM MANAGER

Allied Public Risk, LLC
CA DBA: Allied Community Insurance Services, LLC
CA License No. 0L01269
National Producer No. 17536322
www.alliedpublicrisk.com
(858) 866-8966

PREMIUM SUMMARY

NOTE: This proposal is prepared from information supplied to us on the application submitted by you or your insurance broker. It may or may not contain all terms requested on the application. Please review carefully and let us know if any additional information is required. In addition, this proposal may contain unintentional errors or omissions. We encourage you to bring them to our attention for review. This proposal does not amend, or otherwise affect or alter, the provisions of coverage provided. This proposal does not guarantee coverage for specific claims or losses under the policy. The availability of coverage depends on the JPRIMA Memorandum of Coverage (MOC) and is subject to its terms and conditions, the facts surrounding any potential claims, and relevant legal requirements. A specimen MOC is available for your review, as is the JPRIMA Member Agreement. Enrollment in the JPRIMA requires execution of the JPRIMA Member Agreement as well as membership in the California Association of Mutual Water Companies (Cal Mutuals).

SECTION	COVERAGE		PREMIUM
1	PROPERTY (Including Equipment Breakdown, if granted)	\$	Excluded
2	INLAND MARINE	\$	Excluded
3	COMMERCIAL CRIME (Including Faithful Performance, if granted)	\$	693.00
4	COMMERCIAL GENERAL LIABILITY	\$	8,196.00
5	PUBLIC OFFICIALS & MANAGEMENT LIABILITY (Including Wrongful Acts, Employment Practices, or Employee Benefits, if granted)	\$	4,001.00
6	BUSINESS AUTO	\$	N/A
7	COMMERCIAL EXCESS LIABILITY (Including Commercial General Liability, Wrongful Acts, Employment Practices, Employee Benefits, Business Auto, and Employers Liability, if granted)	\$	5,973.00
	MEMBER CONTRIBUTION (excludes state-imposed taxes, surcharges, and fees)	\$	18,863.00
	JPRIMA ADMINISTRATION FEES	\$	1,988.00
	TOTAL AMOUNT DUE*	\$	20,851.00

*Payment is due within 30 days of the effective date.

NOTES:

The JPRIMA MOC has a common anniversary date of April 1.

The Member's FEIN number is required in order to bind coverage.

Terrorism Coverage is automatically included for Property, General Liability and Excess in most regions of CA.

Premiums quoted are subject to binding all lines.

Section 1. PROPERTY (Included in the proposal? No)

ISSUER:	<ul style="list-style-type: none"> California Association of Mutual Water Companies Joint Powers Risk and Insurance Management Authority (JPRIMA) No Joint and Several Liability for Members 100% Reinsured
REINSURER	<ul style="list-style-type: none"> A+ XV (Superior) A.M. Best Rating AA- Standard & Poor's Rating
FORM:	Proprietary & Integrated

LIMITS

Total Insured Values: (Real Property & Business Personal Property)	N/A
Loss of Income (aka: Business Income)	N/A
Extra Expense	N/A
Equipment Breakdown	N/A
*Flood Zone Low/Moderate <u>[N/A]</u> (Each Occurrence)	N/A

* Munich/APR cannot warrant or provide information as to what zone(s) a specific location/address is situated in. Flood zones can and do change. It is ultimately the responsibility of the member and their insurance advisor to determine if the flood zones and flood limits proposed are adequate for their needs.

DEDUCTIBLES

Property Deductible (per occurrence)	N/A	Flood Zone Low/Moderate (\$) Deductible (per occurrence)	N/A
Equipment Breakdown Deductible (per occurrence) – aboveground and less than 50 feet belowground	N/A	Flood Zone Low/Moderate (%) Deductible (per occurrence/each affected item)	N/A
Equipment Breakdown Deductible (per occurrence) – greater than 50 feet belowground	N/A		

COVERED LOCATIONS:

Per Statement of Values: Blanket coverage applies unless otherwise noted.

SCHEDULE OF PROPERTY LIMITS – INDIVIDUAL LIMITS

LOC./BLDG NUM	BUILDING DESCRIPTION	BUILDING VALUE	CONTENTS VALUE	TOTAL INSURED VALUE	VALUATION	COINS. %
---------------	----------------------	----------------	----------------	---------------------	-----------	----------

COINSURANCE: N/A

POLICY HIGHLIGHTS:

- Broad Definition of Covered Property
- Option for Special Property Floater
- Form: Special Form (including Theft)
- Proprietary Coverage Extensions

VALUATION:

MEMBER: Indian Wells Valley Groundwater Authority
EFFECTIVE DATE: 4/1/2026

DISCLAIMER: Actual coverage is subject to the language of the policies as issued. Your issued policy may contain limits, exclusions, and limitations that are not detailed in this proposal.

- Replacement Cost: Real Property & Business Personal Property (All Buildings subject to Property Valuation²)
- Actual Loss Sustained: Loss of Income (aka: Business Income)
- Optional Extended Business Income & Extra Expense (12 months or \$1,000,000, whichever is less)

²Functional Replacement Cost and/or Actual Cash Value are available for older and lower valued buildings.

SELECTED OPTIONAL COVERAGES:

KEY EXCLUSIONS:

- Earthquake & Earth Movement
- Flood (unless coverage is designated above, such coverage would be limited to locations in Zone X (Unshaded)/C only)

SPECIAL COVERAGES

Newly Acquired or Under Construction Real Property and Related Personal Property: Pays up to \$1,000,000 for your newly acquired real property or under construction “real property” intended for use in your “operations” acquired or where construction began after policy inception. This applies to “real property” you buy, lease, rent, or construction, including temporary structures. An additional \$500,000 limit of insurance applies to “personal property” located at new premises.

Equipment Breakdown³: Pays up to the limit in the declarations for direct physical damage to covered real property or personal property and loss of income sustained and extra expense incurred that is the result of an accident or electronic circuitry impairment. The most paid under any one equipment breakdown is the limit for real property and personal property for the applicable premises. The most paid for loss of income or extra expense in any one equipment breakdown is the limit of insurance shown in the declarations under C. Loss of Income and D. Extra Expense, respectively. The limits in this extension are part of and not in addition to the limits applicable in Section I – Coverages.

Under this extension, the following coverages also apply to loss caused by or directly resulting from an accident or electronic circuitry impairment. However, with respect to coverage (9) Service Interruption below, coverage will apply only to the direct result of an accident and will not apply to the direct result of an electronic circuitry impairment. The coverages described in (1) through (10) below do not provide additional amounts of insurance, they are part of and not in addition to the applicable limits of insurance:

- (1) **Data Restoration** – Pays up to your reasonable and necessary cost to research, replace and restore lost electronic data. The most we will pay for loss, damage, or expense for electronic data restoration including actual loss of income you sustain and necessary extra expense you incur is **\$500,000**.
- (2) **Expediting Expenses** – With respect to your covered real property and personal property that is damaged, we will pay the reasonable cost to make temporary repairs; and expedite permanent repairs or permanent replacement. The most we will pay for loss or expense under this coverage is **\$100,000**.
- (3) **Extra Expense** – Extra expense is extended to apply to extra expense incurred as a result of an accident or electronic circuitry impairment covered under this extension, and subject to the policy limit.
- (4) **Green** – Subject to more extensive provisions outlined in the policy, we will pay additional costs for the repair, replacement, disposal, etc. and/or damages as they relate to items associated with a recognized environmental standards program. The most we will pay for any qualifying loss, damage, or expense under this coverage, including actual loss of Business Income you sustain and any necessary Extra Expense you incur is **\$100,000**.
- (5) **Hazardous Substances** – Pays for the additional cost to repair or replace covered real property or personal property because of contamination by a hazardous substance. This includes the additional expense to clean up or dispose of such property. This does not include contamination of perishable goods by refrigerant. The most we will pay for loss, damage, or expense under this coverage, including actual loss of income you sustain and necessary extra expense you incur is **\$250,000**.
- (6) **Loss of Income** – Loss of Income is extended to apply to loss of income sustained as a result of an accident or electronic circuitry impairment covered under this extension, and subject to the policy limit as show in the Equipment Breakdown Coverage Supplemental Declarations.
- (7) **Off-Premises Equipment Breakdown** – Subject to more extensive provisions outlined in the policy, this extends coverage to apply to an accident or electronic circuitry impairment for the following types of equipment used in the member’s firefighting, ambulance or rescue operations, whether mobile/portable or permanently mounted on a vehicle, anywhere in the policy territory: 1) mobile cascade units; 2) mobile electrical generators; 3) portable pumping units; and 4) portable extrication devices, such as jaws-of-life. For equipment other than that used in your firefighting, ambulance or rescue operations, we will pay for physical damage to transportable covered equipment that, at the time of the accident or impairment is not at a covered location, among other offerings. The most we will pay is **\$25,000**.

- (8) Public Relations** – Subject to you sustaining an actual loss of income covered under this extension, this pays for reasonable costs for professional services to create and disseminate communications, when the need for such communications arises direction for the interruption of your business. Communication must be directed to the media, public, or your customers/clients/members. Costs are subject to being incurred during the period of restoration + 30 days. The most we will pay for loss or expense under this coverage is **\$5,000**.
- (9) Service Interruption** – Subject to more extensive provisions outlined in the policy, any insurance provided for loss of income, extra expense, data restoration or spoilage is extended to apply to your loss, damage, or expense caused by a failure or disruption of service.
- (10) Spoilage** – We will pay for physical damage to perishable goods due to spoilage; for physical damage to perishable goods due to contamination from the release of refrigerant; and/or any necessary expenses you incur to reduce the amount of loss under this coverage. Valuation and replacement conditions apply. The most we will pay for loss, damage or expense under this coverage is **\$100,000**.

³Please consult the exact policy language for all provisions that apply to each of the above Equipment Breakdown coverage.

Pollution Remediation Expenses: Pays up to \$25,000 (covered cause of loss) or \$100,000 (specified cause of loss) for remediation expenses incurred as a result of an actual, alleged, or threatened presence of pollution conditions at a premises described in the Declarations from a Covered Causes of Loss or Specified Cause of Loss occurring during the policy period and reported within 180 days. Covered Causes of Loss means risks of direct physical loss unless the loss is excluded or limited by the Property Coverage Form. Limits may be increased for a charge.

Specified Cause of Loss means the following: fire, lightning, windstorm or hail, explosion, riot or civil commotion, vehicles or aircraft, smoke, sonic boom, vandalism and malicious mischief, sprinkler leakage, sinkhole collapse, volcanic action, falling objects, weight of ice, snow or sleet, or water damage. Water damage means only accidental discharge or leakage of water or steam as the direct result of the breaking or cracking of any part of a system or appliance containing water or steam.

Property In Transit or Off Premises: Pays up to \$100,000 for direct physical loss or damage to covered property (real and personal property) while in transit or while temporarily off premises caused by a covered cause of loss, including your covered computer hardware while off premises.

SCADA Upgrades: Pays up to \$100,000 to upgrade your scheduled SCADA system after direct physical loss from a Covered Cause of Loss. The upgrade is in addition to its replacement cost. SCADA means the Supervisory Control and Data Acquisition system used in water and wastewater treatment and distribution to monitor leaks, waterflow, water analysis, and other measurable items necessary to maintain operations.

Unintentional Errors: Pays up to \$250,000 for any unintentional error or omission you make in determining or reporting values or in describing the covered property or covered locations.

Personal Effects: Pays up to \$25,000 for direct physical loss or damage to personal effects owned by you, your officers, managers, elected or appointed officials, employees, or volunteer workers caused by a covered cause of loss at your premises. Will pay up to “replacement cost.”.

Lock Replacement: Pays up to \$25,000 for lock, lock cylinder, & key replacement after theft at covered premises or damage to a lock as a result of a covered cause of loss at a covered premises. No deductible applies.

Foundations: Your real property includes foundations located at a described premise.

KEY DEFINITIONS

Covered Equipment: Means covered real property and personal property that generates, transmits, or utilizes energy or which, during normal usage, operates under vacuum or pressure, other than the weight of its contents. Covered equipment may utilize conventional design and technology or new or newly commercialized design and technology.

None of the following is covered equipment: (a) structures, foundation, cabinet or compartment; (b) insulating or refractory material; (c) sewer piping, buried vessels or piping, piping forming or part of a sprinkler or fire suppression system; (d) water piping other than boiler feedwater piping, boiler condensate return piping or water piping form as part of a refrigerating or air conditioning system; (e) vehicle or any equipment mounted on a vehicle; (f) satellite, spacecraft or any equipment mounted on a satellite or spacecraft; (g) dragline, excavation, or construction equipment; (h) equipment manufactured by you for sale; or (h) electronic data.

Electronic Circuitry: Means microelectronic components, including but not limited to circuit boards, integrated circuits, computer chips, and disk drives.

Electronic Circuitry Impairment:

- (a) Means a fortuitous event involving electronic circuitry within covered equipment to suddenly lose its ability to function as it had been functioning immediately before such event. This definition is subject to the conditions specified in (b), (c), and (d) below.
- (b) We shall determine that the reasonable and appropriate remedy to restore such covered equipment's ability to function is the replacement of one or more electronic circuitry components of the covered equipment.
- (c) The covered equipment must be owned or leased by you or operated under your control.
- (d) None of the following is an electronic circuitry impairment:
 - (i) Any condition that can be reasonably remedied by:
 - 1) Normal maintenance, including but not limited to replacing expendable parts, recharging batteries or cleaning;
 - 2) Rebooting, reloading, or updating software or firmware; or
 - 3) Providing necessary power or supply.
 - (ii) Any condition caused by or related to:
 - 1) Incompatibility of the covered equipment with any software or equipment installed, introduced, or networked within the prior 30 days; or
 - 2) Insufficient size, capability, or capacity of the covered equipment;
 - 3) Exposure to adverse environmental conditions, including but not limited to change in temperature or humidity, unless such conditions result in an observable loss of functionality. Loss of warranty shall not be considered an observable loss of functionality.

Outdoor Property: Fixed or permanent structures including but not limited to:

- › Docks, wharves, piers, pilings, or bulkheads;
- › Dumpsters, concrete trash containers, or permanent recycling bins;
- › Electric utility power transmission and distribution lines, poles and related equipment owned by the member;
- › Exterior signs not located at a premises;
- › Fences and retaining walls;
- › Historical markers and flagpoles;
- › Hydrants, not associated with a sprinkler system;
- › Lighting towers;
- › Playground equipment, park shelters, pedestrian-only bridges, picnic tables, water fountains or coolers, benches, dugouts, bleachers, or scoreboards;
- › Storage sheds, garages, pavilions, or other similar buildings or structures not located at a premises; or
- › Traffic lights, streetlights, traffic signs, parking meters, or bus shelters.

Personal Property: Means all property used in your operations other than real property, including but, not limited to:

- › Furnishings and office equipment
- › Building contents;
- › Computer equipment;
- › Communication systems;

- Materials, supplies (including your inventory of vehicle parts and supplies) while held on your premises awaiting installation;
- Base stations and dispatching systems, provided the property is on your premises and also provided you own the property, or the property is in your custody or control, and you are responsible for it, even though it belongs to someone else;
- Value of your right to use improvements made as a tenant, if you have paid for alterations or additions to any building or structure that you do not own (improvements must be at a premises).

Pollution Conditions: The discharge, dispersal, release, seepage, migration, or escape of smoke, vapors, soot, fumes, acids, alkalis, toxic chemicals, liquids or gases, hazardous materials, waste materials (including medical, infectious and pathological wastes) or electromagnetic fields into or upon land or any structures thereon, the atmosphere, or any watercourse or body of water including groundwater.

Real Property: The items at a premises described in the Declarations.

This includes:

- Aboveground piping;
- Aboveground and belowground "penstock";
- Additions under construction;
- Air cascade units that are not designed to be used off "premises";
- All appurtenant buildings or structures other than playground equipment, park shelters, pedestrian-only bridges, picnic tables, water fountains or coolers, benches, dugouts, bleachers, or scoreboards;
- Alterations and repairs to the buildings or structures;
- Completed additions;
- Exterior signs, meaning neon, automatic, mechanical, electric or other signs either attached to the outside of a building or structure, or standing free in the open;
- Foundations;
- Materials, equipment, supplies and temporary structures you own or for which you are responsible, on the "premises" or in the open (including property inside "vehicles") within 1,000 feet of the "premises", used for making additions, alterations or repairs to buildings or structures at the "premises";
- Outdoor fixtures;
- Paved surfaces such as sidewalks, bike paths, walkways, patios or parking lots;
- Permanently installed fixtures, machinery, and equipment;
- "Personal property" used for the maintenance and service of buildings or structures, including tools, lawn care equipment, and free-standing appliances for refrigerating, ventilating, cooking, dishwashing and laundering;
- Submersible pumps, pump motors and engines; or
- Underground piping located on or within 100 feet of a "premises" described in the Declarations.

Remediation Expenses: Expenses incurred for or in connection with the investigation, monitoring, removal, disposal, treatment, or neutralization of pollution conditions to the extent required by: (1) federal, state or local laws, regulations or any subsequent amendments thereof enacted to address pollution conditions; and (2) a legally executed state voluntary program governing the cleanup of pollution conditions.

Tools and Equipment: All tools and equipment, together with attached devices, accessories and trailers, that are used in your operations. Tools and equipment include, but are not limited to, hand tools, mechanics tools, power tools, meter readers, generators, air compressors, welders, trash pumps, trenchers, saws, jackhammers, maintenance or diagnostic equipment including specialized audio-visual equipment and its associated laptop, as well as recreational equipment, such as outdoor portable seating, temporary stands, food service trailers not licensed for road use, or portable restrooms.

Tools and equipment also include mobile equipment such as, but not limited to, bulldozers, mobile equipment that travels on crawler treads, tractors, loaders, backhoes, excavators, graders, or road surfacing equipment, and equipment whether self-propelled or not, maintained primarily to provide mobility to permanently mounted cranes, shovels, loaders, diggers, and drills. Tools and equipment also include snowplows, salt spreaders, and other similar equipment when not attached to a vehicle.

PROPERTY SUBLIMITS	
Coverage	Limit
Accounts Receivable	\$50,000
Arson, Theft, or Vandalism Information Reward	\$25,000
Building Glass – Tenant	Lesser of replacement cost or amount liable under contract
Claim Expense	\$20,000
Commandeered Property (RC + loss of use)	For the time you officially use the commandeered property + reasonable return time.
Damage to Building from Theft	\$100,000
Debris Removal Expenses	25% + \$100,000
Equipment Breakdown	Building + BPP Limit + Loss of Income & Extra Expense
Fine Arts	\$50,000 (appraised) \$25,000 (unappraised – subject to \$1,500/item max)
Fire Department Charges	\$25,000
Fire Extinguishing Equipment Recharge Costs	“Necessary and reasonable” (per policy)
Limited Coverage for Fungus, Wet Rot or Dry Rot	\$25,000
Lock Replacement	\$25,000
Newly Acquired or Under Construction Real Property (Coverage A) and Related Personal Property (Coverage B)	Coverage A: \$1,000,000 Coverage B: \$500,000
Non-owned Detached Trailers	\$50,000
Ordinance Coverage Coverage A: Undamaged Real Property Coverage B: Demolition Coverage C: Increased Cost	Coverage A: Limit of Insurance (applicable to that item) Coverage B and Coverage C: Greater of 100% of direct physical loss or \$1,000,000
Outdoor Property	
Personal Effects	\$25,000
Pollution Remediation Expense (covered cause of loss)	\$25,000
Pollution Remediation Expense (specified cause of loss)	\$100,000
Preservation of Property	Included
Real Property or Personal Property in Transit or Off-Premises	\$100,000
Software	\$500,000
Spoilage Due to Off Premises Electric Service Interruption	\$50,000
Supplementary Provisions for Coverage C. “Loss of Income” and Coverage D “Extra Expense”	Included
Trees, Shrubs, Plants and Lawns (max \$1,000 any one item)	\$25,000
Utility Services – Direct Damage	
Valuable Papers and Records	\$50,000
Water Contamination Notification Expense	\$25,000 (annual aggregate)
Water Sewer Backup	

NOTES:

Contribution is calculated from application’s property schedule (please review property schedule for coverage and limit adequacy).
Property coverage is excluded.

Section 2. INLAND MARINE (Included in the proposal? No)

ISSUER:	<ul style="list-style-type: none"> ▪ California Association of Mutual Water Companies Joint Powers Risk and Insurance Management Authority (JPRIMA) ▪ No Joint and Several Liability for Members ▪ 100% Reinsured
REINSURER	<ul style="list-style-type: none"> ▪ A+ XV (Superior) A.M. Best Rating ▪ AA- Standard & Poor's Rating
FORM:	Proprietary & Integrated

LIMITS

Coverage A: Blanket Tools and Equipment: (Unscheduled, Maximum \$10,000 any one item)	N/A
Coverage B: Scheduled Equipment:	N/A
Coverage C: Blanket Emergency Services Equipment:	N/A

COVERAGE EXTENSIONS – Adds or extends the coverage under Section I – Coverages. Unless stated otherwise in the policy, a) each extension is limited to direct physical loss or damage cause by or resulting from a covered cause of loss; b) the limits in each extension are in addition to the limits applicable in Section I – Coverages; and c) All other applicable terms and conditions of the coverage form apply to each extension. (**whichever comes first)

Debris Removal Expenses	Max \$15,000 (per occurrence)
Employee Tools (no deductible applies)	Max \$25,000 (per occurrence)
Emergency Services and Law Enforcement Personal Effects (Coverage C extension, no deductible applies)	Replacement Cost
Rented or Borrowed Equipment	
<ul style="list-style-type: none"> ▪ Coverage A: Blanket Tools and Equipment and Coverage C: Blanket Emergency Services Equipment (\$1,000 deductible applies) ▪ Coverage B: Scheduled Equipment (Extended to equipment not owned by you, \$1,000 deductible applies) 	<p>**Replacement Cost or \$10,000 (per occurrence)</p> <p>**Actual Cash Value or \$N/A (per occurrence)</p>
Newly Acquired Scheduled Equipment (Coverage B extension, \$1,000 deductible applies)	30 days on Replacement Cost (not to exceed purchase price)
Personal Watercraft and Watercraft (Coverage A & C extension only)	**Replacement Cost or \$25,000 (per occurrence)
Rental Reimbursement for Scheduled Equipment (Coverage B extension, no deductible applies)	Max \$10,000 (per occurrence)
Unmanned Aircraft (\$500 deductible applies)	Max \$25,000 (per occurrence)
Fire Department Charges (no deductible applies)	Max \$1,000 (per occurrence)
Fire Extinguishing Recharge Costs (no deductible applies)	Necessary and Reasonable Costs (extinguishing equipment must be for the protection of your inland marine equipment)

DEDUCTIBLES		
Coverage A: Blanket Tools and Equipment		N/A
Coverage B: Scheduled Equipment		N/A
Coverage C: Blanket Emergency Services Equipment		N/A

POLICY HIGHLIGHTS:

- Blanket Coverages: “Tools and Equipment” and “Emergency Services Equipment”
- Suite of Coverage Extensions available in the core form.
- Deductible Waiver in certain circumstances for Coverages A & B.
- Service Animal Floater Purchased: N/A – Valuation: Agreed Value (No deductible applies)

VALUATION:

- Coverage A: Blanket Tools and Equipment: Replacement Cost
- Coverage B: Scheduled Equipment: Replacement Cost or Actual Cash Value
- Coverage C: Blanket Emergency Services Equipment: N/A

NOTES:

Inland Marine coverage is excluded.

Section 3. COMMERCIAL CRIME (Included in the proposal? Yes)

ISSUER:	<ul style="list-style-type: none"> ▪ California Association of Mutual Water Companies Joint Powers Risk and Insurance Management Authority (JPRIMA) ▪ No Joint and Several Liability for Members ▪ 100% Reinsured
REINSURER	<ul style="list-style-type: none"> ▪ A+ XV (Superior) A.M. Best Rating ▪ AA- Standard & Poor's Rating
FORM:	Proprietary & Integrated

LIMITS

Coverage Group	Employee Theft	Forgery or Alteration	Theft of Money & Securities (Inside the Premises)	Robbery or Safe Burglary (Inside the Premises)	Outside the Premises	Computer & Funds Transfer Fraud	Money Orders & Counterfeit Money
5	\$250,000	\$250,000	\$250,000	\$100,000	\$250,000	\$250,000	\$250,000

DEDUCTIBLE

\$1,000 (each claim)

POLICY HIGHLIGHTS:

Separate Limits Apply to Each Coverage
 Broad Definition of Employee
 Non-auditable
 Faithful Performance of Duty

NOTES:

Fraudulent Impersonation is excluded.

Section 4. COMMERCIAL GENERAL LIABILITY (Included in the proposal? Yes)

ISSUER:	<ul style="list-style-type: none"> ▪ California Association of Mutual Water Companies Joint Powers Risk and Insurance Management Authority (JPRIMA) ▪ No Joint and Several Liability for Members ▪ 100% Reinsured
REINSURER	<ul style="list-style-type: none"> ▪ A+ XV (Superior) A.M. Best Rating ▪ AA- Standard & Poor's Rating
FORM:	Proprietary & Integrated

LIMITS

General Aggregate	\$10,000,000
Products & Completed Operations Aggregate	\$10,000,000
Each Occurrence	\$1,000,000
Personal & Advertising Injury Limit	\$1,000,000
Damage to Premises Rented to You	\$1,000,000
Medical Payments	\$10,000

DEDUCTIBLE (Including Expenses)

\$5,000 (each occurrence)

SELECTED OPTIONAL COVERAGES

Hired/Non-Owned Auto Liability
Failure to Supply Water Liability

POLICY HIGHLIGHTS:

- Duty to Defend w/ Defense Costs In Addition to Limits
- Broad Definition of Enrolled Named Member – including, but not limited to Employees, Volunteers, Elected or Appointed Officials
- Host Liquor Liability, Unless Otherwise Excluded
- Owned (Up to 100 HP – higher available by endorsement) & Nonowned Watercraft
- Blanket Additional Enrolled Named Member
- Water & Wastewater Testing Errors and Omissions
- Failure to Supply (No ISO limitation)
- Lead (potable water)
- Waterborne Asbestos (potable water)
- Product Recall
- Impaired Property
- Fungi & Bacteria
- Non-auditable

MEMBER: Indian Wells Valley Groundwater Authority
EFFECTIVE DATE: 4/1/2026

DISCLAIMER: Actual coverage is subject to the language of the policies as issued.
Your issued policy may contain limits, exclusions, and limitations that are not detailed in this proposal.

SPECIAL COVERAGES

Asbestos: Exclusion exception wherein coverage is provided for bodily injury or property damage arising out of potable water which is supplied to others.

Contractual Liability - Railroads: Coverage is provided for any contract or agreement that indemnifies a railroad for bodily injury or property damage arising out of construction or demolition operations, within 50 feet of any railroad property and affecting any railroad bridge or trestle, tracks, road-beds, tunnel, underpass or crossing. Available via endorsement only.

Damage to Impaired Property or Property Not Physically Injured: Exclusion exception wherein the Damage to Impaired Property or Property Not Physically Injured exclusion does not apply to potable water, non-potable water, or wastewater as well as any loss of use of other property arising out of a sudden and accidental physical injury to the member's product or work after it has been put to its intended use.

Failure to Supply: Coverage is provided for bodily injury or property damage arising out of the failure of any member to adequately supply water.

Fungi or Bacteria: Exclusion exception wherein the Fungi or Bacteria exclusion does not apply to a) any fungi or bacteria that are on or are contained in a good or product intended for consumption; or b) any injury or damage arising out of or caused by your water, irrigation, or wastewater intake, outtake, reclamation, treatment, or distribution process.

Lead: Exclusion exception to Lead, Electromagnetic Radiation, Nuclear exclusion that creates an exception for potable water you supply to others for claims involving the toxic properties of lead, or any material or substance containing lead.

Recall of Products, Work or Impaired Property: Exclusion exception where in the Recall of Products, Work or Impaired Property exclusion does not apply to potable water, non-potable water, or wastewater.

Pollution: The pollution exclusion contains the following exceptions:

- To bodily injury if sustained within a building owned or occupied by a member and caused by smoke, fumes, vapor, or soot if produced or originating from certain equipment.
- To bodily injury or property damage arising out of heat, smoke, fumes from a hostile fire occurring or originating from certain premises, sites, or locations as outlined in the policy.
- To bodily injury or property damage that occurs as a result of your operations (unless otherwise specifically excluded) including:
 - › Potable water supplied to others;
 - › Chemicals used in your water/wastewater treatment process;
 - › Chemicals you use, apply or store for your ownership, maintenance, or operation of swimming pools;
 - › The use, application or storage of road salt or similar substances designed and used for snow/ice removal;
 - › Natural gas or propane gas you use in your water or wastewater treatment process;
 - › Urgent response for the protection of property, human life, health or safety conducted away from premises you own, rent or occupy;
 - › Training operations;
 - › Water runoff from the cleaning of equipment use in emergency service activities;
 - › Storage or application of pesticides/herbicides if such storage or application meets all standards of any statute, ordinance, regulation or license requirement of any federal, state or local government; or
 - › Fuels, lubricants or other operating fluids needed to perform the normal electrical, hydraulic or mechanical functions necessary for the operation of "mobile equipment" subject to additional policy terms.
 - › To bodily injury or property damage if such bi/pd is caused by the escape of back-up of sewage or wastewater from any sewage treatment facility or fixed conduit that you own, operate, lease, control.

Water & Wastewater Testing Errors and Omissions: Coverage is provided for damages arising out of an act, error, or omission which arises from your water or wastewater testing.

Who is Covered: Coverage is extended to Scheduled Named Members comprising individuals, spouses, partnerships, joint ventures, corporations, trusts, limited liability companies, public entities, operating authorities, boards, commissions, districts, governmental units, nonprofit entities, and other organizations. Members also include: elected or appointed officials; employees or volunteer workers; real estate managers; temporary custodians; legal representatives; medical directors; mutual aid agreements; Good Samaritans; owners of commandeered equipment; blanket additional enrolled named members; and newly acquired or formed entities.

KEY DEFINITIONS

Insured (Member) Contract:

- › A contract for a lease or premises (see full terms and conditions).
- › A sidetrack agreement;
- › Any easement or license agreement, except in connection with construction or demolition operations on or within fifty (50) feet of a railroad;
- › An obligation, as required by ordinance, to indemnify a municipality, except in connection with work for a municipality;
- › An elevator maintenance agreement;
- › That part of any other contract or agreement pertaining to your operations (including an indemnification of a municipality in connection with work performed for a municipality) under which you assume the tort liability of another party to pay for bodily injury or property damage to a third person or organization (see full terms and conditions).

Suit: Means a civil proceeding in which damages because of bodily injury, property damage, personal and advertising injury, medical incident, law enforcement wrongful act, or a water or wastewater professional activity to which this insurance applies are alleged. Suit includes: a) An arbitration proceeding in which such damages are claimed and to which the member must submit or does submit with our consent; or 2) Any other civil alternative dispute resolution proceeding in which such damages are claimed and to which the member submits with our consent.

NOTES:

Section 5. PUBLIC OFFICIALS & MANAGEMENT LIABILITY (Included in the proposal? Yes)

ISSUER:	<ul style="list-style-type: none"> ▪ California Association of Mutual Water Companies Joint Powers Risk and Insurance Management Authority (JPRIMA) ▪ No Joint and Several Liability for Members ▪ 100% Reinsured
REINSURER	<ul style="list-style-type: none"> ▪ A+ XV (Superior) A.M. Best Rating ▪ AA- Standard & Poor's Rating
FORM:	Proprietary & Integrated: Occurrence

LIMITS

Coverage A: Wrongful Acts - Employment Practices - Employee Benefits Liability	\$	1,000,000 Excluded Excluded	Each Wrongful Act or Offense
Coverage B: Injunctive Relief	\$	5,000	Each Action
Aggregate Limit	\$	10,000,000	Coverage A & B Combined

WRONGFUL ACTS DEDUCTIBLE	EMPLOYMENT PRACTICES DEDUCTIBLE
\$1,000 (each Wrongful Act or Offense Including Expenses)	N/A (each Wrongful Act or Offense Including Expenses)
WRONGFUL ACTS RETROACTIVE DATE (CLAIMS-MADE)	EMPLOYMENT PRACTICES RETROACTIVE DATE (CLAIMS-MADE)
N/A	N/A

EMPLOYEE BENEFITS LIABILITY RETROACTIVE DATE (CLAIMS-MADE)

N/A

POLICY HIGHLIGHTS:

- Duty To Defend
- Broad Definition of Named Enrolled Named Member
- Third Party Offense Coverage
- Non-auditable

SELECTED OPTIONAL COVERAGES:

KEY DEFINITIONS

Employment Practices: Injury, including consequential bodily injury, arising from any of your employment practices including, but not limited to:

- Discrimination;
- Harassment;
- Retaliation;
- Any actual or alleged wrongful dismissal, discharge, or termination (either actual or constructive) of employment, including breach of an implied employment contract or an implied covenant of good faith and fair dealing in an employment contract;
- Any actual or alleged wrongful hiring, demotion, discipline, evaluation, supervision and investigation of an employee or intentional interference with an employment contract;
- Any actual or alleged wrongful deprivation of a career opportunity, to promote an employee or the wrongful failure to employ;
- Any actual or alleged false arrest, false imprisonment, false detention or malicious prosecution, liable, slander, defamation, disparagement or invasion of the right of privacy, as respects employment practices;

MEMBER: Indian Wells Valley Groundwater Authority
EFFECTIVE DATE: 4/1/2026

DISCLAIMER: Actual coverage is subject to the language of the policies as issued.
Your issued policy may contain limits, exclusions, and limitations that are not detailed in this proposal.

- › The violation of any federal, state, or local statutes, rules or regulations applicable to employers;
- › The development, implementation, and enforcement of any and all practices, policies and procedures governing any aspect of employment practices;

Injunctive or Declaratory Relief: (a) means equitable relief sought through the demand for the issuance of a permanent, preliminary, or temporary injunction, restraining order, or similar prohibitive write against, or order for specific performance by, a member; or (b) any request that a court make a finding of law or fact, provided such action is filed during the policy period.

Wrongful Act: means any actual or alleged error, act, omission, neglect, misfeasance, nonfeasance, or breach of duty, including violation of any civil rights law, by any member in discharge of their duties individually or collectively that results directly but unexpectedly and unintentionally in damages to others.

NOTES:

EPLI, EBL and Cyber Liability are Excluded.

Section 6. BUSINESS AUTO (Included in the proposal? No)

ISSUER:	<ul style="list-style-type: none"> ▪ California Association of Mutual Water Companies Joint Powers Risk and Insurance Management Authority (JPRIMA) ▪ No Joint and Several Liability for Members ▪ 100% Reinsured
REINSURER	<ul style="list-style-type: none"> ▪ A+ XV (Superior) A.M. Best Rating ▪ AA- Standard & Poor's Rating
FORM:	Proprietary & Integrated

PORTFOLIO

Coverage	Symbol	Limit
Combined Single Limit for Bodily Injury & Property Damage (each accident)	N/A	N/A
Hired Auto Liability	N/A	N/A
Non-Owned Auto Liability	N/A	N/A
Medical Payments	N/A	N/A
Uninsured / Underinsured Motorists	N/A	N/A
Hired Physical Damage	N/A	N/A
Physical Damage – Comprehensive	N/A	N/A
Physical Damage – Collision	N/A	N/A

DEDUCTIBLE

Liability:	N/A (per accident)
Comprehensive:	N/A (each covered auto)
Collision:	N/A (each covered auto)

FLEET COVERAGE ENHANCEMENTS & COVERAGE EXTENSIONS (As Applicable)

- › Fleet Automatic Coverage
- › Commercial Auto 360 Endorsement
- › Pollution Liability – Broadened Coverage for Covered Autos

NOTES:

The Business Auto Coverage requires 17-digit VIN Numbers. The member's policy cannot be released without this information.

Auto coverage is excluded. Please refer to General Liability section for Hired and Non-Owned Auto Liability coverage.

Section 7. COMMERCIAL EXCESS LIABILITY (Included in the proposal? Yes)

ISSUER:	<ul style="list-style-type: none"> ▪ California Association of Mutual Water Companies Joint Powers Risk and Insurance Management Authority (JPRIMA) ▪ No Joint and Several Liability for Members ▪ 100% Reinsured
REINSURER	<ul style="list-style-type: none"> ▪ A+ XV (Superior) A.M. Best Rating ▪ AA- Standard & Poor's Rating
FORM:	Proprietary & Integrated

LIMITS

\$5,000,000/\$5,000,000

SCHEDULED UNDERLYING COVERAGE FORMS

Commercial General Liability – Included

Auto Liability – Excluded

Public Officials & Management Liability (Wrongful Acts) – Included

Employers' Liability: (minimum underlying limit requirement of \$500,000 / \$500,000 / \$500,000) – Excluded

Other:

NOTABLE COVERAGES INCLUDED IN THE EXCESS (require minimum underlying limits of \$1,000,000)

Law Enforcement Liability (General Liability) – Excluded

Hired and Non-Owned Auto Liability (General Liability) – Included

Employee Benefit Plans (General Liability) – Excluded

Inverse Condemnation (General Liability) – Excluded

Hired and Non-Owned Auto Liability (Owned Auto) – Excluded

Employment Practices (POML) – Excluded

Employee Benefit Plans (POML) – Excluded

Inverse Condemnation (POML) – Excluded

NOTABLE EXCLUSIONS:

- Workers' Compensation
- Uninsured Motorists / Underinsured Motorists
- Underlying Limits < \$1,000,000 except for Employer's Liability

NOTES:

Employers' Liability subject to MRSI security requirements.

Please provide a copy of the current W/C declarations for review and affirmation of coverage.

Section 8. UNDERWRITING SUBJECTIVITIES AND GENERAL NOTES

ISSUER:	<ul style="list-style-type: none"> ▪ California Association of Mutual Water Companies Joint Powers Risk and Insurance Management Authority (JPRIMA) ▪ No Joint and Several Liability for Members ▪ 100% Reinsured
REINSURER:	<ul style="list-style-type: none"> ▪ A+ XV (Superior) A.M. Best Rating ▪ AA- Standard & Poor's Rating
FORM:	Proprietary & Integrated
MEMBER:	Indian Wells Valley Groundwater Authority

GENERAL NOTES

QUOTE SUBJECTIVITIES:

THE FOLLOWING ITEMS ARE DUE AT THE TIME OF BINDING:

- ▶ Signed and Dated JPRIMA Application and Member FEIN # (required to bind auto).
- ▶ Terrorism: This coverage is included in most jurisdictions (all but 8) without an associated charge for Package (Property/GL). In those instances, a signed selection/rejection is **not** required. In the 8 jurisdictions with an associated charge including the entire State of California for Excess, a signed selection/rejection form is required to be returned at the time of binding.
- ▶ Signed and Dated Uninsured/Underinsured Motorist Selection/Rejection Form.
- ▶ Copy of the latest Dam Inspection reports and member response to any inspection deficiencies, if applicable and not already provided.
- ▶ Signed Statement of Values (Property, Inland Marine and Auto, as applicable).
- ▶ Provide Name, Phone Number, and Email Address for both the Risk Manager and Boiler & Machinery Inspection contacts.
- ▶ Provide a complete driver schedule including name, date of birth, and license number.

MEMBER: Indian Wells Valley Groundwater Authority
EFFECTIVE DATE: 4/1/2026

DISCLAIMER: Actual coverage is subject to the language of the policies as issued.
Your issued policy may contain limits, exclusions, and limitations that are not detailed in this proposal.



A D J U S T E R S , I N C

• CLAIMS ADMINISTRATORS • ADJUSTERS • INVESTIGATORS

Stanford Place I - 8055 East Tufts Avenue, Suite 600, Denver, CO 80237 – Ph: 877-533-1211

CLAIM CALL CENTER

**8055 E. Tufts Ave
Suite 600
Denver, CO 80237**

877-533-1211

**Adam Beltz– Ext 765
Reyleen Wood Ext 699
J. Mayer – Ext 664**

**Karen Zapata – Ext. 326
Subrogation Supervisor**

TO REPORT A NEW CLAIM OR LOSS

- **PHONE** **877-533-1211 Option 3
24 Hour Call Center**

- **E-MAIL** **networknewloss@networkadjusters.com**

The page intentionally blank



Your insurance partner beyond the policy

Your Property and Casualty Insurance is provided by CalMutuals JPRIMA. CalMutuals JPRIMA is a joint powers authority formed in 2016 through the passage of AB 656 with the purpose of providing best in class insurance to its members and ensuring technical and managerial resources to small water systems. CalMutuals JPRIMA proudly serves just over 500 water systems from the smallest to the largest, throughout California.

Insurance with CalMutuals JPRIMA requires membership with CalMutuals. Insureds that are not mutual water companies participate in the Association as *Affiliate Members*. CalMutuals JPRIMA takes pride in being your “insurance partner beyond the policy”.

Benefits of CalMutuals membership include:



Assistance to Very Small Systems

Affiliate Member dues help CalMutuals JPRIMA in providing sorely needed risk reduction support to very small (15-2999 connections) and disadvantaged water systems. CalMutuals JPRIMA further invests insurance residuals to programs and services to address critical needs of small water systems.



* Continuing Education

Help your team meet continuing education requirements. Enroll in free operator, safety, and management online training modules; including state-mandated board member ethics training.



Service Discontinuation Policy (SB 3) Resources

Navigate SB 3 compliance through our sample discontinuation policies and informative webinar, featuring step-by-step guidance from CalMutuals' General Counsel and Managing Director.



* Employee Background Checks

Streamline your hiring processes by taking advantage of free or discounted background checks by Universal Background Screening for criminal records, identity, driver's records, education and more.



Peer-to-Peer Support

Connect with CalMutuals members to address shared challenges. As issues emerge, reach out and we will work to identify members who may be able to provide insight, assistance and guidance.



Leadership Video Series

Tap into a vast and virtual library of videos on cybersecurity, inverse condemnation, risk management, human resources fundamentals and more, courtesy of our partnership with the American Association of Water Distribution & Management (AAWD&M).



Referrals to Preferred Vendors

Link to CalMutuals' preferred vendors; with expertise ranging from website design to pipe, valve and meter supply, to financial and engineering services. They're experienced in working with small systems and often provide discounts for members.



* Public Relations Support

Get free help with an immediate communications challenge from our partner Ortega Strategies Group. Ongoing public relations assistance is available to members on a consulting basis at a discounted rate.



Risk Management and Human Resources Tools

Members with Workers' Compensation insurance get answers to human resources and safety professionals questions using The Zenith's toll-free number. Find thousands of risk management, safety, and HR best practices resources at your fingertips through the Zenith Solution Center.



* Workplace Violence Prevention

Enhance workplace safety with our comprehensive workplace violence prevention plan template and free training customized specifically for your system.

REGISTER OR LEARN MORE

www.calmutuals.org/resources
www.calmutualsjprima.org/resources

info@calmutuals.org • (714) 709-4040

* Free to members with <500 connections and members with property and liability and worker's compensation insurance through JPRIMA. Discounted for all others.

The page intentionally blank

Broker Fee Disclosure

This document outlines the fees associated with the brokerage services provided by INSURICA to the client, Indian Wells Valley Groundwater Authority. The client acknowledges and agrees to the following fee structure for the services provided:

- 1. Broker Fee: \$ \$750.00
 - Description: This fee covers administrative costs associated with managing the client's insurance portfolio and may include processing, policy issuance, and other administrative tasks.

The client acknowledges that the fees disclosed above are part of the compensation structure for the brokerage services rendered. The client may request further details regarding the fee structure at any time.

Insured:

Signed: _____ Date: _____

Name: _____ Title: _____

Broker:

Signed: _____ Date: _____

Name: Daren Griswold

The page intentionally blank



INVOICE

2423 Sebald Ave
 Redondo Beach, CA 90278
 Phone 310.993.9555

DATE: February 28, 2026
INVOICE # IWVGA 05
FOR: Imported Water Project

CLSB 982332 - A & B

Bill To:
IWVGA
 100 W. California Avenue
 Ridgecrest, California 93555

Attn: April Keigwin, Agency Executive

DESCRIPTION	DURATION	RATE	AMOUNT
IMPORTED WATER PROJECT PROGRAM MANAGEMENT			
2/2/26 IWVGA Staff Meeting & Project Planning	3.0	\$ 275.00	\$825.00
2/3/26 IWVGA Coordination Meeting & Planning	2.0	\$ 275.00	\$550.00
2/4/26 IWVGA Staff Meeting, SCE Coordination Meeting	2.0	\$ 275.00	\$550.00
2/5/26 USACE Planning Meeting	1.0	\$ 275.00	\$275.00
2/6/26 IWVGA Project Planning & Evaluation Report Preparation	7.0	\$ 275.00	\$1,925.00
2/10/26 IWVGA Staff Meeting & Project Evaluation Summary	2.0	\$ 275.00	\$550.00
2/11/26 AVEK Meeting Planning	1.0	\$ 275.00	\$275.00
2/13/26 Project Evaluation Preparation	6.0	\$ 275.00	\$1,650.00
2/18/26 SCE Coordination Meeting	1.0	\$ 275.00	\$275.00
2/19/26 Project Development Team Meeting	2.0	\$ 275.00	\$550.00
2/20/26 Project Evaluation Preparation & Planning	5.0	\$ 275.00	\$1,375.00
2/23/26 IWVGA Staff Meeting, Evaluation Presentation	4.0	\$ 275.00	\$1,100.00
2/24/26 AVEK Meeting & Project Planning	7.0	\$ 275.00	\$1,925.00
2/25/26 BLM Planning Meeting	2.0	\$ 275.00	\$550.00
2/26/26 BLM Coordination Meeting	1.0	\$ 275.00	\$275.00
2/27/26 Project Planning - Design, Caltrans, & USACE	4.0	\$ 275.00	\$1,100.00
TOTAL HOURS	50.0		

See enclosed task detail for the work effort for the month of February 2026

AMOUNT BILLED THIS INVOICE \$ 13,750.00

CONTRACT SUMMARY:

DESCRIPTION OF SERVICES	CONTRACT AMOUNT	AMOUNT BILLED THROUGH THIS BILLING CYCLE	% COMPLETE THROUGH THIS BILLING CYCLE	AMOUNT BILLED THIS INVOICE
TASK 1 - PROGRAM MANAGEMENT SERVICES	\$ 220,000.00	\$ 53,074.50	24.1%	\$ 13,750.00

TOTAL: \$ 220,000.00 \$ 53,074.50 24.1%

INVOICE PAYMENTS PAST DUE OVER 30 DAYS:

Make all checks payable to **Blue Mountain Development, Inc.**
 If you have any questions concerning this invoice, contact Nick Biro at 310-993-9555

THANK YOU FOR YOUR BUSINESS!

The page intentionally blank



Capitol Core Group
 205 Cartwheel Bend (Operations Dept.)
 Austin, TX 78738 US
 +15125683084
 operations@capitolcore.com
 www.capitolcore.com

BILL TO

Indian Wells Valley Groundwater
 Authority
 500 West Ridgecrest Blvd.
 Ridgecrest, California 93555
 USA

INVOICE 2026-025

DATE 03/05/2026 **TERMS** Net 45

DUE DATE 04/19/2026

VENDOR ID
195593

INVOICE PERIOD
February 2026

DATE	ACCOUNT SUMMARY	AMOUNT
02/06/2026	Balance Forward	24,905.00
	Other payments and credits after 02/06/2026 through 03/04/2026	-13,261.25
03/05/2026	Other invoices from this date	0.00
	New charges (details below)	11,056.25
	Total Amount Due	22,700.00

ACTIVITY	HOURS	RATE	AMOUNT
Charges			
PROJECT 1: IMPORTED WATER SUPPLIES			
P1-A: Negotiations			
Government Relations: Intergovernmental Affairs Water Supply DIscussions w/ Legal and Staff {McKinney}	2.75	275.00	756.25
P1-B: Other Required Agreements			
Government Relations: Intergovernmental Affairs Interconnection {Tatum}	1	275.00	275.00
Government Relations: Intergovernmental Affairs Interconnection: {Simonetti}	0.75	250.00	187.50
P1-C: Regulatory Approvals			
Government Relations: Intergovernmental Affairs Due Diligence Activities {Tatum}	3	275.00	825.00
Government Relations: Intergovernmental Affairs Water Supply: Agency Due Diligence {Simonetti}	1.25	250.00	312.50
P1-D: 2026 Water Marketing			
Government Relations: Intergovernmental Affairs Water Supply Calls {Simonetti}	0.75	250.00	187.50
PROJECT 1 INVOICE TOTAL: \$2,543.75			
PROJECT 2: WATER REPLENISHMENT PIPELINE			
P2-A: FY2027 Energy and Water Development Act			

ACTIVITY	HOURS	RATE	AMOUNT
Government Relations:Federal Final Appropriations Packet Development, House Congressional Meetings {McKinney}	2	275.00	550.00
Government Relations:Federal Appropriations Support Letters, Packet Finalization, House Meeting and Senate Meetings {Simonetti}	3.75	250.00	937.50
P2-B: Other State/Federal Requirements			
Government Relations:California Agency: DWR Discussions {McKinney}	2	275.00	550.00
P2-C: Regulatory Support (Pipeline)			
P2-D: USACE Coordination			
Government Relations:Federal Internal Staff Meetings concerning transition {McKinney}	1	275.00	275.00
PROJECT 2 INVOICE TOTAL: \$2,312.50			
PROJECT 3: OTHER PROJECTS SUPPORTING THE GSP			
P3-A: Well Mitigation			
P3-B: Land Repurposing			
P3-C: Other Infrastructure Requirements			
P3-D: Groundwater Adjudication Legislation			
Government Relations:California Legislative: Assembly Meetings and internal calls {McKinney}	2	275.00	550.00
Government Relations:California Legislative: Assembly Meetings and interal staff calls {Simonetti}	2	250.00	500.00
Government Relations:California Legislature: Assembly and Senate Advocacy {Peterson}	3	250.00	750.00
P3-E General Governmental Affairs			
Government Relations:California Bill Analysis and Internal Reporting {McKinney}	3	275.00	825.00
Government Relations:California Bill Analysis and Review {Simonetti}	1.25	250.00	312.50
Government Relations:California Legislative: General Governmental Affairs (various/Split) {Peterson}	2	250.00	500.00
PROJECT 3 INVOICE TOTAL: \$3,437.50			
PROJECT ADMINISTRATION			
PA-A: Monthly Meetings			
General Business Items:Project Administration February Board Meeting and Preparation {McKinney}	2	275.00	550.00
General Business Items:Project Administration Board Meeting and Reports {Tatum}	3.50	275.00	962.50
General Business Items:Project Administration February Board Meeting and Preparation {Simonetti}	5	250.00	1,250.00
PROJECT ADMINISTRATION INVOICE TOTAL: \$2,762.50			
On behalf of the entire Capitol Core Group Team, thank you so much for being our client.			
	SUBTOTAL		11,056.25
	TAX		0.00

[View and pay](#)

TOTAL	11,056.25
TOTAL OF NEW CHARGES	11,056.25

TOTAL DUE	\$22,700.00
------------------	--------------------

The page intentionally blank

Westbound Communications, Inc.

3649 Mission Inn Ave., First Floor Rotunda
Riverside, CA 92501 US

951-462-1106

t Moran@westboundcommunications.com

www.westboundcommunications.com



BILL TO

April Keigwin
Indian Wells Valley Groundwater Authority
100 W California Ave
Ridgecrest, CA 93555

INVOICE 6016

DATE 02/18/2026 **TERMS** Net 30

DUE DATE 03/20/2026

P.O. NUMBER

December 2025

DESCRIPTION	QTY	RATE	AMOUNT
Professional fees for public relations counsel and services in support of Indian Wells Valley Groundwater Authority. Period of Service: January 2026	39.25	240.00	9,420.00
			Subtotal: 9,420.00
Reimbursable expenses for the billing period:			
Technology Access Fee	1	395.00	395.00
010826 Maven's Notebook target media outlet monthly subscription ref# 6746298887 (01/01/26- 01/31/26)			10.00
			Subtotal: 405.00

TOTAL DUE

\$9,825.00

We appreciate your business and look forward to helping you again soon.

The page intentionally blank

PROVOST & PRITCHARD CONSULTING GROUP

455 W Fir Ave • Clovis, CA 93611 • (559) 449-2700
www.provostandpritchard.com

April Keigwin
Indian Wells Valley Groundwater Authority
100 West California Avenue
Ridgecrest, CA 93555

February 24, 2026
Project No: 04101-23-001
Invoice No: 128086

Project Name: Indian Wells Valley Groundwater Authority-CEQA/NEPA Documents and Permit Documentation

Client Project #:

For the month of January 2026, P&P staff performed the following tasks:

TSK1: Initial Coordination: Continued coordination with BMD, Stetson, IWVGA, BLM and others for path forward on environmental documents.

TSK3: Technical Studies: Continued coordination with technical studies for changes in alignment and report back to team.

Professional Services from January 01, 2026 to January 31, 2026

Phase: TSK1 Initial Coordination (Kick Off Meetings)

Labor

	Hours	Rate	Amount	
Senior Biologist	7.89	162.00	1,278.18	
Senior Specialist	1.70	170.00	289.00	
Principal Planner	2.60	211.00	548.60	
Senior Project Administrator	3.30	134.00	442.20	
Totals	15.49		2,557.98	
Total Labor				2,557.98
		Total this Phase:		\$2,557.98

Phase: TSK3 Technical Studies

Labor

	Hours	Rate	Amount	
Senior Biologist	.01	162.00	1.62	
Senior Specialist	3.10	170.00	527.00	
Principal Planner	3.20	211.00	675.20	
Senior Project Administrator	5.50	134.00	737.00	
Totals	11.81		1,940.82	
Total Labor				1,940.82
		Total this Phase:		\$1,940.82

Total this Invoice \$4,498.80

The page intentionally blank



Check Payment Information:

GFT Infrastructure, Inc.
PO Box 829160, Philadelphia, PA 19182-9160 Federal EIN: 25-1613591

ACH/EFT Payment Information:

Account Name: GFT Infrastructure, Inc.
ABA: 031312738 Account No.: 5003165655 Wire Routing No.: 043000096
SWIFT: PNCCUS33 (required for international payments)

Send Remit Info: AccountsReivable@gftinc.com
Send Audit Inquiries: GovtContractAudit@gftinc.com
All Other Inquires Contact the Project Team

Indian Wells Valley Groundwater Authority
April Keigwin
100 W California Ave.
Ridgecrest, CA 93555

March 05, 2026
Invoice No: A0230025.601 -
000005002820

Due Date: April 04, 2026

Project A0230025.601 IWV-Imported Water Pipeline Acq

Professional Services from December 01, 2025 to December 31, 2025

Professional Personnel

	Hours	Rate	Amount
Guinaldo, Roy	6.00	165.00	990.00
Quick, Katie	4.60	135.00	621.00
Totals	10.60		1,611.00
Total Labor			1,611.00

Amount Due This Bill 1,611.00

Outstanding Invoices

Number	Date	Balance
INV005084124	12/15/2025	330.00
Total		330.00

The page intentionally blank

IWVGA ADMINISTRATIVE OFFICE

STAFF REPORT

TO: IWVGA Board of Directors **DATE:** March 11, 2025

FROM: April Keigwin, General Manager

SUBJECT: Contract Modification with Hamner & Jewell for Right of Way Acquisition Services

BACKGROUND

At the February 11, 2026 Regular Board Meeting, the Board approved a contract with Hamner & Jewell to provide right-of-way acquisition services in support of the Rademacher Way and Stark Street consolidation projects.

DISCUSSION

The Authority previously executed an agreement with Hamner & Jewell for right-of-way acquisition services. The general liability insurance requirements included in the agreement were based on a contract template typically used for construction-related projects, which carry higher operational risk.

The services provided by Hamner & Jewell are primarily administrative in nature, consisting largely of communication and coordination with property owners related to right-of-way acquisition. These activities are generally conducted through email and phone communications, with minimal travel to project locations.

To better align the insurance requirements with the scope and risk level of the services, staff recommends adjusting the required coverage to \$1 million per occurrence with a \$2 million aggregate. No other changes to the agreement are proposed.

FISCAL IMPACT

There is no change to the original contract proposal.

ACTION(S) REQUIRED BY THE BOARD

Staff recommends the Board approve the contract modification lowering the general liability insurance requirements to \$1 million per occurrence with a \$2 million aggregate.

The page intentionally blank

CONTRACT SERVICES AGREEMENT

By and Between

Indian Wells Valley Groundwater Authority

and

Beacon Integrated Professional Resources Inc., DBA Hamner, Jewell & Associates,

a California S-Corporation

for Consolidation Projects Easement Acquisition Services

**AGREEMENT FOR CONTRACT SERVICES
BETWEEN THE INDIAN WELLS VALLEY GROUNDWATER AUTHORITY**

AND

**BEACON INTEGRATED PROFESSIONAL RESOURCES INC., DBA HAMNER,
JEWELL & ASSOCIATES, A CALIFORNIA S-CORPORATION**

FOR

CONSOLIDATION PROJECTS

EASEMENT ACQUISITION SERVICES

THIS AGREEMENT FOR CONTRACT SERVICES (herein “Agreement”) is made and entered into this ____ day of _____, 2026 by and between the Indian Wells Valley Groundwater Authority, (“Authority”) and Beacon Integrated Resources Inc., DBA Hamner, Jewell & Associates, a California S-Corporation (“Contractor”). Authority and Contractor may be referred to, individually or collectively, as “Party” or “Parties.”

RECITALS

- A. Whereas, The Authority has recently secured a UCDRG grant funding opportunity through DWR for planning and design-level activities intended to consolidate individuals and small water systems into the Indian Wells Valley Water District (“IWVWD”). ;
- B. Whereas, on January 19, 2026 the Authority requested assistance from Contractor for easement acquisition services for Consolidation Projects.
- C. Whereas, Contractor responded to Authority and Contractor desires to enter into this Agreement for acquisition of easement services.

OPERATIVE PROVISIONS

NOW, THEREFORE, in consideration of the mutual promises and covenants made by the Parties and contained herein and other consideration, the value and adequacy of which are hereby acknowledged, the parties agree as follows:

ARTICLE 1. SERVICES OF CONTRACTOR/CONSULTANT

1.1 Scope of Services.

In compliance with all terms and conditions of this Agreement, the Contractor shall provide those services specified in the “Scope of Work” in its proposal or bid, which shall be incorporated herein by this reference as though fully set forth herein as Exhibit “A,” which may be referred to herein as the “services” or “work” hereunder. In the event of any inconsistency between the terms of such proposal and this Agreement, the terms of this Agreement shall

govern. As a material inducement to the Authority entering into this Agreement, Contractor represents and warrants that it has the qualifications, experience, and facilities necessary to properly perform the services required under this Agreement in a thorough, competent, and professional manner, and is experienced in performing the work and services contemplated herein. Contractor shall at all times faithfully, competently and to the best of its ability, experience and talent, perform all services described herein. Contractor covenants that it shall follow the highest professional standards in performing the work and services required hereunder and that all materials will be both of good quality as well as fit for the purpose intended. For purposes of this Agreement, the phrase “highest professional standards” shall mean those standards of practice recognized by one or more first-class firms performing similar work under similar circumstances.

1.2 Compliance with Law.

Contractor shall keep itself informed concerning, and shall render all services hereunder in accordance with, all ordinances, resolutions, statutes, rules, and regulations of the Authority and any Federal, State or local governmental entity having jurisdiction in effect at the time service is rendered.

1.3 Licenses, Permits, Fees and Assessments.

Contractor shall obtain at its sole cost and expense such licenses, permits and approvals as may be required by law for the performance of the services required by this Agreement. Contractor shall have the sole obligation to pay for any fees, assessments and taxes, plus applicable penalties and interest, which may be imposed by law and arise from or are necessary for the Contractor’s performance of the services required by this Agreement, and shall indemnify, defend and hold harmless Authority, its officers, employees or agents of Authority, against any such fees, assessments, taxes, penalties or interest levied, assessed or imposed against Authority hereunder.

1.4 Familiarity with Work.

By executing this Agreement, Contractor warrants that Contractor (i) has thoroughly investigated and considered the scope of services to be performed, (ii) has carefully considered how the services should be performed, and (iii) fully understands the facilities, difficulties and restrictions attending performance of the services under this Agreement. If the services involve work upon any site, Contractor warrants that Contractor has or will investigate the site and is or will be fully acquainted with the conditions there existing, prior to commencement of services hereunder. Should the Contractor discover any latent or unknown conditions, which will materially affect the performance of the services hereunder, Contractor shall immediately inform the Authority of such fact and shall not proceed except at Contractor’s risk until written instructions are received from the Water Resource Manager.

1.5 Care of Work.

The Contractor shall adopt reasonable methods during the life of the Agreement to furnish continuous protection to the work, and the equipment, materials, papers, documents,

plans, studies and/or other components thereof to prevent losses or damages, and shall be responsible for all such damages, to persons or property, until acceptance of the work by Authority, except such losses or damages as may be caused by Authority's own negligence.

1.6 Further Responsibilities of Parties.

Both parties agree to use reasonable care and diligence to perform their respective obligations under this Agreement. Both parties agree to act in good faith to execute all instruments, prepare all documents and take all actions as may be reasonably necessary to carry out the purposes of this Agreement. Unless hereafter specified, neither party shall be responsible for the service of the other.

ARTICLE 2. COMPENSATION AND METHOD OF PAYMENT.

2.1 Contract Sum.

Subject to any limitations set forth in this Agreement, Authority agrees to pay Contractor the amounts specified in the "Budget Proposal" included in Exhibit "A" and incorporated herein by this reference. The total compensation, including reimbursement for actual expenses, shall not exceed Fifty Nine Thousand, Five Hundred Dollars (\$59,500.00) (the "Contract Sum").

2.2 Method of Compensation.

The method of compensation may include: (i) a lump sum payment upon completion; (ii) payment in accordance with specified tasks or the percentage of completion of the services, less contract retention; (iii) payment for time and materials based upon the Contractor's rates as specified in the Schedule of Compensation, provided that (a) time estimates are provided for the performance of sub tasks, (b) contract retention is maintained, and (c) the Contract Sum is not exceeded; or (iv) such other methods as may be specified in the Schedule of Compensation.

2.3 Reimbursable Expenses.

Compensation may include reimbursement for actual and necessary expenditures for reproduction costs, telephone expenses, and travel expenses approved by the Water Resource Manager in advance, or actual subcontractor expenses of an approved subcontractor pursuant to Section 4.5, and only if specified in the Schedule of Compensation. The Contract Sum shall include the attendance of Contractor at all project meetings reasonably deemed necessary by the Authority. Coordination of the performance of the work with Authority is a critical component of the services. If Contractor is required to attend additional meetings to facilitate such coordination, Contractor shall not be entitled to any additional compensation for attending said meetings.

2.4 Invoices.

Each month Contractor shall furnish to Authority an original invoice for all work performed and expenses incurred during the preceding month in a form approved by Authority. By submitting an invoice for payment under this Agreement, Contractor is certifying compliance

with all provisions of the Agreement. The invoice shall contain all information specified in Exhibit “B”, and shall detail charges for all necessary and actual expenses by the following categories: labor (by sub-category), travel, materials, equipment, supplies, and sub-contractor contracts. Sub-contractor charges shall also be detailed by such categories. Contractor shall not invoice Authority for any duplicate services performed by more than one person.

Authority shall independently review each invoice submitted by the Contractor to determine whether the work performed and expenses incurred are in compliance with the provisions of this Agreement. Except as to any charges for work performed or expenses incurred by Contractor which are disputed by Authority, or as provided in Section 7.3, Authority will use its best efforts to cause Contractor to be paid within forty-five (45) days of receipt of Contractor’s correct and undisputed invoice; however, Contractor acknowledges and agrees that due to Authority warrant run procedures, the Authority cannot guarantee that payment will occur within this time period. In the event any charges or expenses are disputed by Authority, the original invoice shall be returned by Authority to Contractor for correction and resubmission. Review and payment by Authority for any invoice provided by the Contractor shall not constitute a waiver of any rights or remedies provided herein or any applicable law.

2.5 Waiver.

Payment to Contractor for work performed pursuant to this Agreement shall not be deemed to waive any defects in work performed by Contractor.

ARTICLE 3. PERFORMANCE SCHEDULE

3.1 Time of Essence.

Time is of the essence in the performance of this Agreement.

3.2 Schedule of Performance.

Contractor shall commence the services pursuant to this Agreement upon receipt of a written notice to proceed and shall perform all services within the time period(s) established in the “Schedule” included in Exhibit “A” and incorporated herein by this reference. When requested by the Contractor, extensions to the time period(s) specified in the Schedule may be approved in writing by the Water Resource Manager but not exceeding one hundred eighty (180) days cumulatively.

3.3 Force Majeure.

The time period(s) specified in the Schedule of Performance for performance of the services rendered pursuant to this Agreement shall be extended because of any delays due to unforeseeable causes beyond the control and without the fault or negligence of the Contractor, including, but not restricted to, acts of God or of the public enemy, unusually severe weather, fires, earthquakes, floods, epidemics, quarantine restrictions, riots, strikes, freight embargoes, wars, litigation, and/or acts of any governmental agency, including the Authority, if the Contractor shall within ten (10) days of the commencement of such delay notify the Water

Resource Manager in writing of the causes of the delay. The Water Resource Manager shall ascertain the facts and the extent of delay, and extend the time for performing the services for the period of the enforced delay when and if in the judgment of the Water Resource Manager such delay is justified. The Water Resource Manager's determination shall be final and conclusive upon the parties to this Agreement. In no event shall Contractor be entitled to recover damages against the Authority for any delay in the performance of this Agreement, however caused, Contractor's sole remedy being extension of the Agreement pursuant to this Section.

3.4 Term.

Unless earlier terminated in accordance with Article 7 of this Agreement, this Agreement shall continue in full force and effect until completion of the services but not exceeding one (1) year from the date hereof, except as otherwise provided in the Schedule (Exhibit "A").

ARTICLE 4. COORDINATION OF WORK

4.1 Representatives and Personnel of Contractor.

The following principals of Contractor ("Principals") are hereby designated as being the principals and representatives of Contractor authorized to act in its behalf with respect to the work specified herein and make all decisions in connection therewith:

Lillian D. Jewell

President

It is expressly understood that the experience, knowledge, capability and reputation of the foregoing principals were a substantial inducement for Authority to enter into this Agreement. Therefore, the foregoing principals shall be responsible during the term of this Agreement for directing all activities of Contractor and devoting sufficient time to personally supervise the services hereunder. All personnel of Contractor, and any authorized agents, shall at all times be under the exclusive direction and control of the Principals. For purposes of this Agreement, the foregoing Principals may not be replaced nor may their responsibilities be substantially reduced by Contractor without the express written approval of Authority. Additionally, Contractor shall utilize only competent personnel to perform services pursuant to this Agreement. Contractor shall make every reasonable effort to maintain the stability and continuity of Contractor's staff and subcontractors, if any, assigned to perform the services required under this Agreement. Contractor shall notify Authority of any changes in Contractor's staff and subcontractors, if any, assigned to perform the services required under this Agreement, prior to and during any such performance.

4.2 Status of Contractor.

Contractor shall have no authority to bind Authority in any manner, or to incur any obligation, debt or liability of any kind on behalf of or against Authority, whether by contract or otherwise, unless such authority is expressly conferred under this Agreement or is otherwise expressly conferred in writing by Authority. Contractor shall not at any time or in any manner

represent that Contractor or any of Contractor's officers, employees, or agents are in any manner officials, officers, employees or agents of Authority. Neither Contractor, nor any of Contractor's officers, employees or agents, shall obtain any rights to retirement, health care or any other benefits which may otherwise accrue to Authority's employees. Contractor expressly waives any claim Contractor may have to any such rights.

4.3 Water Resource Manager.

The Water Resource Manager shall be such person as may be designated by the Authority. It shall be the Contractor's responsibility to assure that the Water Resource Manager is kept informed of the progress of the performance of the services and the Contractor shall refer any decisions which must be made by Authority to the Water Resource Manager. Unless otherwise specified herein, any approval of Authority required hereunder shall mean the approval of the Water Resource Manager. The Water Resource Manager shall have authority, if specified in writing by the Authority Manager, to sign all documents on behalf of the Authority required hereunder to carry out the terms of this Agreement.

4.4 Independent Contractor.

Neither the Authority nor any of its employees shall have any control over the manner, mode or means by which Contractor, its agents or employees, perform the services required herein, except as otherwise set forth herein. Authority shall have no voice in the selection, discharge, supervision or control of Contractor's employees, servants, representatives or agents, or in fixing their number, compensation or hours of service. Contractor shall perform all services required herein as an independent contractor of Authority and shall remain at all times as to Authority a wholly independent contractor with only such obligations as are consistent with that role. Contractor shall not at any time or in any manner represent that it or any of its agents or employees are agents or employees of Authority. Authority shall not in any way or for any purpose become or be deemed to be a partner of Contractor in its business or otherwise or a joint venturer or a member of any joint enterprise with Contractor.

4.5 Prohibition Against Subcontracting or Assignment.

The experience, knowledge, capability and reputation of Contractor, its principals and employees were a substantial inducement for the Authority to enter into this Agreement. Therefore, Contractor shall not contract with any other entity to perform in whole or in part the services required hereunder without the express written approval of the Authority. In addition, neither this Agreement nor any interest herein may be transferred, assigned, conveyed, hypothecated or encumbered voluntarily or by operation of law, whether for the benefit of creditors or otherwise, without the prior written approval of Authority. Transfers restricted hereunder shall include the transfer to any person or group of persons acting in concert of more than twenty five percent (25%) of the present ownership and/or control of Contractor, taking all transfers into account on a cumulative basis. In the event of any such unapproved transfer, including any bankruptcy proceeding, this Agreement shall be void. No approved transfer shall release the Contractor or any surety of Contractor of any liability hereunder without the express consent of Authority.

ARTICLE 5. INSURANCE AND INDEMNIFICATION

5.1 Insurance Coverages.

Without limiting Contractor's indemnification of Authority, and prior to commencement of any services under this Agreement, Contractor shall obtain, provide and maintain at its own expense during the term of this Agreement, policies of insurance of the type and amounts described below and in a form satisfactory to Authority.

(a) General liability insurance. Contractor shall maintain commercial general liability insurance with coverage at least as broad as Insurance Services Office form CG 00 01, in an amount not less than \$1,000,000 per occurrence, \$2,000,000 general aggregate, for bodily injury, personal injury, and property damage. The policy must include contractual liability that has not been amended. Any endorsement restricting standard ISO "insured contract" language will not be accepted.

(b) Automobile liability insurance. Contractor shall maintain automobile insurance at least as broad as Insurance Services Office form CA 00 01 covering bodily injury and property damage for all activities of the Contractor arising out of or in connection with Services to be performed under this Agreement, including coverage for any owned, hired, non-owned or rented vehicles, in an amount not less than \$1,000,000 combined single limit for each accident.

(c) Professional liability (errors & omissions) insurance. Contractor shall maintain professional liability insurance that covers the Services to be performed in connection with this Agreement, in the minimum amount of \$1,000,000 per claim and in the aggregate. Any policy inception date, continuity date, or retroactive date must be before the effective date of this Agreement and Contractor agrees to maintain continuous coverage through a period no less than three (3) years after completion of the services required by this Agreement.

(d) Workers' compensation insurance. Contractor shall maintain Workers' Compensation Insurance (Statutory Limits) and Employer's Liability Insurance (with limits of at least \$1,000,000).

(e) Subcontractors. Contractor shall include all subcontractors as insureds under its policies or shall furnish separate certificates and certified endorsements for each subcontractor. All coverages for subcontractors shall include all of the requirements stated herein.

5.2 General Insurance Requirements.

(a) Proof of insurance. Contractor shall provide certificates of insurance to Authority as evidence of the insurance coverage required herein, along with a waiver of subrogation endorsement for workers' compensation. Insurance certificates and endorsements must be approved by the Authority prior to commencement of performance. Current certification of insurance shall be kept on file with Authority at all times during the term of this Agreement.

Authority reserves the right to require complete, certified copies of all required insurance policies, at any time.

(b) Duration of coverage. Contractor shall procure and maintain for the duration of this Agreement insurance against claims for injuries to persons or damages to property, which may arise from or in connection with the performance of the Services hereunder by Contractor, its agents, representatives, employees or subcontractors.

(c) Primary/noncontributing. Coverage provided by Contractor shall be primary and any insurance or self-insurance procured or maintained by Authority shall not be required to contribute with it. The limits of insurance required herein may be satisfied by a combination of primary and umbrella or excess insurance. Any umbrella or excess insurance shall contain or be endorsed to contain a provision that such coverage shall also apply on a primary and non-contributory basis for the benefit of Authority before the Authority's own insurance or self-insurance shall be called upon to protect it as a named insured.

(d) Authority's rights of enforcement. In the event any policy of insurance required under this Agreement does not comply with these specifications or is canceled and not replaced, Authority has the right but not the duty to obtain the insurance it deems necessary and any premium paid by Authority will be promptly reimbursed by Contractor or Authority will withhold amounts sufficient to pay premium from Contractor payments. In the alternative, Authority may cancel this Agreement.

(e) Acceptable insurers. All insurance policies shall be issued by an insurance company currently authorized by the Insurance Commissioner to transact business of insurance or that is on the List of Approved Surplus Line Insurers in the State of California, with an assigned policyholders' Rating of A- (or higher) and Financial Size Category Class VI (or larger) in accordance with the latest edition of Best's Key Rating Guide, unless otherwise approved by the Authority.

(f) Waiver of subrogation. All insurance coverage maintained or procured pursuant to this agreement shall be endorsed to waive subrogation against Authority, its member agencies, elected or appointed officers, agents, officials, employees and volunteers or shall specifically allow Contractor or others providing insurance evidence in compliance with these specifications to waive their right of recovery prior to a loss. Contractor hereby waives its own right of recovery against Authority, and shall require similar written express waivers and insurance clauses from each of its subcontractors.

(g) Enforcement of contract provisions (non-estoppel). Contractor acknowledges and agrees that any actual or alleged failure on the part of the Authority to inform Contractor of non-compliance with any requirement imposes no additional obligations on the Authority nor does it waive any rights hereunder.

(h) Requirements not limiting. Requirements of specific coverage features or limits contained in this section are not intended as a limitation on coverage, limits or other requirements, or a waiver of any coverage normally provided by any insurance. Specific reference to a given coverage feature is for purposes of clarification only as it pertains to a given

issue and is not intended by any party or insured to be all inclusive, or to the exclusion of other coverage, or a waiver of any type. If the Contractor maintains higher limits than the minimums shown above, the Authority requires and shall be entitled to coverage for the higher limits maintained by the Contractor. Any available insurance proceeds in excess of the specified minimum limits of insurance and coverage shall be available to the Authority.

(i) Notice of cancellation. Contractor agrees to oblige its insurance agent or broker and insurers to provide to Authority with a thirty (30) day notice of cancellation (except for nonpayment for which a ten (10) day notice is required) or nonrenewal of coverage for each required coverage.

(j) Additional insured status. General liability policies shall provide or be endorsed to provide that Authority and its officers, officials, employees, and agents, and volunteers shall be additional insureds under such policies. This provision shall also apply to any excess/umbrella liability policies.

(k) Prohibition of undisclosed coverage limitations. None of the coverages required herein will be in compliance with these requirements if they include any limiting endorsement of any kind that has not been first submitted to Authority and approved of in writing.

(l) Separation of insureds. A severability of interests provision must apply for all additional insureds ensuring that Contractor's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the insurer's limits of liability. The policy(ies) shall not contain any cross-liability exclusions.

(m) Pass through clause. Contractor agrees to ensure that its subcontractors, subcontractors, and any other party involved with the project who is brought onto or involved in the project by Contractor, provide the same minimum insurance coverage and endorsements required of Contractor. Contractor agrees to monitor and review all such coverage and assumes all responsibility for ensuring that such coverage is provided in conformity with the requirements of this section. Contractor agrees that upon request, all agreements with Contractors, subcontractors, and others engaged in the project will be submitted to Authority for review.

(n) Authority's right to revise specifications. The Authority reserves the right at any time during the term of the contract to change the amounts and types of insurance required by giving the Contractor ninety (90) days advance written notice of such change. If such change results in substantial additional cost to the Contractor, the Authority and Contractor may renegotiate Contractor's compensation.

(o) Self-insured retentions. Any self-insured retentions must be declared to and approved by Authority. Authority reserves the right to require that self-insured retentions be eliminated, lowered, or replaced by a deductible. Self-insurance will not be considered to comply with these specifications unless approved by Authority.

(p) Timely notice of claims. Contractor shall give Authority prompt and timely notice of claims made or suits instituted that arise out of or result from Contractor's

performance under this Agreement, and that involve or may involve coverage under any of the required liability policies.

(q) Additional insurance. Contractor shall also procure and maintain, at its own cost and expense, any additional kinds of insurance, which in its own judgment may be necessary for its proper protection and prosecution of the work.

5.3 Indemnification.

To the full extent permitted by law, Contractor agrees to indemnify, defend and hold harmless the Authority, its member agencies, its officers, employees and agents (“Indemnified Parties”) against, and will hold and save them and each of them harmless from, any and all actions, either judicial, administrative, arbitration or regulatory claims, damages to persons or property, losses, costs, penalties, obligations, errors, omissions or liabilities whether actual or threatened (herein “claims or liabilities”) that may be asserted or claimed by any person, firm or entity arising out of or in connection with the negligent performance of the work, operations or activities provided herein of Contractor, its officers, employees, agents, subcontractors, or invitees, or any individual or entity for which Contractor is legally liable (“indemnitors”), or arising from Contractor’s or indemnitors’ reckless or willful misconduct, or arising from Contractor’s or indemnitors’ negligent performance of or failure to perform any term, provision, covenant or condition of this Agreement, and in connection therewith:

(a) Contractor will defend any action or actions filed in connection with any of said claims or liabilities and will pay all costs and expenses, including legal costs and attorneys’ fees incurred in connection therewith;

(b) Contractor will promptly pay any judgment rendered against the Authority, its officers, agents or employees for any such claims or liabilities arising out of or in connection with the negligent performance of or failure to perform such work, operations or activities of Contractor hereunder; and Contractor agrees to save and hold the Authority, its officers, agents, and employees harmless therefrom;

(c) In the event the Authority, its officers, agents or employees is made a party to any action or proceeding filed or prosecuted against Contractor for such damages or other claims arising out of or in connection with the negligent performance of or failure to perform the work, operation or activities of Contractor hereunder, Contractor agrees to pay to the Authority, its member agencies, its officers, agents or employees, any and all costs and expenses incurred by the Authority, its officers, agents or employees in such action or proceeding, including but not limited to, legal costs and attorneys’ fees.

Contractor shall incorporate similar indemnity agreements with its subcontractors and if it fails to do so Contractor shall be fully responsible to indemnify Authority hereunder therefore, and failure of Authority to monitor compliance with these provisions shall not be a waiver hereof. This indemnification includes claims or liabilities arising from any negligent or wrongful act, error or omission, or reckless or willful misconduct of Contractor in the performance of professional services hereunder. The provisions of this Section do not apply to claims or

liabilities occurring as a result of Authority's sole negligence or willful acts or omissions, but, to the fullest extent permitted by law, shall apply to claims and liabilities resulting in part from Authority's negligence, except that design professionals' indemnity hereunder shall be limited to claims and liabilities arising out of the negligence, recklessness or willful misconduct of the design professional. The indemnity obligation shall be binding on successors and assigns of Contractor and shall survive termination of this Agreement.

ARTICLE 6. RECORDS, REPORTS, AND RELEASE OF INFORMATION

6.1 Records.

Contractor shall keep, and require subcontractors to keep, such ledgers, books of accounts, invoices, vouchers, canceled checks, reports, studies or other documents relating to the disbursements charged to Authority and services performed hereunder (the "books and records"), as shall be necessary to perform the services required by this Agreement and enable the Water Resource Manager to evaluate the performance of such services. Any and all such documents shall be maintained in accordance with generally accepted accounting principles and shall be complete and detailed. The Water Resource Manager shall have full and free access to such books and records at all times during normal business hours of Authority, including the right to inspect, copy, audit and make records and transcripts from such records. Such records shall be maintained for a period of three (3) years following completion of the services hereunder, and the Authority shall have access to such records in the event any audit is required. In the event of dissolution of Contractor's business, custody of the books and records may be given to Authority, and access shall be provided by Contractor's successor in interest. Notwithstanding the above, the Contractor shall fully cooperate with the Authority in providing access to the books and records if a public records request is made and disclosure is required by law including but not limited to the California Public Records Act.

6.2 Reports.

Contractor shall periodically prepare and submit to the Water Resource Manager such reports concerning the performance of the services required by this Agreement as the Water Resource Manager shall require. Contractor hereby acknowledges that the Authority is greatly concerned about the cost of work and services to be performed pursuant to this Agreement. For this reason, Contractor agrees that if Contractor becomes aware of any facts, circumstances, techniques, or events that may or will materially increase or decrease the cost of the work or services contemplated herein or, if Contractor is providing design services, the cost of the project being designed, Contractor shall promptly notify the Water Resource Manager of said fact, circumstance, technique or event and the estimated increased or decreased cost related thereto and, if Contractor is providing design services, the estimated increased or decreased cost estimate for the project being designed.

6.3 Ownership of Documents.

All drawings, specifications, maps, designs, photographs, studies, surveys, data, notes, computer files, reports, records, documents and other materials (the "documents and materials") prepared by Contractor, its employees, subcontractors and agents in the performance of this

Agreement shall be the property of Authority and shall be delivered to Authority upon request of the Water Resource Manager or upon the termination of this Agreement, and Contractor shall have no claim for further employment or additional compensation as a result of the exercise by Authority of its full rights of ownership use, reuse, or assignment of the documents and materials hereunder. Any use, reuse or assignment of such completed documents for other projects and/or use of uncompleted documents without specific written authorization by the Contractor will be at the Authority's sole risk and without liability to Contractor, and Contractor's guarantee and warranties shall not extend to such use, reuse or assignment. Contractor may retain copies of such documents for its own use. Contractor shall have the right to use the concepts embodied therein. All subcontractors shall provide for assignment to Authority of any documents or materials prepared by them, and in the event Contractor fails to secure such assignment, Contractor shall indemnify Authority for all damages resulting therefrom. Moreover, Contractor with respect to any documents and materials that may qualify as "works made for hire" as defined in 17 U.S.C. § 101, such documents and materials are hereby deemed "works made for hire" for the Authority.

6.4 Confidentiality and Release of Information.

(a) All information gained or work product produced by Contractor in performance of this Agreement shall be considered confidential, unless such information is in the public domain or already known to Contractor. Contractor shall not release or disclose any such information or work product to persons or entities other than Authority without prior written authorization from the Water Resource Manager.

(b) Contractor, its officers, employees, agents or subcontractors, shall not, without prior written authorization from the Water Resource Manager or unless requested by the Authority Attorney, voluntarily provide documents, declarations, letters of support, testimony at depositions, response to interrogatories or other information concerning the work performed under this Agreement. Response to a subpoena or court order shall not be considered "voluntary" provided Contractor gives Authority notice of such court order or subpoena.

(c) If Contractor, or any officer, employee, agent or subcontractor of Contractor, provides any information or work product in violation of this Agreement, then Authority shall have the right to reimbursement and indemnity from Contractor for any damages, costs and fees, including attorney's fees, caused by or incurred as a result of Contractor's conduct.

(d) Contractor shall promptly notify Authority should Contractor, its officers, employees, agents or subcontractors be served with any summons, complaint, subpoena, notice of deposition, request for documents, interrogatories, request for admissions or other discovery request, court order or subpoena from any party regarding this Agreement and the work performed there under. Authority retains the right, but has no obligation, to represent Contractor or be present at any deposition, hearing or similar proceeding. Contractor agrees to cooperate fully with Authority and to provide Authority with the opportunity to review any response to discovery requests provided by Contractor. However, this right to review any such response does not imply or mean the right by Authority to control, direct, or rewrite said response.

ARTICLE 7. ENFORCEMENT OF AGREEMENT AND TERMINATION

7.1 California Law.

This Agreement shall be interpreted, construed and governed both as to validity and to performance of the parties in accordance with the laws of the State of California. Legal actions concerning any dispute, claim or matter arising out of or in relation to this Agreement shall be instituted in the Superior Court of the County of Kern, State of California, or any other appropriate court in such county, and Contractor covenants and agrees to submit to the personal jurisdiction of such court in the event of such action. In the event of litigation in a U.S. District Court, venue shall lie exclusively in the Eastern District of California, in the City of Fresno, State of California.

7.2 Disputes; Default.

In the event that Contractor is in default under the terms of this Agreement, the Authority shall not have any obligation or duty to continue compensating Contractor for any work performed after the date of default. Instead, the Authority may give notice to Contractor of the default and the reasons for the default. The notice shall include the timeframe in which Contractor may cure the default. This timeframe is presumptively thirty (30) days, but may be extended, though not reduced, if circumstances warrant. During the period of time that Contractor is in default, the Authority shall hold all invoices and shall, when the default is cured, proceed with payment on the invoices. In the alternative, the Authority may, in its sole discretion, elect to pay some or all of the outstanding invoices during the period of default. If Contractor does not cure the default, the Authority may take necessary steps to terminate this Agreement under this Article. Any failure on the part of the Authority to give notice of the Contractor's default shall not be deemed to result in a waiver of the Authority's legal rights or any rights arising out of any provision of this Agreement.

7.3 Retention of Funds.

Contractor hereby authorizes Authority to deduct from any amount payable to Contractor (whether or not arising out of this Agreement) (i) any amounts the payment of which may be in dispute hereunder or which are necessary to compensate Authority for any losses, costs, liabilities, or damages suffered by Authority, and (ii) all amounts for which Authority may be liable to third parties, by reason of Contractor's acts or omissions in performing or failing to perform Contractor's obligation under this Agreement. In the event that any claim is made by a third party, the amount or validity of which is disputed by Contractor, or any indebtedness shall exist which shall appear to be the basis for a claim of lien, Authority may withhold from any payment due, without liability for interest because of such withholding, an amount sufficient to cover such claim. The failure of Authority to exercise such right to deduct or to withhold shall not, however, affect the obligations of the Contractor to insure, indemnify, and protect Authority as elsewhere provided herein.

7.4 Waiver.

Waiver by any party to this Agreement of any term, condition, or covenant of this Agreement shall not constitute a waiver of any other term, condition, or covenant. Waiver by any party of any breach of the provisions of this Agreement shall not constitute a waiver of any other provision or a waiver of any subsequent breach or violation of any provision of this Agreement. Acceptance by Authority of any work or services by Contractor shall not constitute a waiver of any of the provisions of this Agreement. No delay or omission in the exercise of any right or remedy by a non-defaulting party on any default shall impair such right or remedy or be construed as a waiver. Any waiver by either party of any default must be in writing and shall not be a waiver of any other default concerning the same or any other provision of this Agreement.

7.5 Rights and Remedies are Cumulative.

Except with respect to rights and remedies expressly declared to be exclusive in this Agreement, the rights and remedies of the parties are cumulative and the exercise by either party of one or more of such rights or remedies shall not preclude the exercise by it, at the same or different times, of any other rights or remedies for the same default or any other default by the other party.

7.6 Legal Action.

In addition to any other rights or remedies, either party may take legal action, in law or in equity, to cure, correct or remedy any default, to recover damages for any default, to compel specific performance of this Agreement, to obtain declaratory or injunctive relief, or to obtain any other remedy consistent with the purposes of this Agreement. Notwithstanding any contrary provision herein, Contractor shall file a statutory claim pursuant to Government Code Sections 905 et seq. and 910 et seq., in order to pursue a legal action under this Agreement.

7.7 Termination Prior to Expiration of Term.

This Section shall govern any termination of this Contract except as specifically provided in the following Section for termination for cause. The Authority reserves the right to terminate this Contract at any time, with or without cause, upon thirty (30) days' written notice to Contractor, except that where termination is due to the fault of the Contractor, the period of notice may be such shorter time as may be determined by the Water Resource Manager. In addition, the Contractor reserves the right to terminate this Contract at any time, with or without cause, upon sixty (60) days' written notice to Authority, except that where termination is due to the fault of the Authority, the period of notice may be such shorter time as the Contractor may determine. Upon receipt of any notice of termination, Contractor shall immediately cease all services hereunder except such as may be specifically approved by the Water Resource Manager. Except where the Contractor has initiated termination, the Contractor shall be entitled to compensation for all services rendered prior to the effective date of the notice of termination and for any services authorized by the Water Resource Manager thereafter in accordance with the Schedule of Compensation or such as may be approved by the Water Resource Manager, except as provided in Section 7.3. In the event the Contractor has initiated termination, the Contractor shall be entitled to compensation only for the reasonable value of the work product actually produced hereunder. In the event of termination without cause pursuant to this Section, the

terminating party need not provide the non-terminating party with the opportunity to cure pursuant to Section 7.2.

7.8 Termination for Default of Contractor.

If termination is due to the failure of the Contractor to fulfill its obligations under this Agreement, Authority may, after compliance with the provisions of Section 7.2, take over the work and prosecute the same to completion by contract or otherwise, and the Contractor shall be liable to the extent that the total cost for completion of the services required hereunder exceeds the compensation herein stipulated (provided that the Authority shall use reasonable efforts to mitigate such damages), and Authority may withhold any payments to the Contractor for the purpose of set-off or partial payment of the amounts owed the Authority as previously stated.

7.9 Attorneys' Fees.

If either party to this Agreement is required to initiate or defend or made a party to any action or proceeding in any way connected with this Agreement, the prevailing party in such action or proceeding, in addition to any other relief which may be granted, whether legal or equitable, shall be entitled to reasonable attorney's fees. Attorney's fees shall include attorney's fees on any appeal, and in addition a party entitled to attorney's fees shall be entitled to all other reasonable costs for investigating such action, taking depositions and discovery and all other necessary costs the court allows which are incurred in such litigation. All such fees shall be deemed to have accrued on commencement of such action and shall be enforceable whether or not such action is prosecuted to judgment.

ARTICLE 8. AUTHORITY OFFICERS AND EMPLOYEES: NON-DISCRIMINATION

8.1 Non-liability of Authority Officers and Employees.

No officer or employee of the Authority shall be personally liable to the Contractor, or any successor in interest, in the event of any default or breach by the Authority or for any amount which may become due to the Contractor or to its successor, or for breach of any obligation of the terms of this Agreement.

8.2 Conflict of Interest.

Contractor covenants that neither it, nor any officer or principal of its firm, has or shall acquire any interest, directly or indirectly, which would conflict in any manner with the interests of Authority or which would in any way hinder Contractor's performance of services under this Agreement. Contractor further covenants that in the performance of this Agreement, no person having any such interest shall be employed by it as an officer, employee, agent or subcontractor without the express written consent of the Water Resource Manager. Contractor agrees to at all times avoid conflicts of interest or the appearance of any conflicts of interest with the interests of Authority in the performance of this Agreement.

No officer or employee of the Authority shall have any financial interest, direct or indirect, in this Agreement nor shall any such officer or employee participate in any decision

relating to the Agreement which affects her/his financial interest or the financial interest of any corporation, partnership or association in which (s)he is, directly or indirectly, interested, in violation of any State statute or regulation. The Contractor warrants that it has not paid or given and will not pay or give any third party any money or other consideration for obtaining this Agreement.

8.3 Covenant Against Discrimination.

Contractor covenants that, by and for itself, its heirs, executors, assigns, and all persons claiming under or through them, that there shall be no discrimination against or segregation of, any person or group of persons on account of race, color, creed, religion, sex, gender, sexual orientation, marital status, national origin, ancestry or other protected class in the performance of this Agreement. Contractor shall take affirmative action to insure that applicants are employed and that employees are treated during employment without regard to their race, color, creed, religion, sex, gender, sexual orientation, marital status, national origin, ancestry or other protected class.

8.4 Unauthorized Aliens.

Contractor hereby promises and agrees to comply with all of the provisions of the Federal Immigration and Nationality Act, 8 U.S.C. § 1101 *et seq.*, as amended, and in connection therewith, shall not employ unauthorized aliens as defined therein. Should Contractor so employ such unauthorized aliens for the performance of work and/or services covered by this Agreement, and should any liability or sanctions be imposed against Authority for such use of unauthorized aliens, Contractor hereby agrees to and shall reimburse Authority for the cost of all such liabilities or sanctions imposed, together with any and all costs, including attorneys' fees, incurred by Authority.

ARTICLE 9. MISCELLANEOUS PROVISIONS

9.1 Notices.

Any notice, demand, request, document, consent, approval, or communication either party desires or is required to give to the other party or any other person shall be in writing and either served personally or sent by prepaid, first-class mail, in the case of the Authority, to the attention of the Water Resource Manager (with her/his name and Authority title), Indian Wells Valley Groundwater Authority, 100 West California Avenue, Ridgecrest California 93555 and in the case of the Contractor, to the person(s) at the address designated on the execution page of this Agreement. Either party may change its address by notifying the other party of the change of address in writing. Notice shall be deemed communicated at the time personally delivered or in seventy-two (72) hours from the time of mailing if mailed as provided in this Section.

9.2 Interpretation.

The terms of this Agreement shall be construed in accordance with the meaning of the language used and shall not be construed for or against either party by reason of the authorship of this Agreement or any other rule of construction which might otherwise apply.

9.3 Counterparts.

This Agreement may be executed in counterparts, each of which shall be deemed to be an original, and such counterparts shall constitute one and the same instrument.

9.4 Integration; Amendment.

This Agreement including the attachments hereto is the entire, complete and exclusive expression of the understanding of the parties. It is understood that there are no oral agreements between the parties hereto affecting this Agreement and this Agreement supersedes and cancels any and all previous negotiations, arrangements, agreements and understandings, if any, between the parties, and none shall be used to interpret this Agreement. No amendment to or modification of this Agreement shall be valid unless made in writing and approved by the Contractor and by the Authority Council. The parties agree that this requirement for written modifications cannot be waived and that any attempted waiver shall be void.

9.5 Severability.

In the event that any one or more of the phrases, sentences, clauses, paragraphs, or sections contained in this Agreement shall be declared invalid or unenforceable by a valid judgment or decree of a court of competent jurisdiction, such invalidity or unenforceability shall not affect any of the remaining phrases, sentences, clauses, paragraphs, or sections of this Agreement which are hereby declared as severable and shall be interpreted to carry out the intent of the parties hereunder unless the invalid provision is so material that its invalidity deprives either party of the basic benefit of their bargain or renders this Agreement meaningless.

9.6 Warranty & Representation of Non-Collusion.

No official, officer, or employee of Authority has any financial interest, direct or indirect, in this Agreement, nor shall any official, officer, or employee of Authority participate in any decision relating to this Agreement which may affect his/her financial interest or the financial interest of any corporation, partnership, or association in which (s)he is directly or indirectly interested, or in violation of any corporation, partnership, or association in which (s)he is directly or indirectly interested, or in violation of any State or municipal statute or regulation. The determination of "financial interest" shall be consistent with State law and shall not include interests found to be "remote" or "noninterests" pursuant to Government Code Sections 1091 or 1091.5. Contractor warrants and represents that it has not paid or given, and will not pay or give, to any third party including, but not limited to, any Authority official, officer, or employee, any money, consideration, or other thing of value as a result or consequence of obtaining or being awarded any agreement. Contractor further warrants and represents that (s)he/it has not engaged in any act(s), omission(s), or other conduct or collusion that would result in the payment of any money, consideration, or other thing of value to any third party including, but not limited to, any Authority official, officer, or employee, as a result of consequence of obtaining or being awarded

any agreement. Contractor is aware of and understands that any such act(s), omission(s) or other conduct resulting in such payment of money, consideration, or other thing of value will render this Agreement void and of no force or effect.

Contractor's Authorized Initials _____

9.7 Corporate Authority.

The persons executing this Agreement on behalf of the parties hereto warrant that (i) such party is duly organized and existing, (ii) they are duly authorized to execute and deliver this Agreement on behalf of said party, (iii) by so executing this Agreement, such party is formally bound to the provisions of this Agreement, and (iv) that entering into this Agreement does not violate any provision of any other Agreement to which said party is bound. This Agreement shall be binding upon the heirs, executors, administrators, successors and assigns of the parties.

[SIGNATURES ON FOLLOWING PAGE]

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the date and year first-above written.

AUTHORITY:

Indian Wells Valley Groundwater Authority

April Keigwin, Acting General Manager

APPROVED AS TO FORM:
ALESHIRE & WYNDER, LLP

Keith Lemieux, Board Counsel

CONTRACTOR:

Beacon Integrated Professional Resources Inc., a
California S-corporation
DBA Hamner, Jewell & Associates

By: _____
Name: _____
Title: _____

By: _____
Name: _____
Title: _____

Address: 3183 Duncan Road, Suite E
San Luis Obispo, CA 93041-6781

Two corporate officer signatures required when Contractor is a corporation, with one signature required from each of the following groups: 1) Chairman of the Board, President or any Vice President; and 2) Secretary, any Assistant Secretary, Chief Financial Officer or any Assistant Treasurer. CONTRACTOR'S SIGNATURES SHALL BE DULY NOTARIZED, AND APPROPRIATE ATTESTATIONS SHALL BE INCLUDED AS MAY BE REQUIRED BY THE BYLAWS, ARTICLES OF INCORPORATION, OR OTHER RULES OR REGULATIONS APPLICABLE TO CONTRACTOR'S BUSINESS ENTITY.

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy or validity of that document.

STATE OF CALIFORNIA

COUNTY OF KERN

On _____, 2023 before me, _____, personally appeared _____, proved to me on the basis of satisfactory evidence to be the person(s) whose names(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: _____

OPTIONAL

Though the data below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent reattachment of this form

CAPAAUTHORITY CLAIMED BY SIGNER

DESCRIPTION OF ATTACHED DOCUMENT

- INDIVIDUAL
- CORPORATE OFFICER

TITLE(S)

TITLE OR TYPE OF DOCUMENT

- PARTNER(S) LIMITED

- GENERAL
- ATTORNEY-IN-FACT
- TRUSTEE(S)

GUARDIAN/CONSERVATOR

OTHER _____

NUMBER OF PAGES

DATE OF DOCUMENT

SIGNER IS REPRESENTING:

(NAME OF PERSON(S) OR ENTITY(IES))

SIGNER(S) OTHER THAN NAMED ABOVE

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy or validity of that document.

STATE OF CALIFORNIA

COUNTY OF KERN

On _____, 2023 before me, _____, personally appeared _____, proved to me on the basis of satisfactory evidence to be the person(s) whose names(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: _____

OPTIONAL

Though the data below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent reattachment of this form.

CAPAAUTHORITY CLAIMED BY SIGNER

DESCRIPTION OF ATTACHED DOCUMENT

- INDIVIDUAL
- CORPORATE OFFICER

TITLE(S)

TITLE OR TYPE OF DOCUMENT

- PARTNER(S) LIMITED
- GENERAL
- ATTORNEY-IN-FACT
- TRUSTEE(S)
- GUARDIAN/CONSERVATOR
- OTHER _____

NUMBER OF PAGES

DATE OF DOCUMENT

SIGNER IS REPRESENTING:

(NAME OF PERSON(S) OR ENTITY(IES))

SIGNER(S) OTHER THAN NAMED ABOVE

The page intentionally blank

IWVGA ADMINISTRATIVE OFFICE

STAFF REPORT

TO: IWVGA Board Members **DATE:** March 11, 2025

FROM: IWVGA Staff

SUBJECT: **Agenda Item 10 – Amendment to the Contract Service Agreement with Provost and Pritchard Consulting Group for CEQA/NEPA Documents and Permit Documentation Services for the Imported Water Pipeline**

BACKGROUND AND DISCUSSION

In February 2023, the Indian Wells Valley Groundwater Authority (IWVGA) executed a Contract Services Agreement (CSA) with Provost and Pritchard Consulting Group (P&P) for CEQA/NEPA Documents and Permit Documentation services for the Imported Water Pipeline Project (Project).

A Sustainable Groundwater Management Act (SGMA) Implementation Grant through the California Department of Water Resources has provided \$7.6 million for planning and design for the Imported Water Pipeline Project. Additionally, the Environmental Protection Agency’s Drinking Water System Infrastructure Resilience and Sustainability Program is providing \$2.79 million in federal grant funding to complete planning and design for the Project.

P&P has completed several major Project milestones including development of Technical Study Memorandums for Biological Resources, Cultural Resources, Air Quality, Noise, and Aquatic Resources, draft Biological Assessment and draft Biological Evaluation, a final Initial Study, and administrative draft Environmental Assessment and Environmental Impact Report (EA/ EIR) for compliance with California Environmental Quality Act and National Environmental Policy Act regulations and guidelines.

The First Amended and Restated CSA extended the terms of the agreement from February 2024 to December 31, 2025 to allow P&P to complete their work. The time extension was needed due to delays associated with environmental and permitting requirements from the Bureau of Land Management (BLM) to perform geotechnical investigations along the pipeline alignment.

The Second Amended and Restated CSA extended the terms of the agreement from December 31, 2025 to March 31, 2026 to coincide with the end-date of the IWVGA’s CSA for Design Services of the Project, to allow P&P to continue coordination with permitting agencies, and to allow time for Authority Staff to further review the agreement terms.

The completion of the environmental documents has been delayed pending development of the design of power facilities required to power pump stations No. 1, No. 2, and No. 3 by Southern California Edison. The incorporation of power facilities into the design is required for P&P to

complete the draft EA/EIR. It is anticipated that the final EA/EIR will be provided to the IWVGA within 2026.

FISCAL IMPACTS

Fiscal impacts to the Authority's approved Annual Budget will not occur if the Recommended Action below is approved.

ACTION(S) REQUIRED BY THE BOARD

Staff recommends the Board approve the amendment to extend the terms of the CSA with Provost and Pritchard Consulting Group for CEQA/NEPA Documents and Permit Documentation Services for the Imported Water Pipeline through December 31, 2026

\\server4\data\Jobs\2652 IWVGA\01 - Prep & Attend Board, PAC, & TAC meetings\Board\2025\2 - February 2025\DRAFT - Item 12 - Staff Report - Design - 02.06.25.docx

The page intentionally blank

**THIRD AMENDMENT AND RESTATEMENT TO THE CONTRACT SERVICES AGREEMENT
BETWEEN
THE INDIAN WELLS VALLEY GROUNDWATER AUTHORITY
AND PROVOST AND PRITCHARD CONSULTING GROUP
(CEQA/NEPA SERVICES)**

This Third Amendment and Restatement to the Agreement is made effective as of March 31, 2026, by and between the Indian Wells Valley Groundwater Authority ("Authority"), and Provost and Pritchard Consulting Group ("Contractor"), with reference to the following facts which are acknowledged by each party as true and correct:

RECITALS

- A. Authority and Contractor entered into an agreement on or about February 2023 for Imported Water Conveyance CEQA/NEPA Services ("Agreement").
- B. The Agreement has a termination date of one year from its effective date.
- C. On January 1, 2024, the parties entered into a First Amendment and Restatement to the Agreement extending the terms of the Agreement to December 31, 2025.
- D. On January 16, 2025, the parties entered into a Second Amendment and Restatement to the Agreement extending the terms of the Agreement to March 31, 2026.
- E. The Project Manager of the Contractor has changed from Dena Giacomini to Dawn Marple.
- F. In August 2025, IWVGA contracted with Blue Mountain Development for Program Management Services to assist with incorporation of USACE's requirements during the completion of Project planning and to assist with transition of the Project construction to the Corps.
- G. The parties wish to reaffirm the terms of the Agreement and extend the terms such that there is no gap in the Contract term.

AMENDMENT

NOW, THEREFORE, it is agreed by and between the parties as follows:

- 1. The above recitals are true and correct.
- 2. Section 3.4 of the Agreement is hereby amended in its entirety to read as follows:

"Unless earlier terminated in accordance with Article 7 of this Agreement, this Agreement shall continue in full force and effect until completion of the services but not later than December 31, 2026, except as otherwise provided in the Schedule (Exhibit "A")."
- 3. Section 4.1 of the Agreement is hereby amended in its entirety to read as follows:

The following principals of Contractor (“Principals”) are hereby designated as being the principals and representatives of Contractor authorized to act in its behalf with respect to the work specified herein and make all decisions in connection therewith:

Heather Bashian, P.E., QSD

Principal In Charge

Dawn Marple

Project Manager

It is expressly understood that the experience, knowledge, capability and reputation of the foregoing principals were a substantial inducement for Authority to enter into this Agreement. Therefore, the foregoing principals shall be responsible during the term of this Agreement for directing all activities of Contractor and devoting sufficient time to personally supervise the services hereunder. All personnel of Contractor, and any authorized agents, shall at all times be under the exclusive direction and control of the Principals. For purposes of this Agreement, the foregoing Principals may not be replaced nor may their responsibilities be substantially reduced by Contractor without the express written approval of Authority. Additionally, Contractor shall utilize only competent personnel to perform services pursuant to this Agreement. Contractor shall make every reasonable effort to maintain the stability and continuity of Contractor’s staff and subcontractors, if any, assigned to perform the services required under this Agreement. Contractor shall notify Authority of any changes in Contractor’s staff and subcontractors, if any, assigned to perform the services required under this Agreement, prior to and during any such performance.

4. Section 4.3 of the Agreement is hereby amended in its entirety to to read as follows:

General Manager.

The Contractor shall ensure that the Authority’s General Manager is kept fully informed on the progress of the performance of the services. The Contractor shall not make any decisions that impact project completion date and/or costs without informing the Authority’s General Manager and the General Manager’s designee..

5. All other terms and conditions of the Agreement shall remain in full force and effect.

IN WITNESS WHEREOF, the parties hereto have caused this First Amendment and Restatement to the Agreement to be executed the days set forth below.

Signature Page to Follow.

AUTHORITY:

Indian Wells Valley Groundwater Authority

April Keigwin, General Manager
Date:

APPROVED AS TO FORM:
ALESHIRE & WYNDER, LLP

Keith Lemieux, Board Counsel

CONTRACTOR:

Provost and Pritchard Consulting Group

By: _____
Name: _____
Title: _____
Date:

By: _____
Name: _____
Title: _____
Date:

Address: 1800 30th Street, Suite 280
Bakersfield, CA 93301

The page intentionally blank

IWVGA ADMINISTRATIVE OFFICE

STAFF REPORT

TO: IWVGA Board Members **DATE:** March 11, 2025

FROM: IWVGA Staff

SUBJECT: **Agenda Item 11 – Amendment to the Contract Service Agreement with Provost and Pritchard Consulting Group for Design Services for the Imported Water Pipeline**

BACKGROUND AND DISCUSSION

On March 31, 2023, the Indian Wells Valley Groundwater Authority (IWVGA) executed a Contract Services Agreement (CSA) with Provost and Pritchard Consulting Group (P&P) for design services for the Imported Water Pipeline Project (Project).

A Sustainable Groundwater Management Act (SGMA) Implementation Grant through the California Department of Water Resources has provided \$7.6 million for planning and design for the Imported Water Pipeline Project. Additionally, the Environmental Protection Agency's Drinking Water System Infrastructure Resilience and Sustainability Program is providing \$2.79 million in federal grant funding to complete planning and design for the Project.

P&P has completed several major Project milestones including development of a Preliminary Design Report, 30% Design level plans, 60% Design level plans, and Technical Study Memorandums.

The First Amended and Restated CSA extended the terms of the agreement from March 31, 2024 to March 31, 2026. The time extension was needed due to delays associated with environmental and permitting requirements from the Bureau of Land Management (BLM) to perform geotechnical investigations along the pipeline alignment.

In addition, the 90% design has been delayed pending development of the design of power facilities required to power pump stations No. 1, No. 2, and No. 3 by Southern California Edison. SCE's completion of the design of the power facilities is expected in the next three months.

It is anticipated that the final Design Submittal will be provided to the IWVGA by the end of 2026. Therefore, an amendment to the CSA is needed to extend the term of the agreement to December 31, 2026.

FISCAL IMPACTS

Fiscal impacts to the Authority's approved Annual Budget will not occur if the Recommended Action below is approved.

ACTION(S) REQUIRED BY THE BOARD

Staff recommends the Board approve the amendment to extend the terms of the CSA with Provost and Pritchard Consulting Group for Design Services for the Imported Water Pipeline through December 31, 2026.

The page intentionally blank

**SECOND AMENDMENT AND RESTATEMENT TO THE CONTRACT SERVICES
AGREEMENT BETWEEN
THE INDIAN WELLS VALLEY GROUNDWATER AUTHORITY
AND PROVOST AND PRITCHARD CONSULTING GROUP
(CONVEYANCE DESIGN SERVICES)**

This Second Amendment to the Agreement is made effective March 31, 2026 by and between the Indian Wells Valley Groundwater Authority ("Authority") and Provost and Pritchard Consulting Group ("Contractor"), with reference to the following facts which are acknowledged by each party as true and correct:

RECITALS

A. Authority and Contractor entered into an agreement on or about February, 2023 for Design services ("Agreement").

B. The Agreement has a termination date of one year from its effective date.

C. On January 1, 2024, the parties entered into a First Amendment and Restatement to the Agreement extending the agreement to March 31, 2026.

D. The parties wish to reaffirm the terms of the Agreement and extend the terms such that there is no gap in the Contract term.

E. In August 2025, IWVGA contracted with Blue Mountain Development for Program Management Services to assist with incorporation of USACE's requirements during the completion of Project planning and to assist with transition of the Project construction to the Corps.

AMENDMENT

NOW, THEREFORE, it is agreed by and between the parties as follows:

1. The above recitals are true and correct.

2. Section 3.4 of the Agreement is hereby amended in its entirety to read as follows:

"Unless earlier terminated in accordance with Article 7 of this Agreement, this Agreement shall continue in full force and effect until completion of the services but not later than December 31, 2026, except as otherwise provided in the Schedule (Exhibit "A")."

3. All other terms and conditions of the Agreement shall remain in full force and effect.

4. Section 4.3 of the Agreement is hereby amended in its entirety to read as follows:

General Manager.

The Contractor shall ensure that the Authority's General Manager is kept fully informed on the progress of the performance of the services. The Contractor shall not make any

decisions that impact project completion date and/or costs without informing the Authority's General Manager and the General Manager's designee

IN WITNESS WHEREOF, the parties hereto have caused this First Amendment and Restatement to the Agreement to be executed the dates set forth below.

Signature Page to Follow.

AUTHORITY:

Indian Wells Valley Groundwater Authority

April Keigwin, General Manager
Date:

APPROVED AS TO FORM:
ALESHIRE & WYNDER, LLP

Keith Lemieux, Board Counsel

CONTRACTOR:

Provost and Pritchard Consulting Group

By: _____
Name: _____
Title: _____
Date:

By: _____
Name: _____
Title: _____
Date:

Address: 1518 Mill Rock Way, Suite 100
Bakersfield, CA 93311

The page intentionally blank

IWVGA ADMINISTRATIVE OFFICE

STAFF REPORT

TO: IWVGA Board Members **DATE:** March 11, 2025
FROM: IWVGA Staff
SUBJECT: Agenda Item 12 – Request to the Department of Water Resources for Review of Technical Reports

BACKGROUND AND DISCUSSION

In accordance with the provisions of Sustainable Groundwater Management Act, the Code of Civil Procedure, and the Department of Water Resources review of the 2025 Groundwater Sustainability Plan update, staff is recommending that your Board authorizes staff to provide the Department of Water Resources with all the expert reports and rebuttal reports filed in the groundwater adjudication for review and comment.

FISCAL IMPACTS

Fiscal impacts to the Authority's approved Annual Budget will be negligible if the Recommended Action below is approved.

ACTION(S) REQUIRED BY THE BOARD

Staff recommends that the Board authorizes staff to provide the Department of Water Resources with all the expert reports and rebuttal reports filed in the groundwater adjudication for review and comment.

The page intentionally blank

IWVGA ADMINISTRATIVE OFFICE

STAFF REPORT

TO: IWVGA Board Members **DATE:** March 11, 2026

FROM: IWVGA Staff

SUBJECT: Agenda Item 13 – Receive and File Water Year 2025 Annual Report

BACKGROUND AND DISCUSSION

The Indian Wells Valley Groundwater Authority (IWVGA) has prepared the Water Year (WY) 2025 Annual Report for the Indian Wells Valley Groundwater Basin (IWVGB), Basin 6-054, to be submitted to the California Department of Water Resources (DWR) in compliance with the Sustainable Groundwater Management Act (SGMA). The Annual Report presents required data for WY 2025 (October 1, 2024-September 30, 2025) and includes an update on Basin conditions and Basin projects and management activities. A brief presentation on what is reported in the WY 2025 Annual Report is attached. The WY 2025 Annual Report has been finalized and is required to be submitted to DWR by April 1, 2026.

ACTION(S) REQUIRED BY THE BOARD

Staff recommends the Board receive and file WY 2025 Annual Report.

The page intentionally blank

INDIAN WELLS VALLEY GROUNDWATER BASIN

DRAFT

GSP Annual Report

Water Year 2025

(October 1, 2024 to September 30, 2025)

March 2026

Page Intentionally Left Blank

Contents

Chapter 1 Executive Summary	1
Chapter 2 General Information.....	5
Chapter 3 Progress Towards GSP Implementation and Sustainability	7
3.1 Projects and Management Actions.....	7
3.1.1 Management Action 1: Annual Pumping Allocation Plan, Transient Pool, and Fallowing Program 8	
3.1.2 Project 1: Develop Imported Water Supply	8
3.1.3 Project 2: Optimize Recycled Water	11
3.1.4 Project 3: Conservation Efforts	11
3.1.5 Project 4: Shallow Well Mitigation Program.....	12
3.1.6 Project 5: Dust Control Mitigation Program	13
3.1.7 Project 6: Pumping Optimization Project	13
3.2 Progress Towards Sustainable Management Criteria.....	14
3.2.1 Chronic Lowering of Groundwater Levels.....	15
3.2.2 Reduction of Groundwater in Storage.....	16
3.2.3 Degraded Water Quality	16
3.2.4 Land Subsidence Related to Groundwater Pumping	18
3.3 Progress Made on Addressing Recommended Corrective Actions	19
3.4 Outreach and Engagement	20
Chapter 4 Hydrologic Conditions	23
Chapter 5 Groundwater Elevation Data.....	25
5.1 Groundwater Elevation Contour Maps.....	25
5.2 Hydrographs.....	26
5.3 Estimated Change in Groundwater Storage	29

5.3.1	Groundwater Level Change from Spring 2024 to Spring 2025	29
5.3.2	Estimating Storage Change Using Modified Thiessen Polygon Method	30
Chapter 6 Water Supply Data		33
6.1	Groundwater Extraction Data	33
6.2	Surface Water Supply.....	36
6.3	Total Water Use	37
Chapter 7 Other Data Collection and Basin Management Tasks.....		39
7.1	Annual Groundwater Quality Sampling	39
7.1.1	TDS Results.....	39
7.1.2	Arsenic Results	41
7.2	El Paso Monitoring and Evaluation	41
7.3	Brackish Water Investigation	42
7.4	Numerical Model	42
7.5	Data Management System.....	42
7.6	Precipitation Station and Stream Gage Data Collection	43
7.7	Groundwater Dependent Ecosystems	43
Chapter 8 References.....		45

List of Tables

Table 3-1: Representative Monitoring Sites for Chronic Lowering of Groundwater Levels	16
Table 3-2: Representative Monitoring Sites for Degraded Water Quality	17
Table 3-3: Recommended Corrective Actions Summary	19
Table 4-1: Percent Exceedance Ranges and Dividing Thresholds for Five Water Year Types	24
Table 4-2: Water Year Types based on Precipitation at China Lake NAF Station (No. 041733)	24
Table 5-1: Estimated Annual Change to Groundwater in Storage, Spring 2024 to Spring 2025	32
Table 5-2: WY 2020 to WY 2025 Estimated Groundwater Storage Change, Modified Thiessen Polygon Method	32
Table 6-1: IWVGB Groundwater Production Estimates	35
Table 6-2: Total Estimated Pumping by Water Year	36
Table 6-3: WY 2025 Recycled Water Use.....	37
Table 6-4: WY 2025 Estimated Total Water Use in the IWVGB.	37

List of Figures

Figure 2-1	Indian Wells Valley Groundwater Basin and Indian Wells Valley Groundwater Authority Boundaries
Figure 3-1	Chronic lowering of Groundwater Levels Representative Monitoring Sites
Figure 3-2	Water Quality Degradation Representative Monitoring Sites
Figure 4-1	Annual Precipitation Exceedance in IWVGB at Index Station China Lake NAF
Figure 5-1	Estimated Fall 2024 Groundwater Elevation Contours
Figure 5-2	Estimated Spring 2025 Groundwater Elevation Contours
Figure 5-3	Estimated Fall 2024 Groundwater Depth Contours
Figure 5-4	Estimated Spring 2025 Groundwater Depth Contours
Figure 5-5	Monitoring Wells with Hydrographs in Attachment E
Figure 5-6	Annual Groundwater Level Change WY 2025
Figure 5-7	Modified Thiessen Polygon Method Estimating Changes to Groundwater in Storage
Figure 5-8	Estimated Groundwater Storage Change WY 2016-2025
Figure 6-1	Pumping Well Location Map
Figure 7-1	Groundwater Quality – TDS, Fall 2024

Figure 7-2 Historical TDS Concentrations

Figure 7-3 Groundwater Quality – Arsenic, Fall 2024

List of Attachments

Attachment A DWR Annual Report Submittal Tables

Attachment B Historical Water Year Types Based on Precipitation at China Lake NAF (No. 041733)

Attachment C Groundwater Monitoring Program Updates

Attachment D WY 2025 Groundwater Level Data

Attachment E Hydrographs for Select Monitoring Wells

Attachment F Storage Change Estimate Using Thiessen Polygon Method

Attachment G Estimated WY 2025 Groundwater Production

Attachment H WY 2025 Water Quality Data

Chapter 1 Executive Summary

The Indian Wells Valley Groundwater Authority (IWVGA) has prepared this Annual Report for the Indian Wells Valley Groundwater Basin (IWVGB or Basin), Basin 6-054, to be submitted to the California Department of Water Resources (DWR) in compliance with the Sustainable Groundwater Management Act (SGMA) and the DWR guidance document pertaining to Annual Reports, Periodic Evaluations, and Plan Amendments published in 2023 (DWR, 2023a). This Annual Report presents the required data for Water Year (WY) 2025 (October 1, 2024-September 30, 2025).

DWR has designated the IWVGB as a basin in critical overdraft. Overdraft in the IWVGB has been shown through several undesirable results, primarily the chronic lowering of groundwater levels, the degradation of water quality, and the reduction of groundwater in storage in the IWVGB. Consequently, under SGMA, the IWVGA must implement projects and management actions to mitigate and avoid undesirable results and reach sustainability by 2040. The sustainability goal is to manage and preserve the IWVGB groundwater resource as a sustainable water supply. To the greatest extent possible, the goal is to preserve the character of the community, preserve the quality of life of IWV residents, and sustain the mission at the U.S. Navy Naval Air Weapon Station (NAWS) China Lake.

The Groundwater Sustainability Plan (GSP) for the IWVGB (Stetson, 2020a) was adopted by the IWVGA Board of Directors on January 16, 2020, and submitted to DWR on January 31, 2020. DWR approved the IWV GSP in January 2022. The sustainable yield is estimated to be 7,650 acre-feet per year (AFY) based on measured groundwater levels and computer modeling, and the recommendation of the IWVGA Technical Advisory Committee (TAC). The GSP recommended projects and management actions to achieve Basin sustainability that are intended to culminate in managing the IWVGB within the sustainable yield without undesirable and unsustainable groundwater conditions in the IWVGB. Sustainable management criteria were established for determining undesirable results and measuring progress towards groundwater sustainability.

The IWVGA completed its first Periodic Evaluation of the GSP in early 2025 to assist DWR's five-year periodic assessment of the adopted GSP.

During WY 2025, no minimum thresholds were exceeded at the representative monitoring sites. The IWVGA continued developing and implementing projects and management actions proposed in the GSP

and tracking sustainability using the sustainable management criteria, with a focus on developing the Imported Water Project which is the primary key to achieving sustainability in the Basin. Significant achievements include the following:

- Completion of 60% design and draft Environmental studies for the Imported Water Interconnection Project
- Securing additional funding for the Imported Water Interconnection Project
- Continued implementation of the Shallow Well Mitigation Program
- Updates and upgrades to the groundwater flow model
- Completion of the 2025 Periodic Evaluation

These projects and management actions will ultimately reduce overdraft conditions in the Basin and reduce undesirable results.

During WY 2025, litigation continued along with adjudication actions. As a result, the current litigation has brought into question the accuracy of some self-reported groundwater production data due to inconsistencies with reported groundwater production and documented and stated water use. Of significant note, a settlement with a significant groundwater producer within the Basin was reached in late calendar year 2024.

During WY 2025, the Indian Wells Valley received approximately 2.48 inches of rain, classifying the year as a Normal year. In WY 2024, depth to groundwater (DTW) was measured at 148 wells in Fall 2024 and 150 wells in Spring 2025. Hydrographs have been developed for all wells in the monitoring program and are posted on the Data Management System (DMS) website (www.iwvgsp.com).

Groundwater production during WY 2025 is estimated to have been 20,200 AF and recycled water use is estimated to have been 1,220 AF. Accordingly, total water use in the IWVGB in WY 2025 is estimated to have been 21,420 AF.

This Annual Report provides an update on Basin conditions and Basin management activities, and it is organized into the following chapters:

- General information (including Basin location)
- Progress towards GSP implementation and sustainability
- Hydrologic conditions

- Groundwater elevation data (including contours and hydrographs)
- Groundwater storage data
- Water supply data (including groundwater extraction data)
- Other Data Collection and Basin Management Tasks

Page Intentionally Left Plank

Chapter 2 General Information

The IWVGB is in the northwestern part of the Mojave Desert and underlies approximately 382,000 acres or approximately 600 square miles of land area in portions of the Counties of Kern, Inyo, and San Bernardino. The IWVGB is bordered on the west by the Sierra Nevada Mountain Range, on the north by the Coso Range, on the east by the Argus Range, and on the south by the El Paso Mountains. Intermittent surface water (following larger storm events) flows from the surrounding mountain ranges and drains to China Lake, a large normally dry lake, or playa, located in the central north-east part of the Basin.

The land overlying the IWVGB encompasses portions of Kern, Inyo, and San Bernardino Counties, with the majority (approximately 73%) being in Kern County. Approximately 79% of land overlying the IWVGB comprises of either the NAWS China Lake or public lands managed by the United States Bureau of Land Management (BLM). The City of Ridgecrest (Ridgecrest or City) is the only incorporated community in the Indian Wells Valley and covers an area of approximately 20 square miles with a population of approximately 29,000 people. The Indian Wells Valley Water District (IWWVD) serves potable water to approximately 35,800 people in Ridgecrest and certain areas outside of Ridgecrest's jurisdiction. Unincorporated communities in the Indian Wells Valley include the communities of Inyokern in Kern County and Pearsonville in Inyo County, along with other smaller communities. Additionally, there are communities outside of the Indian Wells Valley that are served by groundwater produced in the Basin, including Trona.

Kern County, Inyo County, San Bernardino County, Ridgecrest, and the IWWVD entered into a joint exercise of powers agreement to form the IWVGA and serve as General Members on the IWVGA Board of Directors, which governs the IWVGA as a whole. The U.S. Navy and BLM serve as Associate Members (non-voting) on the IWVGA Board of Directors. Figure 2-1 provides the location of the IWVGB and the extents of the IWVGA boundaries.

In its 2020 Bulletin 118 update, DWR identified the IWVGB as a critically over drafted basin of high priority. As such, in compliance with SGMA, the associated groundwater sustainability agency (GSA) was required to submit a GSP by January 31, 2020, to achieve local sustainable management of groundwater resources. The IWVGA Board of Directors adopted Resolution No. 02-16 on December 8, 2016, to establish the IWVGA as the exclusive GSA for the entirety of the IWVGB. The GSP for the IWVGB (Stetson, 2020a) was adopted by the IWVGA Board of Directors on January 16, 2020, and was submitted to DWR on January

31, 2020. DWR approved the IWV GSP on January 13, 2022, and provided recommended corrective actions that were strongly recommended to be addressed prior to the first Periodic Evaluation which occurred five years after initial submittal of the GSP to DWR.

The IWVGB serves as the sole supply of potable water for the Indian Wells Valley. Residents of the Indian Wells Valley are served groundwater through private domestic wells, small cooperative groups sharing wells, small mutual water companies, the Inyokern Community Services District (Inyokern CSD), and the IWVWD. The U.S. Navy produces and distributes groundwater for on-station water uses at the NAWS China Lake. Searles Valley Minerals Inc. produces groundwater from the IWVGB for use in its mineral's recovery and processing operations in Searles Valley (located east of the IWVGB) and for potable use in the small communities of Trona, Westend, Argus, and Pioneer Point in the Searles Valley. In addition, a number of farms located in the Indian Wells Valley rely on the IWVGB's water supplies for their agricultural operations. Overdraft conditions in the IWVGB have existed since at least the 1960s (Dutcher and Moyle, 1973). Results of overdraft have manifested themselves through various undesirable results, primarily the chronic lowering of groundwater levels, degradation of water quality, and reduction of groundwater storage within the IWVGB.

Chapter 3 Progress Towards GSP Implementation and Sustainability

The IWVGB is characterized as a critically overdraft basin by DWR. The sustainable yield is estimated to be 7,650 AFY, while groundwater production has been and continues to be greater than the sustainable yield. This condition accounts for the occurrence of undesirable results for the following sustainability indicators:

- Chronic lowering of groundwater levels
- Reduction of groundwater in storage
- Degraded water quality
- Potential for land subsidence

After extensive public outreach and collaboration, the IWVGA Board of Directors adopted the IWVGA GSP on January 16, 2020, which was approved by DWR in 2022. In compliance with SGMA, the GSP provides Basin management strategies that are intended to culminate in managing the IWVGB within the sustainable yield and the absence of undesirable and unsustainable groundwater conditions in the IWVGB. The GSP recommends projects and management actions that are intended to achieve Basin sustainability while considering the unique geologic and hydrogeologic conditions of the IWVGB. These projects and management actions were also reevaluated in WY 2025 for the Periodic Evaluation. Sustainable management criteria were established for measuring progress towards groundwater sustainability. Recommendations of the GSP are intended to provide long-term sustainable groundwater management in the IWVGB within 20 years (WY 2040) of GSP implementation.

During WY 2025, the IWVGA continued developing projects and management actions proposed in the GSP and continued tracking sustainability using the proposed sustainable management criteria, discussed further in the subsections below. Significant progress was made toward implementing the Imported Water Project and implementation of the Shallow Well Mitigation Program.

3.1 Projects and Management Actions

The following subsections document progress made towards implementation of projects and management actions proposed in the GSP. Additional information regarding projects and management actions can be found in the GSP.

3.1.1 Management Action 1: Annual Pumping Allocation Plan, Transient Pool, and Following Program

During WY 2025, the IWVGA continued to implement Management Action 1 with the intent of funding an imported water supply and to provide economic incentives to reduce groundwater pumping.

On July 16, 2020, the IWVGA Board of Directors adopted Resolution Number 06-20 to adopt a report documenting the estimated sustainable yield of the IWVGB as 7,650 AFY and also acknowledging the superiority and dominance of the Navy's Federally Reserved Water Rights (FRWR). A preliminary ruling in Orange County in July 2025 limited the Navy's FRWR to 2,008 AFY. The purpose of determining the sustainable yield allotment is to determine the estimated volume of the sustainable yield available for the pumpers to produce without incurring Replenishment Fees in calendar year 2025.

The IWVGA has developed a Transient Pool Program to facilitate transitional reduced agricultural pumping to an interim acceptable and manageable level of basin overdraft until augmented supplies are available. The IWVGA has faced non-compliance in the payment of Replenishment Fees and challenges to the established Sustainable Yield. The IWVGA is currently involved in litigation for resolution of these issues. This litigation has impeded the implementation of the GSP and has called into the question the accuracy of some self-reported groundwater production data. As part of a settlement agreement for a portion of the litigation, the IWVGA adopted Resolution Number 01-25 to establish a second Transient Pool with transient pool allocations for agricultural water users in the Basin.

Currently, there is no funding for the Following Program to allow the IWVGA to purchase back unwanted Transient Pool Allocations, so it is not available at this time. The IWVGA is pursuing grant funding opportunities to fund following and land repurposing projects when opportunities become available.

3.1.2 Project 1: Develop Imported Water Supply

Due to overdraft conditions in the Indian Wells Valley and anticipated future water demands significantly in excess of the Basin sustainable yield, securing imported water supplies is a priority for the Basin. The Periodic Evaluation of the GSP confirmed that the Imported Water Project (Project) is the primary and necessary project to achieve sustainability in the Basin. Conservation measures alone cannot bring the Basin into sustainability.

The Project will ultimately include up to a 24-inch diameter, 50.3-mile long imported water pipeline that starts at a new connection on Antelope Valley East Kern Water Agency's (AVEK's) California City Feeder in

California City, California, and generally proceeds northeast to the Indian Wells Valley Water District's (IWWVD) Ridgecrest Heights Tank site in Ridgecrest, California, Kern County. Three booster pump stations are necessary to pump water over the El Paso Mountains located between California City and Ridgecrest. The pipeline will terminate at a new welded steel Terminus Tank at IWWVD's Ridgecrest Heights tank facility. Approximately 20.6 miles of pipeline would traverse land owned and managed by Bureau of Land Management (BLM).

Project Funding

The IWVGA has retained Capitol Core Group, Inc (Capitol Core) to identify and secure funding sources.

In WY 2025, the IWVGA continued implementing planning, design, environmental compliance, right-of-way acquisition, and other permitting and coordination tasks through funding from the California Budget Act of 2021 Sustainable Groundwater Management Act (SGMA) Implementation Round 1 grant (SGMA IP) grant. All work funded under the IP Grant will be completed by March 31, 2026.

The IWVGA continued to complete the Project under the EPA's Drinking Water System Infrastructure Resilience and Sustainability Grant (EPA Grant). The EPA Grant was executed in WY 2025 with a Project Period start date of June 30, 2025.

Through passage of the Thomas R. Carper Water Resources Development Act of 2024 by Congress and signature by the President of the United States on January 4, 2025, the U.S. Army Corps of Engineers (USACE) has been authorized to construct the Project under the Environmental Infrastructure provision (Section 219, Water Resources Development Act of 1992).

Status of Imported Water Purchases

Capitol Core Group has additionally been retained to identify and procure Imported Water Supplies and to develop and secure transfer partners. In WY 2025, Capitol Core Group continued to work with potential sellers on negotiations to purchase imported water supplies and final water needs. Capital Core coordinated with two potential water supplies for the IWVGA Board's consideration. The discussions regarding water resources for this project are active and ongoing.

Status of Project Planning

The IWVGA has executed Contract Services Agreements (CSAs) with Provost and Pritchard Consulting Group (P&P) for design and environmental services. The following provides major design tasks conducted in WY 2025:

- Completion of 60% design and specifications of the pipeline, pump stations, tank, etc.
- Began 90% design and specifications of the pipeline, and pump stations, tank, etc.
- Completed the geotechnical reports for each of the main components of the conveyance system (pipeline, pump stations, tank, trenchless crossings)
- Continued obtaining permits for design, construction, and environmental mitigation
 - Executed Cal Parks Right of Entry Permit for temporary construction easements for the pipeline and creating bypass roads around trenchless crossings
 - Continuing coordination with the BLM for a Special Use Permit for pipeline construction
 - UPRR continuing review of encroachment permit for crossing along alignment near Highway 395

The following provides major environmental tasks conducted in WY 2025:

- Continued preparing the draft Environmental Assessment/Environmental Impact Report (EA/ EIR) joint document
 - Drafted an additional Revegetation and Restoration Plan as required by the BLM's Desert Renewable Energy Conservation Plan
 - Incorporating Redacted Cultural Report completed by Bureau of Land Management and the US Department of Defense into the EA/ EIR
- Completion of environmental studies including a Draft Biological Assessment/ Biological Evaluation
- Execution of final Lake and Streambed Alteration Agreement with California Department of Fish and Wildlife (CDFW)
- Completion of time-sensitive Spring botanical surveys along portions of the pipeline alignment

The IWVGA also contracted with OPC Services (since renamed Gannet Flemings Transystems or GFT) to provide Right-of-Way (ROW) services for the Project. In WY 2023, GFT began ROW services and obtained 50 Right-of-Entry agreements from property owners for 48 parcels along the alignment to allow

performance of biological/technical studies and geotechnical borings. GFT is coordinating with California Fish and Wildlife and the County regarding ROW requirements for the project. A draft Right-of-Way Acquisition Plan was completed in WY 2025. Additionally, GFT began drafting plats and legal descriptions of easements in WY 2025.

Lastly, the IWVGA contracted with Blue Mountain Development (BMD) in WY 2025 for Program Management Services to assist with incorporation of USACE requirements during the completion of Project planning and to assist with transition of the Project construction to the USACE. BMD's tasks include managing project progress and coordination of the Project's consultant contracts, scopes, and deliverables under the Project.

3.1.3 Project 2: Optimize Recycled Water

The IWVGA Board of Directors adopted Resolution Number 02-20 on November 19, 2020, formally creating the Recycled Water Program. The IWVGA Board of Directors also approved an option agreement for the purchase of recycled water from the City of Ridgecrest at the November 2020 meeting.

In January 2023, the IWVGA applied for funding through the DWR Urban Community Drought Relief Grant Program for Recycled Water Project planning costs. DWR did not award the IWVGA with grant funding for this project in part due to concerns that the overall cost per-acre foot of water produced was prohibitive. Due to a lack of funding for Recycled Water Project, as currently envisioned, the IWVGA Board of Directors directed Staff to halt work on the Project. In WY 2024, alternative uses for recycled water were explored; however, no new recycled water project has been proposed at this time. Additionally, use of recycled water without an Imported Water Project would be insufficient to achieve sustainability in the Basin. Consequently, no recycled water project was proposed in WY 2025.

3.1.4 Project 3: Conservation Efforts

In WY 2023, the IWVGA completed a pilot water conservation program in targeting groundwater users located in severely disadvantaged communities (SDAC). The program included performing water audit and leak detection surveys and preparing Water Shortage Contingency Plans. In WY 2024, an agreement between the IWVGA and DWR for the award of \$3,345,000 in funding from the Urban Community Drought Relief Grant program was finalized. The intent of the project is to consolidate small, vulnerable, well systems in disadvantaged areas into the IWVWD. This project has the potential to increase conservation due to replacing aging and potentially damaged water systems with new distribution infrastructure. The

IWVGA is currently evaluating a potential consolidation project to consolidate an area of poor water quality due to declining groundwater levels. The Rademacher Consolidation Project is the first consolidation project being implemented using the grant funds. The Rademacher Consolidation Project will consolidate the Desert Sands Mutual Water Company which is located in a Severely Disadvantaged Community (SDAC) area with historically very poor water quality. In WY 2025, construction was completed on the first phase of the project. Additionally, work began on a second phase of the consolidation.

Indirectly, the IWVGA extraction fees encourage and incentivize individual water saving and conservation practices. Additionally, the IWVWD has continued its conservations efforts for its customers, independent of the IWVGA, as described in IWVWD's 2020 Urban Water Management Plan.

3.1.5 Project 4: Shallow Well Mitigation Program

Continued impacts to shallow wells (declining water levels and degraded water quality) are anticipated while management actions and GSP projects are being implemented due to poor or degraded water quality and overdraft conditions. Predictive modeling results and hydrographs of measured data indicate declining water levels suggest some shallow wells are likely to be impacted before sustainability is reached. The IWVGA continued implementing the Shallow Well Mitigation Program in WY 2025. Funding for shallow well mitigation is through the adopted mitigation fee (Ordinance 03-20). The Shallow Well Mitigation Program is structured such that the IWVGA Board of Directors, along with appropriate technical Staff, conduct evaluations of submitted wells on a case-by-case basis to determine the appropriate mitigation measures and financial assistance. The Shallow Well Impact Report Form and Emergency Assistance Report Form can be found on the IWVGA website: <https://iwvga.org/reports>.

In WY 2024, the Water Resources Manager (WRM) evaluated applications to the IWVGA for shallow well mitigation funding. Based on the recommendations of the WRM and staff, the IWVGA Board approved two applications for partial funding to replace two wells impacted by declining groundwater levels.

In response to comments received by members of the Policy Advisory Committee (PAC), staff have updated the Shallow Well Mitigation Report Form and Facts Sheet.

As discussed previously in Section 3.1.4, the IWVGA is currently implementing a shallow well consolidation project with the IWVWD with grand funding from the Urban Community Drought Relief Grant Program. The implementation of this project will mitigate impacts to shallow wells and could reduce the number of applicants for the Shallow Well Program. The IWVGA has implemented the first phase of a consolidation

of a small system into the IWVWD system. Additional phases and consolidations were evaluated in WY 2025. Additionally, the IWVGA received one application for the Shallow Well Mitigation Program in WY 2025; however, the application is incomplete and is pending additional materials from the applicant.

It is expected that the Shallow Well Mitigation Program and future consolidation projects will continue to provide mitigation measures for impacted shallow wells and create a more reliable supply of water to those affected by declining groundwater levels, lowering groundwater in storage, as well as poor water quality.

3.1.6 Project 5: Dust Control Mitigation Program

Implementation of the Fallowing Program and voluntary cessations of agricultural operations could potentially result in loss of vegetation and an increase in windblown dust and sand, due to the climate of the Indian Wells Valley which would require mitigation to eliminate undesirable results. Several larger agricultural users in the Basin have continued their agricultural activities, delaying the need to implement dust control measures. Agricultural pumping has continued in 2025, pursuant to the Transient Pool allocations. As the Transient Pool allocations begin to run out, the IWVGA will investigate the best management practices to address windblown dust and sand from fallowed agricultural lands and develop a Dust Control Mitigation Plan. Additionally, the IWVGA does not have a funding source to implement the program at this time. Consequently, no work on this project was completed in WY 2025.

3.1.7 Project 6: Pumping Optimization Project

Evaluation of modeling results generated during development of the GSP for the proposed groundwater management and project scenarios showed that some current groundwater pumping may need to be redistributed in the IWVGB to reduce concentrated pumping centers that would lead to continuing localized declining groundwater levels and corresponding continuing impacts to shallow domestic wells.

Pumping throughout the Basin is influenced by the implementation of the other projects and management actions. This project will need to be evaluated after other projects and management actions are implemented and the basin impacts of said projects are evaluated. Consequently, no work on this project was completed in WY 2025.

3.2 Progress Towards Sustainable Management Criteria

As discussed previously, the IWVGA has identified four sustainability indicators with documented historical and/or current undesirable results in the IWVGB:

- Chronic lowering of groundwater levels
- Reduction of groundwater in storage
- Degraded water quality
- Potential for groundwater pumping related land subsidence

Quantifiable sustainable management criteria have been established for sustainability indicators with current or historical impacts to numerically define when undesirable results are occurring and to define achievable targets for reaching and maintaining sustainability. These sustainable management criteria include minimum thresholds, measurable objectives, and interim milestones. Development of these criteria relied upon information about the IWVGB developed in the hydrogeologic conceptual model, current and historical groundwater conditions, and the water budget. Additional information regarding the development of sustainable management criteria can be found in the GSP.

As an interim indicator of progress towards achieving sustainability, the applicable sustainability indicators are evaluated by the interim milestones at 5-year increments. The measurable objectives for the applicable sustainability indicators are desired benchmarks to be reached by year 2040, although it is acceptable for conditions to be managed in the range between the minimum threshold and measurable objective (operating range). If conditions fall below the minimum threshold after the year 2040, undesirable results are occurring and sustainability has not been reached.

The IWVGA selected representative monitoring sites to be used to specifically measure and monitor groundwater conditions caused by the sustainability indicators, and to evaluate the efficacy of proposed projects and management actions achieving sustainability. These sites were selected based on evaluation of the best available data. The monitoring sites were evaluated in 2024 as part of the GSP Periodic Evaluation; consequently, modifications were made to the representative monitoring sites based on the available data.

In general, the IWVGA anticipates the continuation of groundwater level declines until projects and management actions are fully implemented and the basin has stabilized. Sustainability is not required to be reached until 2040.

Sustainable management criteria established for the IWVGB can be monitored on the public data DMS at the following site: www.iwvgsp.com. A summary of data is provided in the subsections below.

3.2.1 Chronic Lowering of Groundwater Levels

Currently, nine representative monitoring sites have been selected in the IWV GSP¹ to monitor the chronic lowering of groundwater levels throughout the IWVGB. These wells were selected to have good spatial distribution throughout the IWVGB and across the pumping centers and good predictive ability to monitor the effectiveness of projects and management actions that will be implemented to limit the decline of groundwater levels. The nine well locations are shown in Figure 3-1.

Representative monitoring sites and their respective sustainable management criteria can be found on the IWV DMS (<https://iwvgsp.com/GSP-Dashboard/map.php>). At present, groundwater levels at seven of the representative sites are above the measurable objectives, the target level in 2040 when sustainability is reached. Groundwater levels at two representative sites are within the operating range between the measurable objective and the minimum threshold. Accordingly, undesirable results have not been observed; however, the IWVGA will closely monitor water level trends, particularly at monitoring sites with water levels that are close to the minimum thresholds. Groundwater level declines are anticipated to continue until projects and management actions are fully implemented. Groundwater elevation data are discussed more thoroughly in Chapter 5.

¹ Section 4.4.2.6 (Representative Monitoring Sites) on the IWV GSP outlines how and why wells were selected as representative monitoring sites for the chronic lowering of groundwater levels.

Table 3-1: Representative Monitoring Sites for Chronic Lowering of Groundwater Levels

Monitoring Site	Screen Interval (ft bgs) ¹	Spring 2025 Measurement (ft msl) ²	Minimum Thresholds (ft msl)	Measurable Objective (ft msl)	Note
USBR-01	615-635	2,671	2,659	2,666	Above Measurable Objective
USBR-03	650-670	2,141	2,139	2,153	Within Operating Range
USBR-04	1190-1200	2,126	2,110	2,126	At Measurable Objective
USBR-05	850-870	2,158	2,151	2,156	Above Measurable Objective
USBR-06	330-350	2,169	2,166	2,171	Within Operating Range
MW 32	880-900	2,139	2,119	2,134	Above Measurable Objective
Kerr McGee	681-881	2,146	2,138	2,145	Above Measurable Objective
Sandquist Spa	135-191	2,169	2,162	2,167	Above Measurable Objective
08A01	550-865	2,135	2,122	2,135	Above Measurable Objective

¹ ft bgs = feet below ground surface

² ft msl = feet mean sea level

3.2.2 Reduction of Groundwater in Storage

Groundwater in storage will continue to be reduced until the IWVGB is operated within the sustainable yield. The 2025 interim milestone for change of groundwater in storage is a loss of approximately 82,000 AF since 2020. The cumulative change in storage from WY 2020 to WY 2024 (five years) was a loss of approximately 67,553 AF. Accordingly, no undesirable results have been observed. The six-year cumulative change of storage (WY 2020 to WY 2025) is a loss of 85,609 AF. This loss of groundwater in storage is consistent with what was anticipated during GSP planning. The annual change of groundwater in storage within the measured study area of the IWB Basin from Spring 2024 to Spring 2025 is estimated to be a loss of 23,366 AF in the IWV main basin and a gain of 5,310 AF in the El Paso Subarea based on changes to groundwater levels at 77 wells calculated by the modified Thiessen Polygon Method (see Table 5-1). The estimated change in groundwater storage is discussed in Chapter 5.3.

3.2.3 Degraded Water Quality

Currently, twelve representative monitoring sites have been designated to monitor water quality, as represented by total dissolved solids (TDS) concentrations. These representative monitoring sites are shown in Figure 3-2. Groundwater water quality data was limited at the time of developing the GSP and establishing sustainable management criteria. Since the GSP adoption, water quality data has been collected to establish baseline conditions. Sustainable management criteria have been established during the reevaluation process of all representative monitoring sites which occurred during development of the

Periodic Evaluation. The status of TDS concentrations at the current representative monitoring sites are summarized in Table 3-2 below.

Table 3-2: Representative Monitoring Sites for Degraded Water Quality

Well	Screen Interval (ft bgs)	Most Recent Measurement (mg/l) ¹	Minimum Thresholds (mg/l)	Measurable Objective (mg/l)	Note
AB 303-5	905-1,005	140	500	200	Below Measurable Objective
IWVWD Well 33	560 - 1000	220	500	310	Below Measurable Objective
Owens Peak South 01	366 - 376	300	500	300	At Measurable Objective
IWVWD Well 30	TD=1,200	230	500	240	Below Measurable Objective
Hometown Water Well 01	263-323	340	500	370	At Measurable Objective
IWVWD Well 11	260-310, 340-380, 470-500, 520-600	490	600	530	Below Measurable Objective
Sandquist Spa	135-191	380	500	340	Above Measurable Objective
West Valley Mutual 01	200-400	480	600	500	Below Measurable Objective
Fields	299-359	500	600	500	At Measurable Objective
Charley Tower	60-140	740	780	740	At Measurable Objective
Bork	n/a	430	500	450	Below Measurable Objective
3B	300-360	550	620	600	Below Measurable Objective

¹ mg/L = milligram per liter. Water quality measurements collected in 2023, 2024, and 2025 due to monitoring schedule.

TDS concentrations at 11 of the representative sites are at or below the Measurable Objectives. TDS concentrations at one representative site is above Measurable Objective. No undesirable results have been observed.

The representative monitoring sites were reevaluated for effectiveness at representing basin-wide conditions prior to the next GSP evaluation. Sustainable management criteria were established for all representative monitoring sites to address DWR's recommended corrective action.

See Section 7.1 for additional data on TDS concentrations.

3.2.4 Land Subsidence Related to Groundwater Pumping

Due to implementation of projects and management actions that will result in stabilization of groundwater levels, land subsidence is not anticipated to occur. Accordingly, the Measurable Objective and interim milestones are set at the long-term historical rate of subsidence, 0.04 inches/year. (See the GSP for additional information.) No representative monitoring sites to measure land subsidence of the NAWS China Lake have been selected at this time. The IWVGA intends to periodically monitor land subsidence conditions throughout the IWVGB as datasets become available and as necessary to ensure no undesirable groundwater conditions are occurring. Periodically and at least every five years, the IWVGA will request any available land subsidence data from the U.S. Navy at their Supersonic Naval Ordinance Research Track (SNORT) alignment. No land subsidence data was collected by the U.S. Navy during WY 2025.

The U.S. Geologic Survey (USGS) does not identify the IWVGB as a region which has experienced historical land subsidence due to groundwater production, peat loss, or oil production (USGS, 2021). Interferometric Synthetic Aperture Radar (InSAR) data measuring vertical displacement is available on the SGMA Data Viewer (DWR, 2023b). The data indicate the IWVGB (including El Paso) experienced a displacement between -0.1 and 0.1 feet in WY 2025. Accordingly, no significant land subsidence occurred during WY 2025. No additional land subsidence data has been published in WY 2025. Analysis of cumulative data indicates there are smaller areas in the northeast region of the Basin with a displacement of up to -1 foot in the period of 6/13/2015 through 10/01/2025.

3.3 Progress Made on Addressing Recommended Corrective Actions

In its GSP Assessment Staff Report for the IWV GSP, DWR provided seven RCAs to be considered by the IWVGA prior to the first Periodic Evaluation of the GSP. The following table documents each RCA and a summary of IWVGA’s response. See the 2025 Periodic Evaluation for a complete discussion of the RCA’s.

Table 3-3: Recommended Corrective Actions Summary

Recommended Corrective Action Summary	IWVGA Activities in Response
<p>RCA 1</p> <ul style="list-style-type: none"> • Provide additional information on the required, ongoing communications elements required in the GSP Regulations. • Address Communication & Engagement Plan. 	<ul style="list-style-type: none"> • The Communication & Engagement Plan was amended in WY 2023. • Ongoing communication with the public occurs regarding relevant and important GSP implementation topics.
<p>RCA 2</p> <ul style="list-style-type: none"> • Investigate the hydraulic connectivity of the vertical and lateral relationships between the three hydrogeologic zones. • Provide a timeline and discuss the steps that will be taken to fill the data gap identified in the Plan related to groundwater monitoring. • Reassess the groundwater level and groundwater quality monitoring networks. 	<ul style="list-style-type: none"> • Groundwater level monitoring and mapping of pumping patterns and size of drawdown cones across the Basin • Updated Basin Model to include refined GDE areas • Continued data collection and evaluation of data gaps • Addition/Replacement of monitoring wells, data loggers, weather stations and stream gages • Establishment of water production reporting policies • Planned field verification survey of springs and estimations of flows • Evaluation of Representative Monitoring Sites • Investigation of Hydrogeologic zones
<p>RCA 3</p> <ul style="list-style-type: none"> • Update water budget • Revise climate change projections based on data obtained from addressing data gaps, as needed. 	<ul style="list-style-type: none"> • GSP model updated with additional data • Climate change modeling performed with updated Basin Model • Impacts to GDEs evaluated and discussed in Periodic Evaluation, though further data collection is required for evaluation • Water budgets descriptions and tables updated in Periodic Evaluation
<p>RCA 4</p> <ul style="list-style-type: none"> • Update the Plan to include projects and management actions sufficient to eliminate perpetual overdraft currently projected beyond the fifty-year planning and implementation horizon. 	<ul style="list-style-type: none"> • All Projects and Management Actions are re-evaluated in Periodic Evaluation • Clarification on the continued perpetual overdraft is discussed in Periodic Evaluation • Updated Project timelines provided in Periodic Evaluation

Recommended Corrective Action Summary	IWVGA Activities in Response
<ul style="list-style-type: none"> Develop a contingency plan for if imported water is not secured. Provide updates related to the negotiated details and implementation of the imported water project options. 	<ul style="list-style-type: none"> Discussion of contingency plan provided in Periodic Evaluation Update on imported water project provided in each Annual Report
<p>RCA 5</p> <ul style="list-style-type: none"> Identify and clarify groundwater conditions that would produce undesirable results. Identify minimum thresholds to prevent conditions in the Basin from causing those undesirable results. 	<ul style="list-style-type: none"> Groundwater conditions and undesirable results were re-evaluated and updated in the Periodic Evaluation Sustainable Management criteria, including minimum thresholds, established at all Representative Monitoring Sites Shallow Well Mitigation Program description updated in Periodic Evaluation
<p>RCA 6</p> <ul style="list-style-type: none"> Establish sustainable management criteria at all representative monitoring locations. 	<ul style="list-style-type: none"> Sustainable Management criteria, including minimum thresholds, established at all Representative Monitoring Sites Continued groundwater quality monitoring and studying water quality types within the Basin
<p>RCA 7</p> <ul style="list-style-type: none"> Update the data management system to reflect correct, current, and complete information. Describe rationale for management area boundaries, if applicable. 	<ul style="list-style-type: none"> DMS updated to reflect complete and accurate data consistent with all GSP related reports (https://iivvgsp.com/).

3.4 Outreach and Engagement

The IWVGA currently employs multiple forms of outreach to distribute news, information, and data to stakeholders in the Basin. The IWVGA website, which acts as the main resource center for all things IWVGA-related, is consistently updated to provide the public with the most up-to-date and accurate information. The IWVGA website contains all GSA related information and documentation, including board, PAC, and TAC meeting materials, general GSA information, GSP and GSP-related documents and reports, public notices and press releases, FAQs and forms, and links to other resources.

A guidance document on communication and engagement (C&E Plan) was developed by the IWVGA in 2018 and revised in WY 2023. According to the C&E Plan, the IWVGA will use individual mailings and newsletters, website updates, potential use of social media, public notices and display advertisements in

newspapers, focused workshops, board meetings, and provide hard copy materials along with CDs to public libraries as outreach methods to inform the public regarding important GSP implementation tasks.

The IWVGA conducts regular monthly Board meetings to support the implementation of projects and management actions that support Basin sustainability, and to receive input from the public. The IWVGA Policy Advisory Committee (PAC) meets as needed to advise the IWVGA on policy matters related to GSP implementation. The IWVGA Technical Advisory Committee (TAC) advises the IWVGA Board and IWVGA Water Resources Manager on technical matters, as needed.

In WY 2025, the IWVGA retained Westbound Communications (Westbound) to develop education and targeting strategies and proactively address misinformation within the community. In July 2025, the IWVGA Board approved establishment of an independent Facebook page to improve outreach and engagement with the public. Additionally, Westbound is also supporting the development of a new IWVGA website, designed to be more accessible and to provide informational resources for the public.

Page Intentionally Left Blank

Chapter 4 Hydrologic Conditions

The California Code of Regulations (CCR) requires that GSP Annual Reports contain information on current and historical water year types (23 CCR § 356.2). DWR issues water year classifications for some areas of the state, including the Sacramento River and San Joaquin River basins. The DWR historical data set covers the period from WY 1931 to 2024; the classification for WY 2025 is still not yet available.

GSAs have the option to (1) develop their own water year types based on best available information (23 CCR Section 354.18d), or (2) use the data recently developed by DWR for the water budget. The suitability of the DWR water year type index will be assessed for future reports; at this time, a classification for the most recent water year is not yet available from DWR. A water year type index (Attachment B), based on local precipitation data in the IWVGB, was developed previously for the baseline groundwater model (GSP Appendix 3-H, Stetson 2020a) and the GSP Annual Reports for WYs 2019-2024 (Stetson, 2020b, 2021, 2022a, 2023, 2024). Use of that index is continued in this annual report.

The IWVGB water year type index is based on historical precipitation data from 1945-2025 at the China Lake NAF station and has five hydrologic categories. The categories are illustrated in the annual precipitation exceedance curve in Figure 4-1. The five types are Wet, Above Normal, Normal, Below Normal, and Dry. Table 4-1 shows the thresholds for determining water year type. The thresholds correspond to the vertical lines dividing the categories in Figure 4-1. WY 2025 was a Normal year, with 2.48 inches of rain at the index station². Table 4-2 and Attachment B lists the water year type since 2015 and the historical classifications of water year type since WY 1945, respectively. The basin had been experiencing a historical drought (2012-2022) prior to the WY 2023 wet year. The precipitation in WY 2025 follows the historical normal year in WY 2024. The water year 2025 precipitation was close to the threshold between Normal and Below Normal hydrologic conditions for the basin (Table 4-1).

² Daily precipitation data missing at China Lake NAF (NOAA station ID USW00093104) was filled in using nearby daily precipitation data at Inyokern 9.4 (NOAA station ID US1CAKN0001).

Table 4-1: Percent Exceedance Ranges and Dividing Thresholds for Five Water Year Types

Year Type	Percent Exceedance Range (%)	Threshold Between Year Type (in/yr) ¹	Number of Years in Historical Record (WY 1945-2025)
Wet	0% - 10%	6.0	8
Above Normal	>10% - 33%	4.1	18
Normal	>33% - 67%	2.0	28
Below Normal	>67% - 90%	1.3	18
Dry	>90% - 100%	n/a	8
		Total years	81

1 Thresholds based on Percent Exceedance Ranges for 1945-2025 period.

Table 4-2: Water Year Types based on Precipitation at China Lake NAF Station (No. 041733)

WY	Annual Precipitation (in/yr)	Percentage of Average	Percent Exceedance Rank	Water Year Type
2015	3.67	104%	44%	N
2016	1.38	39%	88%	BN
2017	4.61	131%	25%	AN
2018	1.43	41%	86%	BN
2019	6.13	174%	8%	W
2020	5.57	158%	15%	AN
2021	0.58	16%	96%	D
2022	1.87	53%	74%	BN
2023	8.27	234%	4%	W
2024	3.41	97%	46%	N
2025	2.48	90%	65%	N

Notes: W = Wet; AN = Above Normal; N = Normal; BN = Below Normal; D = Dry.

Percentage of average and percent exceedance range calculated based on the 1945-2025 period of record.

Chapter 5 Groundwater Elevation Data

Since 1946, groundwater data have been collected in the IWVGB for studies conducted by the U.S. Navy, USGS, DWR, U.S. Bureau of Reclamation (USBR), and other agencies. In 1995, a groundwater monitoring program (GWMP) was established between Kern County Water Agency (KCWA) and the U.S. Navy collecting groundwater levels throughout the IWVGB during the wet (spring) and dry (fall) seasons from approximately 100 to 150 wells. Since 2020, the Indian Wells Valley Groundwater Authority (IWVGA) coordinates with KCWA and the Navy for the semi-annual monitoring collection of groundwater levels. Since WY 2022, the IWVGA's Water Resource Manager has been required to supply most of the field staff needed to measure groundwater levels. This additional support for KCWA and the Navy allowed for major improvements in collecting observation data during WY 2022, WY2023, WY2024 and has continued into WY 2025.

The GWMP included 184 monitoring sites during WY 2025 (See Attachment D for all wells in the GWMP). Depths to water (DTW) measurements were collected at 148 sites in Fall 2024 and 150 sites in spring 2025. Figures 5-1 and 5-2 shows these well locations. Attachment D contains measured DTW data and resulting groundwater elevations (feet, mean sea level) for WY 2025. These data were filed on DWR's SGMA portal and appended to the Data Management System (DMS) website (iwvgsp.com). Groundwater elevation data were used to produce contour maps and hydrographs and are discussed below in this section of the annual report.

5.1 Groundwater Elevation Contour Maps

KCWA's Geologist³ produced Fall 2024 and Spring 2025 groundwater elevation and depth to water contours for this WY 2025 Annual Report. Figures 5-1 and 5-2 show the Fall 2024 and Spring 2025 groundwater elevation contours, respectively. Both figures also include the location of measured groundwater level monitoring wells used in the analysis, the groundwater basin boundary, and the watershed extents for Indian Wells Valley. Contours are dashed to show the uncertainty where there is limited data available.

³ Michelle Anderson, PG; Kern County Water Agency (KCWA) geologist.

The groundwater elevation contour maps show the general flow of groundwater from the surrounding mountains towards China Lake playa. Groundwater flows from Rose Valley in the northwest (about 2,250 feet, msl), the Sierra Mountain front fan deposits (about 2,190 feet, msl) along the west, the Argus Range Mountain front fan deposits from the east (about 2,180 feet, msl) and from the El Paso Subarea (2,800 feet, msl) in the southwest towards the playa at the center of the basin. Pumping centers form depressions near discharge areas in the northwest (about 2,170 feet, msl), southwest (about 2,150 feet, msl), and southeast (about 2,120 feet, msl). Groundwater mounding can also be observed near the wastewater treatment plant on the NAWs China Lake (2,190 feet, msl). There is a fault zone causing steep groundwater level contours from the El Paso Subarea towards the main IWVGB.

Figures 5-3 and 5-4 show contours of the depth to groundwater below land surface. These contours indicate the depth that would need to be drilled to intercept the groundwater table and produce water from a well. In general, depth to groundwater below land surface appears to be greatest in areas with the highest elevations along the Sierra Nevada and the El Paso Mountains. Depths to groundwater decrease at lower elevations at the playa and towards Salt Wells Valley.

5.2 Hydrographs

Hydrographs have been developed for all wells in the IWV Groundwater Monitoring Program (GWMP) and are posted on the DMS website (www.iwvgs.com). Hydrographs for 15 selected well sites are provided in Attachment E (see also Figure 5-5), which include the designated representative monitoring wells for chronic lowering of groundwater specified in the GSP used to track Basin management. The selected wells include seven nested multi-level piezometers (note: data for nested multi-level piezometers appear on the same hydrograph), for a total of 30 groups of groundwater level measurements. Groundwater level data collected by KCWA, the Navy, IWVWD and other agencies (Historical data collected in IWV from DWR, USGS, and USBR are also included on the hydrographs) were used to produce these hydrographs. Groundwater level data for the majority of the hydrographs begin in the late 1980s and early 1990s when the wells were installed, with the exception of the Inyo Well. The Inyo Well (27S/39E-07R01), located in the southwest of the IWV main basin has the longest period of record for groundwater level data in the basin dating back to 1946.

The hydrographs in Attachment D show historical changes of groundwater levels throughout the IWVGB. The most recent changes of groundwater levels at the 15 selected well locations shown on Figure 5-5 are summarized below.

- USBR-10 nested piezometers (Attachment D, page 1, upper graph)
These nested wells are located in the northwest near Ninemile Canyon Road (mountain front recharge) and south of Little Lake (Rose Valley subsurface flow). Historically there were four piezometers at USBR-10, but now only 3 of the piezometers are able to be measured⁴. While the groundwater level declined in the shallow piezometer, the shallow-mid and deep piezometer saw a water level rise from Spring 2024 to Spring 2025, where groundwater levels in the shallow-mid and deep piezometers rose 2.10 and 2.90 feet, respectively.
- USBR-6 nested piezometers (Attachment D, page 1, lower graph)
These nested wells are located on the Navy Base just inside the Navy fence line in the northwest adjacent to alfalfa fields, and near fan deposits from Sand Canyon. While the shallow and deep piezometers saw a water level decline of 2.81 feet and 0.17 foot, respectively, the mid piezometer saw an increase of 0.43 foot from Spring 2024 to Spring 2025.
- USBR-5 nested piezometers (Attachment D, page 2, upper graph)
These wells are in the northwest at the base of Indian Wells Canyon (mountain front recharge) and approximately 0.5 mile from the agricultural pumping center. There was a water level decline in all three piezometers from Spring 2024 to Spring 2025 at 1.00 foot (shallow), 2.30 feet (mid) and 0.80 foot (deep).
- NR-2 nested piezometers (Attachment D, page 2, lower graph)
These wells are in the northwest about one mile east of USBR-5 and near the agricultural pumping center. The observed groundwater level declined by 1.40 feet in the mid piezometer of NR-2 from Spring 2024 to Spring 2025.
- Sandquist Spa Well (Attachment D, page 3, upper graph)
This well is located on the Navy Base between the agricultural pumping centers and the playa (discharge area). The observed groundwater level decline was 0.53 feet from Spring 2024 to Spring 2025.
- Kerr McGee 17 (Attachment D, page 3, lower graph)
This well is located on the Navy Base east of Highway 395 about 3 miles southeast of NR-2 just inside the Navy fence line. From Spring 2023 to Spring 2024, the groundwater level in this well declined 1.15 feet.
- MW-32 nested wells (Attachment D, page 4, upper graph)
These wells are located along Business Highway 395 to the east of Inyokern, in the vicinity of IWVWD pumping wells. From Spring 2024 to Spring 2025, the water level declined 1.49 feet in

⁴ Since Fall 2005 the mid-deep piezometer at USBR-10 has not been able to be measured (well collapsed, these data are posted for historical reference only).

the mid piezometer and 1.69 feet in the deep piezometer. There was no water level measurement in the shallow piezometer in Spring 2024.

- USBR-4 well (Attachment D, page 4, lower graph)
This well is also located along Business Highway 395, about 2 miles east of MW-32. A groundwater level decline of 1.36 feet was observed at this well from Spring 2024 to Spring 2025.
- 26S/39E-32L1 (Attachment D, page 5, upper graph)
This well is located about 2 miles south of the junction of U.S. Highway 395 and California State Route 178. Groundwater levels have shown a steady decline since monitoring began in 2007. There was no water level measurement in the shallow piezometer in Spring 2024.
- George Air Corridor Well (Attachment D, page 5, lower graph)
This well is located on the Navy Base in the southeast area on the basin. Groundwater levels have shown a steady decline since monitoring began in 1989. A water level decline of 2.41 feet was observed from Spring 2024 to Spring 2025.
- USBR-3 nested piezometers (Attachment D, page 6, upper graph)
This nested well is located to the west of Ridgecrest near the new IWVWD production wells. From Spring 2023 to Spring 2024, the groundwater level declined 1.80 feet in the shallow piezometer. At the mid and deep piezometer, a water level decline of 1.70 feet and 0.50 foot was observed during that same one-year period.
- Inyo well (Attachment D, page 6, lower graph)
This well has the longest period of monitoring data, since 1946, and is in the southwest area of the IWVWD production wells. The groundwater level rose 0.41 foot from Spring 2024 to Spring 2025.
- AB303-05 well (Attachment D, page 7, upper graph)
This well is in the El Paso subarea to the southwest of the main IWVGB where there isn't any significant pumping. Stable groundwater levels have been observed at this well since 2007, with a slight rise in recent years. The groundwater level rose 3.52 feet from Spring 2024 to Spring 2025 at this well.
- USBR-1 nested piezometers (Attachment D, page 7, lower graph)
This nested well is also located in the El Paso subarea of the IWVGB where there isn't any significant pumping, southwest of a fault that separates this subarea from the main IWV groundwater basin. Steady groundwater levels have been observed at all four piezometers since about 1995, with a slight rise in recent years. From Spring 2024 to Spring 2025, the water level in the shallow piezometer declined 7.49 feet, while the mid and deep piezometers saw a water level rise of 2.10 and 2.90 feet, respectively.
- 08A01 (Attachment D, page 8)
Well 08A01 is located near the center of IWVWD's southwest wellfield. Biannual water level observation at this well started in the late 1980s and continuous water level decline, except for

an abrupt water level rise in October 2020, have been observed ever since. The groundwater level declined 1.88 feet from Spring 2024 to Spring 2025 at this well.

5.3 Estimated Change in Groundwater Storage

Groundwater levels have declined in many parts of the IWVGB during WY 2025. There are some areas that show little change, or even an increase in groundwater levels, primarily in the El Paso subarea, where there is little or no groundwater production. Two different methods were used to evaluate the changes in groundwater levels from Spring 2019 through Spring 2025: (1) map color coded comparison of measured groundwater level change, and (2) modified Thiessen polygon method using 77 monitoring wells distributed throughout the basin to estimate storage changes.

5.3.1 Groundwater Level Change from Spring 2024 to Spring 2025

Groundwater levels were measured at 141 wells during both Spring 2024 and Spring 2025. These measurements were compared to evaluate the annual groundwater level change across the basin. Figure 5-6 shows the annual groundwater elevation change from Spring 2024 to Spring 2025 (Attachment F) displayed as gradational colors on a map for each of these monitoring wells. This visual method of representing the available data on a map shows the distribution of lowered groundwater levels and where no change or an increase in groundwater levels occurred during the last water year. Dark orange and red dots at 54 wells represent observations with a 1-foot to 17.5-foot drop in groundwater levels; yellow and orange dots at 54 wells display groundwater levels dropping up to 1 foot. The highest levels of groundwater elevation change observed (orange dots) appear to correlate with pumping and discharge areas. The largest decline in groundwater levels was observed at NR 1-M, located near the northwest pumping center.

An increase or no change in groundwater levels (no loss of groundwater storage) was observed in the wells shown as green dots in Figure 5-6. This condition occurs mostly in the El Paso Subarea where there is very limited pumping; and in the southeast near Ridgecrest where pumping was reduced when IWVWD moved its production further to the west.

5.3.2 Estimating Storage Change Using Modified Thiessen Polygon Method

Changes to groundwater storage are estimated each year for the Annual Report and are important for managing IWV's water resources. In this Section, changes to groundwater in storage for WY 2025 have been calculated for a portion of the aquifer where groundwater levels are measured for the GWMP. The distribution of measured data from monitoring wells in the GWMP are shown on the groundwater elevation and groundwater depth contour maps (Figures 5-1 through 5-4) and listed in Attachment C. This area (188,971 acres), where available groundwater level data exists and the major pumping occurs, represents about half of the total GSA Basin (381,746 acres), and approximately 83% of the total numerical groundwater model domain. Spring 2025 groundwater level measurements were compared with Spring 2024 measurements using a modified Thiessen Polygon Method.

5.3.2.1 Modified Thiessen Polygon Method

The Thiessen polygon method is a standard approach (Thiessen, 1911; Dunne et al., 1978) of averaging point rainfall values according to an areal distribution and can be applied to other datasets. This method distributes data collected at discrete points to the basin area by forming polygons, with each polygon containing one station with measured data. Applying this method to a groundwater aquifer assumes that the groundwater level data at the monitoring well represents the average groundwater level throughout the area represented by that particular polygon. The volume of groundwater change within each polygon is the product of (1) area, (2) specific yield (Sy^5), and (3) measured groundwater level change during a given period of time. This calculation for each polygon is then summed up to estimate the total volume of groundwater change within the specified study area of the basin.

Modifications were made to the Thiessen Polygon Method based on comments received from the TAC to earlier annual reports (WY 2019 and WY 2020) using this method. These modifications were first used in the WY 2022 Annual Report and carried forward in this and subsequent Annual Reports. Monitoring wells used for this analysis were considered using the following criteria: (1) long and continuous spring water level record; (2) monitoring well's condition and access assuring that the groundwater level measurement will continue for the foreseeable future; (3) spatial distribution throughout the basin; (4) selecting the shallowest piezometer for nested monitoring wells. Based on these criteria, a total of 77 monitoring wells

⁵ Specific yield is the amount of groundwater that a unit volume of aquifer will yield when drained by gravity. This is related to the pore space where water occurs between the gravel/sand/silt/clay grains within the aquifer.

were selected for the Thiessen polygon discretization. These monitoring wells are shown on Figure 5-7 and labeled with name and database ID⁶ in parentheses.

The original Thiessen polygon method was developed in the early 1900's to estimate aerial precipitation from discrete precipitation stations to apply over larger areas. There are limitations to using this precipitation averaging technique to changes of groundwater in storage.

- assuming homogeneity of heterogeneous sediments
- uncertainty in specific yield estimates
- monitoring wells are sometimes not accessible to measure spring groundwater levels, and estimates (shown in red in Attachment F) are interpolated for the polygon
- nearby pumping wells may affect the groundwater level measurement
- given many years of over pumping in the basin, the groundwater table is not in steady state, there are areas of the aquifer where groundwater levels are rebounding and filling in the pumping cone of depression, and other areas where the cone of depression is widening.
- This is a tectonically active basin that can affect groundwater levels

The Thiessen Polygon Method developed for Indian Wells Valley is best applied as a relative indication for annual storage changes. The IWVGA is working to better address the certainty of this GSP reporting requirement. The IWVGA updated the 2020 GSP Model for the 5-Year Update, and the use of the 2025 Model to estimate annual storage changes is being evaluated.

5.3.2.2 Estimated Changes to Groundwater in Storage: Spring 2016 to Spring 2024

Changes to groundwater storage are estimated each year for the Annual Report and are important for managing IWV's water resources. These changes over time are most notable in the areas of the basin where declining groundwater levels are being observed. Though measuring groundwater levels had been interrupted during the COVID-19 pandemic, beginning again in Spring 2022 comprehensive measurements have been collected. Spring 2025 data show a continuing decline in groundwater levels in the IWV basin and in groundwater in storage (Table 5-1).

⁶ The well database ID can be used to browse the IWV DMS website to view available groundwater data and reports (iwvgsp.com).

Table 5-1: Estimated Annual Change to Groundwater in Storage, Spring 2024 to Spring 2025

	Polygon Area (acres)	Spring 2023 to Spring 2024 (AF)
IWV Main Basin	154,960	-23,366
El Paso Subarea	34,010	5,310
Total Study Area	188,971	-18,056
Total GSA Basin	381,746	n/a
<i>% of GSA Basin</i>	49.5%	<i>not estimated</i>

The annual change of groundwater in storage within the measured study area of the IWV Basin from Spring 2024 to Spring 2025 is estimated to be a loss of 23,366 AF in the IWV main basin and a gain of 5,310 AF in the El Paso Subarea based on changes to groundwater levels at 77 wells.

Figure 5-8 provides a plot of the estimated groundwater storage change from WY 2016 to WY 2025 (Table 5-3) along with the recent estimated groundwater pumping. See Chapter 6.1 for the discussion of groundwater pumping. The modified Thiessen Polygon method estimates a continued decrease of groundwater in storage for the main IWV Basin, and an overall increase in groundwater storage in the El Paso subarea where there is very limited domestic pumping (and limited groundwater level data). Sustainable Management Criteria for monitoring loss of groundwater in storage is measured as a cumulative total since WY 2020 (see Table 5-2).

Table 5-2: WY 2020 to WY 2025 Estimated Groundwater Storage Change, Modified Thiessen Polygon Method

	Thiessen Area (acres)	Average Annual AFY			WY 2023 (AF)	WY 2024 (AF)	WY 2025 (AF)	6-Year Cumulative Change (AF)
		WY 2020 (AF)	WY 2021 (AF)	WY 2022 (AF)				
IWV Main Basin	154,960	-15,883	-15,883	-15,883	-12,370	-9,931	-23,366	-93,314
El Paso Subarea	34,010	2,390	2,390	2,390	-5,513	737	5,310	7,705
Total	188,971	-13,492	-13,492	-13,492	-17,883	-9,194	-18,056	-85,609
Hydrologic Condition		AN	D	BN	W	N	N	

Note: Storage Change is based on the measured study area, approximately 49.5% of the 381,746 acres of the Total IWV Basin.

Chapter 6 Water Supply Data

6.1 Groundwater Extraction Data

Groundwater from the IWVGB is the sole source of potable water in the Indian Wells Valley. Groundwater is produced from approximately 970 wells. Figure 6-1 provides the location of the production wells in the IWVGB⁷. Since 2018, the IWVGA has been actively engaged in efforts to determine annual groundwater production in the IWVGB and improve the accuracy of production estimates. These efforts are summarized below with the years the work was conducted in parenthesis.

- Baseline Pumping Conditions (2018-2019): The most recent available pumping data at the time (2018) were compiled from known and cooperative individual groundwater producers to develop the numerical flow model. Through stakeholder outreach efforts, major pumpers provided estimates to use for future conditions (2020 through 2070) that reflected their projected water demands. Prior studies were used to estimate pumping for years 1975-2017 for groundwater producers where little data were available nor provided by stakeholder outreach.
- Well Registration and Reporting (2018-Current): The IWVGA implemented well registration and well production reporting requirements in 2018 for the purpose of collecting volumetric pumping fees. All groundwater producers subject to the fees established by the IWVGA are required to register their groundwater production wells and report monthly groundwater production.
- Sustainable Yield Allocation (2020-Current): The IWVGA requested historical pumping records from all non-*de minimis* pumpers (excluding federal entities) for the purpose of allocating the sustainable yield of the IWVGB. This allocation is used to determine a pumping allotment that is not subject to the Basin Replenishment Fee.
- Flow Meter Requirements (2020): The IWVGA adopted Ordinance 01-20 requiring the installation and testing of IWVGA-approved flow and hour metering equipment on all non-*de minimis* and non-federal wells in the Basin, with the purpose of increasing accuracy of groundwater production records.
- Transient Pool (2020-Current): The IWVGA developed a Transient Pool program (see Section 3.1.1) which requires reporting of groundwater production to the IWVGA. This groundwater production is not subject to certain IWVGA established fees and is accounted for separately than other groundwater production.

⁷ There is insufficient data by well to display the volume of each production well on Figure 6-1; however, the figure shows the location of wells by well use category.

- Legal Action and Settlements (2020 through Current): The IWVGA has taken legal action against non-compliant pumpers and has entered settlements regarding the payment of fees and reporting of groundwater production.
- Pumping Verification (2023 through 2024): In WY 2023, the IWVGA began a review and verification process of all production records for the years 2018 to current to update the numerical model production values.

Despite these efforts, data gaps in groundwater production within the IWVGB still exist. These gaps are partially due to inaccuracies of self-reporting, non-compliant groundwater producers who do not report production data, groundwater producers who have not installed water meters on their wells, and groundwater producers present in the IWVGB that are not subject to reporting (i.e. de minimis extractors). Additionally, current litigation has brought into question the accuracy of some self-reported groundwater production data due to inconsistencies with reported groundwater production and documented and stated water use.

The methods that groundwater producers use to report their production include the following:

- Water meters
- Electrical meters
- Estimates based on land use
- Estimates based on population served by groundwater production well

The best engineering estimate of WY 2025 pumping is derived from the combination of all pumping records and sources available to the IWVGA and is presented in the final column in Table 6-1, below. Attachment G provides a more detailed breakdown of pumping categories and the data source for each value. The IWVGA is continually working to improve its estimate of groundwater production in the IWVGB because these data are critical components of the water budget and essential for managing sustainability.

Table 6-1: IWVGB Groundwater Production Estimates

Water Use Sector	Estimated No Action Projections WY 2025 (AF)	WY 2025 Reported Pumping (incomplete) ³	WY 2025 Total Estimated Pumping (AF) ^{4,5}
Urban	7,130	5,920	5,980
Industrial	2,910	2,580	2,820
Agriculture	22,570 ²	7,760	8,700
Other – Federal ¹	2,040	1,330	1,330
Other – Domestic/ Mutuals/Co-Ops/ Community Services District	1,380	80	1,370
TOTAL	36,030	(incomplete)	20,200

- 1 Federal groundwater use is for NAWS China Lake and are provided by the U.S. Navy. Federal entities are not required to report monthly production to the IWVGA for the purpose of paying fees established by the IWVGA; however, though not required, the U.S Navy provided monthly production to the IWVGA for the Annual Report.
- 2 This value includes planned agricultural projections provided by pumpers and probably overestimates future agricultural groundwater production.
- 3 These values underestimate actual groundwater production in WY 2025 because not all non-de minimis groundwater producers submit data regularly to the IWVGA and because *De minimis* users (those that produce less than 2 acre-feet per year (AFY) or those that have four or fewer connections) are not required to report monthly production to the IWVGA for the purpose of paying fees established by the IWVGA.
- 4 See Attachment G for a more detailed table.
- 5 Actual pumping may be higher than estimated.

Table 6-2 below shows annual groundwater production estimates. Groundwater production within the IWVGB has been roughly consistent since WY 2019 (the first annual report). As transient pool allotments begin to be fully utilized, it is anticipated that groundwater production will decrease. In WY 2025, the estimated total groundwater production was 2.6 times the estimated sustainable yield of 7,650 indicating overdraft conditions have continued in the IWV.

Table 6-2: Total Estimated Pumping by Water Year

Water Year	Total Estimated Pumping (AF)
WY 2019	22,800
WY 2020	21,990
WY 2021	20,800
WY 2022	21,160
WY 2023	19,150
WY 2024	20,840
WY 2025	20,200

6.2 Surface Water Supply

Natural surface waters are not used as a drinking water supply source in the IWVGB. Approximately 2,560 acre-feet of recycled water was produced at the City of Ridgecrest’s wastewater treatment plant during WY 2025 and was used for the following:

- Landscape irrigation (golf course)
- Partial maintenance of the Mojave Tui Chub habitat (environmental water)
- Discharge to evaporation/percolation ponds

Effluent from the wastewater treatment plant is no longer used for agricultural irrigation.

Table 6-3 below provides the estimated breakdown of beneficial recycled water use in WY 2025.

Table 6-3: WY 2025 Recycled Water Use.

Recycled Water Use Sector	WY 2025 Estimated Use ¹ (AF)
Urban ²	330
Other ³	890
TOTAL	1,220

- 1 Data provided in email by the City of Ridgecrest to Stetson Engineers Inc on February 17, 2026.
- 2 Used for irrigation of golf course on NAWWS China Lake.
- 3 Recycled water not used for urban and agricultural irrigation is disposed of in evaporation/percolation ponds. Approximately 2,230 AF was discharged to the ponds in WY 2025. It is estimated approximately 60 percent of the recycled water discharged to the ponds evaporates, with the remaining 890 AF percolating to the groundwater (Provost and Pritchard Consulting Group, 2015). In addition, these ponds partially support the Mojave Tui Chub habitat on NAWWS China Lake.

6.3 Total Water Use

Total water use in the IWVGB during WY 2025 is comprised of groundwater supplies and recycled water supplies. See Chapters 6.1 and 6.2 above for additional detail on these supplies.

Table 6-4: WY 2025 Estimated Total Water Use in the IWVGB.

Use Category	WY 2025 Estimated Total Water Use (AF)
Groundwater Production	20,200
Recycled Water	1,220
TOTAL	21,420

Page Intentionally Left Blank

Chapter 7 Other Data Collection and Basin Management Tasks

In WY 2025, the IWVGA continued its data collection efforts and basin management tasks to improve Basin understanding and monitor groundwater sustainability, in addition to the regular groundwater level monitoring discussed in Chapter 5. These efforts help address the data gaps outlined in the GSP. Summaries of key tasks are provided below.

7.1 Annual Groundwater Quality Sampling

Twelve groundwater quality samples were collected and sent to a laboratory for analysis in October 2024 from nine monitoring wells and 3 domestic wells within the IWVGB. The purpose of this annual sampling was to meet interim milestones for the sustainable management criteria, augment data in the existing water quality database, and address some data gaps for sustainable management of the IWVGB. Results from this sampling, provided in Attachment H, will be used to refine the existing IWVGB monitoring network (GSP § 354.34), validate the hydrogeologic conceptual model (HCM) (GSP § 354.14), and update the numerical groundwater model (GSP § 354.16) for Periodic Evaluations of the GSP.

7.1.1 TDS Results

Salinity, represented by total dissolved solids (TDS), is one of two main groundwater quality constituents of concern in the IWVGB. The lowest observed TDS concentration collected in Fall 2024 was 150 mg/L at monitoring well 26S/40E-19N02 (252-255 feet depth). The highest observed TDS concentration collected in Fall 2024 was 1,000 mg/L (247-250 feet depth) from the George Air Corridor well 27S/40E-01K02 in the southeast area of the basin.

The areal distribution of TDS concentrations from the October 2024 sampling event are displayed on Figure 7-1. Four of the twelve wells sampled had TDS concentrations equal to or greater than 1,000 mg/L: 27S/40E-01K02 (George Air Corridor) east of Ridgecrest. TDS concentrations above the Secondary Maximum Contaminant Level (SMCL) (500 mg/L) were also present in the northwest, while lower TDS concentrations (<500 mg/L) occurred in the El Paso subarea and along the Sierra Nevada Mountain front. Results from the October 2024 water quality samples are consistent with historical data presented in the January 2020 GSP.

Historical TDS trends are plotted in Figure 7-2 for 11 wells with three or more TDS measurements. TDS results at IWVGB monitoring wells are summarized below.

- Monitoring well 25S/38E-03B is in the northwest of the IWV basin near 395 by Pearsonville, and is screened from 300 to 360 ft. Seven TDS samples have been collected from 2007 to 2024. The TDS concentration taken in Fall 2024 was 580 mg/L. This was a decrease of 40 mg/L from Fall 2023 (620 mg/L).
- Domestic well 25S/38E-14A is in the northwest of the IWV basin, southeast of well 03B. Six TDS samples have been collected from 2019 to 2024. TDS concentrations at 25S/38E-14A ranged from 400 mg/L (2020) to 450 mg/L (2021) and then decreased to 400 mg/L in October 2023. The TDS concentration increased 10 mg/L from October 2023 to October 2024.
- Domestic well 25S/38E-34A01 is also located in the northwest of the IWV near 395 directly south of 03B. This well is screened from 418.5 to 478.5 ft. Seven TDS samples have been collected from this well from 2006 to 2024 with TDS concentrations ranging from 260 mg/L (2006) to 540 mg/L (2023). TDS in 25S/38E-34A01 decreased 10 mg/L from 2023 (540 mg/L) to 2024 (530 mg/L).
- Navy monitoring well 25S/39E-03R01 (Baker Range) is located on the northern range of the Navy base, and is screened from 65 to 165 ft. Five TDS samples have been collected from this well from 2019 to 2023. TDS concentrations range from 660 mg/L (2019) to 570 mg/L (2023). No water quality sample was taken in October 2024.
- Navy monitoring well 25S/39E-12R (Charley Tower) is located near the northern playa on NAWS China Lake. This well is screened from 60 to 140 ft. Twenty-eight TDS samples have been collected from this well from 1953 to 2024. TDS concentrations range from 650 mg/L (July 1978) to 780 mg/L (October 1961). The 2024 TDS concentration of 680 mg/L is a decrease of 30 mg/L from the previous year.
- Domestic well 26S/38E-01M05 is located north of Inyokern. This well is screened from 299 to 359 ft. Water quality samples have been collected from this well during the last three annual sampling events and the TDS has ranged from 520 mg/L (November 2020) to 570 mg/L (October 2021). The 2024 TDS concentration at 26S/38E-01M05 was measured at 550 mg/L which is a decrease in concentration of 20 mg/L from the previous year.
- Monitoring well 27S/38E-13A02 (AB303-01) is in the southwest area of the IWV just south of Bowman Road and east of Red Rock Canyon Road. This well is screened from 232 to 272, 372 to 472, and 632 to 690. Four TDS samples have been collected from this well from 2007 to 2023. TDS concentrations range from 300 mg/L (August 2007) to 340 mg/L (October 2021). The 2023 TDS sample was collected from the mid-level screen with a concentration of 290 mg/L. No water quality sample was taken in October 2024.

- Navy monitoring well 27S/40E-01K02 (George Air Corridor) is east of Ridgecrest on Navy property. This well is screened from 320 to 380 ft. Six TDS samples have been collected from this well from 1953 to 2023. TDS concentrations range from 1,000 mg/L (October 2022) to 1,510 mg/L (June 1972). The 2024 TDS concentration was measured at 1,000 mg/L which is a decrease in concentration of 100 mg/L from the previous year.

El Paso Subarea Monitoring Wells

- Monitoring well 27S/38E-09C01 (AB303-04) is in the El Paso subarea of the IWV near Highway 14. This well is screened from 501 to 581 ft. Five TDS samples have been collected from this well from 2007 to 2023. TDS concentrations range from 290 mg/L (November 2020) to 460 mg/L (August 2007). The current TDS concentration was measured at 300 mg/L showing an increase in concentration of 10 mg/L from 2022 to 2023. No water quality sample was taken in October 2024.
- Monitoring well 27S/38E-21L01 (AB303-05) is in the El Paso subarea and is screened from 905 to 1,005 feet. Six TDS samples have been collected from this well from 2007 to 2023. TDS concentrations range from 160 mg/L (November 2020) to 510 mg/L (August 2007). The 2024 TDS concentration was measured at 160 mg/L which is a decrease in concentration of 10 mg/L from 2023 to 2024.

7.1.2 Arsenic Results

Arsenic is the other defined contaminant of concern in IWV. Figure 7-3 shows the areal distribution of arsenic in groundwater concentrations from October 2024. The lowest observed arsenic concentrations collected during October 2024 was 1.3µg/L observed in well 01M05 (299-359 feet depth) and 1.5 µg/L in the Sandquist Spa Well (157-160 feet depth). The highest observed arsenic concentration was at Navy monitoring well George Air Corridor (247-250 feet depth). These samples will continue to provide a baseline for future arsenic samples collected.

7.2 El Paso Monitoring and Evaluation

In 2021, one triple nested monitoring well (EP-01) was installed in the El Paso Subbasin through an agreement with DWR for Technical Support Services with monitoring instrumentation subsequently installed. Data collected from this monitoring well was used to help fill water level data gaps and define hydrogeologic characteristics in the Basin. In WY 2024, a technical memorandum was prepared documenting the evaluation of the El Paso Subarea as a separate management area. It has been determined that a separate management area is not needed. No additional evaluations in the El Paso Subbasin were conducted in WY 2025.

7.3 Brackish Water Investigation

Brackish water groundwater resources in the IWV have been the subject of ongoing study by the IWVWD and funding partners for several years with the goal of determining feasibility of developing brackish resources as an alternative water supply.

In WY 2023, and WY 2024, a Feasibility Study was developed to identify and quantify brackish groundwater resources and evaluate feasibility of the development of brackish water as an alternate water supply source in the IWV. On August 6, 2025, a summary of the Brackish Water Feasibility Study was published. Brackish water was thought to exist in deeper groundwater at locations in the northwest area of the Basin; however, TDS concentrations at these locations were found to be closer to seawater concentrations and exceeded brackish water concentrations. Accordingly the intended project under evaluation became infeasible.

7.4 Numerical Model

A Configuration Management Plan (CMP) for the IWV GSP Numerical Groundwater Model (model) was developed during 2021 and implementation of the Plan started in early 2022. The CMP describes the processes for development, maintenance, upgrade, and use of the IWV-Model that was initially developed by the Desert Research Institute (DRI) under contract with the Navy; and further developed by DRI under contract with the IWVGA to support implementation of the GSP. As part of the Periodic Evaluation process to evaluate the GSP, the model was updated between 2021-2024 using the CMP process to create the current 2025 Model Update. The 2025 Model Update was completed in WY 2025 and incorporates updated and best available data. Additionally, the 2025 Model Update was used to simulate updated and additional scenarios to assist with planning and management of the Basin.

7.5 Data Management System

The IWVGA maintains a data management system (DMS) to support SGMA implementation. The SGMA regulations require having a DMS to support a GSA. This DMS consists of both a database part to store data and a public website to present data. Examples of stored data include monitoring data, management criteria, and other supporting documentation. Server logs show the public have been accessing and using the DMS. IWVGA has used the DMS website to help inform meetings and improve basin management.

During WY 2025, normal and routine maintenance occurred. Additionally, updates were made to accurately and consistently reflect the GSP, which addressed DWR's RCA.

7.6 Precipitation Station and Stream Gage Data Collection

The IWVGA collects precipitation and stream flow data from precipitation stations and stream gages installed throughout the IWV. Data records are posted to the DMS.

Various data sets will be used to refine the existing IWV groundwater basin monitoring network (GSP § 354.34), validate the hydrogeologic conceptual model (HCM) (GSP § 354.14), update the numerical groundwater model (GSP § 354.16), and for future GSP Periodic Evaluations.

7.7 Groundwater Dependent Ecosystems

The IWVGA has continued to monitor and evaluate potential impacts to GDEs because of declining groundwater levels and a reduction in groundwater in storage. In WY 2025, DRI prepared a summary of past work regarding GDEs in the Basin and provided recommendations for future monitoring (DRI, 2024). The data collection and monitoring previously conducted relied on publicly available GDE spatial data and tools. These data collection efforts highlighted the importance and need to conduct reconnaissance surveys to verify spatial datasets. Based on recommendations from DRI, the IWVGA may consider a new monitoring approach that would incorporate remote sensing analysis and annual vegetation surveys along with potentially high-resolution imagery, soil moisture monitoring, and dust monitoring to monitoring for the health of GDEs in the Basin.

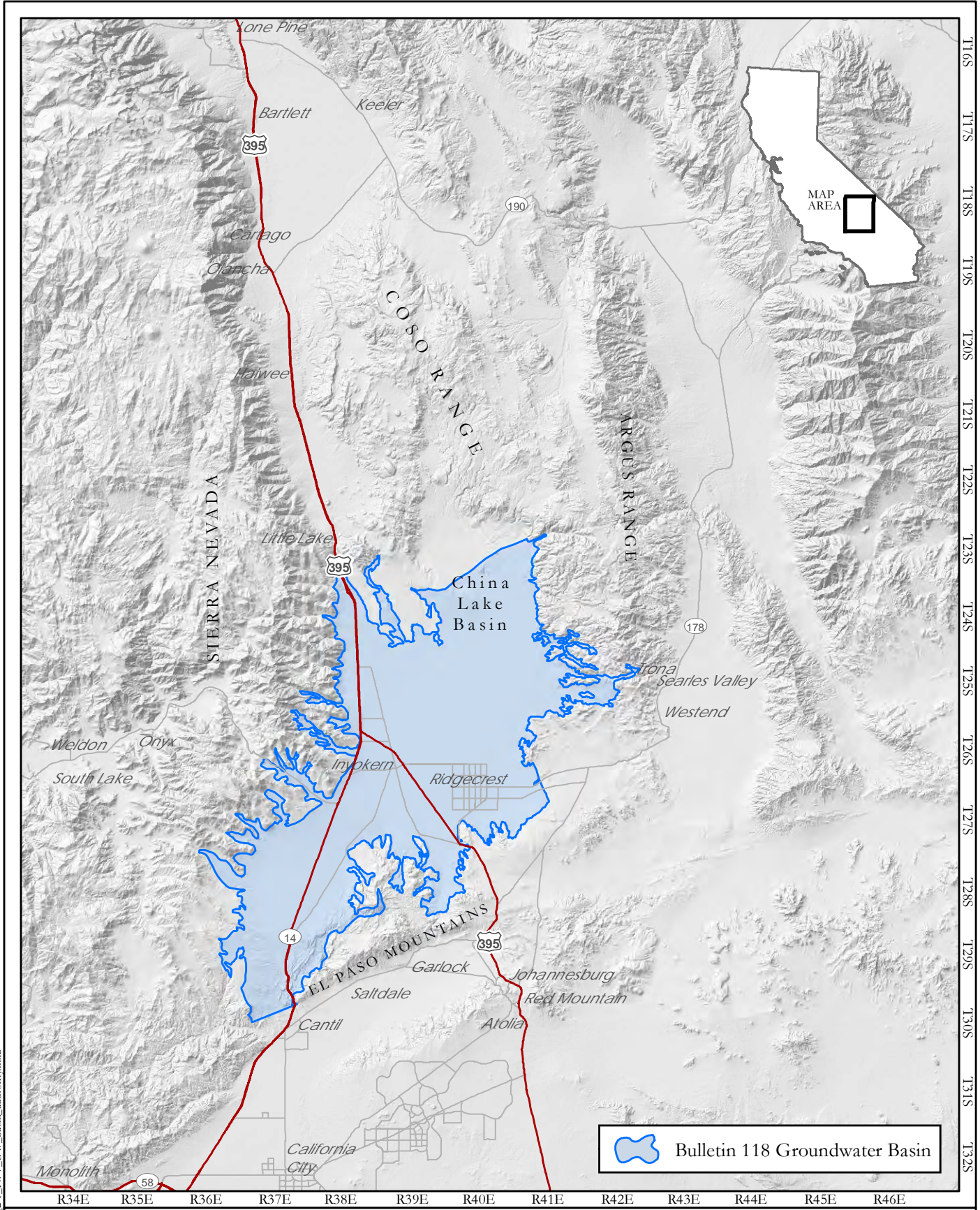
Page Intentionally Left Blank

Chapter 8 References

- Angster, S.J., Sherrod, B., Barnett, E., Bretthauer, J.L., and Anderson, M.L., 2020, 2020 Update to the Quaternary Fault and Fold Database for Washington State: U.S. Geological Survey data release, <https://doi.org/10.5066/P9X2RR2T>.
- California Code of Regulations (CCR). Title 23, Division 2. Chapter 1.5. Sections 351 and 356.2.
- California Geological Survey (CGS). 2010. Fault activity map of California <https://www.conservation.ca.gov/cgs/publications/fam>
- Department of Water Resources (DWR). 2016. Water Budget Best Management Practice. https://water.ca.gov/LegacyFiles/groundwater/sgm/pdfs/BMP_Water_Budget_Final_2016-12-23.pdf December 2016.
- Department of Water Resources (DWR). 2023a. A Guide to Annual Reports, Periodic Evaluations, and Plan Amendments.
- Department of Water Resources (DWR). 2023b. SGMA Data Viewer. Accessed December 5, 2023. <https://sgma.water.ca.gov/webgis/?appid=SGMADataViewer#landsub>
- Dunne, Thomas, and Luna Leopold, 1978. Water in Environmental Planning.
- Dutcher L.C. and W.R. Moyle, 1973. Geologic and Hydrologic Features of Indian Wells Valley, California. USGS Water Supply Paper 2007. Prepared in cooperation with the California Department of Water Resources.
- Kunkel, Fred and G.H. Chase, 1969. *Geology and Ground Water in Indian Wells Valley, California*. USGS Open-File Report 69-329. Prepared in cooperation with the Naval Weapons Center, China Lake, California.
- Langston, Amy and Tiffany Pereira. Monitoring Groundwater Dependent Ecosystems in the Indian Wells Valley Groundwater Basin: Summary of Accomplishments and Recommendations for Future Monitoring. Desert Research Institute. October 2024.
- Ponti, D.J., Blair, J.L., Rosa, C.M., Thomas, K., Pickering, A.J., Dawson, T. E., compilers, 2020, Digital datasets documenting surface fault rupture and ground deformation features produced by the Ridgecrest M6.4 and M7.1 earthquake sequence of July 4 and 5, 2019: U.S. Geological Survey data release, <https://doi.org/10.5066/P9BZ5IJ9>.
- Provost & Pritchard, 2015. Wastewater Treatment Plant Facility Plan. Prepared for the City of Ridgecrest. October 2015.
- Stetson Engineers Inc, 2020a. *Indian Wells Valley Groundwater Authority; Groundwater Sustainability Plan for the Indian Wells Valley Groundwater Basin*, Bulletin 118 Basin No. 6-054.
- Stetson Engineers Inc., 2020b. Indian Wells Valley Groundwater Basin GSP Annual Report Water Year 2019, May 2020.
- Stetson Engineers Inc., 2021. Indian Wells Valley Groundwater Basin GSP Annual Report Water Year 2020, April 2021.

- Stetson Engineers Inc., 2022. Indian Wells Valley Groundwater Basin GSP Annual Report Water Year 2021, March 2022.
- Stetson Engineers Inc., 2023. Indian Wells Valley Groundwater Basin GSP Annual Report Water Year 2022, March 2023.
- Stetson Engineers Inc., 2024. Indian Wells Valley Groundwater Basin GSP Annual Report Water Year 2023, March 2024.
- Stetson Engineers Inc., 2025. Indian Wells Valley Groundwater Basin GSP Annual Report Water Year 2024, March 2025.
- Stetson Engineers Inc., 2025a. 2025 Periodic Evaluation Indian Wells Valley Groundwater Basin Groundwater Sustainability Plan, March 2025.
- Thiessen, A.H., 1911. Precipitation for large areas, Monthly Weather Review, 39, 1082–1084.
- Tre Altamira Inc, 2025. InSAR Land Surveying and Mapping Services to DWR Supporting SGMA – October 2025 Update. December 2025.
- United States Geological Survey (USGS). 2021. Areas of Land Subsidence in California. Accessed December 15, 2021. http://ca.water.usgs.gov/land_subsidence/california-subsidence-areas.html
- USGS. 2020. Quaternary fault and fold database
<https://www.sciencebase.gov/catalog/item/589097b1e4b072a7ac0cae23>
- USGS. 2019. Surface fault rupture mapping
<https://www.sciencebase.gov/catalog/item/5d699da6e4b0c4f70cf2f936>
- Western Regional Climate Center (WRCC). 2018. 1971 – 2000 Climate Normals for Stations 041733 (China Lake NAF), 044278 (Inyokern), 049035 (Trona), 043710 (Haiwee), 047253 (Randsburg), and 044232 (Independence). Accessed at:
https://wrcc.dri.edu/Climate/west_coop_summaries.php, December 5, 2018.
- Western Regional Climate Center (WRCC). 2020. Period of Record Monthly Climate Summary for Cooperative Stations 041733 (China Lake NAF), 044278 (Inyokern), 049035 (Trona), 043710 (Haiwee). Accessed at: https://wrcc.dri.edu/Climate/west_coop_summaries.php, April 6, 2020.

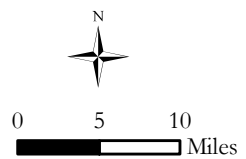
The page intentionally blank

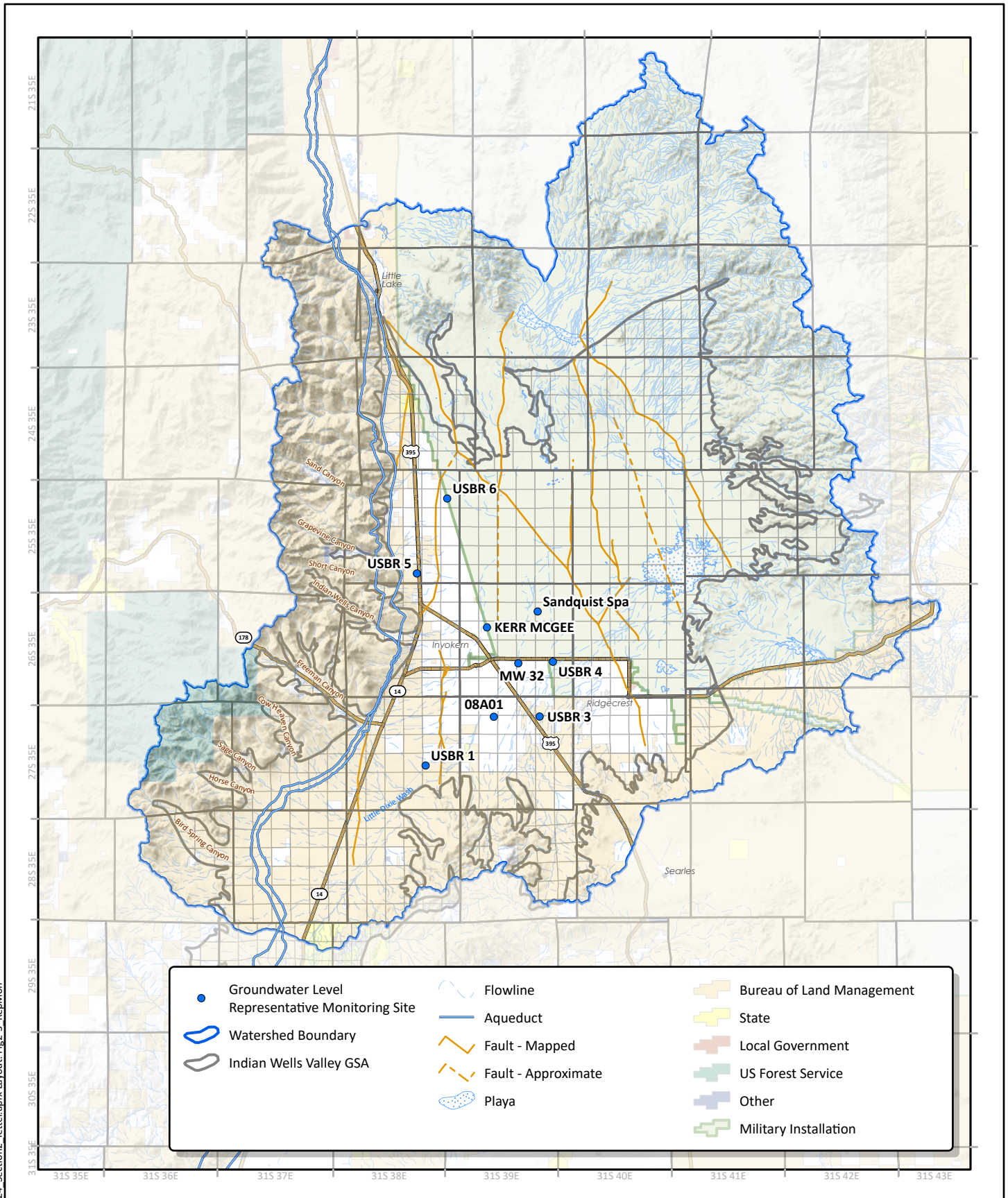


Document Path: F:\jpn2652\Fig2-1_IWV_GW_basin_authority.mxd



INDIAN WELLS VALLEY GROUNDWATER BASIN AND
INDIAN WELLS VALLEY
GROUNDWATER AUTHORITY BOUNDARIES
 (DWR BULLETIN 118 BASIN NO. 6-054)





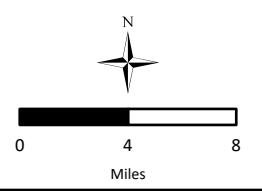
	Groundwater Level Representative Monitoring Site		Flowline		Bureau of Land Management
	Watershed Boundary		Aqueduct		State
	Indian Wells Valley GSA		Fault - Mapped		Local Government
			Fault - Approximate		US Forest Service
			Playa		Other
					Military Installation

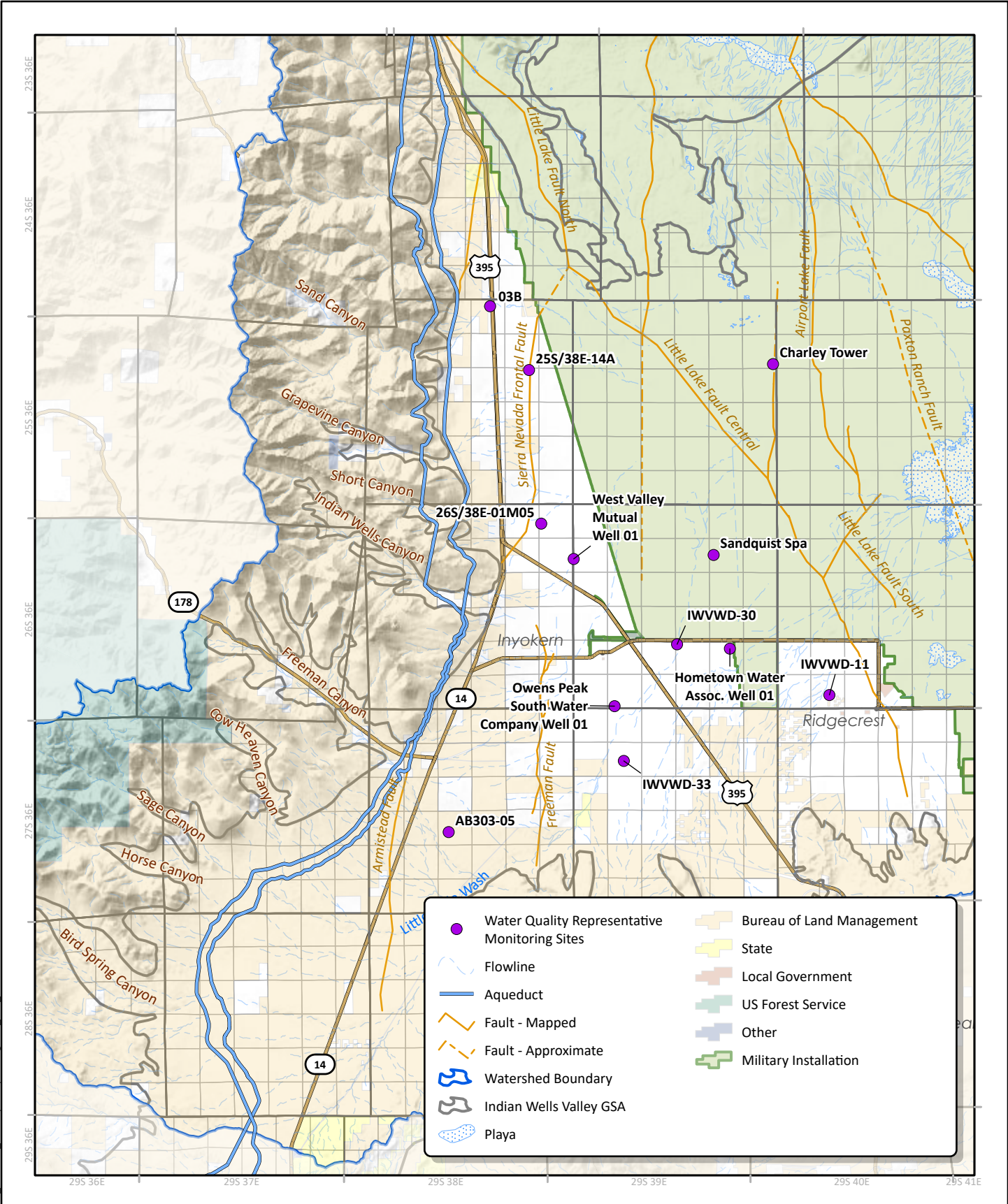
Path: J:\p2652\PeriodicEval2024_Section2_letter.aprx Layout: Fig2-3_RepMon



**2025 GSP GROUNDWATER LEVELS REPRESENTATIVE MONITORING SITES
INDIAN WELLS VALLEY, CA**

DRAFT
12/4/2024



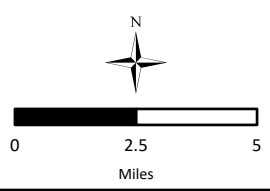


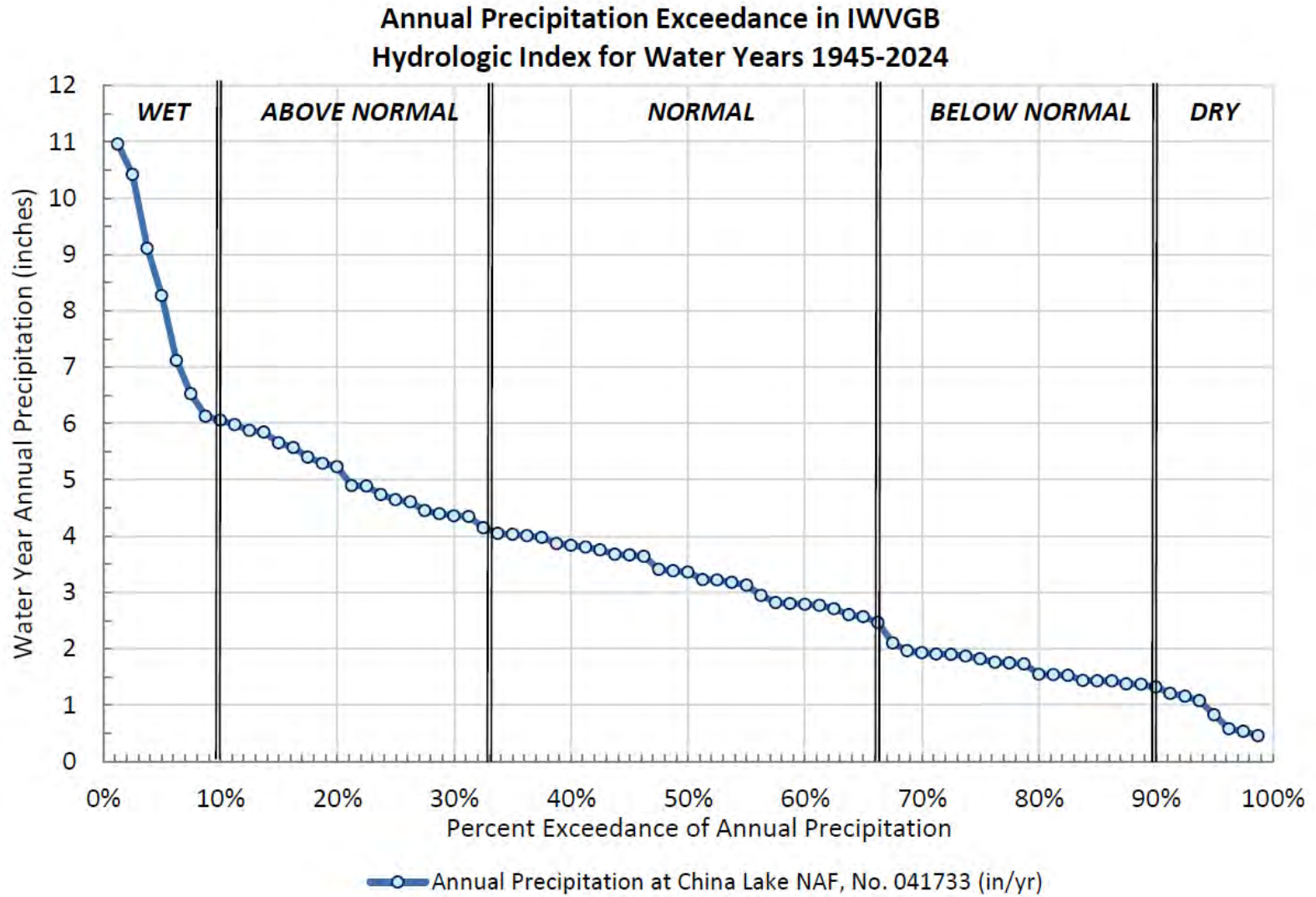
Path: J:\p2652\Periodic\val2024_Section2_letter.aprx Layout: Fig2-15_WQ_Mon



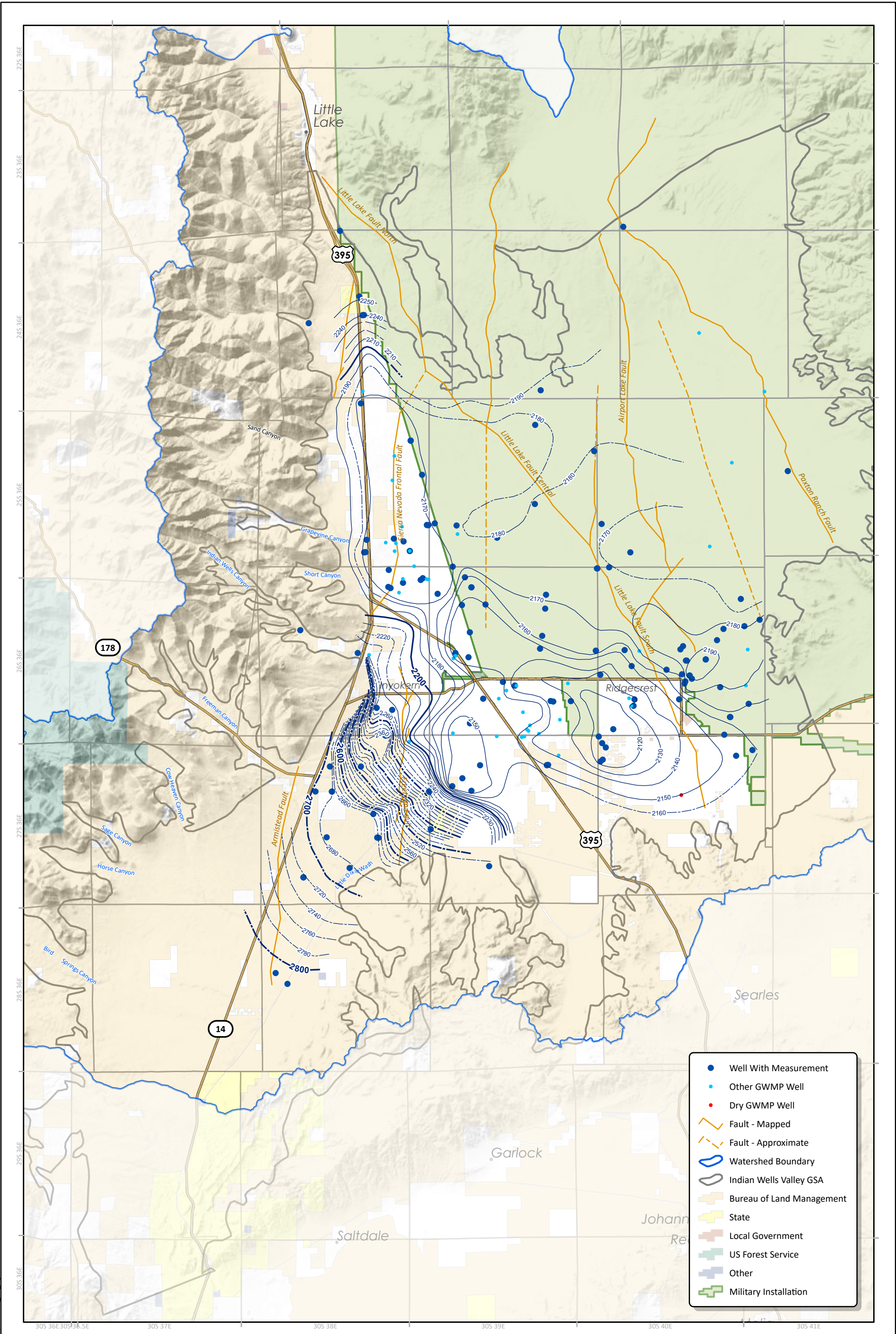
**2025 GSP WATER QUALITY REPRESENTATIVE MONITORING SITES
INDIAN WELLS VALLEY, CA**

DRAFT
12/4/2024





**ANNUAL PRECIPITATION EXCEEDANCE
IN IWVGB HYDROLOGIC INDEX WATER YEARS 1945-2024**



- Well With Measurement
- Other GWMP Well
- Dry GWMP Well
- Fault - Mapped
- - - Fault - Approximate
- Watershed Boundary
- Indian Wells Valley GSA
- Bureau of Land Management
- State
- Local Government
- US Forest Service
- Other
- Military Installation

**ESTIMATED FALL 2024
GROUNDWATER ELEVATION CONTOURS
INDIAN WELLS VALLEY, CALIFORNIA**

Fall 2024 contours from KCWA, 2025, M. Anderson.
Note: Dashed contours are estimated

DRAFT
11/21/2025

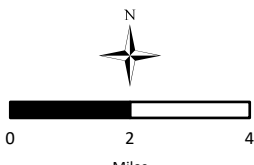
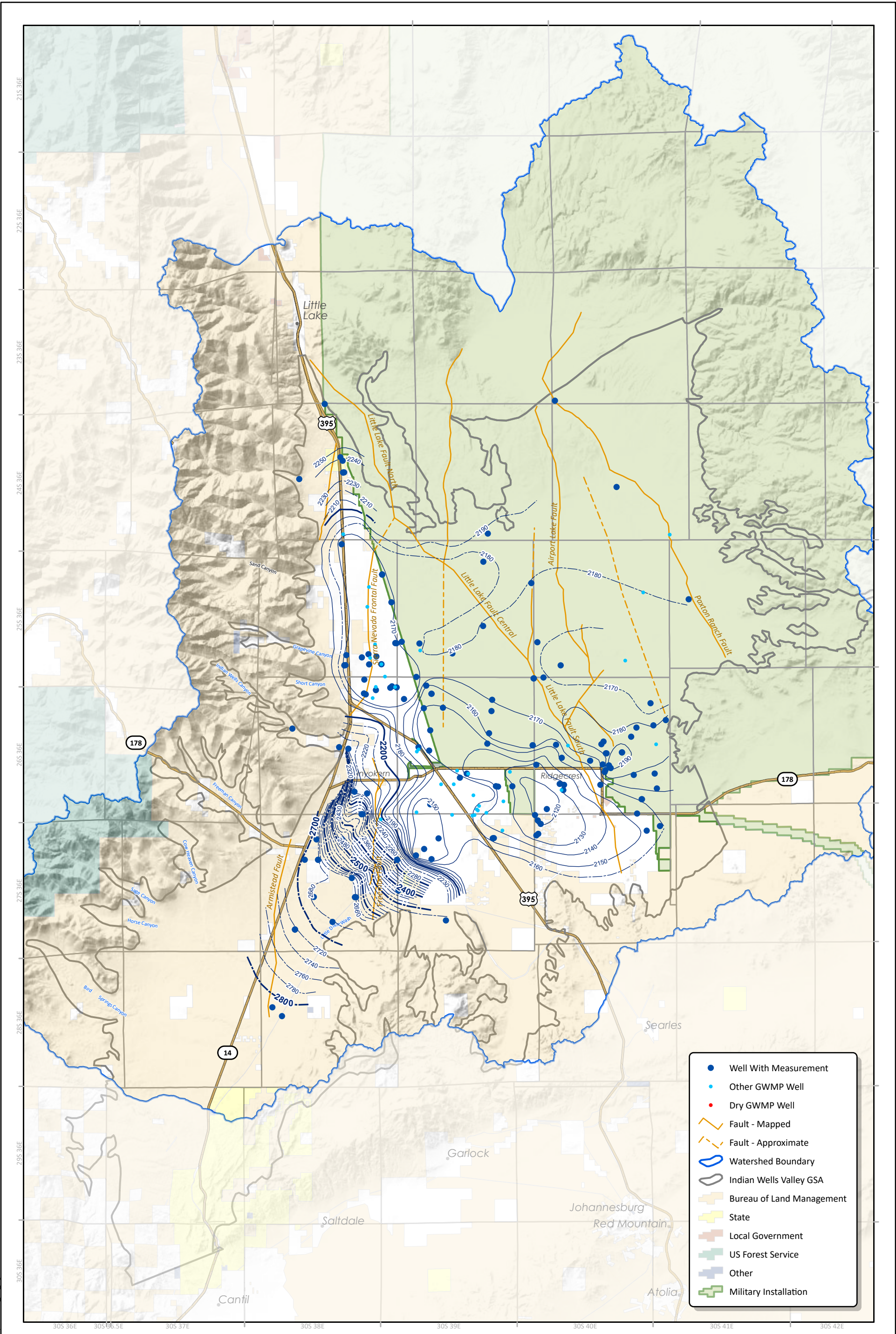


FIGURE 5-1



- Well With Measurement
- Other GWMP Well
- Dry GWMP Well
- Fault - Mapped
- - - Fault - Approximate
- Watershed Boundary
- Indian Wells Valley GSA
- Bureau of Land Management
- State
- Local Government
- US Forest Service
- Other
- Military Installation

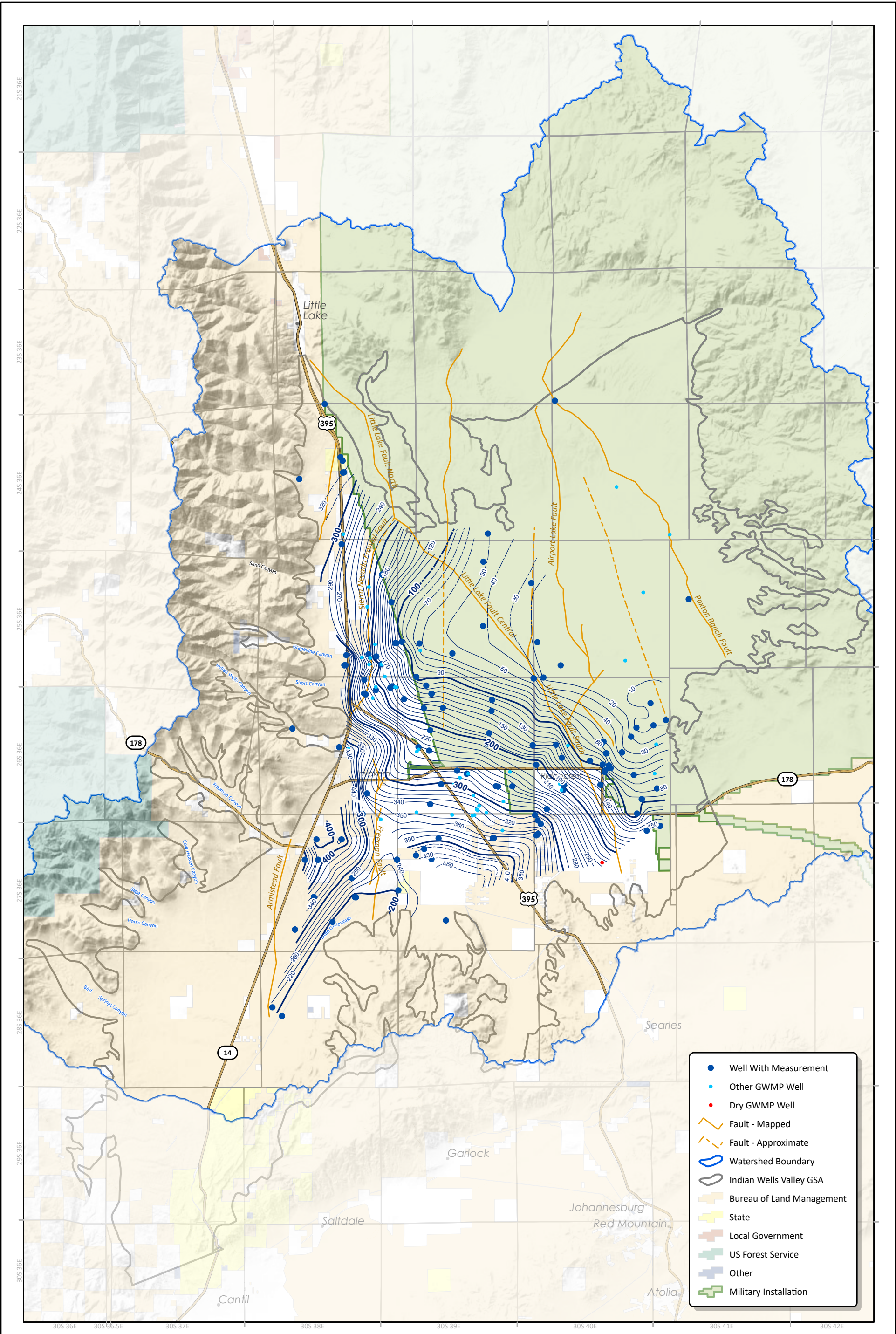
**ESTIMATED SPRING 2025
GROUNDWATER ELEVATION CONTOURS
INDIAN WELLS VALLEY, CALIFORNIA**

Spring 2025 contours from KCWA, 2025, M. Anderson.
Note: Dashed contours are estimated

DRAFT
11/21/2025



FIGURE 5-2



●	Well With Measurement
●	Other GWMP Well
●	Dry GWMP Well
—	Fault - Mapped
- - -	Fault - Approximate
○	Watershed Boundary
○	Indian Wells Valley GSA
■	Bureau of Land Management
■	State
■	Local Government
■	US Forest Service
■	Other
■	Military Installation



Fall 2024 contours from KCWA, 2025, M. Anderson.
 Note: Dashed contours are estimated

**ESTIMATED FALL 2024
 GROUNDWATER DEPTH CONTOURS
 INDIAN WELLS VALLEY, CALIFORNIA**

**DRAFT
 11/21/2025**

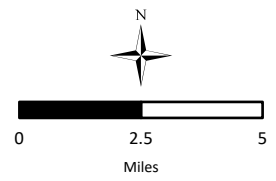
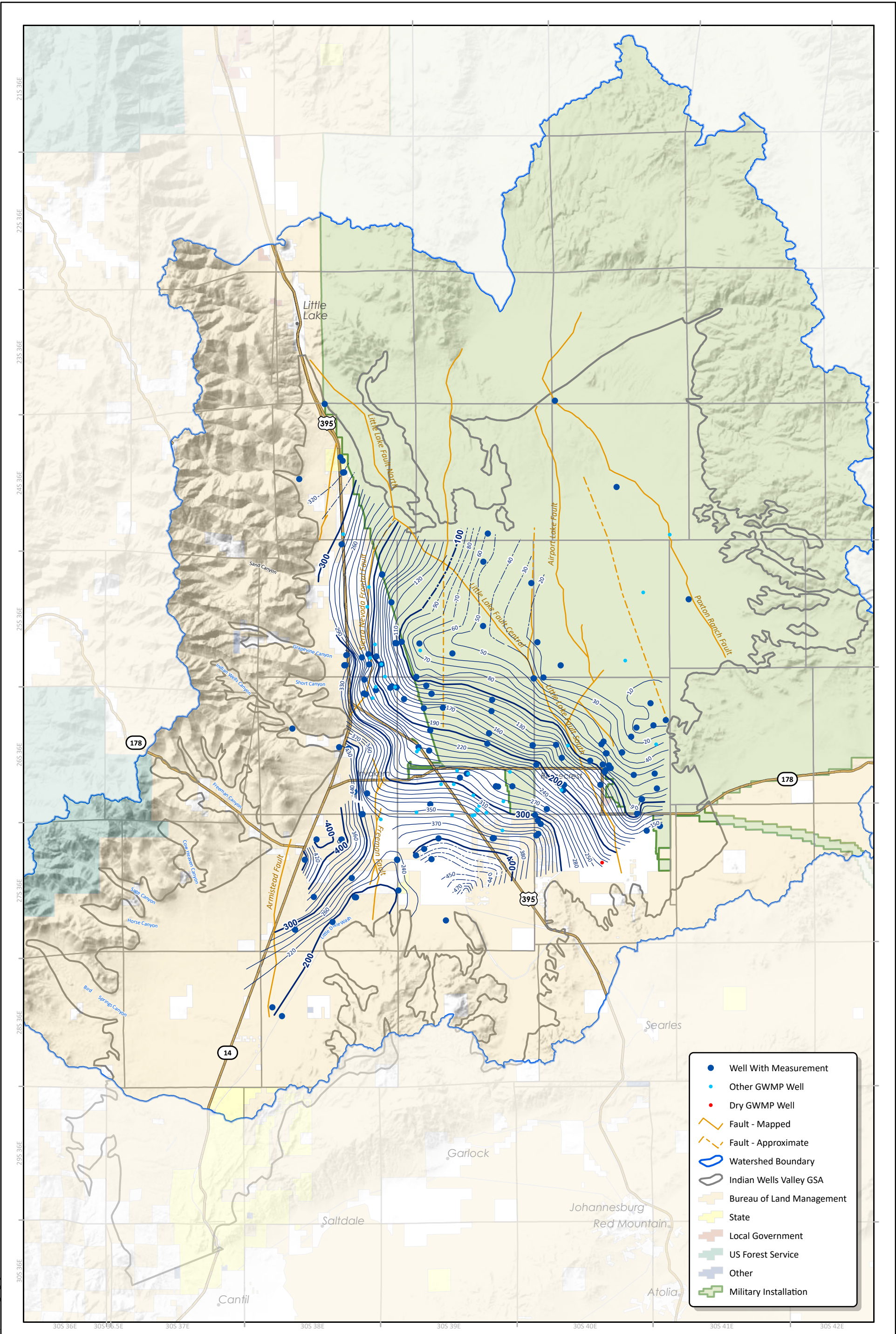


FIGURE 5-3



- Well With Measurement
- Other GWMP Well
- Dry GWMP Well
- Fault - Mapped
- - - Fault - Approximate
- Watershed Boundary
- Indian Wells Valley GSA
- Bureau of Land Management
- State
- Local Government
- US Forest Service
- Other
- Military Installation

**ESTIMATED SPRING 2025
GROUNDWATER DEPTH CONTOURS
INDIAN WELLS VALLEY, CALIFORNIA**

Spring 2025 contours from KCWA, 2025, M. Anderson.
Note: Dashed contours are estimated

DRAFT
11/21/2025

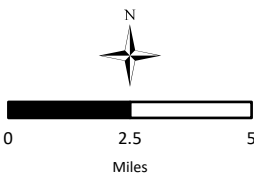
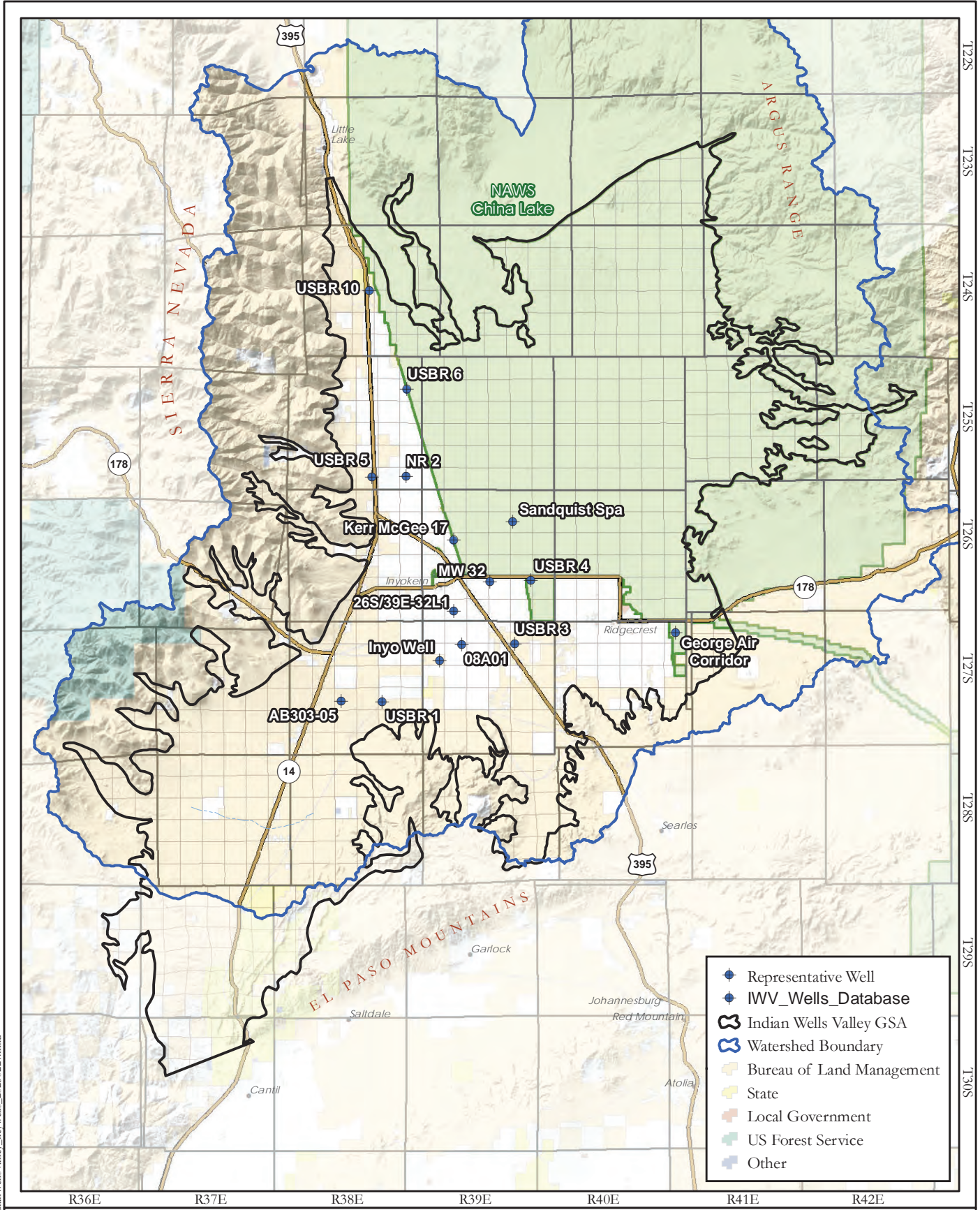


FIGURE 5-4



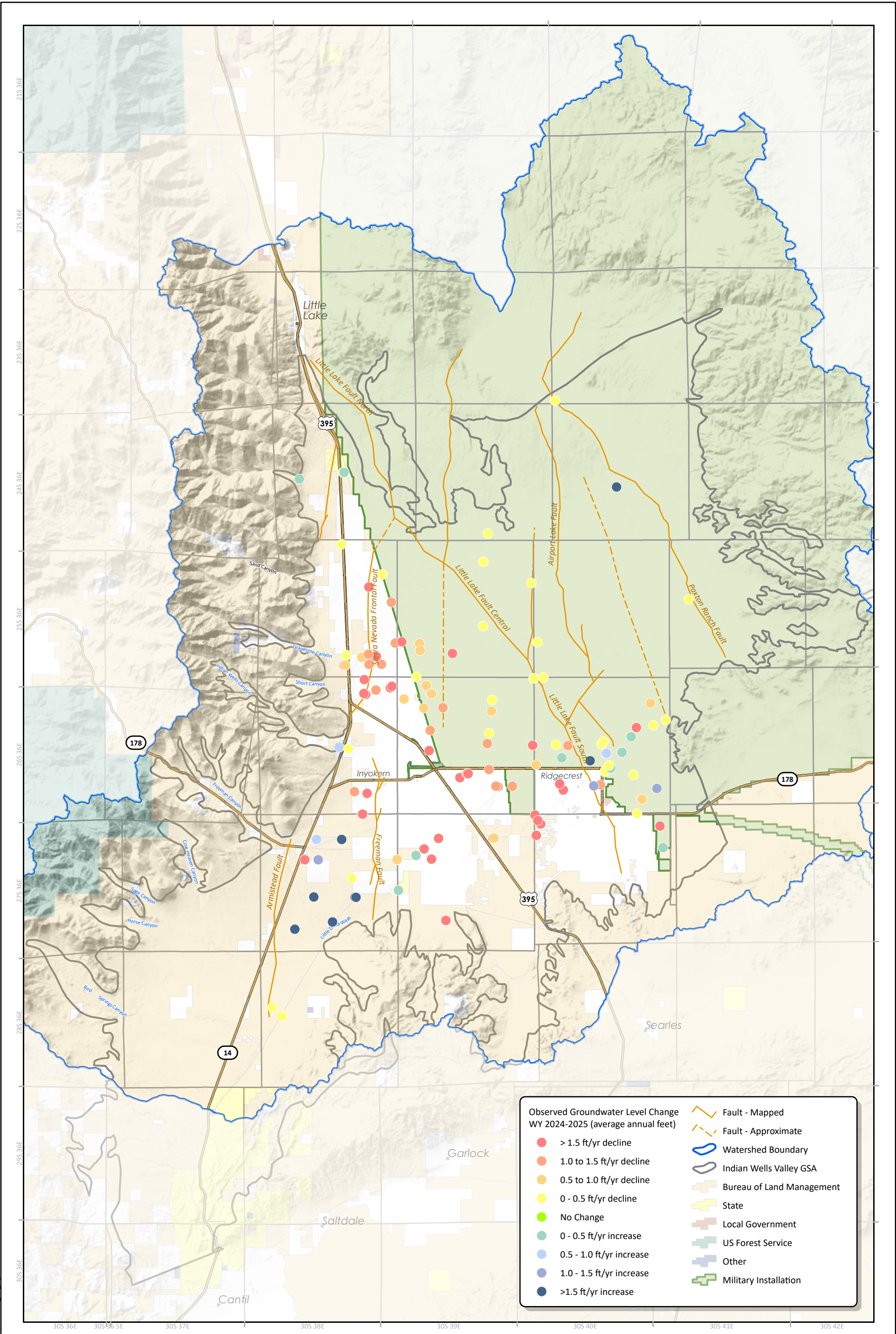
Document Path: F:\jpn2652\IndianWellsValley_keywells_20251024.mxd



**MONITORING WELLS
WITH HYDROGRAPHS IN ATTACHMENT F
INDIAN WELLS VALLEY**



0 3 6
Miles



Observed Groundwater Level Change WY 2024-2025 (average annual feet)	— Fault - Mapped
● > 1.5 ft/yr decline	- - - Fault - Approximate
● 1.0 to 1.5 ft/yr decline	— Watershed Boundary
● 0.5 to 1.0 ft/yr decline	— Indian Wells Valley GSA
● 0 - 0.5 ft/yr decline	— Bureau of Land Management
● No Change	— State
● 0 - 0.5 ft/yr increase	— Local Government
● 0.5 - 1.0 ft/yr increase	— US Forest Service
● 1.0 - 1.5 ft/yr increase	— Other
● >1.5 ft/yr increase	— Military Installation



**AVERAGE ANNUAL GROUNDWATER LEVEL CHANGE
SPRING 2024 TO SPRING 2025
INDIAN WELLS VALLEY, CALIFORNIA**

Note: All multi-level piezometers on this map use data from the shallowest piezometer available for measurement.

DRAFT
11/21/2025

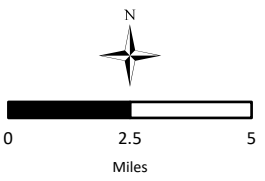
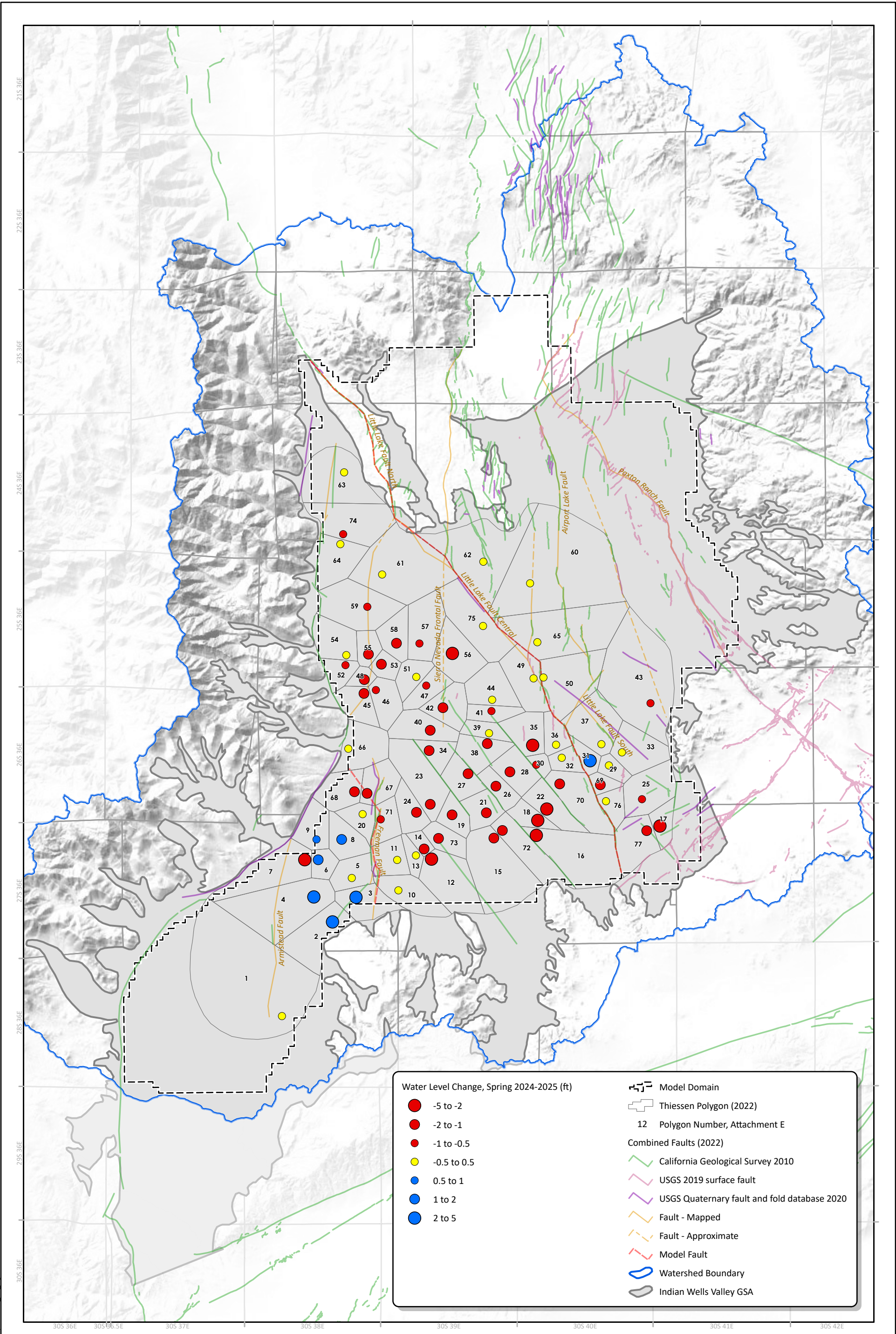


FIGURE 5-6



**USING THIESSEN POLYGON METHOD
TO ESTIMATE CHANGES TO GROUNDWATER IN STORAGE FOR WY 2025
INDIAN WELLS VALLEY, CALIFORNIA**

DBID: Database ID used in Data Management System (DMS) website iwvgsp.com

DRAFT
11/21/2025

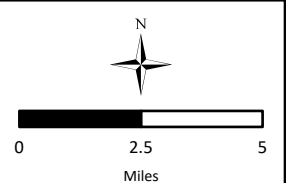
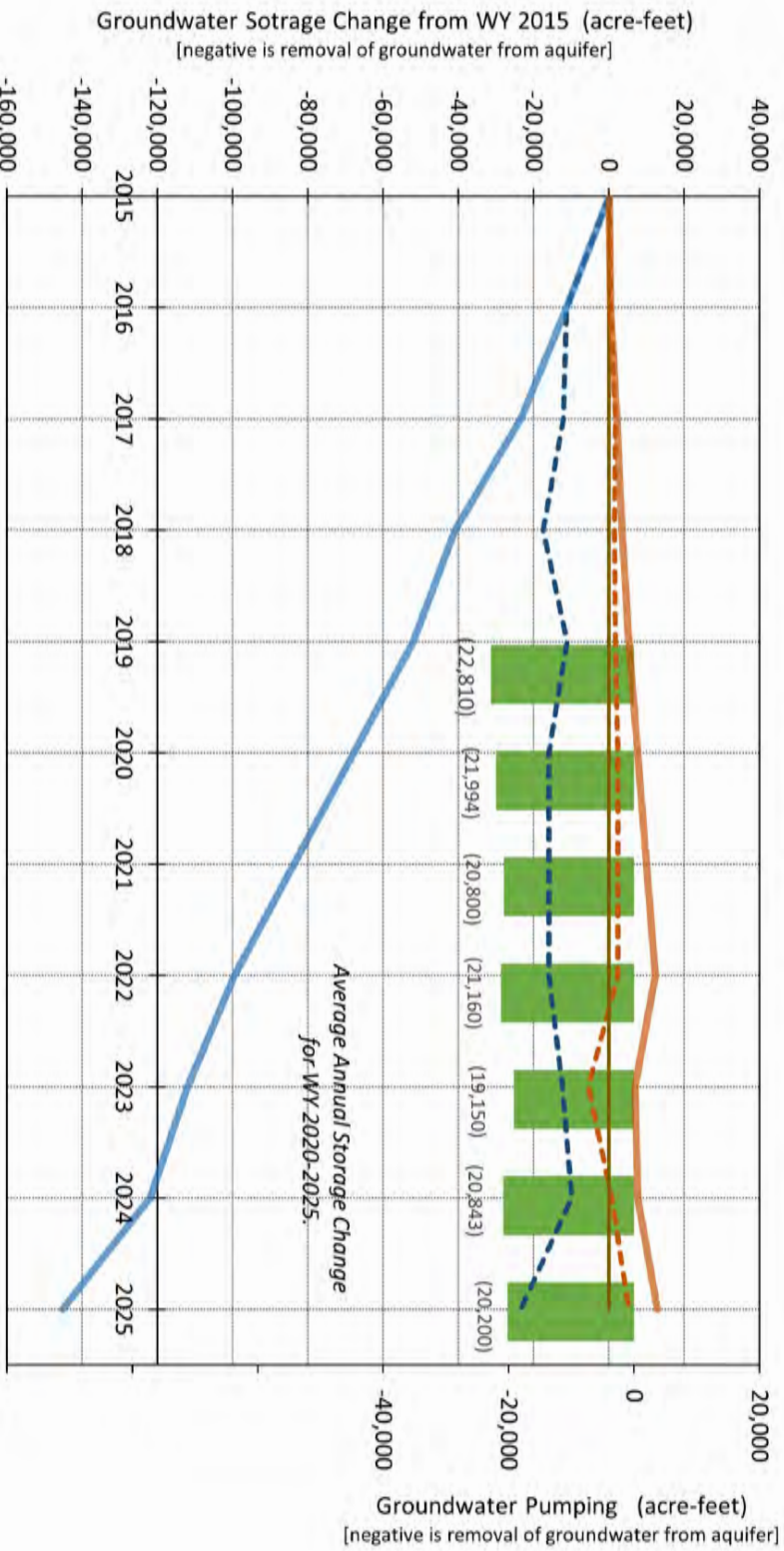


FIGURE 5-7

ESTIMATED GROUNDWATER STORAGE CHANGE FROM WY 2015 TO WY 2024
WITH RECENT GROUNDWATER PUMPING



Water Year (WY):

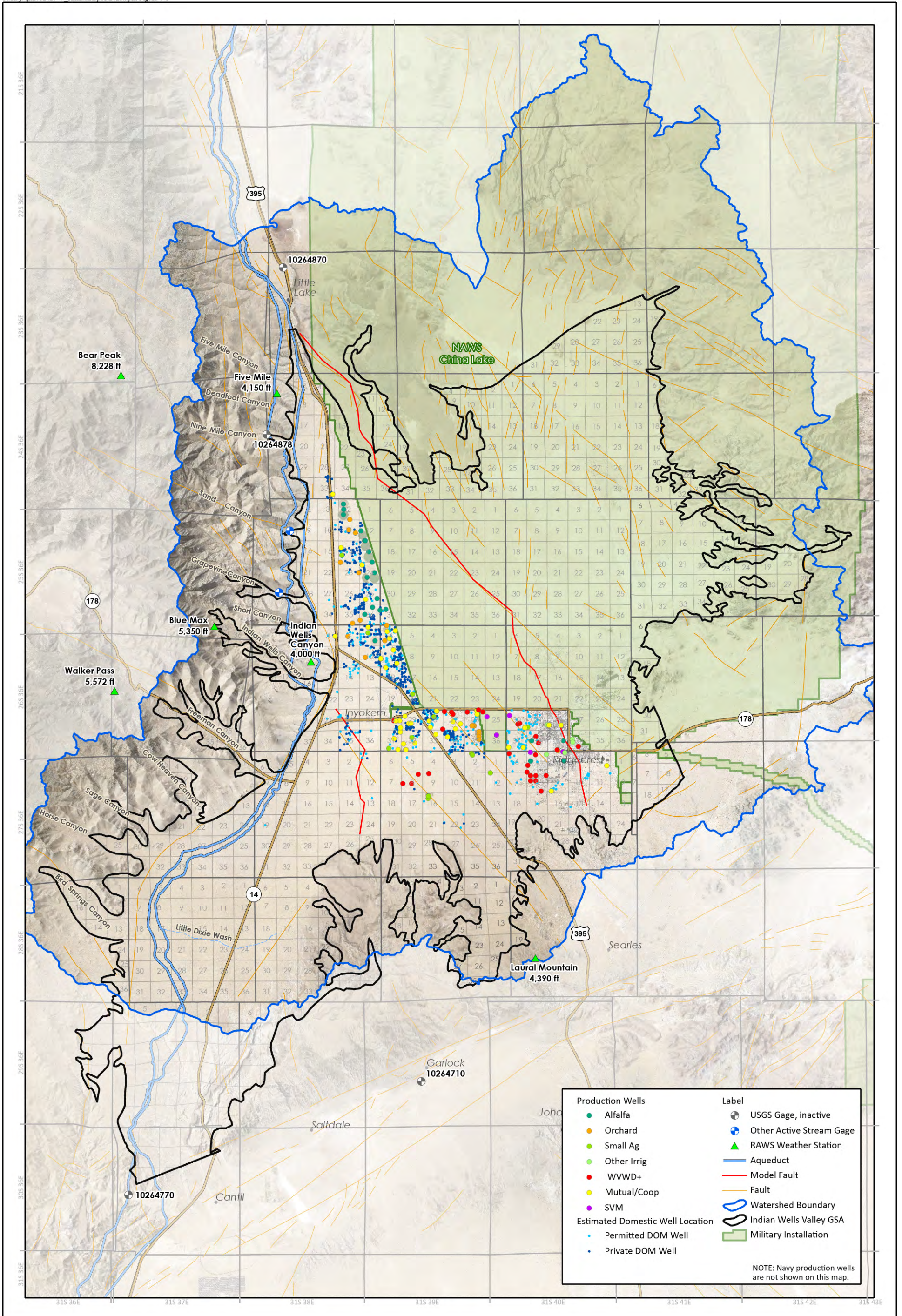
WY TYPE: Normal Below Normal Above Normal Below Normal Wet Above Normal DRY Below Normal Wet Above Normal

- Total Estimated Pumping
- zero change from WY 2015
- IWV Main Basin
- IWV Main Basin Cumulative
- El Paso Subarea
- El Paso Subarea Cumulative

Note: Groundwater storage change is estimated based on the Thiessen polygon method for measured area of basin (see IWV Annual Report)



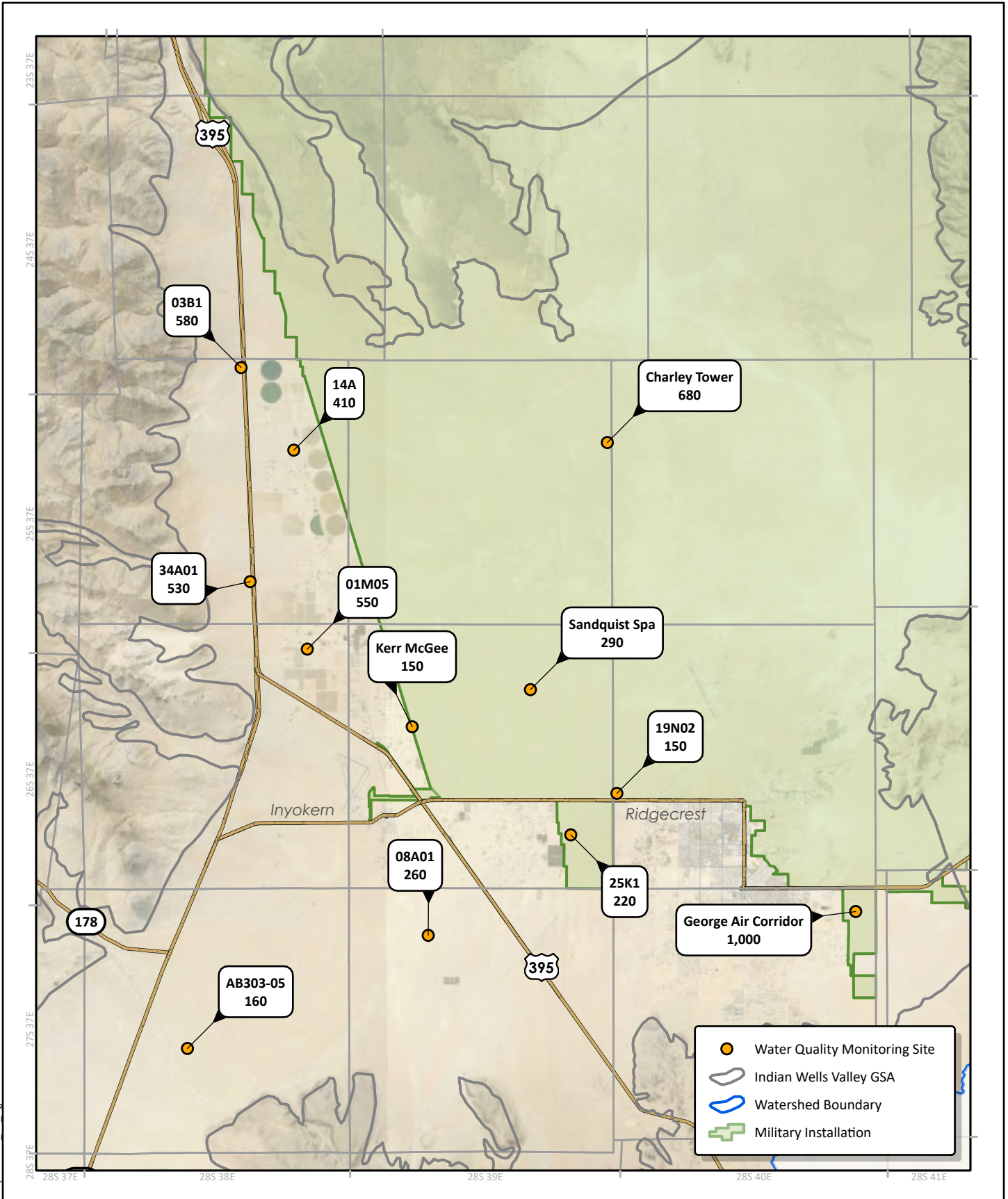
ESTIMATED GROUNDWATER STORAGE CHANGE
WY 2016-2025 WITH RECENT GROUNDWATER PUMPING



PUMPING WELL LOCATION MAP
INDIAN WELLS VALLEY, CA

0 2 4 Miles





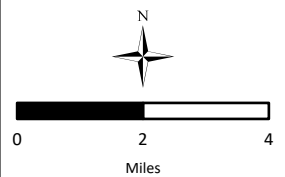
I:\p\2652\WY2025\AnnualReport\Aprx.WY25 AR Fig7-1

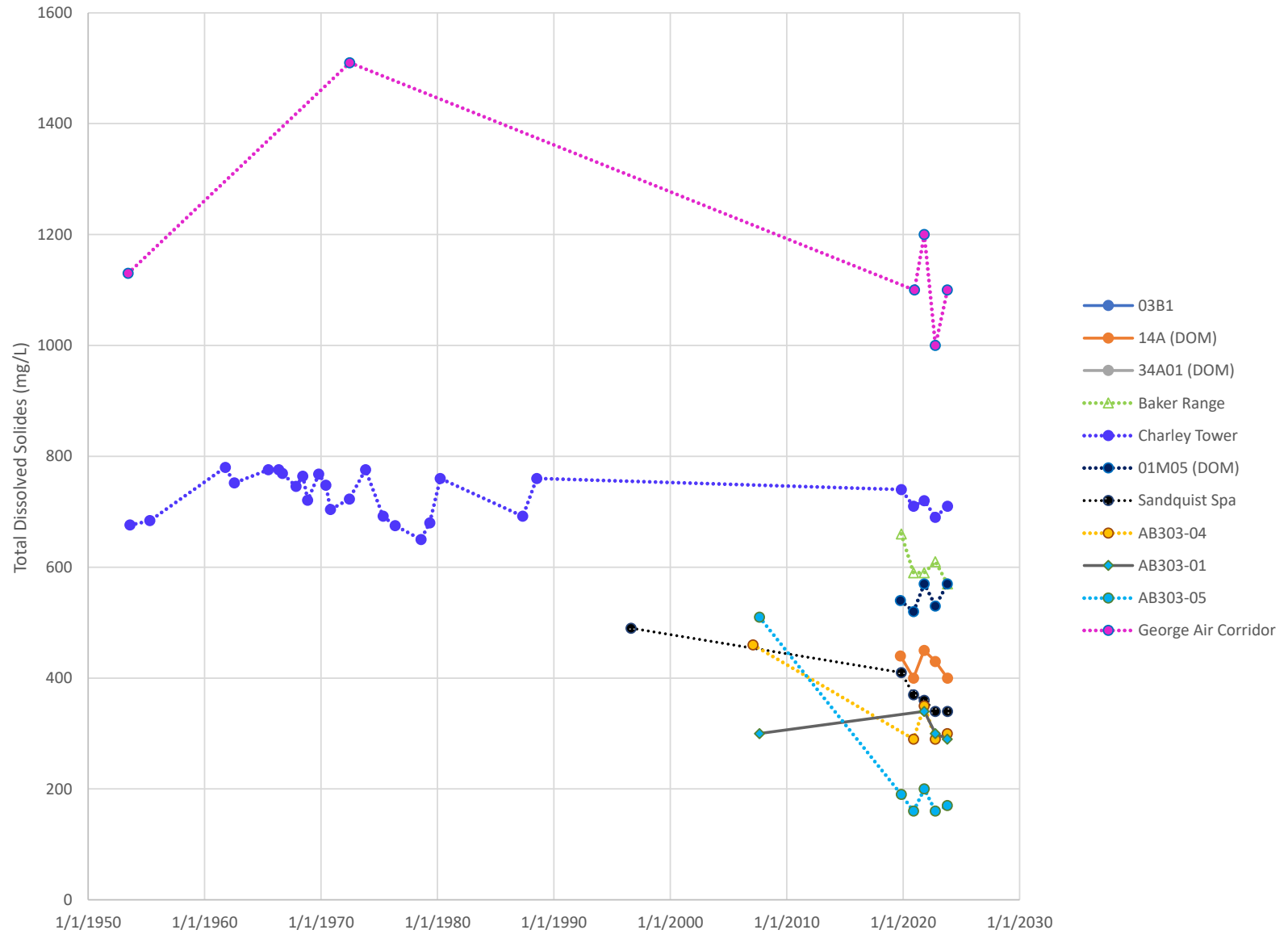


GROUNDWATER QUALITY – TDS OCTOBER 2024
INDIAN WELLS VALLEY, CALIFORNIA

Total Dissolved Solids (TDS) concentrations are in (mg/L)

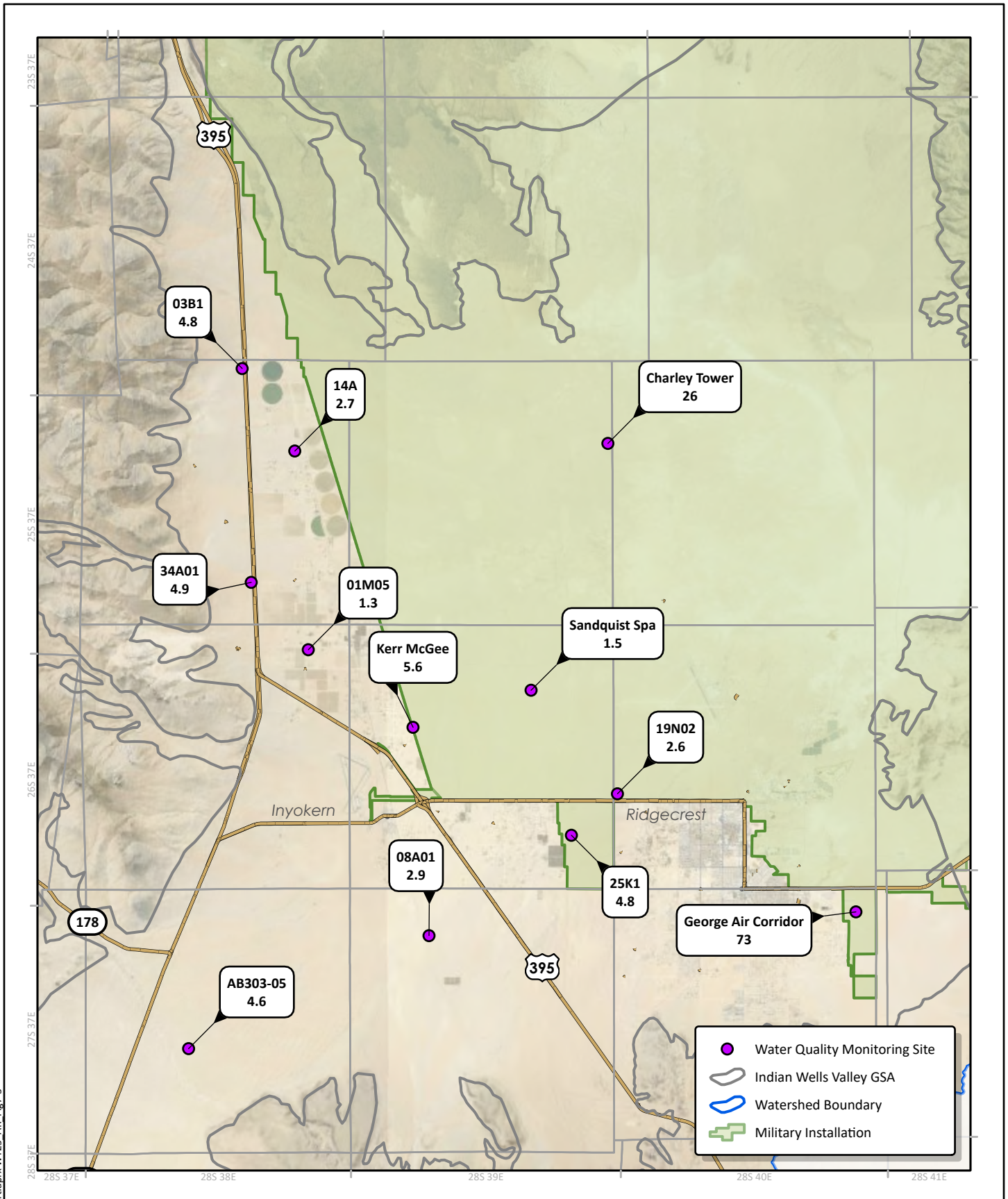
DRAFT
 11/21/2025





HISTORICAL TDS CONCENTRATIONS
INDIAN WELLS VALLEY, CA





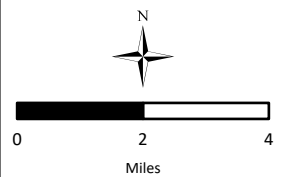
I:\p\2652\WY2025\AnnualReport\Aprx.WY25_AR_Fig7-3



GROUNDWATER QUALITY – ARSENIC OCTOBER 2024
INDIAN WELLS VALLEY, CALIFORNIA

Arsenic concentrations are in (ug/L)

DRAFT
 11/21/2025



The page intentionally blank

ATTACHMENTS

Attachment A

DWR Annual Report Submittal Tables

Attachment B
Historical Water Year Types Based on
Precipitation at China Lake NAF
(No. 041733)

Annual Precipitation at China Lake NAF, No. 041733			Annual Precipitation at China Lake NAF, No. 041733		
WY	(in/yr)	Water Year Type	WY	(in/yr)	Water Year Type
1945	4.90	AN	1985	2.79	N
1946	2.77	N	1986	4.15	AN
1947	3.81	N	1987	2.82	N
1948	1.97	BN	1988	5.40	AN
1949	1.21	D	1989	1.37	BN
1950	1.90	BN	1990	1.43	BN
1951	0.25	D	1991	3.84	N
1952	4.89	AN	1992	9.11	W
1953	1.75	BN	1993	7.12	W
1954	2.80	N	1994	1.08	D
1955	1.93	BN	1995	5.23	AN
1956	1.73	BN	1996	1.91	BN
1957	2.10	N	1997	2.71	N
1958	4.45	AN	1998	6.06	W
1959	2.47	N	1999	1.53	BN
1960	3.13	N	2000	1.76	BN
1961	1.82	BN	2001	4.36	AN
1962	3.87	N	2002	0.54	D
1963	4.03	N	2003	4.35	AN
1964	1.54	BN	2004	3.22	N
1965	4.74	AN	2005	5.88	AN
1966	5.85	AN	2006	2.61	N
1967	2.57	N	2007	0.46	D
1968	4.65	AN	2008	3.18	N
1969	5.29	AN	2009	1.16	D
1970	3.68	N	2010	3.36	N
1971	2.95	N	2011	3.98	N
1972	1.55	BN	2012	1.32	BN
1973	3.76	N	2013	0.83	D
1974	5.98	AN	2014	1.44	BN
1975	3.39	N	2015	3.67	N
1976	3.64	N	2016	1.38	BN
1977	4.01	N	2017	4.61	AN
1978	10.96	W	2018	1.43	BN
1979	6.53	W	2019	6.13	W
1980	5.66	AN	2020	5.57	AN
1981	3.23	N	2021	0.58	D
1982	4.40	AN	2022	1.87	BN
1983	10.42	W	2023	8.27	W
1984	4.05	N	2024	3.41	N
			2025	2.48	N

Attachment C

Groundwater Monitoring Program Updates

Groundwater Level Monitoring Network

170

DBID	State ID	Alternate Well Name	Latitude (NAD83)	Longitude (NAD83)	Meas. By	GS Elev.	RP Elev.	DTW (from RP)	GW Elev. (ft, amsl)
1	28S/38E-18R	Black Hills Well	35.49364	-117.92094	IWVGA	3017.00	3013.70	193.57	2820.13
2	28S/38E-18F01	Abandoned Well	35.49928	-117.92844	IWVGA	3026.77	3029.65	214.36	2815.29
5	27S/38E-27M01	USNS-03	35.55387	-117.88132	IWVGA	2872.90	2875.88	190.25	2685.63
6	27S/39E-28L01	Rock Quarry	35.55472	-117.79253	KCWA	2820.00	2820.00	288.50	2531.50
7	27S/38E-23F01	USBR 1-S	35.56959	-117.86289	KCWA	2850.50	2853.76	183.70	2670.06
8	27S/38E-23F02	USBR 1-SM	35.56968	-117.86369	KCWA	2850.50	2853.88	181.80	2672.08
10	27S/38E-23F04	USBR 1-D	35.56968	-117.86369	KCWA	2850.50	2853.71	183.70	2670.01
11	27S/38E-21L01	AB303-05	35.56985	-117.89592	IWVGA	3024.16	3025.87	357.03	2668.84
12	27S/39E-19E01	IWV MW #3	35.57400	-117.82969	IWVGA	2639.49	2642.49	207.30	2435.19
13	27S/38E-15R01	AB303-06	35.58195	-117.86617	IWVGA	2931.99	2935.59	276.92	2658.67
16	27S/38E-13A01	Sea Bee Well	35.59345	-117.83060	KCWA	2653.99	2656.44	226.90	2429.54
17	27S/38E-09Q02	AB303-02	35.59362	-117.89262	KCWA	3105.00	3108.60	433.50	2675.10
18	27S/38E-09P01	Father Crowley	35.59363	-117.89246	IWVGA	3112.10	3113.44	422.12	2691.32
19	27S/38E-08R01	395 at Fr Crowley	35.59367	-117.90300	IWVGA	3200.93	3203.28	0.00	
20	27S/38E-13A02	AB303-01	35.59369	-117.83070	IWVGA	2650.00	2652.50	225.74	2426.76
21	27S/39E-08P02	IWV MW # 2	35.59393	-117.80371	KCWA	2580.96	2583.96	448.10	2135.86
22	27S/39E-07R01	Inyo	35.59634	-117.81589	KCWA	2564.10	2566.60	421.50	2145.10
23	27S/39E-08M02	IWV MW #1	35.60045	-117.80947	KCWA	2553.43	2554.43	420.60	2133.83
24	27S/38E-10B02	AB303-03	35.60662	-117.87407	IWVGA	2896.07	2897.09	431.36	2465.73
25	27S/38E-09C01	AB303-04	35.60665	-117.89378	IWVGA	3073.94	3075.64	386.34	2689.30
26	27S/39E-11D01	USBR 3-S	35.60731	-117.75485	KCWA	2510.40	2513.36	370.00	2143.36
27	27S/39E-11D02	USBR 3-M	35.60718	-117.75563	KCWA	2510.40	2513.32	366.90	2146.42
28	27S/39E-11D03	USBR 3-D	35.60718	-117.75563	KCWA	2510.40	2513.11	336.30	2176.81
30	27S/40E-06D01	Dist. Well 12	35.62198	-117.72253	IWVGA	2407.00	2408.85	292.21	2116.64
31	27S/40E-06N02	TIPTON	35.60898	-117.72155	KCWA	2473.73	2473.73	357.60	2116.13
32	27S/40E-06N01	MANOS	35.60996	-117.72005	KCWA	2471.59	2471.59		
36	27S/40E-01K02	George Air Corridor	35.61470	-117.62469	IWVGA	2322.64	2324.14	165.92	2158.22
37	27S/40E-06F01	FRISBEE	35.61629	-117.71810	KCWA	2439.56	2440.56	321.80	2118.76
40	27S/40E-06E01	TURNER	35.61855	-117.72040	KCWA	2432.89	2432.89	316.80	2116.09
44	27S/39E-04C01	Padgett Well	35.62224	-117.78752	KCWA	2500.00	2501.10	356.30	2144.80
46	27S/38E-02C01	USBR 2-S	35.62280	-117.85761	KCWA	2654.95	2657.49	284.50	2372.99
47	27S/38E-02C02	USBR 2-M	35.62274	-117.85841	KCWA	2654.95	2657.33	277.30	2380.03
48	27S/38E-02C03	USBR 2-D	35.62274	-117.85841	KCWA	2654.95	2657.28	285.70	2371.58

50	26S/40E-35Q02	S.E. Line	35.62274	-117.64257	Navy	2252.83	2256.33	98.82	2157.51
51	26S/39E-34R02	WOODWORTH	35.62351	-117.76068	KCWA	2450.71	2451.71	326.70	2125.01
53	26S/40E-31K01	BURNS	35.62580	-117.71330	KCWA	2390.95	2391.95		
56	26S/39E-34K03	FISHER	35.62791	-117.76635	KCWA	2475.62	2476.62		
57	26S/39E-32L01	STEELE	35.62902	-117.80461	KCWA	2492.04	2493.04	348.00	2145.04
58	26S/39E-35G01	QUIST #4	35.63089	-117.74645	KCWA	2421.17	2422.17		
59	26S/39E-31R03	Donna Sue Water Company	35.62389	-117.81543	KCWA	2500.00	2501.50		
63	26S/40E-35H01	Satellite Lake 1 (west)	35.63191	-117.63896	Navy	2252.35	2253.55	92.79	2160.76
64	26S/40E-35H02	Satellite Lake 2 (east)	35.63191	-117.63869	Navy	2252.03	2254.43	102.34	2152.09
73	26S/40E-29P01	CHUN	35.63791	-117.70032	KCWA	2330.69	2331.69	203.70	2127.99
75	26S/39E-26P01	QUIST #1	35.64024	-117.75147	KCWA	2403.33	2404.33	269.50	2134.83
76	26S/39E-26P02	QUIST #2	35.64052	-117.75313	KCWA	2406.26	2407.26	273.50	2133.76
77	26S/39E-29J02	PATRICIA SORENSON	35.64181	-117.79611	KCWA	2429.00	2429.00	305.50	2123.50
80	26S/39E-28G02	OMSTEAD	35.64601	-117.78135	KCWA	2433.02	2434.02	289.10	2144.92
82	26S/40E-26F01	W-Side Mirror Lake	35.64746	-117.64508	Navy	2232.80	2235.80	62.96	2172.84
84	26S/39E-27D02	MW 32-SM	35.64852	-117.77493	KCWA	2418.53	2421.57	282.80	2138.77
85	26S/39E-27D03	MW 32-DM	35.64857	-117.77591	KCWA	2418.53	2421.57	282.70	2138.87
86	26S/39E-27D04	MW 32-D	35.64857	-117.77591	KCWA	2418.53	2421.18	282.40	2138.78
87	26S/40E-27D02	W-Side PW Compound	35.64941	-117.66785	Navy	2266.75	2267.65	46.55	2221.10
88	26S/39E-26A03	USBR 4	35.64966	-117.74213	KCWA	2377.09	2378.94	259.50	2119.44
90	26S/39E-28B03	DAME (New Well)	35.65050	-117.78352	KCWA	2426.65	2427.65	251.20	2176.45
92	26S/40E-27D01	NW PW Compound	35.65052	-117.66730	Navy	2268.04	2267.04	71.52	2195.52
94	26S/39E-20L	ICSD-MW-01	35.66560	-117.81374	KCWA	2427.99	2429.89	244.50	2185.39
95	26S/40E-22P02	PW Substation 3	35.65191	-117.66313	Navy	2267.22	2270.92	68.90	2202.02
97	26S/40E-22P03	PW Substation 1	35.65357	-117.66452	Navy	2258.88	2259.88	116.39	2143.49
98	26S/40E-22P04	PW Substation 2	35.65357	-117.66452	Navy	2258.75	2259.75	54.20	2205.55
100	26S/40E-19N02		35.65413	-117.72147	Navy	2337.43	2338.43	211.61	2126.82
101	26S/40E-22N01	In Propane Yard	35.65423	-117.66940	Navy	2264.36	2264.36	93.81	2170.55
103	26S/40E-21K03		35.65663	-117.67924	Navy	2266.79	2269.59	99.05	2170.54
104	26S/40E-20L01		35.65857	-117.70147	Navy	2296.85	2300.45	150.08	2150.37
105	26S/40E-22H01	Pole Line and Lauritsen	35.66190	-117.65424	Navy	2228.15	2231.05	35.30	2195.75
106	26S/40E-22H02	Pole Line and Lauritsen	35.66190	-117.65424	Navy	2228.38	2231.68	35.62	2196.06
107	26S/40E-22H03	Pole Line and Lauritsen	35.66190	-117.65424	Navy	2227.74	2230.74	35.44	2195.30
108	26S/39E-20N01	ICSD MW #2	35.66274	-117.81508	IWVGA	2392.43	2394.53	258.41	2136.12
109	26S/39E-20C02	CLODT NEW WELL	35.66337	-117.80541	KCWA	2390.86	2391.86	244.20	2147.66
112	26S/39E-20N02	ICSD MW #3	35.66413	-117.81369	IWVGA	2392.35	2395.15	246.12	2149.03
114	26S/38E-22D	Homestead	35.66566	-117.87597	KCWA	2848.25	2849.25	56.40	2792.85

115	26S/39E-13R03	USNS-01	35.66663	-117.72424	Navy	2319.35	2320.65	154.79	2165.86
116	26S/39E-13R04		35.66663	-117.72424	Navy	2319.81	2321.31	205.10	2116.21
117	26S/40E-17N01	Airfield homestead well	35.66690	-117.70591	Navy	2295.08	2296.88	144.97	2151.91
118	26S/40E-15N01	S. Fuel Farm	35.66718	-117.67035	Navy	2244.78	2247.38	61.07	2186.31
119	26S/39E-15J		35.66774	-117.75980	Navy	2347.79	2354.79	213.65	2141.14
120	26S/40E-15N02	E. Fuel Farm	35.66885	-117.66869	Navy	2236.37	2239.57	54.74	2184.83
122	26S/40E-14L01	Pole Line near Ponds	35.67190	-117.64702	Navy	2205.67	2208.57	22.62	2185.95
124	26S/39E-14E01		35.67440	-117.75841	Navy	2335.33	2336.33	172.58	2163.75
126	26S/39E-17G02	Kerr McGee	35.67635	-117.80452	Navy	2356.54	2358.04	212.57	2145.47
127	26S/40E-14B01	Pole Line near Ponds	35.67774	-117.64285	Navy	2191.05	2193.05	8.91	2184.14
129	26S/40E-13C02	China Lake Playa	35.67913	-117.62952	Navy	2188.36	2189.36	10.57	2178.79
131	26S/40E-12R01	Chub Med	35.68246	-117.61980	Navy	2185.33	2187.23	4.65	2182.58
134	26S/39E-11E02	Sandquist Spa	35.68857	-117.75647	Navy	2307.30	2308.30	138.87	2169.43
136	26S/39E-08F		35.69051	-117.80952	Navy	2319.32	2320.32	171.19	2149.13
137	26S/39E-09E		35.69079	-117.79452	Navy	2312.51	2315.01	176.71	2138.30
138	26S/40E-12C	N. Pole Line	35.69329	-117.63174	Navy	2166.13	2167.63	5.75	2161.88
139	26S/39E-02N01		35.69579	-117.75591	Navy	2286.63	2287.63	116.38	2171.25
140	26S/39E-06P01	CORCORAN	35.69639	-117.82502	KCWA	2320.00	2321.40	167.50	2153.90
141	26S/38E-02R01	Mojave Pistachio	35.69703	-117.84962	KCWA	2398.00	2400.30		
144	26S/38E-02Q02	KILLINGER	35.69941	-117.85503	KCWA	2409.50	2411.60	281.60	2130.00
145	26S/38E-02Q01		35.70000	-117.85645	KCWA	2409.24	2410.24	259.50	2150.74
146	26S/38E-01M05	Fields	35.70215	-117.84707	KCWA	2373.43	2374.43	218.90	2155.53
147	26S/38E-01G02	JOHN CARR	35.70363	-117.83580	KCWA	2338.51	2339.51	184.40	2155.11
148	26S/38E-01H03	STANDARD	35.70384	-117.83079	KCWA	2318.58	2319.82		
149	26S/39E-05F01	Well 23 (Inactive)	35.70496	-117.80758	Navy	2277.60	2277.60	117.75	2159.85
151	26S/38E-02B01	PIERCE	35.70886	-117.85615	KCWA	2372.86	2374.06	218.80	2155.26
152	26S/39E-01A01		35.70940	-117.72341	Navy	2217.64	2219.24	44.23	2175.01
153	26S/39E-01A02	SNORT Bypass	35.70940	-117.72313	Navy	2217.93	2220.43	46.03	2174.40
154	25S/40E-31P		35.70996	-117.71563	Navy	2191.74	2194.04	21.05	2172.99
155	25S/39E-31R01		35.71051	-117.81536	Navy	2261.85	2264.35	95.43	2168.92
157	25S/38E-34G01	USBR 5-S	35.71813	-117.87090	KCWA	2520.42	2523.00	366.60	2156.40
158	25S/38E-34G02	USBR 5-M	35.71801	-117.87175	KCWA	2520.42	2522.80	373.50	2149.30
159	25S/38E-34G03	USBR 05-D	35.71801	-117.87175	KCWA	2520.42	2522.55	374.40	2148.15
160	25S/38E-35H	HOFFMAN	35.71860	-117.85238	KCWA	2356.96	2357.76	202.60	2155.16
161	25S/38E-36G01	NR-2 (Shallow)	35.71868	-117.84271	KCWA	2314.70	2317.24	163.20	2154.04
162	25S/38E-36G02	NR-2 (Middle)	35.71868	-117.84271	KCWA	2314.70	2316.93	OBS.	
163	25S/38E-36G03	NR-2 (Deep)	35.71868	-117.84271	KCWA	2314.70	2316.74	179.20	2137.54

165	25S/38E-35C	Murrin(previously Seizmor	35.72307	-117.85805	KCWA	2423.52	2424.52		
166	25S/38E-36D	WOOD	35.72366	-117.84667	KCWA	2343.72	2344.22	188.60	2155.62
168	25S/38E-34A01	MEANS-395	35.72453	-117.87024	KCWA	2528.78	2529.78	367.70	2162.08
169	25S/38E-35B01	Crews	35.72509	-117.85286	IWVGA	2396.24	2398.10	242.97	2155.13
171	25S/39E-28P01	Baker 4-NE	35.72551	-117.78701	Navy	2229.04	2230.04	55.30	2174.74
172	25S/39E-29M01		35.73190	-117.81286	Navy	2232.30	2233.30	61.79	2171.51
173	25S/38E-25J01	NR 1-S	35.73218	-117.83175	KCWA	2276.95	2279.75	122.50	2157.25
174	25S/38E-25J02	NR 1-M	35.73208	-117.83087	KCWA	2275.70	2278.50	118.00	2160.50
175	25S/38E-25J03	NR 1-D	35.73218	-117.83175	KCWA	2275.70	2278.50	139.00	2139.50
176	25S/39E-30E01		35.73301	-117.82675	Navy	2248.61	2250.81	57.46	2193.35
183	25S/38E-14Q01	HILL	35.75542	-117.85372	KCWA	2390.60	2392.50	233.60	2158.90
184	25S/38E-13J01		35.75829	-117.83480	Navy	2291.97	2295.77	133.28	2162.49
187	25S/39E-12R01	Charely Tower; Well 22	35.77039	-117.72496	Navy	2202.37	2203.37	26.50	2176.87
191	25S/38E-12L01	USBR 6-S	35.77607	-117.84203	Navy	2352.92	2354.71	191.99	2162.72
192	25S/38E-12L02	USBR 6-M	35.77607	-117.84203	Navy	2352.92	2354.38	194.48	2159.90
193	25S/38E-12L03	USBR 6-D	35.77607	-117.84203	Navy	2352.92	2354.00	169.49	2184.51
195	25S/39E-03R01	Baker Range	35.78412	-117.76257	Navy	2226.27	2227.27	53.26	2174.01
199	24S/39E-34D01	Baker-North	35.80213	-117.75901	Navy	2227.03	2228.63	49.60	2179.03
202	24S/38E-21A01	USBR 10-S	35.84143	-117.87176	KCWA	2559.39	2564.31	326.50	2237.81
203	24S/38E-21A02	USBR 10-SM	35.84134	-117.87258	KCWA	2559.39	2564.20	325.30	2238.90
205	24S/38E-21A04	USBR 10-D	35.84134	-117.87258	KCWA	2559.39	2563.93	324.40	2239.53
207	25S/38E-03B	Pearsonville SW	35.79546	-117.87382	IWVGA	2456.35	2457.95	283.48	2174.47
210	25S/40E-30E01	TTBK MW14	35.73254	-117.72033	Navy	2191.04	2194.25	18.42	2175.83
211	25S/41E-18R01	TTBK MW12	35.75969	-117.60148	Navy	2003.22	2006.47	25.26	1981.21
216	26S/38E-01H06	STANDARD	35.70453	-117.83447	KCWA	2319.00	2320.20	177.20	2143.00
218	26S/38E-22B	Ostrich Ranch	35.66466	-117.86875	KCWA	2666.28	2667.28	430.90	2236.38
219	26S/38E-35B		35.63608	-117.85408	KCWA	2574.55	2574.55	343.70	2230.85
220	26S/38E-35D		35.63714	-117.86398	KCWA	2685.23	2686.63	451.40	2235.23
224	26S/39E-34C01	DALY	35.63472	-117.77080	KCWA	2443.00	-		
227	26S/39E-34Q01	Demay	35.62502	-117.76733	KCWA	2473.10	-	338.70	
229	26S/40E-28J01	Hospital	35.64121	-117.67128	IWVGA	2290.92	2291.92	138.76	2153.16
230	26S/40E-29M01	WOODMAN	35.64186	-117.70314	KCWA	2330.64	2331.64	208.10	2123.54
231	26S/40E-29M02	AMSTER	35.64125	-117.69973	KCWA	2324.64	2325.64	200.70	2124.94
234	27S/39E-02K	Asphalt Construction Co.	35.61218	-117.74813	KCWA	2458.42	2458.42	319.30	2139.12
235	27S/39E-08A01	WIDTFELDT	35.60721	-117.79818	IWVGA	2534.19	2535.49	400.41	2135.08
238	25S/39E-22J01	S. Baker Ranch	35.74300	-117.76290	Navy	2218.77	2219.77	44.28	2175.49
240	27S/40E-02J01	DMP Cemetery	35.61176	-117.63510	KCWA	2305.05	2305.55		

241	26S/40E-17Q01	S. Hangar 5; 96030-1	35.66638	-117.69659	Navy	2277.10	-	145.80	
244	24S/40E-21K02	TTIWV-MW15	35.83168	-117.65779	Navy	2239.30	2231.70	52.91	2178.79
245	26S/40E-25P	MK22-MW10	35.63875	-117.62699	Navy	2242.70	-	90.37	
246	23S/40E-31N	E. Airport Lake Well	35.88700	-117.70600	Navy	2298.10	2301.43	109.89	2191.54
247	24S/38E-19H	Ninemile Well	35.83719	-117.90704	IWVGA	2971.25	2971.27	10.18	2961.09
248	25S/38E-14A01	Bork Well	35.76809	-117.85244	IWVGA	2394.10	-	237.45	
249	26S/39E-05L01	B4W3; G4 Access Rd #1	35.69973	-117.80355	Navy	2293.86	2295.72	133.41	2162.31
250	26S/39E-05K01	P4- Well 4/2; G4 Access Rd	35.69973	-117.80339	Navy	2293.75	2295.50	132.82	2162.68
251	26S/40E-22E01	CB Camp Well #1	35.66135	-117.66687	Navy	2243.68	2246.46	106.55	2139.91
254	25S/39E-29N01	Old Road Well	35.72740	-117.81212	Navy	2241.10	-	68.79	
255	26S/40E-22E02	CB Camp Well #2	35.66132	-117.66633	Navy	2244.37	2246.65	92.46	2154.19
301	27S/38E-32C01	EP-01 S	35.54904	-117.91071	IWVGA	2962.66	2965.12	272.01	2693.11
302	27S/38E-32C02	EP-01 M	35.54904	-117.91071	IWVGA	2962.66	2965.02	276.65	2688.37
303	27S/38E-32C03	EP-01 D	35.54904	-117.91071	IWVGA	2962.66	2964.87	272.67	2692.20
305	26S/38E-17C01	Indian Wells Canyon	35.67749	-117.91262	IWVGA	3468.50	3456.27	75.71	3380.56
306	26S/39E-27C01	Garrison	35.65120	-117.78538	KCWA	2395.50	-	273.00	
307	26S/39E-25K01	Charley Air Corridor	35.64041	-117.74023	IWVGA	2390.11	2391.80	274.57	2117.23
308	24S/38E-16J	Sawmill Well 1	35.84887	-117.87292	IWVGA	2577.41	2577.41	338.38	2239.03
309	24S/38E-16	Sawmill Well 4	35.85113	-117.87469	IWVGA	2586.32	2586.32	342.80	2243.52
311	24S/38E-04D01	RVS-Mid	35.88517	-117.88699	IWVGA	2729.38	2731.43	76.98	2654.45
312	25S/40E-32	TTBK-MW05	35.71771	-117.70211	Navy	2190.00	2192.60	12.90	2179.70
313	24S/43E-36N	Paxton MW	35.80107	-117.61617	Navy	2187.00	-	12.51	
314	25S/40E-14H	Mid Centerline	35.76417	-117.63716	Navy	-	2164.68	7.66	2157.02
315	25S/40E-35D01	China Lake Playa West	35.72063	-117.65144	Navy	2165.00	-	6.15	
316	26S/40E-13P	SE WWTF	35.66699	-117.62747	Navy	2215.00	-	35.34	
317	26S/40E-35C02	NE Satellite Lake	35.64827	-117.62868	Navy	2264.00	-	107.09	
318	27S/40E-2R01	CR-MW1	35.60836	-117.63599					

Attachment D

WY 2025 Groundwater Level Data

						Fall 2024			Spring 2025		
183		33				148			150		
DBID	State ID	Alternate Well Name	CASGEM	Latitude (NAD83)	Longitude (NAD83)	Date	DTW (ft, bgs)	GW Elev. (ft, amsl)	Date	DTW (ft, bgs)	GW Elev. (ft, amsl)
1	28S/38E-18R	Black Hills Well	X	35.49364	-117.92094	9/24/2024	196.87	2820.13	3/5/2025	196.84	2820.16
2	28S/38E-18F01	Abandoned Well		35.49928	-117.92844	9/24/2024	211.48	2815.29	3/5/2025	211.47	2815.30
5	27S/38E-27M01	USNS-03	X	35.55387	-117.88132	9/25/2024	187.27	2685.63	3/5/2025	186.40	2686.50
6	27S/39E-28L01	Rock Quarry		35.55472	-117.79253	9/24/2024	288.50	2531.50	3/4/2025	289.40	2530.60
7	27S/38E-23F01	USBR 1-S	X	35.56959	-117.86289	9/24/2024	180.44	2670.06	3/4/2025	179.24	2671.26
8	27S/38E-23F02	USBR 1-SM	X	35.56968	-117.86369	9/24/2024	178.42	2672.08	3/4/2025	177.12	2673.38
10	27S/38E-23F04	USBR 1-D		35.56968	-117.86369	9/24/2024	180.49	2670.01	3/4/2025	179.29	2671.21
11	27S/38E-21L01	AB303-05	X	35.56985	-117.89592	9/24/2024	355.32	2668.84	3/5/2025	353.96	2670.20
12	27S/39E-19E01	IWV MW #3		35.57400	-117.82969	9/25/2024	204.30	2435.19	3/5/2025	204.00	2435.49
13	27S/38E-15R01	AB303-06		35.58195	-117.86617	9/25/2024	273.32	2658.67	3/5/2025	273.27	2658.72
16	27S/38E-13A01	Sea Bee Well		35.59345	-117.83060	9/24/2024	224.45	2429.54	3/4/2025	224.55	2429.44
17	27S/38E-09Q02	AB303-02		35.59362	-117.89262	9/24/2024	429.90	2675.10	3/4/2025	419.50	2685.50
18	27S/38E-09P01	Father Crowley		35.59363	-117.89246	9/24/2024	420.78	2691.32	3/5/2025	419.57	2692.53
19	27S/38E-08R01			35.59367	-117.90300				3/5/2025	506.85	2694.08
20	27S/38E-13A02	AB303-01		35.59369	-117.83070	9/24/2024	223.24	2426.76	3/6/2025	223.95	2426.05
21	27S/39E-08P02	IWV MW # 2		35.59393	-117.80371	9/24/2024	445.10	2135.86	3/4/2025	444.20	2136.76
22	27S/39E-07R01	Inyo		35.59634	-117.81589	9/24/2024	419.00	2145.10	3/4/2025	418.70	2145.40
23	27S/39E-08M02	IWV MW #1		35.60045	-117.80947	9/24/2024	419.60	2133.83	3/4/2025	419.30	2134.13
24	27S/38E-10B02	AB303-03		35.60662	-117.87407	9/25/2024	430.34	2465.73	3/6/2025	427.82	2468.25
25	27S/38E-09C01	AB303-04		35.60665	-117.89378	9/25/2024	384.64	2689.30	3/6/2025	383.24	2690.70
26	27S/39E-11D01	USBR 3-S	X	35.60731	-117.75485	9/24/2024	367.04	2143.36	3/4/2025	369.74	2140.66
27	27S/39E-11D02	USBR 3-M	X	35.60718	-117.75563	9/24/2024	363.98	2146.42	3/4/2025	366.48	2143.92
28	27S/39E-11D03	USBR 3-D	X	35.60718	-117.75563	9/24/2024	333.59	2176.81	3/4/2025	346.29	2164.11
30	27S/40E-06D01	Dist. Well 12		35.62198	-117.72253	9/25/2024	290.36	2116.64	3/3/2025	284.50	2122.50
31	27S/40E-06N02	TIPTON		35.60898	-117.72155	9/24/2024	357.60	2116.13	3/4/2025	352.70	2121.03
32	27S/40E-06N01	MANOS		35.60996	-117.72005						
36	27S/40E-01K02	George Air Corridor	X	35.61470	-117.62469	9/23/2024	164.42	2158.22	3/3/2025	166.13	2156.51
37	27S/40E-06F01	FRISBEE		35.61629	-117.71810	9/24/2024	320.80	2118.76	3/4/2025	319.50	2120.06
40	27S/40E-06E01	TURNER		35.61855	-117.72040	9/24/2024	316.80	2116.09	3/4/2025	315.20	2117.69
41	27S/39E-03B01			35.62127	-117.76580						

43	27S/39E-03C01	FARRELL		35.62174	-117.77157						
44	27S/39E-04C01	Padgett Well		35.62224	-117.78752	9/24/2024	355.20	2144.80	3/4/2025	2500.00	0.00
46	27S/38E-02C01	USBR 2-S	X	35.62280	-117.85761	9/24/2024	281.96	2372.99	3/4/2025	281.86	2373.09
47	27S/38E-02C02	USBR 2-M	X	35.62274	-117.85841	9/24/2024	274.92	2380.03	3/4/2025	275.12	2379.83
48	27S/38E-02C03	USBR 2-D	X	35.62274	-117.85841	9/24/2024	283.37	2371.58	3/4/2025	283.97	2370.98
50	26S/40E-35Q02	S.E. Line		35.62274	-117.64257	10/2/2024	95.32	2157.51	3/6/2025	95.54	2157.29
51	26S/39E-34R02	WOODWORTH		35.62351	-117.76068	9/24/2024	325.70	2125.01			
53	26S/40E-31K01	BURNS		35.62580	-117.71330						
56	26S/39E-34K03	FISHER		35.62791	-117.76635						
57	26S/39E-32L01	STEELE		35.62902	-117.80461	9/24/2024	347.00	2145.04			
58	26S/39E-35G01	QUIST #4		35.63089	-117.74645						
59	26S/39E-31R03	Donna Sue Water Company		35.62389	-117.81543						
63	26S/40E-35H01	Satellite Lake 1 (west)		35.63191	-117.63896	10/2/2024	91.59	2160.76	3/6/2025	91.59	2160.76
64	26S/40E-35H02	Satellite Lake 2 (east)		35.63191	-117.63869	10/2/2024	99.94	2152.09	3/6/2025	99.65	2152.38
72	26S/40E-29N01	KLEINSCHMIDT		35.63792	-117.70175						
73	26S/40E-29P01	CHUN		35.63791	-117.70032	9/24/2024	202.70	2127.99	3/4/2025	200.50	2130.19
75	26S/39E-26P01	QUIST #1		35.64024	-117.75147	9/24/2024	268.50	2134.83	3/4/2025	265.00	2138.33
76	26S/39E-26P02	QUIST #2		35.64052	-117.75313	9/24/2024	272.50	2133.76	3/4/2025	268.30	2137.96
77	26S/39E-29J02	PATRICIA SORENSON		35.64181	-117.79611	9/24/2024	305.50	2123.50	3/4/2025	305.50	2123.50
78	26S/39E-28L02			35.64182	-117.78619						
80	26S/39E-28G02	OMSTEAD		35.64601	-117.78135	9/24/2024	288.10	2144.92	3/4/2025	288.30	2144.72
82	26S/40E-26F01	W-Side Mirror Lake		35.64746	-117.64508	10/2/2024	59.96	2172.84	3/6/2025	60.05	2172.75
84	26S/39E-27D02	MW 32-SM	X	35.64852	-117.77493	9/24/2024	279.76	2138.77	3/4/2025	279.26	2139.27
85	26S/39E-27D03	MW 32-DM	X	35.64857	-117.77591	9/24/2024	279.66	2138.87	3/4/2025	279.46	2139.07
86	26S/39E-27D04	MW 32-D	X	35.64857	-117.77591	9/24/2024	279.75	2138.78	3/4/2025	279.65	2138.88
87	26S/40E-27D02	W-Side PW Compound		35.64941	-117.66785	10/2/2024	45.65	2221.10	3/6/2025	45.80	2220.95
88	26S/39E-26A03	USBR 4	X	35.64966	-117.74213	9/24/2024	257.65	2119.44	3/4/2025	251.25	2125.84
90	26S/39E-28B03	DAME (New Well)		35.65050	-117.78352	9/24/2024	250.20	2176.45			
92	26S/40E-27D01	NW PW Compound		35.65052	-117.66730	10/2/2024	72.52	2195.52	3/6/2025	72.70	2195.34
94	26S/39E-20L			35.66560	-117.81374	9/24/2024	242.60	2185.39			
95	26S/40E-22P02	PW Substation 3		35.65191	-117.66313	10/1/2024	65.20	2202.02	3/6/2025	64.85	2202.37
97	26S/40E-22P03	PW Substation 1		35.65357	-117.66452	10/1/2024	115.39	2143.49	3/6/2025	113.49	2145.39
98	26S/40E-22P04	PW Substation 2		35.65357	-117.66452	10/1/2024	53.20	2205.55	3/6/2025	53.06	2205.69
100	26S/40E-19N02			35.65413	-117.72147	9/27/2024	210.61	2126.82	3/6/2025	209.25	2128.18
101	26S/40E-22N01	In Propane Yard		35.65423	-117.66940	10/2/2024	93.81	2170.55			
103	26S/40E-21K03			35.65663	-117.67924	10/1/2024	96.25	2170.54	3/6/2025	95.61	2171.18
104	26S/40E-20L01			35.65857	-117.70147	10/1/2024	146.48	2150.37	3/6/2025	146.13	2150.72

105	26S/40E-22H01	Pole Line and Lauritsen	35.66190	-117.65424	10/1/2024	32.40	2195.75	3/6/2025	32.22	2195.93
106	26S/40E-22H02	Pole Line and Lauritsen	35.66190	-117.65424	10/1/2024	32.32	2196.06	3/6/2025	32.36	2196.02
107	26S/40E-22H03	Pole Line and Lauritsen	35.66190	-117.65424	10/1/2024	32.44	2195.30	3/6/2025	32.29	2195.45
108	26S/39E-20N01	ICSD MW #2	35.66274	-117.81508	9/24/2024	256.31	2136.12			
109	26S/39E-20C02	CLODT NEW WELL	35.66337	-117.80541	9/24/2024	243.20	2147.66	3/4/2025	243.50	2147.36
112	26S/39E-20N02	ICSD MW #3	35.66413	-117.81369	9/24/2024	243.32	2149.03			
114	26S/38E-22D	Homestead	35.66566	-117.87597	9/24/2024	55.40	2792.85	3/4/2025	55.20	2793.05
115	26S/39E-13R03	USNS-01	35.66663	-117.72424	10/1/2024	153.49	2165.86	3/6/2025	153.71	2165.64
116	26S/39E-13R04		35.66663	-117.72424	10/1/2024	203.60	2116.21	3/6/2025	196.91	2122.90
117	26S/40E-17N01	Airfield homestead well	35.66690	-117.70591	10/1/2024	143.17	2151.91	3/6/2025	143.02	2152.06
118	26S/40E-15N01	S. Fuel Farm	35.66718	-117.67035	10/1/2024	58.47	2186.31	3/6/2025	58.45	2186.33
119	26S/39E-15J		35.66774	-117.75980	9/28/2024	206.65	2141.14	3/5/2025	204.84	2142.95
120	26S/40E-15N02	E. Fuel Farm	35.66885	-117.66869	10/1/2024	51.54	2184.83	3/6/2025	51.51	2184.86
122	26S/40E-14L01	Pole Line near Ponds	35.67190	-117.64702	10/1/2024	19.72	2185.95	3/6/2025	19.25	2186.42
124	26S/39E-14E01		35.67440	-117.75841	9/28/2024	171.58	2163.75	3/5/2025	171.61	2163.72
126	26S/39E-17G02	Kerr McGee	35.67635	-117.80452	9/27/2024	211.07	2145.47	3/4/2025	210.40	2146.14
127	26S/40E-14B01	Pole Line near Ponds	35.67774	-117.64285	10/1/2024	6.91	2184.14	3/6/2025	6.92	2184.13
129	26S/40E-13C02	China Lake Playa	35.67913	-117.62952	10/1/2024	9.57	2178.79	3/6/2025	9.22	2179.14
131	26S/40E-12R01	Chub Med	35.68246	-117.61980	10/1/2024	2.75	2182.58	3/6/2025	2.98	2182.35
134	26S/39E-11E02	Sandquist Spa	X 35.68857	-117.75647	9/27/2024	137.87	2169.43	3/4/2025	138.05	2169.25
136	26S/39E-08F		35.69051	-117.80952	9/28/2024	170.19	2149.13	3/5/2025	169.75	2149.57
137	26S/39E-09E		35.69079	-117.79452	9/28/2024	174.21	2138.30	3/5/2025	172.60	2139.91
138	26S/40E-12C	N. Pole Line	35.69329	-117.63174	10/1/2024	4.25	2161.88	3/6/2025	4.63	2161.50
139	26S/39E-02N01		35.69579	-117.75591	9/28/2024	115.38	2171.25	3/5/2025	115.54	2171.09
140	26S/39E-06P01	CORCORAN	35.69639	-117.82502	9/24/2024	166.10	2153.90	3/4/2025	161.90	2158.10
141	26S/38E-02R01	Mojave Pistachio	35.69703	-117.84962						
144	26S/38E-02Q02	KILLINGER	35.69941	-117.85503	9/24/2024	279.50	2130.00	3/4/2025	253.40	2156.10
145	26S/38E-02Q01		35.70000	-117.85645	9/24/2024	258.50	2150.74	3/4/2025	255.80	2153.44
146	26S/38E-01M05	Fields	35.70215	-117.84707	9/24/2024	217.90	2155.53	3/4/2025	216.10	2157.33
147	26S/38E-01G02	JOHN CARR	35.70363	-117.83580	9/24/2024	183.40	2155.11	3/4/2025	181.20	2157.31
148	26S/38E-01H03	STANDARD	35.70384	-117.83079				3/4/2025	197.06	2121.52
149	26S/39E-05F01	Well 23 (Inactive)	35.70496	-117.80758	9/28/2024	117.75	2159.85	3/5/2025	117.16	2160.44
151	26S/38E-02B01	PIERCE	35.70886	-117.85615	9/24/2024	217.60	2155.26	3/4/2025	216.20	2156.66
152	26S/39E-01A01		35.70940	-117.72341	9/27/2024	42.63	2175.01	3/4/2025	42.77	2174.87
153	26S/39E-01A02		35.70940	-117.72313	9/27/2024	43.53	2174.40	3/4/2025	43.70	2174.23
154	25S/40E-31P		35.70996	-117.71563	9/28/2024	18.75	2172.99	3/5/2025	18.68	2173.06
155	25S/39E-31R01		35.71051	-117.81536	9/28/2024	92.93	2168.92	3/5/2025	93.13	2168.72

156	25S/38E-36P	PAGE		35.71076	-117.83996						
157	25S/38E-34G01	USBR 5-S	X	35.71813	-117.87090	9/24/2024	364.02	2156.40	3/4/2025	362.02	2158.40
158	25S/38E-34G02	USBR 5-M	X	35.71801	-117.87175	9/24/2024	371.12	2149.30	3/4/2025	370.12	2150.30
159	25S/38E-34G03	USBR 05-D	X	35.71801	-117.87175	9/24/2024	372.27	2148.15	3/4/2025	370.77	2149.65
160	25S/38E-35H	HOFFMAN		35.71860	-117.85238	9/24/2024	201.80	2155.16	3/4/2025	200.60	2156.36
161	25S/38E-36G01	NR-2 (Shallow)	X	35.71868	-117.84271	9/24/2024	160.66	2154.04	3/4/2025	158.46	2156.24
162	25S/38E-36G02	NR-2 (Middle)	X	35.71868	-117.84271						
163	25S/38E-36G03	NR-2 (Deep)	X	35.71868	-117.84271	9/24/2024	177.16	2137.54	3/4/2025	175.86	2138.84
165	25S/38E-35C	Murrin(previously Seizmore)		35.72307	-117.85805				3/4/2025	266.30	2157.22
166	25S/38E-36D	WOOD		35.72366	-117.84667	9/24/2024	188.10	2155.62	3/4/2025	186.20	2157.52
168	25S/38E-34A01	MEANS-395		35.72453	-117.87024	9/24/2024	366.70	2162.08	3/4/2025	364.90	2163.88
169	25S/38E-35B01			35.72509	-117.85286	9/25/2024	241.11	2155.13	3/6/2025	240.00	2156.24
171	25S/39E-28P01	Baker 4-NE		35.72551	-117.78701	9/28/2024	54.30	2174.74	3/4/2025	54.84	2174.20
172	25S/39E-29M01			35.73190	-117.81286	9/28/2024	60.79	2171.51	3/5/2025	60.92	2171.38
173	25S/38E-25J01	NR 1-S		35.73218	-117.83175	9/24/2024	119.70	2157.25	3/4/2025	120.40	2156.55
174	25S/38E-25J02	NR 1-M		35.73208	-117.83087	9/24/2024	115.20	2160.50	3/4/2025	116.00	2159.70
175	25S/38E-25J03	NR 1-D		35.73218	-117.83175	9/24/2024	136.20	2139.50	3/4/2025	135.40	2140.30
176	25S/39E-30E01			35.73301	-117.82675	9/28/2024	55.26	2193.35	3/5/2025	55.69	2192.92
183	25S/38E-14Q01	HILL		35.75542	-117.85372	9/24/2024	231.70	2158.90	3/4/2025	231.00	2159.60
184	25S/38E-13J01			35.75829	-117.83480	9/28/2024	129.48	2162.49	3/5/2025	127.49	2164.48
187	25S/39E-12R01	Charely Tower; Well 22		35.77039	-117.72496	9/27/2024	25.50	2176.87	3/5/2025	25.58	2176.79
191	25S/38E-12L01	USBR 6-S	X	35.77607	-117.84203	9/27/2024	190.20	2162.72	3/5/2025	185.36	2167.56
192	25S/38E-12L02	USBR 6-M	X	35.77607	-117.84203	9/27/2024	193.02	2159.90	3/5/2025	191.64	2161.28
193	25S/38E-12L03	USBR 6-D	X	35.77607	-117.84203	9/27/2024	168.41	2184.51	3/5/2025	168.42	2184.50
195	25S/39E-03R01	Baker Range	X	35.78412	-117.76257	9/28/2024	52.26	2174.01	3/5/2025	52.39	2173.88
199	24S/39E-34D01	Baker-North		35.80213	-117.75901	9/28/2024	48.00	2179.03	3/5/2025	48.07	2178.96
202	24S/38E-21A01	USBR 10-S	X	35.84143	-117.87176	9/24/2024	321.58	2237.81	3/4/2025	320.08	2239.31
203	24S/38E-21A02	USBR 10-SM	X	35.84134	-117.87258	9/24/2024	320.49	2238.90	3/4/2025	320.39	2239.00
205	24S/38E-21A04	USBR 10-D	X	35.84134	-117.87258	9/24/2024	319.86	2239.53	3/4/2025	319.26	2240.13
207	25S/38E-03B			35.79546	-117.87382	9/25/2024	281.88	2174.47	3/6/2025	291.30	2165.05
208	25S/38E-25M	Goldsmith		35.73135	-117.84767						
210	25S/40E-30E01	TTBK MW14	X	35.73254	-117.72033	9/28/2024	15.21	2175.83	3/5/2025	15.39	2175.65
211	25S/41E-18R01	TTBK MW12	X	35.75969	-117.60148	9/27/2024	22.01	1981.21	3/4/2025	21.97	1981.25
212	26S/38E-01E03			35.70417	-117.84716						
215	26S/38E-01H05			35.70406	-117.83200						
216	26S/38E-01H06	STANDARD		35.70453	-117.83447	9/24/2024	176.00	2143.00	3/4/2025	173.30	2145.70
218	26S/38E-22B	Ostrich Ranch		35.66466	-117.86875	9/24/2024	429.90	2236.38	3/4/2025	429.90	2236.38

219	26S/38E-35B		35.63608	-117.85408	9/24/2024	343.70	2230.85	3/4/2025	345.20	2229.35
220	26S/38E-35D		35.63714	-117.86398	9/24/2024	450.00	2235.23	3/4/2025	450.10	2235.13
223	26S/39E-27C01		35.64849	-117.76864						
224	26S/39E-34C01	DALY	35.63472	-117.77080						
227	26S/39E-34Q01	Demay	35.62502	-117.76733						
229	26S/40E-28J01	Hospital	35.64121	-117.67128	9/23/2024	137.76	2153.16	3/3/2025	136.90	2154.02
230	26S/40E-29M01	WOODMAN	35.64186	-117.70314	9/24/2024	207.10	2123.54	3/4/2025	204.60	2126.04
231	26S/40E-29M02	AMSTER	35.64125	-117.69973	9/24/2024	199.70	2124.94	3/4/2025	197.30	2127.34
233	27S/38E-01C	Warkentin	35.61944	-117.84342						
234	27S/39E-02K	Asphalt Construction Co.	35.61218	-117.74813	9/24/2024	319.30	2139.12	3/4/2025	2458.42	0.00
235	27S/39E-08A01		35.60721	-117.79818	9/24/2024	399.11	2135.08	3/6/2025	399.69	2134.50
237	24S/38E-33J02		35.80190	-117.87258						
238	25S/39E-22J01	S. Baker Ranch	35.74300	-117.76290	9/28/2024	43.28	2175.49	3/5/2025	43.45	2175.32
239	26S/40E-34F01	City of Ridgecrest	35.63070	-117.66690						
240	27S/40E-02J01	DMP Cemetery	35.61176	-117.63510				3/4/2025	154.40	2150.65
241	26S/40E-17Q01	S. Hangar 5; 96030-1	X	35.66638	-117.69659			3/4/2025	145.53	2131.57
244	24S/40E-21K02	TTIWV-MW15	35.83168	-117.65779	9/27/2024	60.51	2178.79	3/4/2025	49.95	2181.81
245	26S/40E-25P	MK22-MW10	35.63875	-117.62699				3/6/2025	88.53	2154.17
246	23S/40E-31N	E. Airport Lake Well	35.88700	-117.70600	9/27/2024	106.56	2191.54	3/5/2025	106.29	2191.81
247	24S/38E-19H	Ninemile Well	35.83719	-117.90704	9/26/2024	10.17	2961.09	3/6/2025	7.75	2963.51
248	25S/38E-14A01	Bork Well	35.76809	-117.85244				3/6/2025	234.24	2159.86
249	26S/39E-05L01	B4W3; G4 Access Rd #1	35.69973	-117.80355	9/28/2024	131.55	2162.31	3/5/2025	132.65	2161.21
250	26S/39E-05K01	P4- Well 4/2; G4 Access Rd #2	35.69973	-117.80339	9/28/2024	131.07	2162.68	3/5/2025	130.89	2162.86
251	26S/40E-22E01	CB Camp Well #1	35.66135	-117.66687	10/1/2024	103.77	2139.91	3/6/2025	102.52	2141.16
254	25S/39E-29N01		35.72740	-117.81212				3/4/2025	67.97	2173.13
255	26S/40E-22E02	CB Camp Well #2	35.66132	-117.66633	10/2/2024	90.18	2154.19	3/6/2025	90.26	2154.11
301	27S/38E-32C01	EP-01 S	35.54904	-117.91071	9/24/2024	269.54	2693.11	3/5/2025	268.54	2694.11
302	27S/38E-32C02	EP-01 M	35.54904	-117.91071	9/24/2024	274.29	2688.37	3/5/2025	273.46	2689.20
303	27S/38E-32C03	EP-01 D	35.54904	-117.91071	9/24/2024	270.45	2692.20	3/5/2025	269.47	2693.18
304	26S/39E-35B01		35.63444	-117.74635						
305	26S/38E-17C01	Indian Wells Canyon	35.67749	-117.91262	9/25/2024	87.94	3380.56	3/5/2025	91.06	3377.44
306	26S/39E-27C01	Garrison	35.65120	-117.78538				3/4/2025	274.00	2121.50
307	26S/39E-25K01		35.64041	-117.74023	9/23/2024	272.88	2117.23	3/3/2025	266.89	2123.22
308	24S/38E-16J	Sawmill Well 1	35.84887	-117.87292	9/26/2024	338.38	2239.03	3/6/2025	338.25	2239.16
309	24S/38E-16	Sawmill Well 4	35.85113	-117.87469	9/26/2024	342.80	2243.52	3/6/2025	341.95	2244.37
311	24S/38E-04D01	RVS-Mid	35.88517	-117.88699	9/26/2024	74.93	2654.45	3/6/2025	75.75	2653.63
312	25S/40E-32	TTBK-MW05	35.71771	-117.70211	9/27/2024	10.30	2179.70	3/4/2025	10.35	2179.65

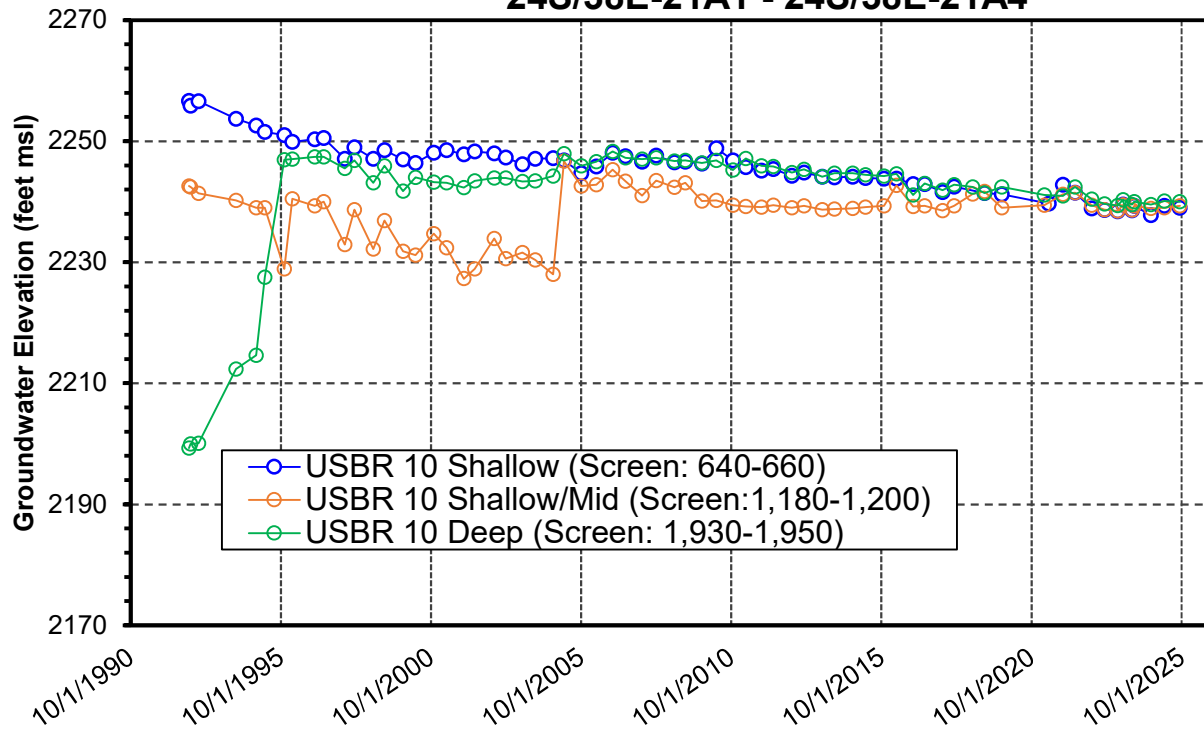
313	24S/43E-36N	Paxton MW	35.80107	-117.61617
314	25S/40E-14H	Mid Centerline	35.76417	-117.63716
315	25S/40E-35D01	China Lake Playa West	35.72063	-117.65144
316	26S/40E-13P	SE WWTF	35.66699	-117.62747
317	26S/40E-35C02	NE Satellite Lake	35.64827	-117.62868
318	27S/40E-2R01	CR-MW1	35.60836	-117.63599

9/27/2024	2157.02	3/4/2025	2157.07
-----------	---------	----------	---------

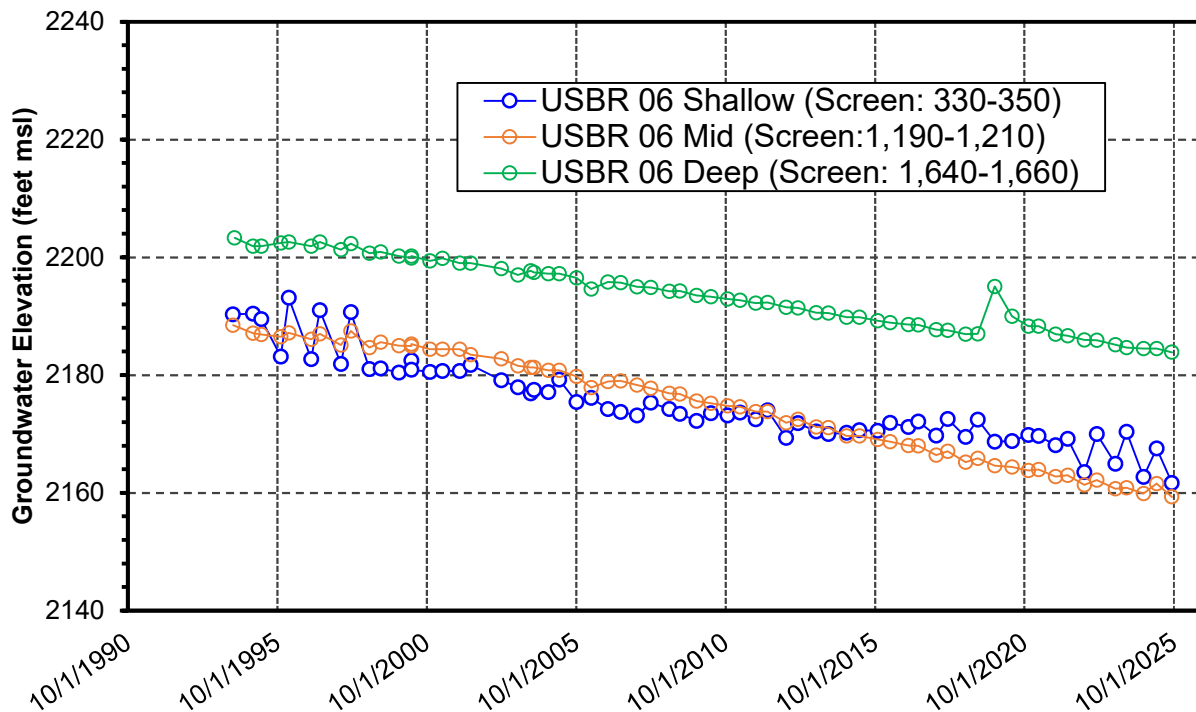
Attachment E

Hydrographs for Select Monitoring Wells

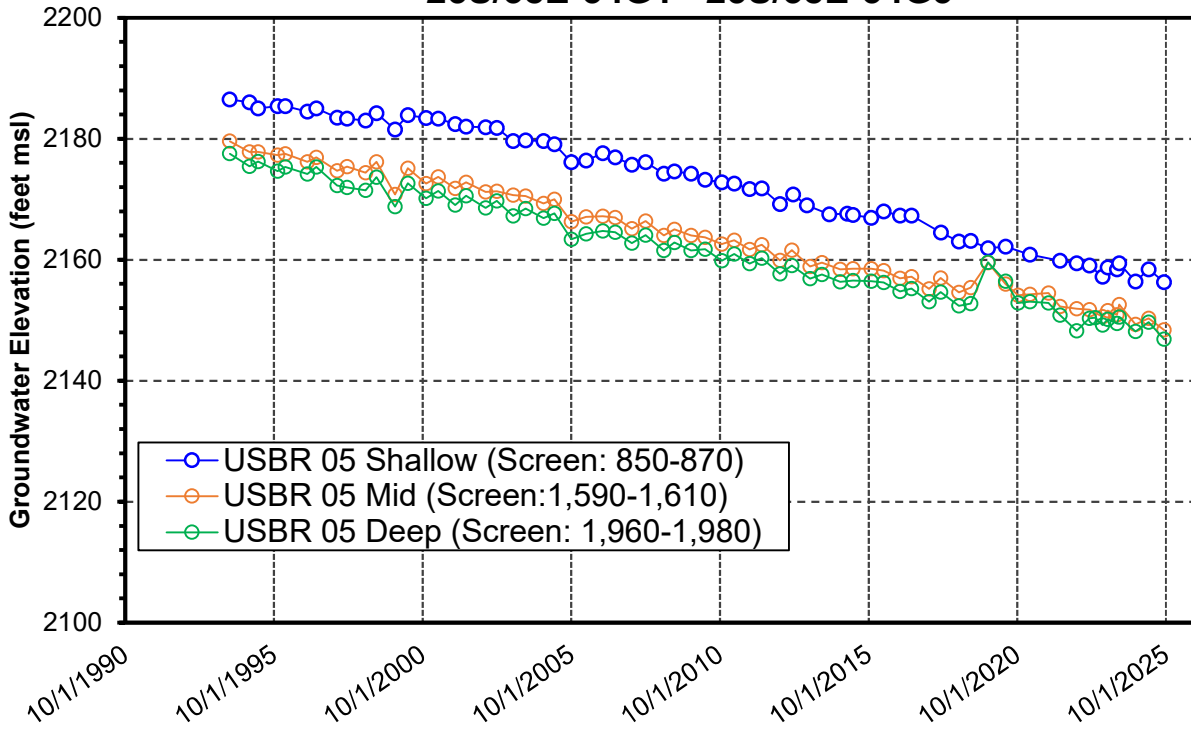
**USBR 10 (2559 ft, msl)
24S/38E-21A1 - 24S/38E-21A4**



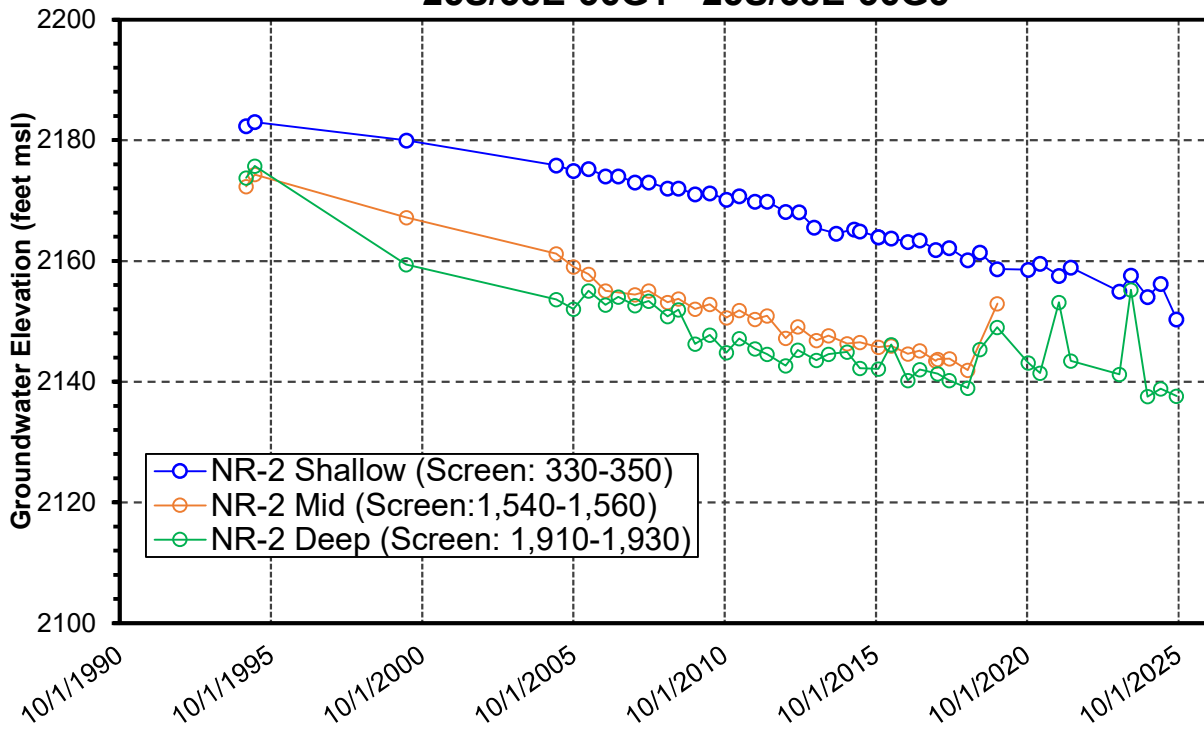
**USBR 06 (2353 ft, msl)
Representative Monitoring Site
25S/38E-12L1 - 25S/38E-12L3**



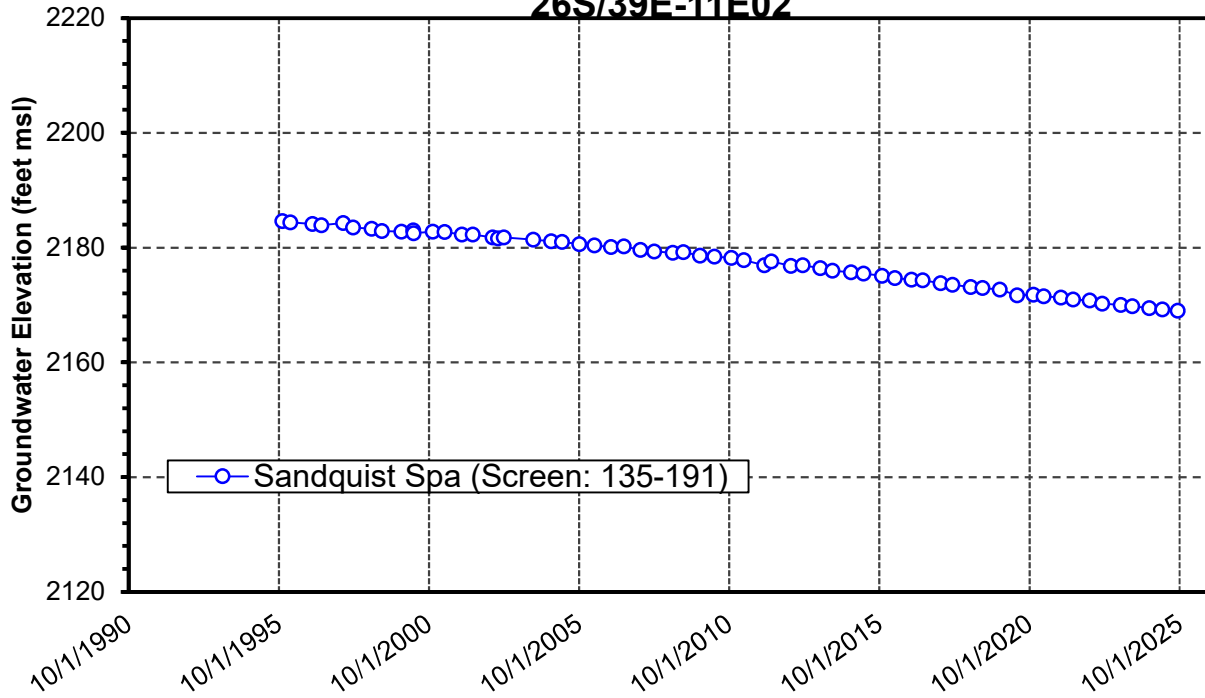
USBR 05 (2520 ft, msl)
Representative Monitoring Site
25S/38E-34G1 - 25S/38E-34G3



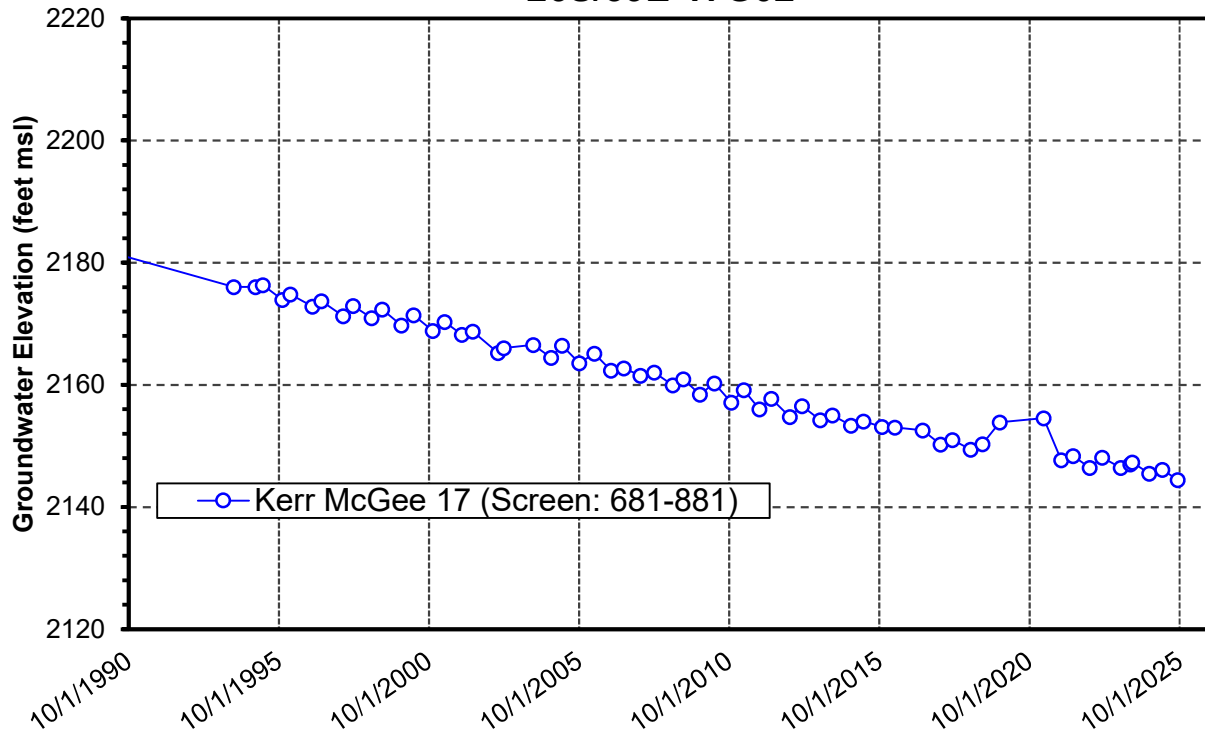
NR-2 (2315 ft, msl)
25S/38E-36G1 - 25S/38E-36G3



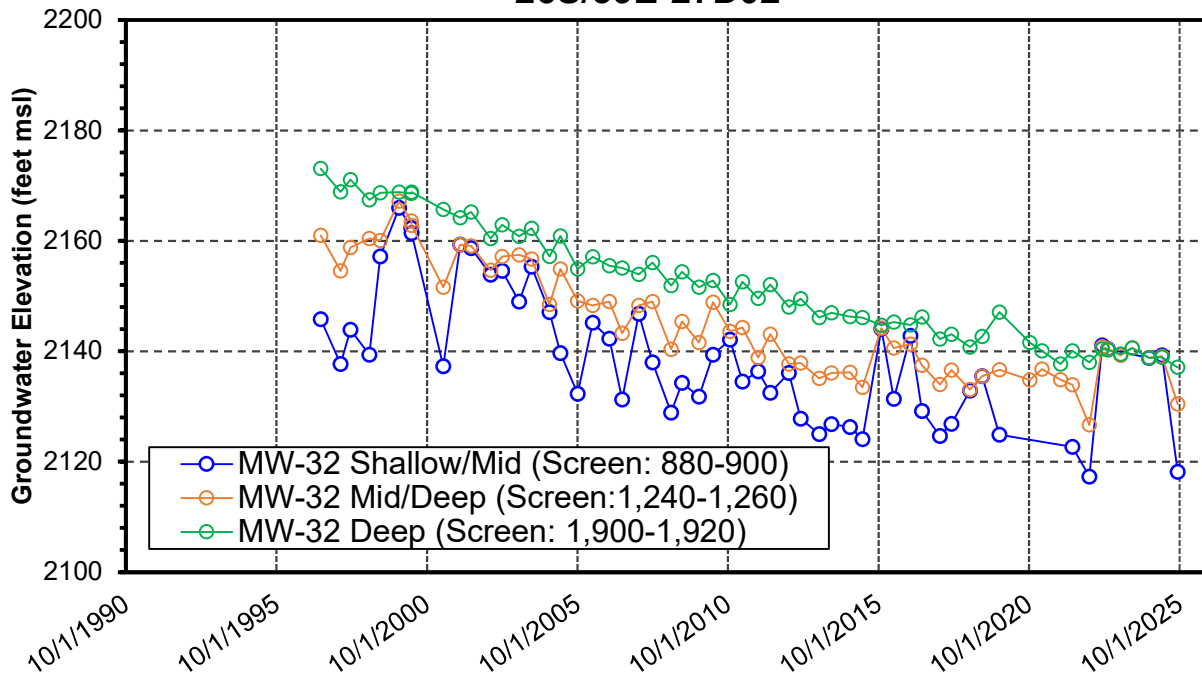
Sandquist Spa (2307 ft, msl)
Representative Monitoring Site
26S/39E-11E02



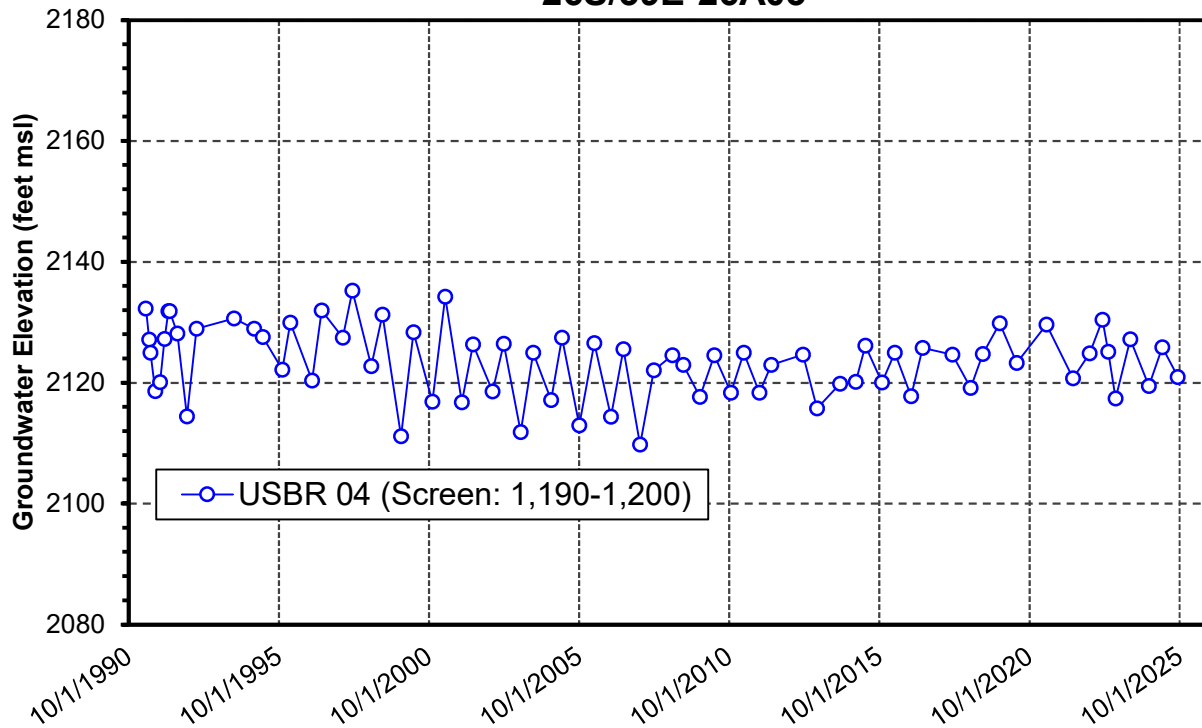
Kerr McGee 17 (2357 ft, msl)
Representative Monitoring Site
26S/39E-17G02



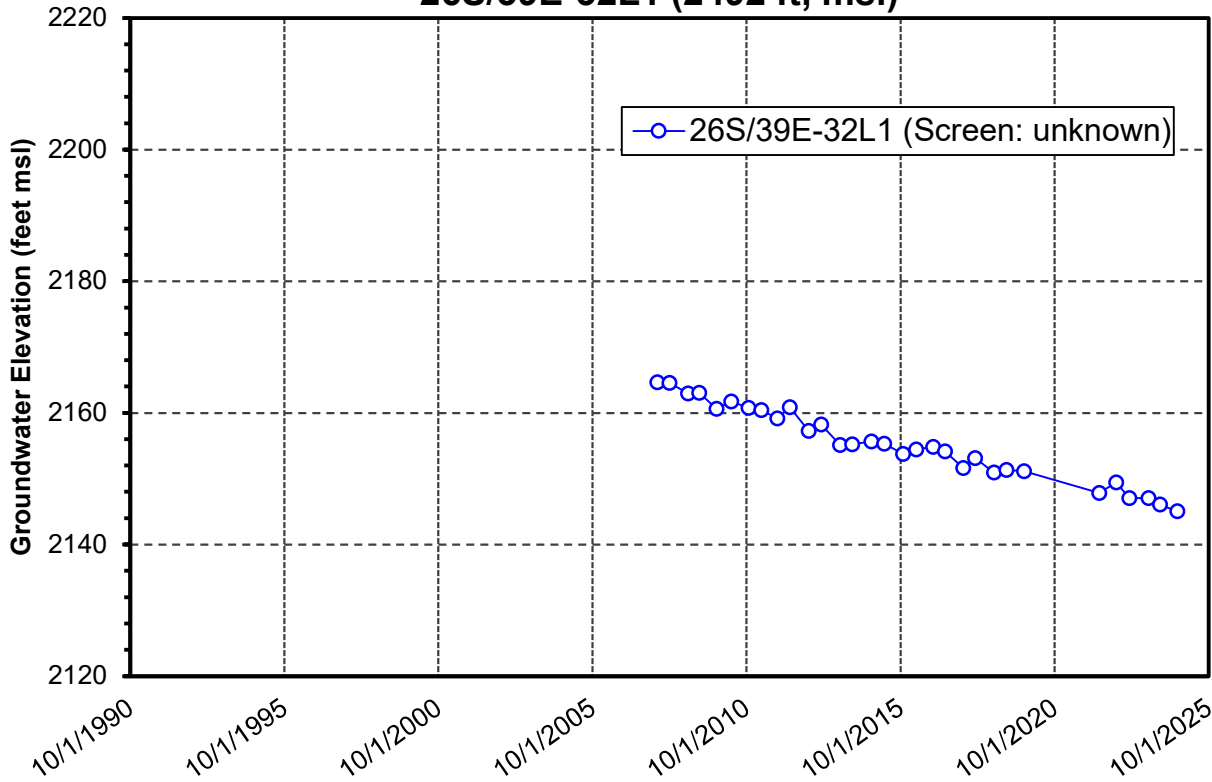
MW-32 (2419 ft, msl)
Representative Monitoring Site
26S/39E-27D02



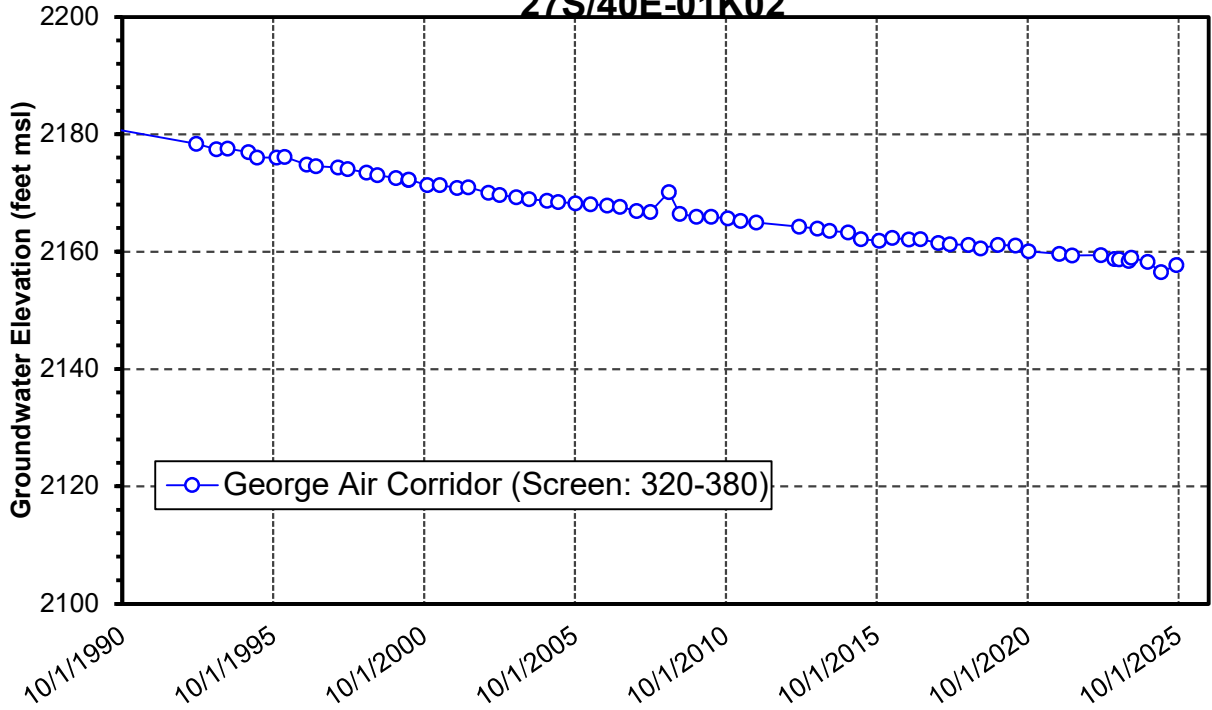
USBR 04 (2377 ft, msl)
Representative Monitoring Site
26S/39E-26A03



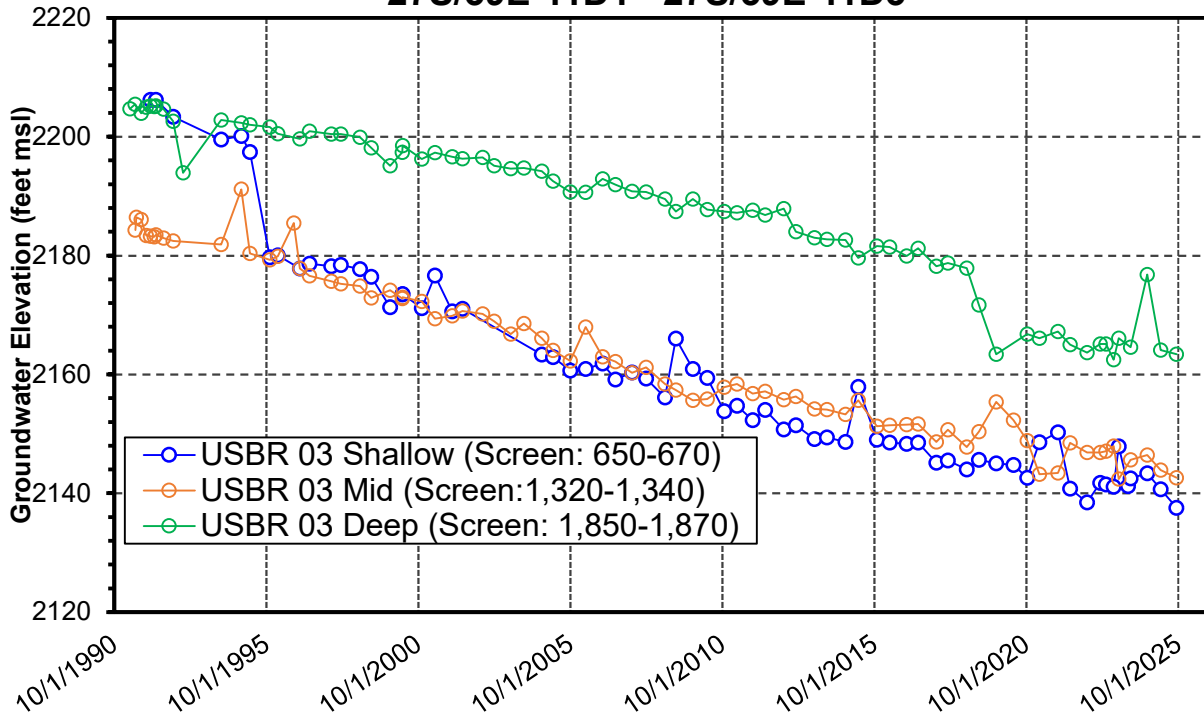
26S/39E-32L1 (2492 ft, msl)



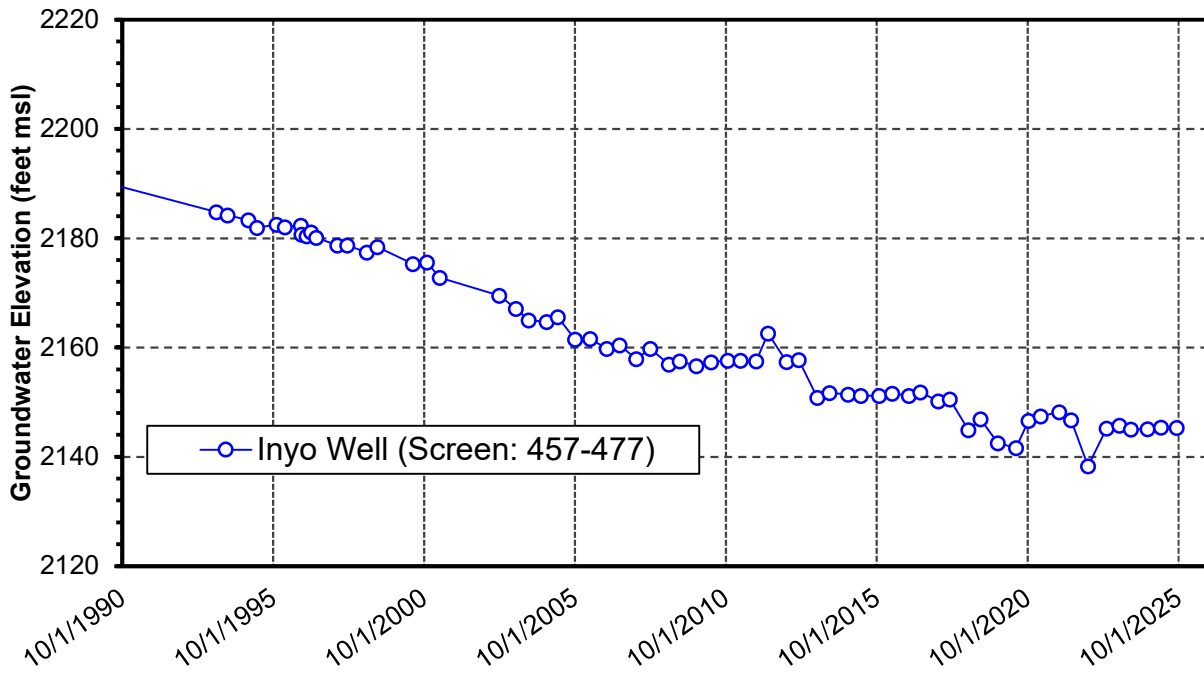
George Air Corridor (2322.64 ft, msl)
Representative Monitoring Site
27S/40E-01K02



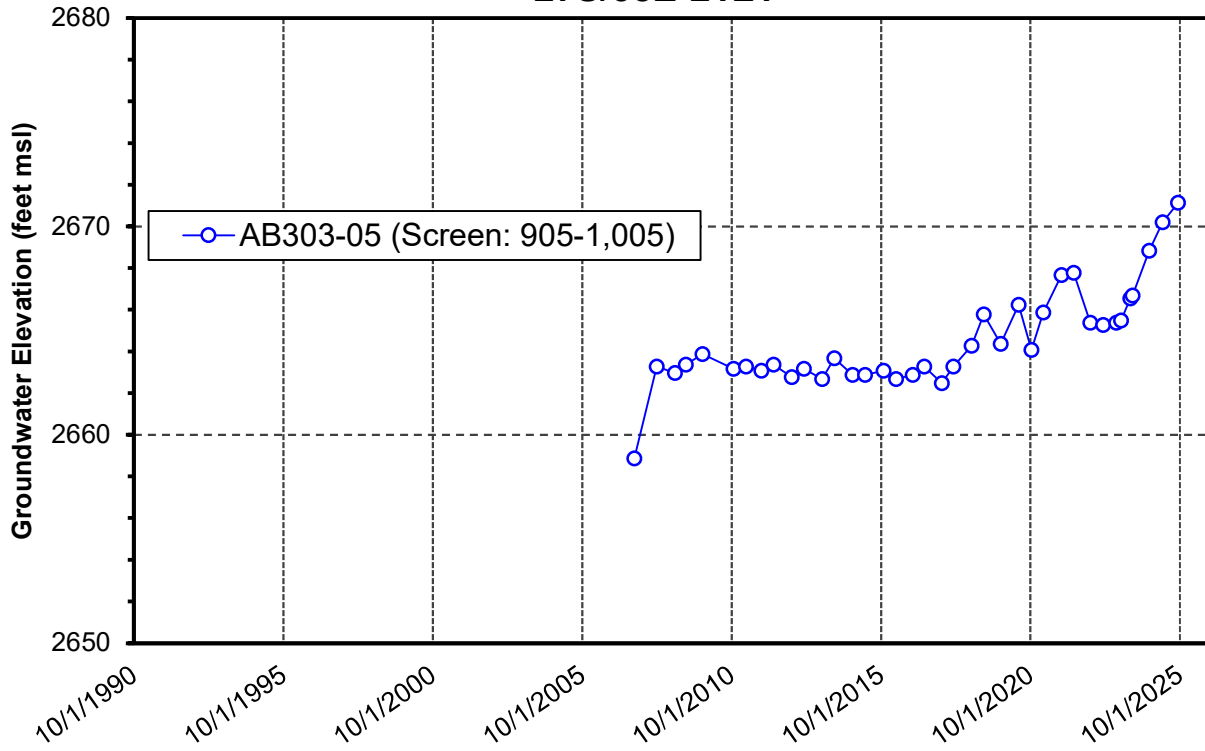
USBR 03 (2510 ft, msl)
Representative Monitoring Site
27S/39E-11D1 - 27S/39E-11D3



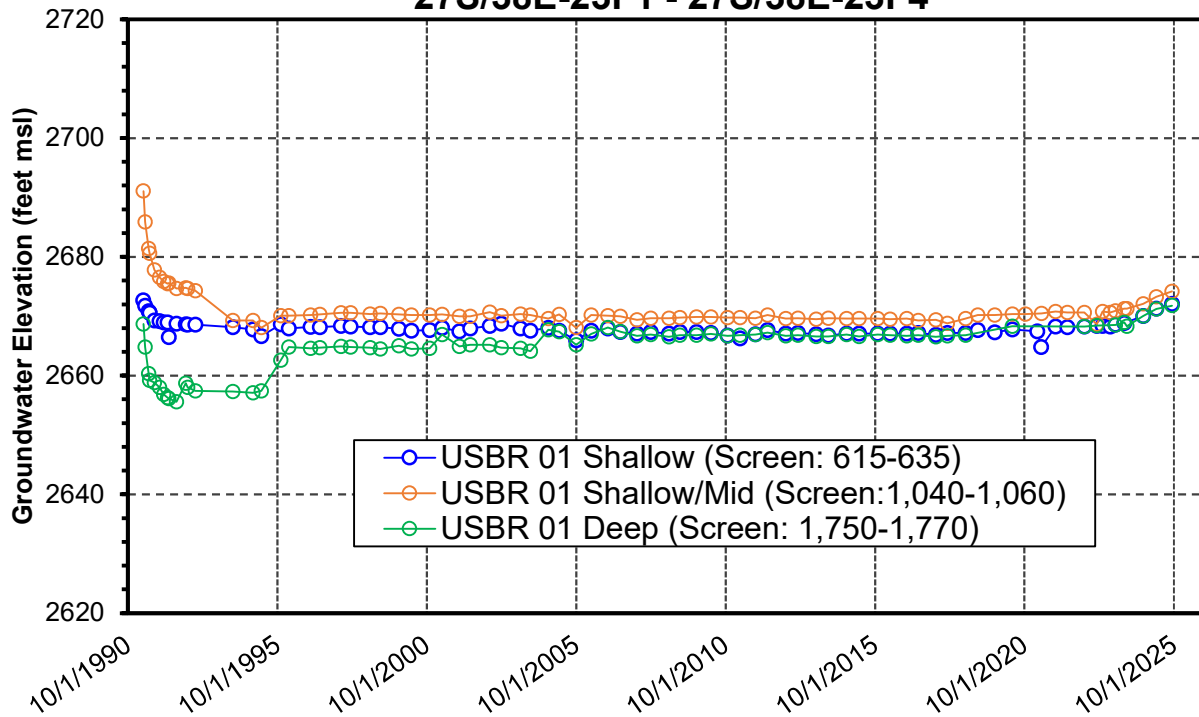
Inyo Well (2564 ft, msl)
Representative Monitoring Site
27S/39E-07R1



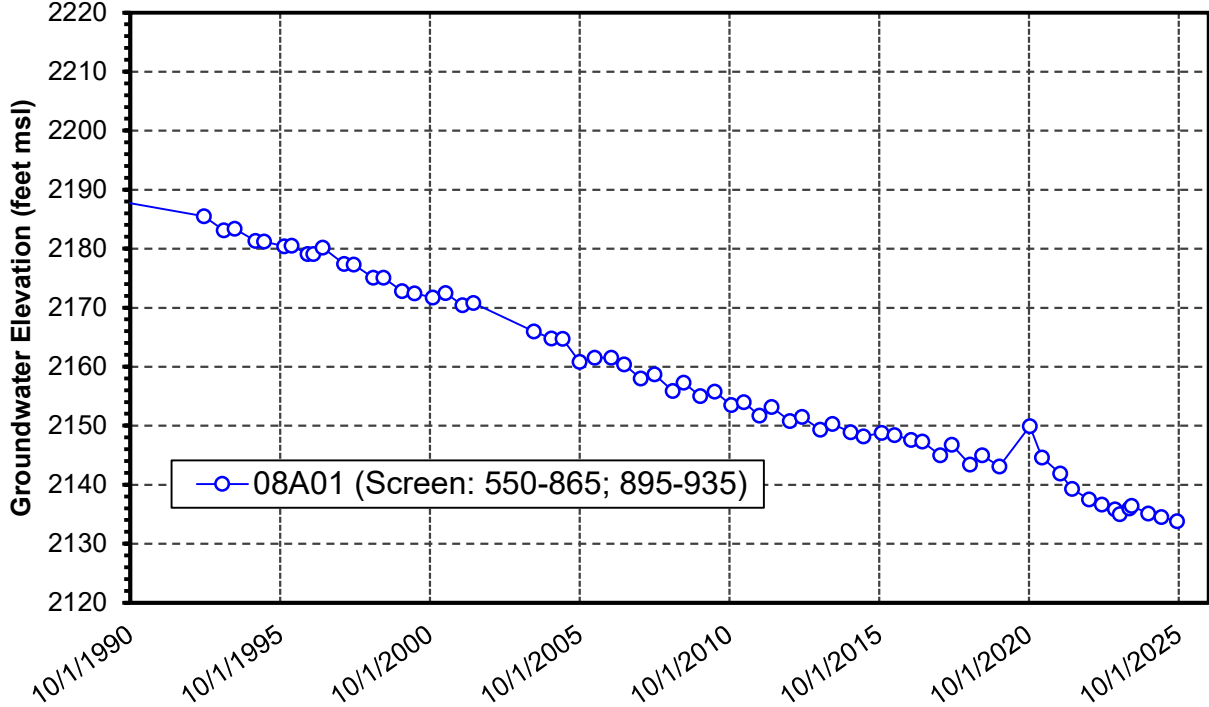
**AB303-05 (3024 ft, msl)
27S/38E-21L1**



**USBR 01 (2851 ft, msl)
Representative Monitoring Site
27S/38E-23F1 - 27S/38E-23F4**



**08A01 (2539 ft msl)
27S/39E-08A01**



Attachment F

Storage Change Estimate Using Thiessen Polygon Method

State ID T/R-S	Common Name	Basin Area	Specific Yield	Surface Area (acres)	Groundwater Level (Feet, msl)										Change (feet)										Storage Change (AF) for Measured Area of IWV Basin										5-Yr Cumm. Change				
					2015	2016	2017	2018	2019	2022	2023	2024	2025	2014- 2015	2015- 2016	2016- 2017	2017- 2018	2018- 2019	2019- 2022	2022- 2023	2023- 2024	2024- 2025	WY 2015	WY 2016	WY 2017	WY 2018	WY 2019	3-year Avg Anl	WY 2023	WY 2024	WY 2025								
24S/38E-33J02		IWV	0.21	3,435	2,175	2,174	2,170	2,173	2,172	2,169	2,168.57									-2.40	-1.0	-3.4	2.9	-1.1	-3.3	-0.9	-0.88	-0.88	-1,731	-721	-2,453	2,092	-794	-2,381	-794	-632	-635	-635	-3,489
25S/39E-22J01	S. Baker Ranch	IWV	0.21	3,600	2,179	2,178	2,178	2,178	2,177	2,176	2,176.04									-0.01	-0.3	-0.3	-0.3	-0.4	-1.1	-0.3	-0.32	-0.40	-4	-263	-263	-204	-280	-805	-268	-242	-242	-302	-1,323
26S/40E-34F01	City of Ridgecrest	IWV	0.21	926	2,146	2,147	2,147	2,146	2,145	2,145	2,145.20									-0.60	0.5	-0.4	-0.6	-0.5	-1.7	-0.1	-0.37	-0.37	-117	97	-78	-107	-107	-321	-107	-17	-72	-72	-374
27S/40E-02J01	DMP Cemetery	IWV	0.21	2,308	2,158	2,162	2,162	2,161	2,161	2,159	2,150.55									-2.20	4.5	-0.2	-0.9	-0.7	-1.2	-8.8	1.60	-1.50	-1,066	2,177	-97	-436	-339	-584	-195	-4,259	776	-727	-4,599
		IWV Main Basin		154,960																																			
		El Paso Subarea		34,011																																			
				188,971																																			



Attachment G

Estimated WY 2025 Groundwater Production

Attachment G: WY 2025 Groundwater Production Estimate

Water Use Sector (DWR)	Water User	No Action Baseline WY 2025		Reported Groundwater Pumping WY 2025		Estimated Groundwater Pumping WY 2025	
		note	(AFY)	note	(AFY)	note	(AFY)
Urban	IWVWD	2	6,707	1	5,731		5,731
Urban	City/County	2	425	1	187	3	247
Industrial	Searles Valley Minerals	2	2,907	1	2,585		2,825
Other - Federal	U.S. Navy	2	2,041		1,325		1,325
Agriculture	Meadowbrook Farms	2	12,303	1	3,441	3	4,000
Agriculture	Mojave Pistachio	2	6,891		3,621		3,621
Agriculture	Simmons Farm	2	931	1	0		0
Agriculture	Sierra Shadows	2	765	1	119	3	237
Agriculture	Quist Farms	2	685	1	541		541
Agriculture	Other Small Ag	2	992	1	38	3	302
Other - Co- Ops/Mutuals/Community Services District	Other - Co- Ops/Mutuals/Community Services District		544	1	83	3	535
Other - Domestic	Domestic	2	832			2	832
			36,024				20,196

Notes:

- 1 Production reported to IWVGA for volumetric production fees and/or transient pool records. (Not all required pumpers report production.)
- 2 Estimated from GSP 'No Action' Baseline analysis.
- 3 Missing data estimated from best available data sources.

Attachment H

WY 2025 Water Quality Data

Table 1

State ID	Other Name	Latitude	Longitude	Well Type	Total Depth (ft, bgs)	Screen Interval (ft, bgs)	Date
25S/38E-14A	Bork	35.76809	-117.85244	DOM	unk	unk	10/23/2024
25S/38E-34A01	Means	35.72453	-117.87024	DOM	480	418.5-479.5	10/23/2024
27S/38E-21L01	AB303-05	35.56985	-117.89592	MW	1045	905-1005	10/24/2024
27S/39E-08A01	08A01	35.60721	-117.79818	MW	955	550-865, 895-935	10/23/2024
27S/40E-01K02	George Air Corridor	35.6147	-117.62469	MW	400	320-380	10/24/2024
25S/38E-03B	03B1	35.79546	-117.87382	MW	360	300-360	10/23/2024
26S/39E-25K01	25K1	35.64041	-117.74023	MW	580	440-540	10/24/2024
26S/38E-01M05	Fields	35.70215	-117.84707	DOM	360	299-359	10/23/2024
25S/39E-12R01	Charley Tower	35.77039	-117.72496	MW	150	60-140	10/24/2024
26S/39E-17G02	Kerr McGee	35.67635	-117.80452	MW	881	681-881	10/24/2024
26S/39E-11E02	Sandquist Spa	35.68857	-117.75647	MW,C	191	135-191	10/24/2024
26S/40E-19N02	19N02	35.65413	-117.72147	MW	267	245-265	10/24/2024

Well Type

MW: Monitoring Well

C: CASGEM Well

DOM: Domestic

Table 2 Water Quality Summary

Sample ID	State ID	Sample Date	Sample Depth (ft bgs)	Specific Conductance (EC) (µmhos/cm)	Total Filterable Residue/TDS (mg/L)	Calculated TDS/EC (multiplier)	Total Hardness (as CaCO ₃) (mg/L)	Total Anions (meq/L)	Total Cations (meq/L)	% difference	Odor Threshold (TON)	Turbidity (NTU)	Total Alkalinity (CaCO ₃) (mg/L)	Bicarbonate HCO ₃ (mg/L)	Carbonate CO ₃ (mg/L)	pH (Lab) (pH Units)
<i>Maximum Contaminant Level (MCL)</i>				1,600	1,000	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	3	5	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>	<i>n/a</i>
14A01	25S/38E-14A	10/23/2024	<i>ubknown</i>	710	410	0.58	240	7.24	7.7	6.2	1	0.34	230	280	ND	7.5
34A01	25S/38E-34A01	10/23/2024	418.5-478.5	880	530	0.60	260	9.32	9.79	4.9	1	ND	370	450	ND	7.5
AB303-05	27S/38E-21L01	10/24/2024	952-955	260	160	0.62	ND	2.64	2.7	3.6	1	3.8	120	110	16	8.7
08A01	27S/39E-08A01	10/23/2024	572-575	430	260	0.60	120	4.02	4.46	10.00	1	9.9	120	140	ND	7.5
George Air Corridor	27S/40E-01K02	10/24/2024	247-250	2,000	1,000	0.50	160	18.8	18.6	1.2	1	33	120	150	ND	7.9
03B1	25S/38E-03B	10/23/2024	347-350	910	580	0.64	350	9.9	10.1	2.2	1	20	330	410	ND	7.5
25K1	26S/39E-25K01	10/24/2024	497-500	430	220	0.51	110	3.76	4.6	19	1	1.5	100	120	ND	7.6
01M05	26S/38E-01M05	10/23/2024	299-359	900	550	0.61	200	8.93	8.83	1.1	1	0.19	160	190	ND	7.6
Charley Tower	25S/39E-12R01	10/24/2024	117-120	1,200	680	0.57	200	12.10	12.3	1.7	1	21	300	370	ND	7.7
Kerr McGee	26S/39E-17G02	10/24/2024	697-700	270	150	0.56	18	2.75	2.75	0.027	1	8.8	110	120	9.1	8.5
Sandquist Spa	26S/39E-11E02	10/24/2024	157-160	600	290	0.48	180	5.74	5.74	0.039	1	0.73	120	150	ND	7.7
19N02	26S/40E-19N02	10/24/2024	252-255	250	150	0.60	35	2.67	2.75	2.7	1	5.6	120	150	ND	8.0

n/a - Non applicable to dataset

ND - Analyte not detected at or above the reporting limit

J - Detected below the Reporting Limit; reported concentration is estimated

Table 2 Water Quality Summary

Sample ID	State ID	Sample Date	Sample Depth (ft bgs)	Chloride (mg/L)	Fluoride (mg/L)	Hydroxide (mg/L)	MBAS (LAS Mole. Wt 340.0) (mg/L)	Nitrate as N (mg/L)	Sulfate (mg/L)	Arsenic (µg/L)	Boron (µg/L)	Calcium (mg/L)	Copper (µg/L)	Iron (µg/L)	Magnesium (mg/L)	Manganese (µg/L)	Potassium (mg/L)	Sodium (mg/L)	Zinc (µg/L)
<i>Maximum Contaminant Level (MCL)</i>				500	2	n/a	0.5	10	500	10	n/a	n/a	1,000	300	n/a	50	n/a	n/a	5,000
14A01	25S/38E-14A	10/23/2024	unknown	30	0.66	ND	ND	1.7	85	2.7	320	64	7.1	ND	20	ND	8.0	61	ND
34A01	25S/38E-34A01	10/23/2024	418.5-478.5	19	0.51	ND	0.052 ^J	0.60	66	4.9	730	66	ND	24	ND	ND	6.3	100	ND
AB303-05	27S/38E-21L01	10/24/2024	952-955	2.8	0.31	ND	ND	0.17 ^J	10	4.6	110	2.3	ND	240	ND	120	0.49 ^J	60	ND
08A01	27S/39E-08A01	10/23/2024	572-575	23	0.67	ND	ND	1.6	50	2.9 ^J	2700	37	15 ^J	13,000	5.6	440	2.4	48	ND
George Air Corridor	27S/40E-01K02	10/24/2024	247-250	540	1.6	ND	ND	ND	49	73	310	54	ND	8500	4.9	290	9.2	350	ND
03B1	25S/38E-03B	10/23/2024	347-350	22	0.76	ND	ND	1.4	120	4.8	220	85	9.9	760	34	22	7.1	66	ND
25K1	26S/39E-25K01	10/24/2024	497-500	29	0.36	ND	0.047 ^J	3.1	46	4.8 ^J	260	36	ND	68 ^J	4.7	1.8 ^J	3.2	53	ND
01M05	26S/38E-01M05	10/23/2024	299-359	80	0.46	ND	ND	0.48	170	1.3 ^J	780	59	7.7 ^J	18 ^J	12	1 ^J	4.3	110	ND
Charley Tower	25S/39E-12R01	10/24/2024	117-120	110	0.66	ND	ND	0.21 ^J	140	26	3,100	41	ND	4,000	25	38	15	180	ND
Kerr McGee	26S/39E-17G02	10/24/2024	697-700	8	2.10	ND	ND	ND	6.5	5.6 ^J	550	5.8	ND	3100	0.9 ^J	71	3.2	53	ND
Sandquist Spa	26S/39E-11E02	10/24/2024	157-160	63	0.46	ND	ND	1.9	71	1.5 ^J	300	59	ND	180	8.1	4.8 ^J	2.9	47	ND
19N02	26S/40E-19N02	10/24/2024	252-255	5.9	0.69	ND	ND	ND	0.46 ^J	2.6 ^J	200	11	13 ^J	81 ^J	1.9	6.4 ^J	8.3	42	140

n/a - Non applicable to dataset

ND - Analyte not detected at or above the reporting limit

J - Detected below the Reporting Limit; reported concentration is estimated

The page intentionally blank

IWVGA Board Meeting
March 11, 2025

Indian Wells Valley WY 2025 Annual Report

Water Year 2025 (October 1 2024 to September 30 2025)

AGENDA ITEM 11



Background

- **SGMA Requirement**
 - Submit annual report to DWR by April 1, reporting on the previous Water Year (WY)
 - Major Components:
 - Progress Toward Sustainability
 - Groundwater Elevation Data
 - Water Supply Data



Annual Report Organization

- Executive Summary
- General Information
- Progress Towards GSP Implementation and Sustainability
- Hydrologic Conditions
- Groundwater Elevation Data
- Water Supply Data
- Other Data Collection and Basin Management Tools

Progress Towards Sustainability

- Major Accomplishments in WY 2025
 - Imported Water Project
 - Received authorization for U.S. Army Corps of Engineers to construct the Project through Water Resources Development Act 2024 under the Environmental Infrastructure provision
 - 60% Design
 - Completed Draft Biological Assessment/Biological Evaluation regarding the desert tortoise and Mojave ground squirrel
 - Executed Lake and Streambed Alteration Agreement with California Department of Fish and Wildlife
 - Discussions and negotiations for the purchase of imported water supplies
 - Contracted with Blue Mountain Development for Program management services
 - Shallow Well Mitigation Program
 - Development of two Shallow Well Consolidation Projects with IWWWD (funded by Urban Community Drought Relief Grant)
 - Completion of first phase of one Shallow Well Consolidation Project
 - Transient Pool
 - Established second Transient Pool for agricultural users

Progress Towards Sustainability

- Sustainable Management Criteria

- Chronic Lowering of Groundwater Levels

- Representative Monitoring Sites and sustainable management criteria were evaluated
 - Currently 9 monitoring sites
 - Water levels at all sites are above minimum thresholds

- Degraded Water Quality

- Representative Monitoring Sites and sustainable management criteria were evaluated
 - Currently 12 monitoring sites
 - Water quality at all sites are below minimum thresholds

- Land Subsidence

- Available data does not indicate any significant land subsidence has occurred in WY 2025.

Hydrologic Conditions

Water Year Types based on Precipitation at China Lake NAF Station (No. 041733)

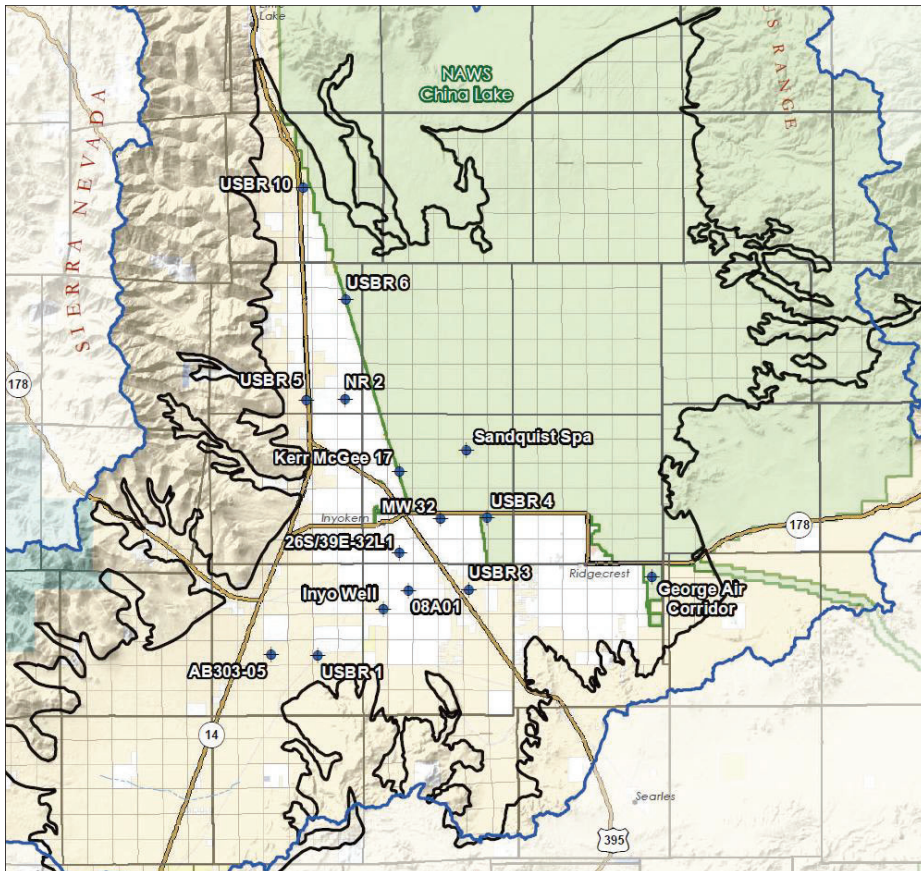
WY	Annual Precipitation (in/yr)	Water Year Type
2015	3.67	N
2016	1.38	BN
2017	4.61	AN
2018	1.43	BN
2019	6.13	W
2020	5.57	AN
2021	0.58	D
2022	1.87	BN
2023	8.27	W
2024	3.41	N
2025	2.48	N

Notes: W = Wet, AN = Above Normal; N = Normal; BN = Below Normal; D = Dry.










Groundwater Elevation Data

- Hydrographs are provided in the Annual Report and are on the Data Management System (DMS). www.iwvgs.com
- Groundwater in Storage

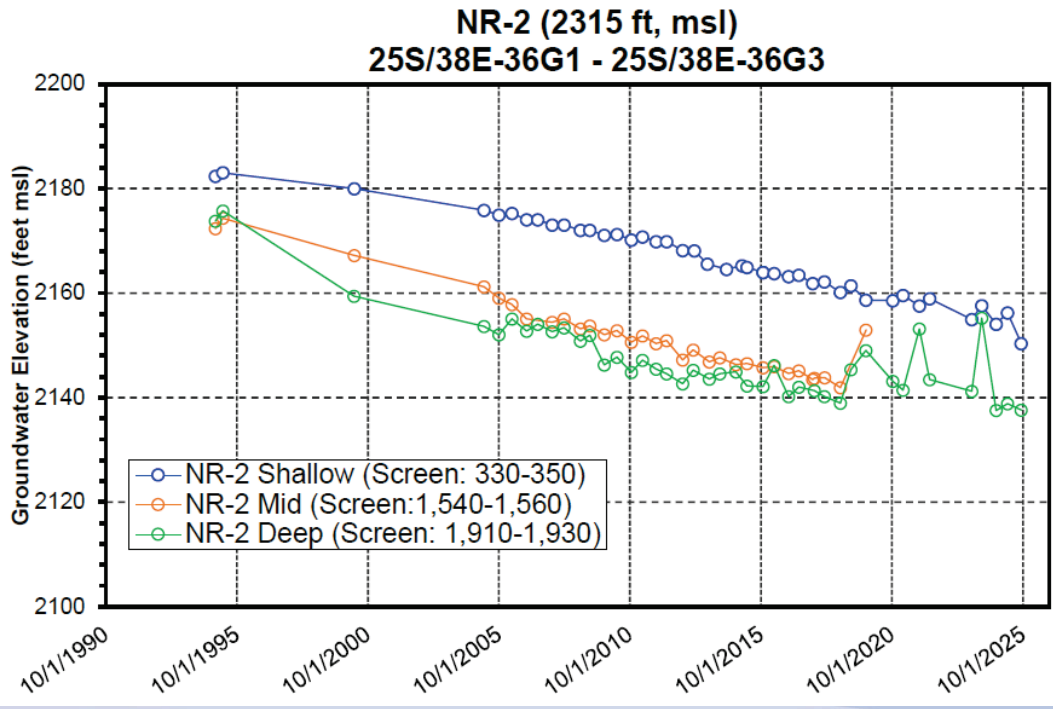
	Thiessen Area (acres)	Average Annual AFY			WY 2023 (AF)	WY 2024 (AF)	WY 2025 (AF)	6-Year Cumulative Change (AF)
		WY 2020 (AF)	WY 2021 (AF)	WY 2022 (AF)				
IWV Main Basin	154,960	-15,883	-15,883	-15,883	-12,370	-9,931	-23,366	-93,314
El Paso Subarea	34,010	2,390	2,390	2,390	-5,513	737	5,310	7,705
Total	188,971	-13,492	-13,492	-13,492	-17,883	-9,194	-18,056	-85,609
Hydrologic Condition		AN	D	BN	W	N	N	



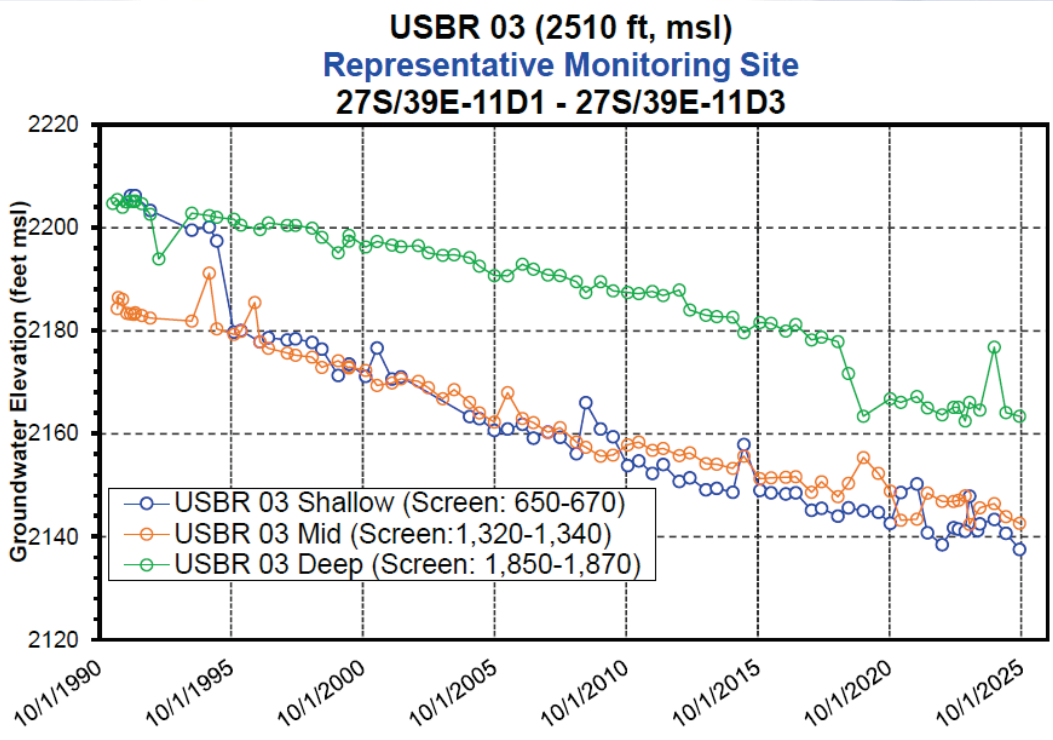
Groundwater Elevation Data – Monitoring Wells

-  Representative Well
-  IWV_Wells_Database
-  Indian Wells Valley GSA
-  Watershed Boundary
-  Bureau of Land Management
-  State
-  Local Government
-  US Forest Service
-  Other

Groundwater Elevation Data - Hydrographs

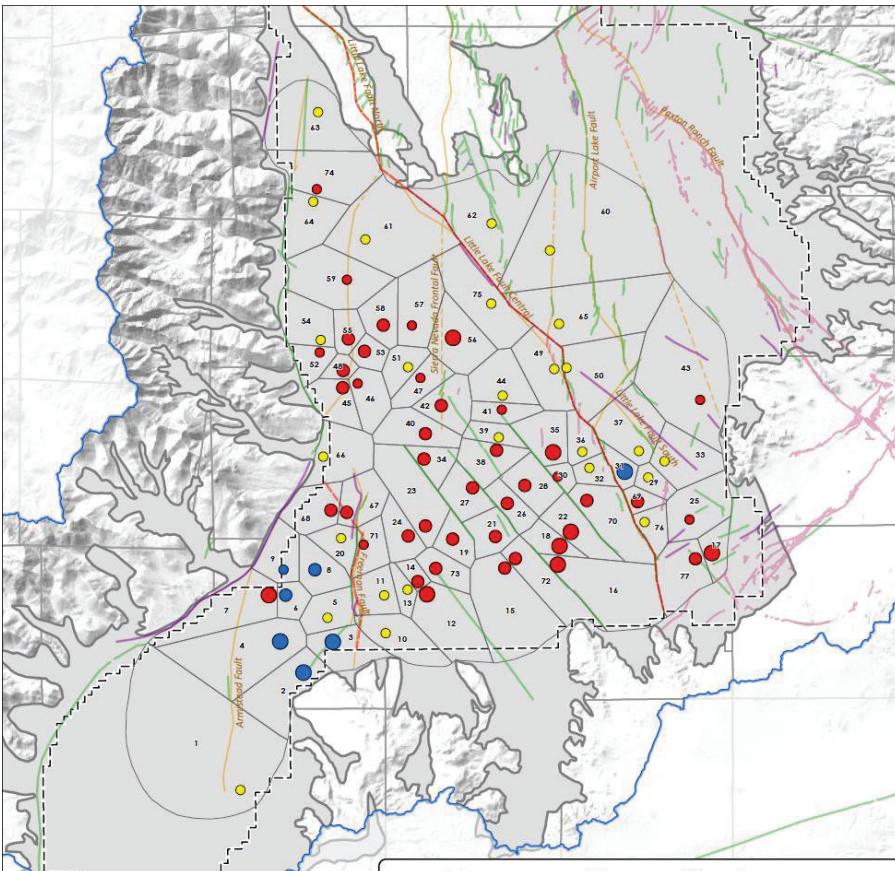
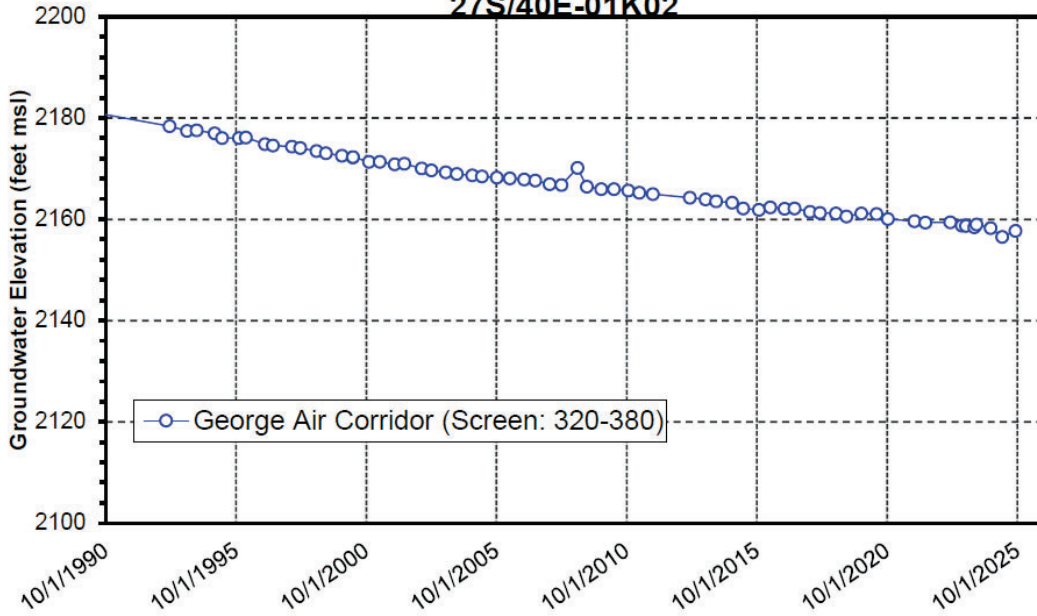


Groundwater Elevation Data - Hydrographs



Groundwater Elevation Data - Hydrographs

**George Air Corridor (2322.64 ft, msl)
Representative Monitoring Site
27S/40E-01K02**



Groundwater Elevation Data – Change in GWLs

Spring 2024-2025

Water Supply Data

- **Groundwater Extraction Data**

- Based on reported groundwater pumping data for extraction fees and best available data from sources available to the IWVGA

Water Use Sector	WY 2025	WY 2025
	Reported Pumping (AF)	Estimated Pumping (AF)
Urban	5,920	5,980
Industrial	2,580	2,820
Agriculture	7,760	8,700
Federal	1,330	1,330
Domestic/Mutuals/Co-Ops	80	1,370
TOTAL	(incomplete)	20,200

Water Supply Data

- **Groundwater Extraction Data**

Water Year	Total Estimated Pumping (AF)
WY 2019	22,800
WY 2020	21,990
WY 2021	20,800
WY 2022	21,160
WY 2023	19,150
WY 2024	20,840
WY 2025	20,200

In WY 2025, the estimated total groundwater production was approximately 2.65 times the estimated sustainable yield of 7,650 indicating overdraft conditions have continued in the IWV.

Next Steps

- Submittal to DWR by April 1
- Continued and ongoing data collection in WY 2026
 - Spring groundwater level data collection in mid-March 2026
- GSP implementation of Project and Management Actions

The page intentionally blank

IWVGA ADMINISTRATIVE OFFICE

STAFF REPORT

TO: IWVGA Board Members **DATE:** March 11, 2026
FROM: IWVGA Water Resources Manager
SUBJECT: **AGENDA ITEM 14 – WATER RESOURCES MANAGER’S REPORT**

AGENDA ITEM 14a – GRANT FUNDING UPDATE

SGMA Implementation Round 1 Update

- Invoice #13
 - Covers July 2025 to September 2025
 - Total requested payment: \$32,759.14
 - Status: Submitted to DWR, awaiting payment.
- Invoice #14
 - Covers October 2025 to December 2025
 - Total requested payment: \$377,862.25
 - Status: Submitted to DWR, awaiting payment.
- Grant Completion Report submitted to DWR on December 31, 2025

Urban Community Drought Relief Program Update

- Invoice #7
 - Covers July 2025 to September 2025
 - Total requested payment: \$15,080.72
 - Status: Submitted to DWR, received payment.
- Invoice #8
 - Covers October 2025 to December 2025
 - Total requested payment: \$9,247.50
 - Status: Submitted to DWR, awaiting payment.

AGENDA ITEM 14b – GSP IMPLEMENTATION PROJECTS/MANAGEMENT ACTION UPDATES

Imported Water Project

- Imported Water Pipeline Design Services
 - Continuing coordination with BLM for a Special Use Permit for pipeline construction
 - Coordinating feedback from BLM on the extent existing roads can be used within the Spangler Hills Off-Highway Vehicle Area

- Authority processing BLM's request for an additional \$25,000 deposit under their existing Reimbursement Agreement with the Authority for review
 - February 19, 2026: Monthly coordination meeting with all Project consultants and WRM Staff to coordinate pathway forward for the Project
 - Continuing ongoing coordination with Caltrans, California Department of Parks and Recreation (Cal Parks), and Southern California Edison (SCE)
 - SCE Staff continuing design of the powerlines between Pump Station No. 2 and Pump Station No. 3
 - Coordinating meeting with Cal Trans to discuss temporary and permanent access routes off Hwy 395 and the Hwy 395 jack and bore crossing.
 - Coordinating finalization of the location of the Hwy 395 crossing
 - Bennett Trenchless will finalize the Draft TM for the trenchless crossings (30% submittal deliverable) to include results of borings into the hydrofracturing analysis that were delayed due to obtaining the California Department of Fish and Wildlife Lake and Streambed Alternation Permit after finalizing the location of the Hwy 395 crossing
 - P&P and Blue Mountain Development continuing analyzing results and design recommendations pursuant to AVEK and Kennedy Jenks's updated hydraulic modeling of the California City Feeder and North Feeder's
 - Next Steps:
 - Finalize the following after analyzing updated AVEK (Kennedy/Jenks) hydraulic modeling results:
 - Tank TM (a 30% submittal deliverable)
 - Electrical Systems and Instrumentation and Controls TM (a 30% submittal deliverable)
 - Refined System Hydraulics and Transient Mitigation Analysis TM (a 30% submittal deliverable)
 - Draft Mechanical Pump Selection (a 30% submittal deliverable)
 - Provide the updated Preliminary Permitting Requirements TM
 - Provide Draft Corrosion Design TM
 - Incorporate additional SCE power infrastructure into design plans after SCE provides preliminary design for power infrastructure
 - Next Milestones
 - Provide 90% Design Submittal after completing the Next Steps above
 - Provide 100% Design Submittal
- Imported Water Pipeline Environmental Services
 - Coordination Meetings
 - Continuing coordination with the BLM
 - Continued to engage with SCE environmental staff and the Project's design consultant on the potential requirements for incorporating the new SCE infrastructure into the Environmental documents
 - February 19, 2026: Monthly coordination meeting with all Project consultants and WRM Staff to coordinate pathway forward for the Project
 - Incorporating Redacted Cultural Report completed by BLM and the US Department of Defense into EA/ EIR
 - SCE reviewing Redacted Cultural Report
 - Draft EA/ EIR joint document to be updated per additional SCE components

- Draft Biological Evaluation to be updated for additional SCE components
- Draft Biological Assessment to be updated for additional SCE component
- Air Quality, Greenhouse Gas, Energy, and Noise reports to be updated for additional SCE components
- Next Steps:
 - Incorporate additional SCE components into EA/EIR after design plans include SCE preliminary design for power infrastructure
 - Provide updated schedule after SCE provides preliminary design to Design consultants
 - Provide draft EA for 45- day Public Comment Period after incorporating SCE into EA/EIR
- Next Milestones:
 - Provide Final EA/ EIR
- Imported Water Pipeline Right-of-Way Services
 - February 19, 2026: Monthly coordination meeting with all Project consultants and WRM Staff to coordinate pathway forward for the Project
 - Continuing Acquisition Services Task, Preliminary Title Report and Appraisal Report tasks
 - Researched roadway and easement rights along the pipeline alignment
 - Staff reviewing draft Right of Way Acquisition Plan
 - Coordinating plats and legal descriptions with Design team
 - Next Milestone:
 - Provide a final Right of Way Acquisition Plan
 - Complete plats and legal descriptions
- Blue Mountain Development (BMD) Program Management Services
 - February 19, 2026: Monthly coordination meeting with all Project consultants and WRM Staff to coordinate pathway forward for the Project
 - February 26, 2026: Held coordination meeting with BLM and WRM Staff regarding Project status
 - Follow up call scheduled for March 24, 2026
 - BMD identifying risk factors with focus on technical, environmental, regulatory, fiscal, project phasing, and schedule impacts
 - Evaluating completeness of environmental documents prior to publication relative to current design technical issues, construction phasing, and long term operations.
 - Evaluating key biological surveys relative to current design, SCE alignment, and BLM requirements
 - Evaluating current design technical issues including AVEK connection, terminus receiving tank, scour issues, Caltrans crossing, and SCE power distribution for lift stations.
 - Evaluating property acquisition strategy integrating construction phasing, and appropriation annual funding
 - BMD coordinating central project document repository with IWVGA WRM Staff
 - Held meeting with AVEK to coordinate an agreement
 - Reviewed P&P Contracts for IWVGA's consideration of the extension of terms
 - Next Steps:
 - Identify risk factors and planning strategies to address and mitigate areas of concern.

- Projected to provide draft for Staff review by early- February 2026
 - Develop Project Completion Action Plan & Recommendations
 - Project Completion Plan & Recommendations shall determine any additional budget required to complete the Project in 2026
- Submittals to DWR
 - Continuing monthly coordination meetings with DWR on IP Grant progress, including coordination on Grant closeout
- National Environmental Protection Agency (EPA) Drinking Water System Infrastructure Resilience and Sustainability Program (Resiliency Grant)
 - In August 2024, the EPA announced their grant of \$2.79 million to the IWVGA for Imported Water Project planning activities
 - Grant will be used as additional funding to complete planning tasks
 - Performance Evaluation No. 1 submitted to EPA on January 30, 2026.
- US Army Corps of Engineers Planning Assistance to States (PAS) Program
 - GA Staff is coordinating with USACE on tasks
 - February 5 and March 6, 2026: Coordination meetings with the Army Corps to discuss scope of work

Shallow Well Mitigation Program

There are currently no active applications. There is an anticipated application from Mr. Matt Jackson on N. Bull Run Street in Inyokern. Mr. Jackson emailed IWVGA on January 16, 2025, and reported that he believes his well is running dry. IWVGA staff responded to Mr. Jackson with the application materials and notified him that the well must be registered with IWVGA. Mr. Jackson submitted an application on March 16, 2025, however a more recent well evaluation is needed to determine the well's flow rate and groundwater level. Mr. Jackson is currently waiting to have Garrison Brothers complete the evaluation.

Periodic Evaluation

- DWR Periodic Review Engagement Meeting on February 10, 2026 with GA staff
 - DWR to present questions from their review of the 2025 Periodic Evaluation.
- DWR staff have requested the IWVGA address the following:
 - Basin continued overdraft with proposed Projects and Management Actions
 - Contingency Plan
 - SVM Settlement
 - Mojave Pistachios and Meadowbrook Dairy Lawsuits
- Staff to prepare letter or memorandum to provide additional information to DWR for presentation to the Board and submittal to DWR by May 1, 2026.

AGENDA ITEM 14c – CONSOLIDATION PROJECTS

- The IWVGA has been awarded \$3,345,000 to consolidate shallow well system(s) into a public water system.
- Two consolidation projects, Rademacher Way and Stark Street, have been identified and

- are currently in the process of being implemented.
- Remaining grant funds after submittal of Progress Report 8: \$3,015,497.94
- Right-of-Way consultants
 - Contract Service Agreement to be executed
- Request for Amendment to Grant Agreement underway
 - Reallocation of funds under Category A: Project Administration and Category B: Land Purchase/Easement to Category C: Planning, Design, Engineering, Environmental Documentation

Rademacher Way

- Phase 1 complete
 - Two properties hooked up to completed pipeline
- Phase 2 design completed and approved by Division of Drinking Water
- Phase 2 construction to begin as early as April, if easements are obtained

Stark Street

- IWVWD Reimbursement Agreement to be executed.
- Emergency LAFCO process underway
- CEQA exemption filing as part of Dune 3
- Dune 3 bidding process waiting on state approval

AGENDA ITEM 14d – MISCELLANEOUS ITEMS

Data Collection and Monitoring

- Ongoing coordination with Navy for planned wellhead surveys and downhole video logging of selected Navy wells.
 - Navy wellhead surveys at Range wells completed week of September 2.
- Fall 2025 water level monitoring and water quality sampling events completed week of September 8.
- Data from Fall 2025 water level monitoring event were compiled and groundwater elevation maps are being compiled.
- Water quality results for samples collected from selected IWV wells week of September 8 were received and processed.
- Downhole Video: Stetson completed video logging of 17 IWV wells the week of November 10.
 - Purpose of downhole video logging to determine well construction details or the nature of obstructions or casing abnormalities, as needed.
 - Project findings will be summarized in internal Stetson memo
- Fall 2025 water levels uploaded to DMS week of December 2.
- During week of December 10
 - Staff used fabricated tools to clear obstructions in USBR1-MD and USBR1-D and to remove floating trash from Navy Well 25C02
 - Staff performed routine maintenance and/or inspection of five Wellintel units
- Stetson, the Navy, and KCWA have scheduled Spring 2026 water level measurement field work week of March 9.
- Staff have identified and are investigating an additional monitoring location involving a City of Ridgecrest detention pond adjacent to Little Lake fault.

Subflow from Rose Valley to IWV

- Ongoing work with BLM regarding Cultural Survey and Permitting for second monitoring well
- Next steps: (1) obtain BLM concurrence on the scope of the cultural/archeological field survey, (2) conduct a cultural/archeological field survey, and (3) BLM Right-of-Way grant
- Periodic correspondence with BLM regarding delayed authorization of archeological survey at proposed RVS-2 well site.
- Continued coordination with BLM on permit to install next RVS Monitoring Well
 - In late October, the new BLM Archeologist, Liz Gonzalez Negrete, contacted Stetson regarding next steps on authorization to complete archeological field survey.
 - BLM requested an updated Request for Work Authorization via email and committed to moving the project forward
 - Updated Request for Work Authorization submitted to BLM
 - Meeting with Epsilon and BLM to discuss the planned archaeological survey to be scheduled in March
 - Permit documents and description of permit status were provided.
- Navy/Coso contract deadline extended to August 31, 2026 for completing the RVS Monitoring Well project.
 - Navy/Coso no-cost extension executed July 8, 2025.
- Reimbursement of RVS-1 well underway
 - Need to cancel “Grants Voucher” submitted in January 2024
 - Grants Voucher rejected by Navy on February 4, 2026
 - Invoice for RVS-1 to be resubmitted for reimbursement week of February 9.

ACTION(S) REQUIRED BY THE BOARD

There are no actions required by the Board.

The page intentionally blank

BUDGET TO ACTUAL REPORT: YEAR-END REPORT WITH JANUARY ACCRUALS

		ACTUALS BY REVENUE ALLOCATION							(A-B)	(B/A)
		Restricted	Restricted	Restricted	Restricted	Restricted	Restricted	\$	\$	%
		Extraction	Augmentation	Shallow	SGMA IP	EPA Grant	Navy/COSO	Estimated	REMAINING	COMPLETED
		Transient Pool		Well Mitigation		UCDR Grant	Fund			
	ORIGINAL									
1	REVENUE									
2	Extraction Fee - Restricted	900,000	799,928	-	-	-	-	799,928	100,072	89%
3	Transfer In/Loan from Augmentation Fund	588,701	-	-	-	-	-	-	588,701	0%
4	Prior Year Fund Balance	283,409	-	-	-	-	-	-	283,409	0%
5	Augmentation Fee	2,180,781	-	1,837,492	-	-	-	1,837,492	343,289	84%
6	Transfer In/Loan Repayment from Extraction Fund	-	-	-	-	-	-	-	-	0%
7	Shallow Well Mitigation Fee	115,000	-	-	93,478	-	-	93,478	21,522	81%
8	Second Transient Pool Fee - Unrestricted		585,334	-	-	-	-	585,334	(585,334)	0%
9	Department of Water Resources (DWR) Grants -IP Grant	731,870	-	-	-	672,228	-	672,228	59,642	92%
10	Urban Community Drought Relief Grant Program	1,625,700	-	-	-	-	234,547	234,547	1,391,153	14%
11	EPA Resilience Grant	2,678,434	-	-	-	-	-	-	2,678,434	0%
12	Navy/COSO Royalty Fund	345,000	-	-	-	-	-	-	345,000	0%
13	Miscellaneous Revenue	-	-	-	-	-	-	-	-	0%
14										0%
15	TOTAL REVENUES	9,448,895	1,385,262	1,837,492	93,478	672,228	234,547	4,223,006	5,225,889	45%
16	EXPENSES									
17	Administration									
18	Administration (RGS)	340,000	171,716	171,716	-	-	-	343,431	(3,431)	101%
19	Office Rent (City of Ridgecrest)	3,600	1,950	1,950	-	-	-	3,900	(300)	108%
20	Office Supplies	1,000	573	573	-	-	-	1,146	(146)	115%
21	Postage and Delivery	360	-	-	-	-	-	-	360	0%
22	External Audit	37,000	9,250	9,250	-	-	-	18,500	18,500	50%
23	Council Chambers/IT Services (City of Ridgecrest)	8,500	1,806	-	-	-	-	1,806	6,694	21%
24	General Counsel (Aleshire & Wynder/City of Ridgecrest)	309,000	224,774	-	-	-	-	224,774	84,226	73%
25	Additional Legal Services (Aleshire & Wynder/City of Ridgecrest)	10,000	-	-	-	-	-	-	10,000	0%
26	Additional Legal Services-Imported Water Pipeline (Aleshire & Wynder)	-	-	-	-	-	-	-	-	0%
27	Insurance Premium	20,000	19,691	-	-	-	-	19,691	309	98%
28	Legal Notices (Daily Independent)	2,000	919	-	-	-	-	919	1,082	46%
29	Memberships (Cal. Assoc.Mutual Water Co)	100	-	-	-	-	-	-	100	0%
30	Printing and Reproduction	-	-	-	-	-	-	-	-	0%
31	Bank Service Charges	100	12	-	-	-	-	12	88	12%
32										
33	Non-Departmental									
34	Other Legal Services (RWG Law)	500,000	-	731,514	-	-	-	731,514	(231,514)	146%
35	Lobbying Services (Capitol Core)	216,625	11,963	204,301	-	-	-	216,264	361	100%
36	Other Professional Services (Garrison Brothers)	-	-	-	-	-	-	-	-	0%
37	California State Lands Commission	140	100	-	-	-	-	100	40	71%
38	Miscellaneous- IWVWD Grant Repayment	-	-	-	-	-	-	-	-	0%
39	Repayment of City of Ridgecrest In-Kind Services	500,000	145,873	354,127	-	-	-	500,000	-	100%
40	Transfer Out/ Loan Repayment to Augmentation Fund	-	-	-	-	-	-	-	-	0%
41	Transfer Out/Loan to Extraction Fund	588,701	-	-	-	-	-	-	588,701	0%

BUDGET TO ACTUAL REPORT: YEAR-END REPORT WITH JANUARY ACCRUALS

		ACTUALS BY REVENUE ALLOCATION							(A-B)	(B/A)	
		Restricted	Restricted	Restricted	Restricted	Restricted	Restricted	\$	\$	%	
		Extraction	Augmentation	Shallow	SGMA IP	EPA Grant	Navy/COSO	Estimated	REMAINING	COMPLETED	
		Transient Pool		Well Mitigation		UCDR Grant	Fund				
	ORIGINAL										
42											42
43	Community Engagement										43
44	Design Services	25,000	-	180,841	-	-	-	180,841	(155,841)	723%	44
45	Printing and Reproduction	10,000	-	-	-	-	-	-	10,000	0%	45
46	Website Services	15,000	-	-	-	-	-	-	15,000	0%	46
47	Website	315	-	-	-	-	-	-	315	0%	47
48											48
49	Shallow Well Mitigation Program										49
50	Shallow Well Mitigation Emergency Assistance Program	50,000	-	-	-	-	-	-	50,000	0%	50
51	Shallow Well Mitigation Program: Outreach and Impacts Eval.(Stetson)	15,000	-	-	6,161	-	-	6,161	8,839	41%	51
52											52
53	NAVY/COSO Program										53
54	Navy/Coso Royalty Fund: Rose Valley MW Permitting, Bid, Drilling (Stetsor)	45,000	215	-	-	-	-	215	44,785	0%	54
55	Navy/Coso Royalty Fund: Develop Projects & Secure Funding (Stetson)	15,000	848	-	-	-	-	848	14,153	6%	55
56	Navy/Coso Royalty Fund: Cooperative Agreement	10,000	2,435	-	-	-	-	2,435	7,565	24%	56
57	Rose Valley Construction	300,000	-	-	-	-	-	-	300,000	0%	57
58											58
59	Basin Management Administration										59
60	Production Reporting, Transient Pool, and Fee Support (Stetson)	35,000	9,335	-	-	-	-	9,335	25,665	27%	60
61	Meetings and Prep (Stetson)	170,000	84,492	84,492	-	-	-	168,985	1,015	99%	61
62	Budget Support (Stetson)	15,000	30,574	-	-	-	-	30,574	(15,574)	204%	62
63	Stakeholder Coordination (Stetson)	5,000	-	-	-	-	-	-	5,000	0%	63
64	Litigation Support (Stetson)	90,000	-	169,814	-	-	-	169,814	(79,814)	189%	64
65											65
66	Basin Management										66
67	General Engineering (Stetson)	50,000	21,695	-	-	-	-	21,695	28,305	43%	67
68	TSS: El Paso Well Drilling Support (Stetson)	-	-	-	-	-	-	-	-	0%	68
69	TSS: General Coordination/Application Support (Stetson)	10,000	-	-	-	-	-	-	10,000	0%	69
70	Coordination with DWR on GSP Review (Stetson)	-	-	-	-	-	-	-	-	0%	70
71	GSP 5-Year Update (Stetson)	100,000	33,174	-	-	-	-	33,174	66,826	33%	71
72	Annual Report Preparation (Stetson)	75,000	36,277	-	-	-	-	36,277	38,724	48%	72
73	Data Management System Support (Stetson)	40,000	35,461	-	-	-	-	35,461	4,539	89%	73
74	Allocation Plan: Allocation Process & Transient Pool Support (Stetson)	-	-	-	-	-	-	-	-	0%	74
75	Allocation Plan and Rules & Regs on Pumping/Restrictions (Stetson)	10,000	-	-	-	-	-	-	10,000	0%	75
76	Allocation Plan: Following & Transient Pool Transfer Program (Stetson)	-	-	-	-	-	-	-	-	0%	76
77	Configuration Management Plan (Stetson)	100,000	-	-	-	-	-	-	100,000	0%	77
78	General Project Management (Stetson)	40,000	20,583	-	-	-	-	20,583	19,418	51%	78
79	Model Transfer and Upgrade (Stetson)	-	14,771	-	-	-	-	14,771	(14,771)	0%	79
80	Data Collection, Monitoring, and Data Gaps (Stetson)	225,000	90,717	-	-	-	-	90,717	134,283	40%	80
81	Imported Water: Negotiations and Coordination(Stetson)	10,000	-	6,831	-	-	-	6,831	3,169	68%	81
82	Imported Water: Engineering and Analysis(Stetson)	-	-	-	-	-	-	-	-	0%	82
83	Recycled Water (Stetson)	25,000	-	106	-	-	-	106	24,894	0%	83
84	Planning Assistance to States: Army Corps Support (Stetson)	50,000	-	119	-	-	-	119	49,881	0%	84

BUDGET TO ACTUAL REPORT: YEAR-END REPORT WITH JANUARY ACCRUALS

		ACTUALS BY REVENUE ALLOCATION							(A-B)	(B/A)
	ORIGINAL	Restricted Extraction Transient Pool	Restricted Augmentation	Restricted Shallow Well Mitigation	Restricted SGMA IP	Restricted EPA Grant UCDR Grant	Restricted Navy/COSO Fund	\$ Estimated	\$ REMAINING	% COMPLETED
85	Basin Management (Cont'd)									
86	Review of Outside Studies and Coordination (Stetson)	15,000	-	-	-	-	-	-	15,000	0%
87	Well Monitoring Services (WellIntel Inc.)	1,700	2,398	-	-	-	-	2,398	(698)	141%
88								-	-	
89	Grant Management									
90	Grant Review and Application Preparation (Stetson)	75,000	3,856	-	-	-	-	3,856	71,144	5%
91	IP Grant Management									
92	IP Grant Administration (Stetson)	11,265	-	-	30,986	-	-	30,986	(19,721)	275%
93	Imported Water :Planning/Design/Environmental (Stetson)	50,000	-	-	49,953	-	-	49,953	47	100%
94	Imported Water :Engagement Outreach (Stetson)									
95	Imported Water :Planning/Design/Environmental (Provost & Pritchard)	520,605	-	-	1,106,535	-	-	1,106,535	(585,930)	213%
96	Imported Water :Planning/Design/Environmental (Blue Mountain)	-	-	-	33,275	-	-	33,275	487,330	6%
97	Pipeline Design					51,018		51,018	(51,018)	0%
98	Mojave Tank Farm									0%
99	CEQ/NEPA					1,509		1,509	(1,509)	0%
100	Imported Water :Planning/Design/Environmental (Transystems)	150,000	-	-	98,316	-	-	98,316	51,685	66%
101	Imported Water :Planning/Design/Environmental (Not Grant Reimb)	37,630	-	-	-	-	-	-	37,630	0%
102	Antelope Valley East Kern Water Agency -Reimb Agreement	-	-	-	75,000	-	-	75,000	(75,000)	0%
103										
104	Urban Community Drought Relief Grant Program									
105	Urban Community Drought Relief Funding Administration (Stetson)	20,000	-	-	-	8,641	-	8,641	11,359	43%
106	Shallow Well Consolidation Project (Stetson)	40,000	-	-	-	9,695	-	9,695	30,305	24%
107	Radmacher Consolidation Project Design	1,615,700	-	-	-	62,192	-	62,192	1,553,508	4%
108										0%
109	EPA Resilience Grant									
110	EPA Grant Administration	26,265	-	-	-	31,724	-	31,724	(5,459)	121%
111	Resilience Grant -Design/Environmental/ROW (Stetson)	116,667	-	-	-	69,443	-	69,443	47,224	60%
112	Resilience Grant - Design (Provost & Pritchard)	1,872,030	-	-	-	-	-	-	1,872,030	0%
113	Resilience Grant - Environmental (Provost & Pritchard)	216,805	-	-	-	-	-	-	216,805	0%
114	Resilience Grant - Mojave Tank Analysis (Provost & Pritchard)	92,182	-	-	-	-	-	-	92,182	0%
115	Resilience Grant - ROW (Transystems)	150,000	-	-	-	-	-	-	150,000	0%
116	City of California City	1,000	-	-	-	-	-	-	1,000	0%
117	Southern California Edison	115,000	-	-	-	-	-	-	115,000	0%
118	Cal Trans	15,000	-	-	-	-	-	-	15,000	0%
119	State Water Resources Control Board	2,985	-	-	-	-	-	-	2,985	0%
120	California Department of Fish & Wildlife	69,500	-	-	-	-	-	-	69,500	0%
121	CalOSHA	1,000	-	-	-	-	-	-	1,000	0%
122	Planning/Design/Env - (Not Grant Reimbursable)	161,120	-	-	-	-	-	-	161,120	0%
123										
124	TOTAL EXPENSES	9,448,895	975,455	1,915,635	6,161	1,394,064	234,222	-	4,525,537	45%
125	Surplus (Deficit)	-	409,806	(78,143)	87,317	(721,835)	325	-	(302,531)	
126										

CASH BALANCE

January 2026 Activity

Cash Receipts (Receipts over \$50,000 and all grants are detailed)

IWVWD Augmentation/Extraction/SWM	\$ -
Second Transient Pool	-
SIGMA IP	-
All Other Cash Receipts -FY 2025	-
Total Cash Receipts	\$ -

Cash Disbursements (Obligation payments are detailed)

Warrants - N/A	
Total Cash Disbursements	\$ -

Cash Balance

Prior Month to Current Month Ending Balance Reconciliation

December Cash Balance By Investment

Kern County Treasurer	\$ 7,712,133.25
AltaOne Credit Union	1,869,105.09
Total End of Month Cash Balance	\$ 9,581,238.34

January Activity

Cash Receipts	\$ -
Cash Disbursements	-
Banking Adjustment Pending	-
Total End of Month Activity	\$ -

January Ending Cash Balance \$ 9,581,238.34

Less: Outstanding Warrants Approved -Pending Processing (215,649.14)

Less: Outstanding Warrants Approved-Pending Processing (213,351.53)

Total Available Cash By Activity **\$ 9,152,237.67**

January Cash Balance by Investment

Kern County Treasurer	\$ 7,712,133.25
AltaOne - In Transit to Kern County	1,869,105.09
Total End of Month Balance	\$ 9,581,238.34
Less: Outstanding Warrants	(429,000.67)
Total Available Cash by Investment	\$ 9,152,237.67

Cash Receipts are deposited in AltaOne Credit Union and sent electronically to Kern County Treasurer. Cash in Transit at month end will be reflected in the Kern County Treasurer balance. Warrants are approved by IWVGA Board and administratively processed by IWVGA staff. Warrants are executed by Kern County staff. Outstanding Warrants are vendor invoices received and not yet paid.

The page intentionally blank



To: April Keigwin, General Manager Indian Wells Valley Groundwater Authority

From: Michael W. McKinney, President Capitol Core Group

cc:

Date: March 5, 2026

Subject: PROJECT UPDATE MEMORANDUM – FEBRUARY 2026 ACTIVITIES

The following will provide an update of project activities for the month of February 2026.

PROJECT 1: IMPORTED WATER SUPPLIES

Capitol Core has completed all negotiation activities and required pre-due-diligence activities pending action by the Board on the Purchase and Sale Agreement. Minimal activity on the 2026 Water Market continues.

PROJECT 2: WATER REPLENISHMENT PIPELINE

The U.S. House of Representatives and United States Senate published their guidelines for the Fiscal Year 2027 Community Project Funding Request/Congressionally Directed Spending Request. Capitol Core has completed and formally submitted all requests to the respective offices.

Project activities concerning transition to USACE continue at the request of Omar Dandashi. As expected, Capitol Core has moved into a support position for this transition and will continue to work, as needed and requested.

PROJECT 3: OTHER PROJECTS SUPPORTING THE GSP

California

The deadline to introduce legislation for the 2025-2026 California Session was February 20, 2026. Approximately 3,000 pieces of legislation were introduced in during February. Capitol Core has completed all initial reviews, and an updated Legislative Report is attached.

The Senate and Assembly Budget Committees have begun their respective review of the 2026 State Budget Act. Under deliberations are the Governor's Proposed Budget, the LAO recommended actions, and staff recommendations.

The page intentionally blank

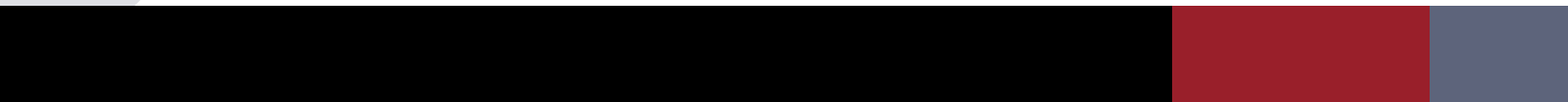
STATUS (February): Introduction Deadline
CA
118th Congressional Session, 1st
2025-2025 California Session



INDIAN WELLS VALLEY GROUNDWATER AUTHORITY
LEGISLATIVE AND POLICY STATUS REPORT



PRIORITY LEGISLATION



PRIORITY BILL DESCRIPTION

Legislation of significant impact on operations or interests. Legislation where a public position may be taken with the legislative body. Updates are provided to staff as they occur, potentially requiring action, and reported herein.

POSITIONS TAKEN



SUPPORT:

Indicating a public position of support with written documentation and active advocacy.



OPPOSE:

Indicating a public position of opposition with written documentation and active advocacy.



NEUTRAL:

Indicating a neutral or no public position taken on the legislation. Legislation is of significance and is being constantly monitored.



AMEND:

Presenting amendment language for consideration that would change the public position from neutral to Support.



OPPOSE UNLESS AMENDED:

Indicating a public position of opposition with written documentation and active advocacy while presenting amendment language for consideration that would remove opposition.



**FEDERAL PRIORITY LEGISLATION
119TH CONGRESSIONAL SESSION**



**CALIFORNIA PRIORITY LEGISLATION
2025-2026 LEGISLATIVE SESSION**

AB 1413 (Papan): Groundwater Adjudication

Version: As Amended 09/02/2025

Position:



Status:

Senate Floor

Senate Committee on Appropriations – DO PASS 5-2

Senate Committee on the Judiciary – DO PASS 10-3

Senate Committee on Natural Resources and Water – DO PASS 4-3

Assembly Floor – Passed 45-21

Assembly Committee on Appropriations – DO PASS 10-4-1

Assembly Committee on the Judiciary – DO PASS 9-3

Assembly Committee on Water, Parks and Wildlife – DO PASS AS
AMENDED 9-4

Summary: This bill would ensure that a comprehensive adjudication of groundwater rights in a basin does not interfere with the timely completion and implementation of a groundwater sustainability plan. Further, it avoids redundancy and unnecessary costs in developing technical information and a physical solution. Lastly, it is consistent with the attainment of sustainable groundwater management within the timeframes established by the Sustainable Groundwater Management Act. Hostile amendments in the Senate Committee on Appropriations have changed IWVGA's position on AB 1413 to oppose. Recommendation is for Author to "park" the bill pending leadership change in the Senate. Amendment at ready for submittal.

NEW: AB 2125 (Bennett): Groundwater Basins: Adjudication: Notification

Version: As Introduced 2/18/2026

Position:



Status: Assembly Desk (pending referral)

Summary: This bill would impose additional requirements on a plaintiff when filing the notice of completion of mailing. The bill would require the plaintiff to include with the notice of completion an affidavit of the person who mailed the notice and the certified or registered mail delivery receipt for each parcel showing the date, time, and place of mailing. The bill would also require the affidavit to be signed by the party to be served or their legally authorized representative. If a return receipt is not received for a parcel of real property, the bill would require the plaintiff to also include with the notice of completion an affidavit of the person who posted the notice specifying the date, time, and physical location of each parcel where the posting occurred, accompanied by a photograph depicting the posted notice.

NEW: SB 997 (Caballero): North Fork Kings Groundwater Sustainability Agency

Version: As Introduced 2/09/2026

Position:

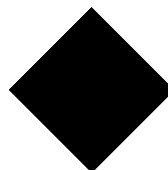


Status: Senate Committee on Natural Resources and Water – Pending Hearing (sequentially referred)

Summary: This bill would authorize the agency to impose civil penalties on any person who extracts groundwater in excess of the amount that person is authorized to extract under a rule, regulation, ordinance, or resolution adopted by the agency. If any charges for water and other services, or civil penalties imposed by the agency pursuant to its authority, remain unpaid, the bill would authorize the amount of unpaid charges or penalties, in the discretion of the agency, to be secured at any time by filing for record in the office of the county recorder of any county a certificate specifying the amount of the charges or penalties and the name and address of the person liable for the charges. The bill would require that, from the time of recordation of the certificate, the amount required to be paid together with interest and penalties would constitute a lien upon all real property in the county owned by the person or afterwards, and before the lien expired, acquired by that person. The bill would require that the lien has the force, priority, and effect of a judgment lien, and that the lien shall continue for 10 years from the date of the filing of the certificate unless sooner released or otherwise discharged. The bill would also authorize the lien to be extended, as provided.



WATCH BILL LIST



WATCH BILL DESCRIPTION

Legislation of interest. The Authority may adopt a “neutral” position or take no public position. No direct advocacy is provided on watch bills. Updates are provided monthly unless the amendment warrants immediate notification to staff.

California “spot bills ” are included in the Watch Bill List. This legislation is a placeholder, making non-substantive changes to the code in anticipation of later amendments to meet legislative deadlines.

FEDERAL LEGISLATION OF INTEREST 119TH CONGRESSIONAL SESSION



None.



S.1760 (Curtis, R-UT): Restoring WIFIA Eligibility Act of 2025

Version: As Reported with Amendments in the Nature of a Substitute

Status: Senate Committee on Budget

Summary: This bill would make a Congressional finding that amounts appropriated to the Water Infrastructure Financing and Investment program are not included within the National debt amounts and clarifies the program as private lending backed by the U.S. government.

NEW: S. 3738 (Padilla, D-CA): The More Water Act

Version: As Introduced 02/18/2026

Status: Senate Committee on Environment and Public Works

Summary: S. 3738 has two sections. The first amends reauthorizes the large-scale (\$500 million or more) water recycling funding assistance program (Western Waters Provision) within the *Infrastructure Investment and Jobs Act* (“Bipartisan Infrastructure Bill”). Reauthorization of this section of

IJA is a priority for California Dems but does not have much support from the Administration.

The second section establishes a competitive grant program for water conveyance projects, and criteria for selecting conveyance projects based on federal benefits, design, and critical needs. The bill also addresses cost-sharing requirements, with federal contributions capped at 50% for conveyance projects, and outlines exceptions for multi-benefit projects. The bill authorizes \$500 million for the Water Conveyance Improvement Program, with specific allocations for environmental restoration activities.

STATE LEGISLATION OF INTEREST 2025-2026 LEGISLATIVE SESSION



NEW: AB 2026 (Aguiar-Curry): Groundwater Recharge

Version: As Introduced 02/18/2026

Status: Assembly Desk (awaiting referral)

Summary: This is an intent bill [spot] dealing with critical, high, and medium priority groundwater basins. The bill states the Legislature's intent to enact future legislation to further increase groundwater storage and remove impediments to recharge in a way that will maximize groundwater recharge while protecting water rights and communities, state and federal water projects, and environmental needs, as provided. and has entered a storage tank, pipeline, or canal for conveyance or distribution

UPDATED: AB 2728 (Soria): Water Delivery Infrastructure

Version: As Introduced 02/20/2026

Status: Assembly Desk (pending referral)

Summary: Spot Bill. **Capitol Core met w/ the Author and amendments are pending.**



UPDATED: SB 1291 (Gonzalez): Water Systems: Consolidations

Version: As Introduced 2/20/2026

Status: Senate Committee on Rules (pending referral)

Summary: "Spot bill" (placeholder) making technical non-substantive changes.
Capitol Core met with the Author to determine the intent of the bill.
Author has not fully decided on amendments but will advise.



FEDERAL AND STATE BUDGETS

FEDERAL FY2025

FEDERAL FY2026

CALIFORNIA FY2025-2026 STATE BUDGET

FEDERAL FISCAL YEAR 2027

No legislation pending.

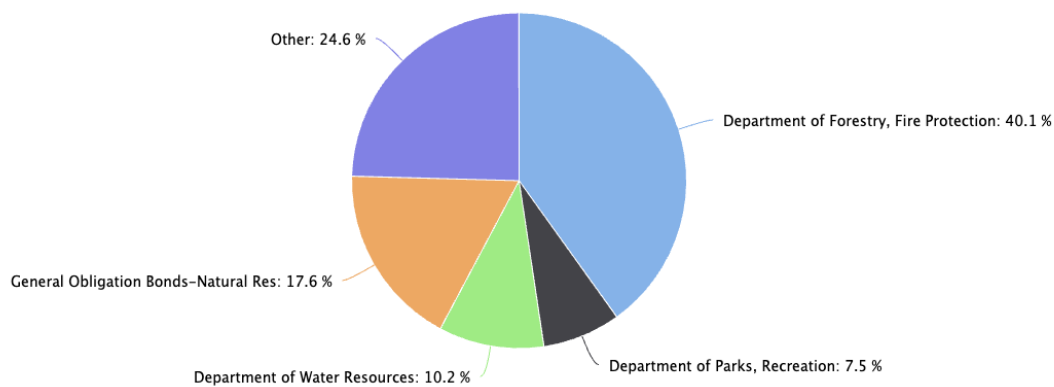
STATE OF CALIFORNIA CALIFORNIA STATE BUDGET ACT FY2026-2027

The budget forecast projects General Fund revenues exceeding earlier estimates by more than \$42 billion across the 2024–25 through 2026–27 period, driven by stronger cash receipts, higher stock market performance, and an improved economic outlook. However, constitutional funding obligations, reserve requirements, and escalating program costs offset these gains, resulting in a projected \$2.9 billion shortfall. Consequently, the proposed budget does not introduce major new spending initiatives and instead emphasizes the continued implementation of prior investments. For the past three (3) fiscal years, budget shortfalls have been balanced through programmatic cuts, program deferrals, and borrowing from other restricted funds. The FY2026-2207 Budget proposal by the Governor continues that trend.

Over the last two fiscal years, the state has withdrawn approximately \$12.2 billion from the Budget Stabilization Account (“BSA” or “Rainy Day Account”) and suspended deposits into the BSA for FY2024-2025 and FY2025-2026. These actions have enabled the state to meet a “balanced budget” by using a portion of these reserves to close prior budget shortfalls. Consistent with these actions, this year’s Budget Proposal suspends a \$2.8 billion “true-up” deposit into the BSA. However, the Budget reflects a BSA deposit in 2026-27 of approximately \$3 billion and a minor "true-up" for fiscal year 2024-25. After accounting for these actions, the BSA balance in 2026-27 is \$14.4 billion—an increase compared to the 2025 Budget Act level of \$11.2 billion.

Natural Resources

The Natural Resources section of the Budget accounts for the vast majority of funding allocated to water projects in California.



The Governor’s Proposed Budget includes \$3.697 billion for water projects during the Fiscal Year, with significant spending in the Delta Levee Program Mitigation (+\$14 million over last year) and State obligations for the San Joaquin River Settlements.

SGMA implementation returns to the State Budget, with \$422.7 million in General Fund for state operations and grants to GSAs to advance the development and implementation of their GSPs. The targeted funding accelerated sustainable groundwater implementation in high- and medium-priority basins, to help GSAs stay on track to meet SGMA’s sustainability goals by 2040.

Proposition 4 allocations accounted for a major share of the FY2025-2026 funding for water projects in the State. This year’s Budget allocates \$2.1 billion in the second year of a \$10 billion multi-year investment plan. Funding is primarily targeted at underserved communities, economically disadvantaged areas, and tribal lands.

Climate Bond Expenditure Plan
(Dollars in Millions)

Investment Category	Bond Allocation	2025-26 Appropriated	2026-27 Proposed	Out-Years
Safe Drinking Water, Drought, Flood & Water Resilience	\$3,800	\$1,199	\$792	\$1,809
Wildfire & Forest Resilience	\$1,500	\$417	\$314	\$769
Coastal Resilience	\$1,200	\$279	\$107	\$814
Extreme Heat Mitigation	\$450	\$110	\$241	\$99
Biodiversity & Nature-Based Solutions	\$1,200	\$390	\$199	\$611
Climate Smart Agriculture	\$300	\$154	\$89	\$57
Outdoor Access	\$700	\$466	\$35	\$199
Clean Air & Energy	\$850	\$275	\$326	\$249
Total	\$10,000	\$3,290	\$2,104	\$4,606

The FY2026-2027 Proposal provides \$173 million for drinking water projects serving small or disadvantaged communities or tribes, addressing failing water systems and systems at risk of failure, as well as failing private wells. Funding will also support wastewater projects serving small or disadvantaged communities that address a violation or connect unsewered homes to a centralized wastewater system.

The Governor’s request also provides \$68.8 million to support repairs to existing or new water conveyance projects. In 2026-27, the Department of Natural Resources Agency will prioritize funds for repairs to existing infrastructure. The remaining funding will be awarded as competitive grants for new conveyance projects that deliver regional or interregional benefits, such as water supply reliability, safe drinking water, increased groundwater recharge, and improvements to water security. Thus, providing a grant opportunity for FMWD.



BILLS REMOVED FROM REPORT

Legislation no longer of interest to the Authority or legislation having a final action previously reported.

BILLS REMOVED SINCE LAST MONTH

None at this time.

The page intentionally blank