

ARROYO SANTA ROSA VALLEY BASIN
GROUNDWATER SUSTAINABILITY AGENCY

BOARD MEETING AGENDA
THURSDAY, MARCH 27, 2025
4:45 P.M.

MEMBERS OF THE BOARD

ARNE ANSELM, *Ventura County Public Works Agency*
JEFFREY C. BROWN, *Camrosa Water District*
TERRY L. FOREMAN, *Camrosa Water District*
TIMOTHY H. HOAG, *Camrosa Water District*
ANDREW F. NELSON, *Camrosa Water District*
EUGENE F. WEST, *Camrosa Water District*

ALL AGENDA DOCUMENTS ARE AVAILABLE ONLINE
AT WWW.ASRGSA.COM

Camrosa Water District - 7385 Santa Rosa Road - Camarillo, CA 93012

CALL TO ORDER

PUBLIC COMMENTS

At this time, the public may address the Board on any item not appearing on the agenda that is subject to its jurisdiction. Persons wishing to address the Board must fill out a speaker card and are subject to a five-minute time limit.

CONSENT AGENDA

Matters appearing on the Consent Agenda are expected to be noncontroversial and will be acted upon by the Board collectively, without discussion, unless a member of the Board or staff requests an opportunity to address a given item. Approval by the Board of Consent Items means that the recommendation of staff is approved along with the terms and conditions described in the Board Memorandum.

- 1. Approve the Minutes of the January 9, 2025 Regular Meeting**
- 2. Vendor Payments Ratification**
Approve vendor payments as presented by staff.
- 3. Fiscal Year 2024-25 Second-Quarter Results**
Receive FY 2024-25 second-quarter results.

PRIMARY AGENDA

- 4. Establishment of an Ad Hoc Committee**
Create an Ad Hoc Committee for further development of ASRBGSA functions.
- 5. Adopt Annual GSP Report for Water Year 2024**
Adopt the annual GSP Report for submittal to the DWR by April 1, 2025.

COMMENTS BY THE INTERIM EXECUTIVE DIRECTOR; COMMENTS BY DIRECTORS

ADJOURNMENT

ARROYO SANTA ROSA VALLEY BASIN GROUNDWATER SUSTAINABILITY AGENCY

MINUTES OF THE MEETING OF THE BOARD

January 9, 2025

4:45 P.M.

Camrosa Water District, 7385 Santa Rosa Road, Camarillo, CA 93012

MEMBERS OF THE BOARD

ARNE ANSELM, *Ventura County Public Works Agency*
JEFFREY C. BROWN, *Camrosa Water District*
TERRY L. FOREMAN, *Camrosa Water District*
TIMOTHY H. HOAG, *Camrosa Water District*
ANDREW F. NELSON, *Camrosa Water District*
EUGENE F. WEST, *Camrosa Water District*

CALL TO ORDER The meeting was called to order at 4:45 P.M.

Present: Arne Anselm
 Jeffrey Brown
 Terry Foreman
 Timothy Hoag
 Andrew Nelson
 Eugene West

Staff: Norman Huff, Interim Executive Director
 Jozi Zabarsky, Camrosa Water District

PUBLIC COMMENTS

None

CONSENT AGENDA

1. **Approve Minutes of the Regular Meeting of September 26, 2024**
2. **Vendor Payments Ratification**

Motion to approve the Consent Agenda: West. Second: Nelson
Motion carried unanimously.

PRIMARY AGENDA

3. **Accept Nominations for the Santa Rosa GSA Board Officers and Accept the 2025 Calendar**

The Board took the following actions:

- 1) Accepted nominations to elect Chair and Vice Chair of the GSA: Eugene West nominated the current slate of officers, Terry Foreman as Chair and Eugene West as Vice Chair.

Second: Brown.

Motion carried unanimously.

- 2) Adopted the Camrosa Water District's Board Calendar to establish the Arroyo Santa Rosa Valley Basin GSA's regularly scheduled meetings.

Motion to approve: Nelson. Second: Anselm.

Motion carried unanimously.

4. Fiscal Year 2024-25 First Quarter Results

The Board received FY 2024-25 first quarter results.

No action was necessary; for information only.

COMMENTS BY THE INTERIM EXECUTIVE DIRECTOR

None

COMMENTS BY THE BOARD OF DIRECTORS

Director Nelson requested a discussion of an ad hoc committee on the next agenda.

ADJOURN

There being no further business, the meeting was adjourned at 4:48 p.m.

Norman Huff
Interim Executive Director
Arroyo Santa Rosa Valley Basin GSA

_____ (ATTEST)
Terry L. Foreman, Chair
Board of Directors
Arroyo Santa Rosa Valley Basin GSA

ARROYO SANTA ROSA VALLEY BASIN

GROUNDWATER SUSTAINABILITY AGENCY

Camrosa Water District - 7385 Santa Rosa Road - Camarillo, CA 93012

MEMBERS OF THE BOARD

ARNE ANSELM, *Ventura County Public Works Agency*
 JEFFREY C. BROWN, *Camrosa Water District*
 TERRY L. FOREMAN, *Camrosa Water District*
 TIMOTHY H. HOAG, *Camrosa Water District*
 ANDREW F. NELSON, *Camrosa Water District*
 EUGENE F. WEST, *Camrosa Water District*

BOARD MEMORANDUM

DATE: March 27, 2025

TO: Board of Directors

FROM: Norman Huff, Interim Executive Director

OBJECTIVE: Ratify Vendor Payments as presented by staff.

ACTION: Ratify accounts payable.

DISCUSSION: A summary of accounts payable previously paid by the Arroyo Santa Rosa Valley Basin Groundwater Sustainability Agency in the amount of \$39,034.27 is provided for Board information and ratification.

| Check Number | Post Date | Vendor Name | Invoice Number | Description | Amount |
|------------------------------|------------|------------------------|----------------|--|---------------------|
| | 12/30/2024 | US Bank | | Bank Fees | 39.20 |
| | 1/31/2025 | US Bank | | Bank Fees | 39.12 |
| 144 | 2/5/2025 | Camrosa Water District | 2013 | ACH Payment for BON01-102-04 Annual report, compile DDW water quality data | 463.75 |
| 145 | 2/5/2025 | Intera | 12-24-89 | Annual Report Update | 1,215.00 |
| 146 | 2/19/2025 | Camrosa Water District | 2014 | ACH Payment for BON01-102-05 Compile groundwater level data | 66.25 |
| | 2/28/2025 | US Bank | | Bank Fees | 45.95 |
| 147 | 3/5/2025 | Intera | 01-25-118 | Annual Report Update | 14,500.00 |
| 148 | 3/19/2025 | Camrosa Water District | 2016 | ACH Payment for BON01-102-06 Review draft annual report | 662.50 |
| 149 | 3/19/2025 | Intera | 02-25-39 | Annual Report Update | 22,002.50 |
| Total Vendor Payments | | | | | \$ 39,034.27 |

The ASRVBGSAs bank account as of February 28, 2025, was \$205,238.44.

ARROYO SANTA ROSA VALLEY BASIN

GROUNDWATER SUSTAINABILITY AGENCY

Camrosa Water District, 7385 Santa Rosa Road, Camarillo, CA 93012

MEMBERS OF THE BOARD

ARNE ANSELM, *Ventura County Public Works Agency*
 JEFFREY C. BROWN, *Camrosa Water District*
 TERRY L. FOREMAN, *Camrosa Water District*
 TIMOTHY H. HOAG, *Camrosa Water District*
 ANDREW F. NELSON, *Camrosa Water District*
 EUGENE F. WEST, *Camrosa Water District*

BOARD MEMORANDUM

DATE: March 27, 2025

TO: Board of Directors

FROM: Norman Huff, Interim Executive Director

OBJECTIVE: Receive Fiscal Year 2024-25 Second-Quarter Results.

ACTION: No action is necessary; for information only.

SUMMARY: The GSA Fiscal Year 2024-25 second-quarter results are as follows:

| Arroyo Santa Rosa GSA | Budget FY 24-25 | 2nd QTR Actuals | Encumbrances | 2nd QTR Actuals plus encumb | Variance |
|--|--------------------|--------------------|--------------|-----------------------------------|--------------|
| Transfer In | | | | | |
| Camrosa Water District | | | | | |
| Contribution Budgeted | \$ 80,000 | \$ - | \$ - | \$ - | \$ (80,000) |
| Transfer from Reserves | 195,375 | 8,341 | - | 8,341 | (187,034) |
| | \$ 275,375 | \$ 8,341 | \$ - | \$ 8,341 | \$ (267,034) |
| Operating Expenses | | | | | |
| Professional Services | \$ 251,775 | \$ 796 | \$ 74,407 | \$ 75,204 | \$ 176,571 |
| Materials & Supplies | 5,600 | - | - | - | 5,600 |
| Legal Services | 10,000 | 2,065 | - | 2,065 | 7,935 |
| Dues & Subscriptions | 5,000 | 4,060 | - | 4,060 | 940 |
| Fees & Charges | 1,000 | 295 | - | 295 | 705 |
| Insurance | 2,000 | 1,125 | - | 1,125 | 875 |
| <u>Total Operating Expenses</u> | \$ 275,375 | \$ 8,341 | \$ 74,407 | \$ 82,748 | \$ 192,627 |

ARROYO SANTA ROSA VALLEY BASIN

GROUNDWATER SUSTAINABILITY AGENCY

Camrosa Water District, 7385 Santa Rosa Road, Camarillo, CA 93012

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ANDREW F. NELSON, *Camrosa Water District*

EUGENE F. WEST, *Camrosa Water District*

BOARD MEMORANDUM

DATE: March 27, 2025

TO: Board of Directors

FROM: Norman Huff, Interim Executive Director

OBJECTIVE: Establishment of an Ad Hoc Committee for Further Development of Groundwater Sustainability Agency (GSA) Functions.

ACTION: Establish an Ad hoc Committee.

PURPOSE: Effective groundwater management is crucial to ensuring the long-term sustainability of the basin. Significant aspects of managing these efforts include management actions, projects, stakeholder engagement, cost allocation and recovery, and other essential GSA functions. To ensure a focused and structured approach to these efforts, the formation of an ad hoc committee dedicated to exploring these critical areas and providing recommendations to the Board, can be an effective tool.

RECOMMENDATION:

It is recommended that the Board approve the formation of an ad hoc committee and appoint Board members to serve on it.

ARROYO SANTA ROSA VALLEY BASIN

GROUNDWATER SUSTAINABILITY AGENCY

Camrosa Water District - 7385 Santa Rosa Road - Camarillo, CA 93012

MEMBERS OF THE BOARD

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TIMOTHY H. HOAG, *Camrosa Water District*

ANDREW F. NELSON, *Camrosa Water District*

EUGENE F. WEST, *Camrosa Water District*

BOARD MEMORANDUM

- DATE:** March 27, 2025
- TO:** Norman Huff, Interim Executive Director
- FROM:** Terry Curson, District Engineer, Camrosa Water District
- OBJECTIVE:** Adopt the Water Year 2024 Annual Report for Submittal to the Department of Water Resources.
- ACTION:** Adopt the Water Year 2024 Annual Report.
- DISCUSSION:** An Annual Report is required to be prepared and submitted to the Department of Water Resources (DWR) by April 1, of every year, for all basins with a GSP. The report acts as a yearly status update and presents data gathered over the previous water year for each applicable sustainability indicator and provides an analysis of that data in relation to the sustainable management criteria established in the GSP. The report also identifies any issues or data gaps that still exist in the basin and provides an implementation status update on all the projects and management actions identified in the GSP. The Water Year 2024 Annual Report has been completed and is ready for adoption by the Board and submission to the DWR.

Arroyo Santa Rosa Valley Groundwater Basin

Annual Report Water Year 2024



April 2025

Prepared for

Fox Canyon Groundwater Management Agency and
Arroyo Santa Rosa Basin Groundwater Sustainability Agency



ASRGSA

Arroyo Santa Rosa
Basin Groundwater
Sustainability Agency

Arroyo Santa Rosa Valley Groundwater Basin Annual Report Water Year 2024

Prepared for



ASRGS

Arroyo Santa Rosa
Basin Groundwater
Sustainability Agency

Fox Canyon Groundwater Management Agency and
Arroyo Santa Rosa Basin Groundwater Sustainability Agency

Prepared by



Bondy Groundwater Consulting, Inc.

Bryan Bondy, PG, CHG
Project Manager

and



Steven Humphrey, PG, CHG
Senior Hydrogeologist

Executive Summary

§356.2 Annual Reports. *Each Agency shall submit an annual report to the Department by April 1 of each year following the adoption of the Plan. The annual report shall include the following components for the preceding water year:*

(a) General information, including an executive summary and a location map depicting the basin covered by the report.

The Arroyo Santa Rosa Basin Groundwater Sustainability Agency (ASRGSA) and Fox Canyon Groundwater Management Agency (FCGMA) (the GSAs) adopted the Groundwater Sustainability Plan (GSP) for the Arroyo Santa Rosa Valley Groundwater Basin (ASRVGB, or Basin) on May 25, 2023, and this is the second Annual Report in compliance with California Code of Regulations §356.2. The GSP included data collected within the Basin through water year 2021; therefore, the first Annual Report included data collected during water years 2022 and 2023 (ASRGSA and FCGMA, 2024). This second annual report reports data and findings for water year 2024.

The water year type for 2024 was determined to be wet based on precipitation data. Basin-wide measured groundwater levels were generally higher in water year 2024 compared to water year 2023, except for the area with wells 02N20W24Q03S, 02N20W25C05S, and 02N20W25D01S. Groundwater level trends for individual wells in 2024 were generally upward (increasing), except for the pumping wells in the southwestern portion of the Basin. Groundwater quality generally remained stable for water year 2024, compared to historical data.

Groundwater extraction rates for water year 2024 were near the historical average (i.e., pre-2019) due to the Camrosa Water District Conejo wellfield coming back online after treatment was initiated in October 2023. Change in storage for the Basin was calculated using the updated numerical groundwater model of the Basin. Storage decreased for water year 2024 in comparison to the previous water year 2023, which is primarily due to the lower groundwater levels in the vicinity of the Conejo pumping wells. Total water use within the Basin by agricultural, municipal, and domestic users is sourced from groundwater and imported water from outside of the Basin. Estimated total water use in the Basin for water year 2024 was 4,434 acre-feet per year (AFY).

GSP implementation is evaluated through comparing monitoring data to Sustainable Management Criteria (SMC) for each applicable sustainability indicator: chronic lowering of groundwater levels, reduction of groundwater storage, land subsidence, degraded water quality, and depletion of interconnected surface water. Groundwater levels measured in water year 2024 were compared to SMC established for chronic lowering of groundwater levels, reduction of groundwater storage (which has groundwater levels as a proxy), and land subsidence (which has groundwater levels as a proxy) sustainability indicators, and no monitoring wells exceeded the minimum threshold in water year 2024. Most of the wells met measurable objectives; two wells were between the minimum threshold and 5-year interim milestone, and one well met the 5-year interim milestone. For the degraded water quality sustainability indicator, all analyzed constituents met measurable objectives for water year 2024; however, water quality data for water year 2024 were not available for the FCGMA management area. For the depletion of interconnected surface water sustainability indicator, modeled depletion results indicate the measurable objective was met for water year 2024.

Progress for two GSP projects described in the GSP (ASRGSA and FCGMA, 2023) included ongoing feasibility studies for the installation of desalter wells and recharge basins.

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Acronyms and Abbreviations

| | |
|---------|--|
| AFY | acre-feet per year |
| ASRGSA | Arroyo Santa Rosa Basin Groundwater Sustainability Agency |
| ASRVGB | Arroyo Santa Rosa Valley Groundwater Basin |
| Basin | Arroyo Santa Rosa Valley Groundwater Basin |
| Camrosa | Camrosa Water District |
| CCWTMP | Calleguas Creek Watershed TMDL Compliance Monitoring Program |
| CMWD | Calleguas Municipal Water District |
| DMS | Data Management System |
| DWR | Department of Water Resources |
| FCGMA | Fox Canyon Groundwater Management Agency |
| GSAs | Arroyo Santa Rosa Basin Groundwater Sustainability Agency and the Fox Canyon Groundwater Management Agency |
| GSP | Groundwater Sustainability Plan |
| InSAR | interferometric synthetic aperture radar |
| ISW | interconnected surface water |
| M&I | Municipal and Industrial |
| mg/L | milligrams per liter |
| SGMA | Sustainable Groundwater Management Act |
| SMC | sustainable management criteria |
| TCP | 1,2,3-trichloropropane |
| TDS | total dissolved solids |
| TMDL | total maximum daily load |
| VCWPD | Ventura County Watershed Protection District |
| WQO | Water Quality Objective |
| WWTP | Wastewater Treatment Plant |

1.0 Introduction [§356.2(a)]

§356.2 Annual Reports. *Each Agency shall submit an annual report to the Department by April 1 of each year following the adoption of the Plan. The annual report shall include the following components for the preceding water year:*

(a) General information, including an executive summary and a location map depicting the basin covered by the report.

This document is the second Annual Report for the Arroyo Santa Rosa Valley Groundwater Basin (California Department of Water Resources [DWR] Basin No. 4-007; referred to herein as ASRVGB or Basin), fulfilling requirements set forth by the Sustainable Groundwater Management Act (SGMA) Groundwater Sustainability Plan (GSP) Regulation Code §356.2. The GSP was adopted by the Arroyo Santa Rosa Basin Groundwater Sustainability Agency (ASRGSA) and the Fox Canyon Groundwater Management Agency (FCGMA) (collectively referred to as the GSAs) on May 25, 2023. The GSP reports data through water year 2021 (ending September 30, 2021) for the Basin. The first Annual Report presented data and information for water years 2022 and 2023 (ASRGSA and FCGMA, 2024).

This second Annual Report presents data and information for water year 2024. The numerical groundwater model developed for the GSP was updated for this Annual Report to simulate water year 2024 and was used to calculate groundwater flow directions, groundwater extraction, change in groundwater in storage, and streamflow depletion for the Basin.

To track progress of the GSP implementation, water year 2024 data are compared against Sustainable Management Criteria (SMC) established in the adopted GSP (ASRGSA and FCGMA, 2023). This Annual Report also provides updates to the status of projects and management actions described in the adopted GSP.

1.1 Background

The ASRVGB is classified by the DWR as a very low-priority groundwater subbasin. The Basin is located in the center of the Calleguas Creek Watershed in the rural unincorporated community of Santa Rosa Valley, the southeastern portion of Ventura County near the City of Thousand Oaks, and the City of Camarillo (Figure 1.1). The Basin is bordered by the Tierra Rejada Groundwater Basin (DWR Basin No. 4-015) to the east, the Conejo Valley Groundwater Basin (DWR Basin No. 4-010) to the south, the Pleasant Valley Groundwater Basin (DWR Basin No. 4-006) to the west, and the Las Posas Valley Groundwater Basin (DWR Basin No. 4-008) to the north. The Basin is managed by two GSAs: the FCGMA covering the portion of the Basin within its jurisdictional boundary (i.e., the portion west of the Bailey Fault) and the ASRGSA covering the portion of the Basin outside the FCGMA jurisdictional boundary (i.e., the portion east of the Bailey Fault) (Figure 1.2).

The ASRVGB is in an elongated east-trending valley and consists of multiple layers of alternating fine- and coarse-grained unconsolidated deposits, semi-consolidated deposits, and consolidated formations underlain by volcanic bedrock. The Basin is roughly centered on an east-west oriented structural syncline, and sedimentary deposits are thickest in the center and westernmost areas, thinning out to the Basin margins. The aquifer system consists of a single principal aquifer, is semi-confined, and is characterized by distinct upper and lower groundwater-producing zones in the west with the stratification absent or not apparent to the east. A key hydraulic feature within the Basin is the Bailey Fault, which acts as a barrier to flow, separating the western third of the Basin from the rest of the Basin. The Bailey Fault is the basis

of dividing the Basin into two management areas: FCGMA management area and ASRGSA management area (Figure 1.2).

Inflow into the Basin comes from mountain-block fracture flow from the Conejo volcanics from the south and east, infiltration of streamflow, recharge from infiltration of precipitation and agricultural and urban return flows, and mountain-front recharge from the Las Posas Hills in the north (ASRGSA and FCGMA, 2023). The Arroyo Conejo and Conejo Creek are the major surface water features recharging the groundwater in the southern and southwestern areas of the Basin and are a perennial surface water system due to a constant source of effluent from the Hill Canyon Wastewater Treatment Plant (WWTP). The shallow groundwater in the vicinity of the Arroyo Conejo and Conejo Creek consists primarily of recirculated surface water discharges sourced from the Hill Canyon WWTP and urban runoff from Conejo Valley, both of which enter the Basin via Hill Canyon. Groundwater extraction is the primary outflow component for the Basin, and shallow groundwater also discharges to the Conejo Creek in the southwestern area.

Historically, local groundwater provided approximately half of the water used in the Basin for Municipal and Industrial (M&I), agricultural, and domestic uses. Historically, municipal pumping constituted the largest component of groundwater extractions, followed by agricultural extractions and one domestic well. However, from 2019 through water year 2023, municipal pumping declined due to Camrosa Water District (Camrosa) supply wells being inactive due to water quality issues. Pumping resumed for Camrosa wells in water year 2024 (due to a treatment facility becoming active in October 2023), which increased groundwater extraction for the Basin in comparison to the previous 5 years. The other sources of water supply for the Basin are imported water purchases from Calleguas Municipal Water District (CMWD), groundwater extracted from wells in the neighboring Tierra Rejada and Pleasant Valley Groundwater Basins, and non-potable surface water from outside of the Basin, including Conejo Creek Project water.

2.0 Groundwater Conditions [§356.2(b)]

This section describes data updates to precipitation and water year types for the Basin, groundwater elevations, groundwater quality, groundwater extraction, surface water supplies, total water use, and change in groundwater in storage for the Basin.

Groundwater data for water year 2024 were collected from a variety of sources and incorporated into the ASRVGB Data Management System (DMS), which is described further in the GSP (ASRGSA and FCGMA, 2023). Groundwater levels were monitored by Camrosa and Ventura County Watershed Protection District (VCWPD). Groundwater quality data were collected by Camrosa and VCWPD. Groundwater extraction data were obtained from Camrosa, FCGMA, and the County of Ventura. Surface water supply data were provided by VCWPD and the Calleguas Creek Watershed total maximum daily load (TMDL) Compliance Monitoring Program (CCWTMP).

2.1 Precipitation and Water Year Types

Precipitation data were provided by Ventura County Public Works Agency from gages 500A (Camrosa Water District) and 502 (Santa Rosa Valley - Basin 2) and were updated for water year 2024 (Figures 2.1 and 2.2). Total precipitation for water year 2024 was 17.1 inches, compared to the average of 13.4 inches for the long-term historical period 1929-2024. The PRISM dataset, shown as a red to blue gradient in

Figure 2.1, displays gridded 30-year average annual precipitation values for the period 1991-2020, which is the most recent data available.

The water year type for water year 2024 was wet (Figure 2.2) and was classified based on total annual precipitation (from VCWPD rainfall gages 500A and 502) for a given water year compared to long-term historical precipitation trends from precipitation gages within the Basin (see Section 3.3 in the GSP [ASRGSA and FCGMA, 2023]).

2.2 Numerical Groundwater Model Update

The numerical groundwater model constructed for the GSP simulated water years 2012-2071 to calculate the historical, current, and projected water budget components, including streamflow depletion from pumping wells adjacent to the Conejo Creek (ASRGSA and FCGMA, 2023). For this Annual Report, the numerical model was updated to represent water year 2024, and calculated and estimated inputs were developed based on the same methods documented in the GSP (See Appendix G, ASRGSA and FCGMA, 2023).

2.3 Groundwater Elevations [§356.2(b)(1)(A),(B)]

§356.2 Annual Reports. *Each Agency shall submit an annual report to the Department by April 1 of each year following the adoption of the Plan. The annual report shall include the following components for the preceding water year:*

(b) *A detailed description and graphical representation of the following conditions of the basin managed in the Plan:*

(1) *Groundwater elevation data from monitoring wells identified in the monitoring network shall be analyzed and displayed as follows:*

(A) *Groundwater elevation contour maps for each principal aquifer in the basin illustrating, at a minimum, the seasonal high and seasonal low groundwater conditions.*

(B) *Hydrographs of groundwater elevations and water year type using historical data to the greatest extent available, including from January 1, 2015, to current reporting year.*

Groundwater elevations were updated through water year 2024 for monitoring wells in the ASRVGB monitoring network (Figure 2.3), which are provided by Camrosa and VCWPD. Figure 2.3 also shows the groundwater production zones in which wells are screened. As discussed in the GSP, groundwater generally flows from east to west in the Basin, following the surface drainage and topographic gradient of the Basin, with localized depressions caused by extraction wells and localized highs in recharge areas (ASRGSA and FCGMA, 2023). Southeast of the Bailey Fault, groundwater flow is generally from east to west, but flow from the Hill Canyon area (i.e., the Arroyo Conejo) is from south to north. Northwest of the Bailey Fault, groundwater flow is generally towards the center of the area (e.g., see Figure 2.4a).

2.3.1 Groundwater Elevation Contours [§356.2(b)(1)(A)]

Modeled groundwater levels were used to produce groundwater level contour maps discussed below. Available observed groundwater levels for seasonal lows (fall) and highs (spring) for water year 2024 in both upper and lower groundwater production zones are included on respective contour maps for reference. Observed data may not agree with contours due to a lack of observed data available for calibration targets, differences in measurement date compared to modeled date, and general differences inherent in the model calibration.

Groundwater level contours for the water year 2024 wet season (March and April 2024) in the Basin upper groundwater production zone (Figure 2.4a) indicate flow directions are consistent with historical wet season conditions, and groundwater levels have overall increased in comparison to the previous water year 2023. Groundwater level contours for the water year 2024 wet season (March 2024) in the lower groundwater production zone (Figure 2.4b) are also consistent with historical conditions; however, lower groundwater levels are observed in the vicinity of the Conejo wellfield (e.g., pumping wells 02N20W25D01S, 02N20W25C05S, and 02N20W24Q03S). Groundwater level contours for the water year 2024 dry season (October 2024) in both upper and lower groundwater production zones indicate flow directions are consistent with historical conditions; however, observed groundwater levels are higher in comparison to historical dry season conditions and have increased by ~10-20 feet since water year 2023 (Figures 2.5a and 2.5b). Note, the fall 2024 groundwater level data were collected before the Conejo wellfield was brought back online; hence, the inconsistency between the increase in groundwater levels and the decrease in groundwater in storage (see Section 2.8).

2.3.2 Groundwater Elevation Hydrographs [§356.2(b)(1)(B)]

Groundwater elevation hydrographs for key monitoring wells in the Basin are shown with water year types on Figure 2.6. The temporal trend during water year 2024 is upward for all monitoring wells except for wells 02N20W24Q03S, 02N20W25C02S, 02N20W25C05S, 02N20W25C07S, 02N20W25D01S, and 02N20W26B03S, which are downward in the southwestern portion of the Basin. This switch in trends at these wells during water year 2024 is likely due to increased pumping at Camrosa production wells in response to the activation of the water treatment facility. See Section 3.1 for additional detail on hydrographs for the representative monitoring sites in the ASRVGB.

2.4 Groundwater Quality

Maps of available data for average concentrations of key indicator constituents for water year 2024 in the Basin are shown on Figures 2.7 through 2.12 and described below. Water quality data were not available for any wells within the FCGMA management area for water year 2024.

The average nitrate concentrations for water year 2024 ranged from 5.4 to 17.3 milligrams per liter (mg/L) based on sampling results for seven out of the fourteen water quality monitoring wells (Figure 2.7). The nitrate results are consistent with historical data for the Basin (see GSP section 3.1.3.3; ASRGSA and FCGMA, 2023). Elevated nitrate concentrations (i.e., above state maximum contaminant level) are observed across the Basin; however, lower concentrations are observed at lower/bedrock well 02N19W20M04S and Camrosa production wells 02N20W25C05/06.

The average total dissolved solids (TDS) concentrations for water year 2024 ranged from 800 to 1,140 mg/L based on sampling results for four out of the fourteen water quality monitoring wells (Figure 2.8). The TDS results are consistent with historical data for the Basin (see GSP section 3.1.3.3; ASRGSA and FCGMA, 2023). TDS concentrations are generally below the Basin Plan Water Quality Objectives (WQO) except one well, 02N19W20L01S, exhibiting an elevated concentration above the WQO.

The average chloride concentrations for water year 2024 ranged from 110 to 150 mg/L based on sampling results for four out of the fourteen water quality monitoring wells (Figure 2.9). The chloride results are generally consistent with historical data for the Basin (see GSP section 3.1.3.3; ASRGSA and FCGMA, 2023), and the average chloride concentrations do not exceed the WQO for water year 2024.

The average sulfate concentrations for water year 2024 ranged from 115 to 188 mg/L based on sampling results for four out of the fourteen water quality monitoring wells (Figure 2.10). The sulfate results are consistent with historical data for the Basin (see GSP section 3.1.3.3; ASRGSA and FCGMA, 2023), and the average sulfate concentrations do not exceed the WQO for water year 2024.

The average boron concentrations for water year 2024 are generally low throughout the Basin, which is consistent with historical data (Figure 2.11). Analytical results were available for four out of the fourteen water quality monitoring wells and did not exceed the WQO.

The groundwater quality sampling results for 1,2,3-trichloropropane (TCP) were non-detect (<5 mg/L) for water year 2024 (Figure 2.12).

Please see the GSP Section 3.1.3.3 for additional detail on the groundwater quality for the Basin (ASRGSA and FCGMA, 2023).

2.5 Groundwater Extraction [§356.2(b)(2)]

§356.2 Annual Reports. *Each Agency shall submit an annual report to the Department by April 1 of each year following the adoption of the Plan. The annual report shall include the following components for the preceding water year:*

(b) *A detailed description and graphical representation of the following conditions of the basin managed in the Plan:*

(2) *Groundwater extraction for the preceding water year. Data shall be collected using the best available measurement methods and shall be presented in a table that summarizes groundwater extractions by water use sector, and identifies the method of measurement (direct or estimate) and accuracy of measurements, and a map that illustrates the general location and volume of groundwater extractions.*

Groundwater extraction within the Basin is reported by both Camrosa and FCGMA. FCGMA typically provides reported biannual agricultural groundwater extractions for its management area, which has been available through March of 2022; however, records have not been available since, and extractions were estimated for this Annual Report based on historical averages, which have been observed to be relatively stable regardless of climate conditions. Camrosa provided reported monthly groundwater extraction data for M&I and agricultural uses for the ASRGSA management area, and all private active agricultural well extraction rates were estimated based on crop demand and available pumping data (see Appendix G in the GSP; ASRGSA and FCGMA, 2023). The extraction rate of the single domestic well located in the Basin was 2.5 acre-feet per year (AFY) based on the annual usage statements submitted by the well owner to the County of Ventura.

Groundwater extraction for water year 2024 is summarized by water use sector in Table 2.1. Total extraction via pumping wells for water year 2024 (4,439 AFY) was near the historical average of 4,530 AFY (2012-2021). Agricultural groundwater use accounted for 53% of the total extraction via pumping wells for water year 2024. Camrosa operated the M&I extraction wells within the Basin, which is fed into the District's distribution system; however, the majority of extracted water meets agricultural demands. Camrosa wells 02N20W25C02S (Conejo #2) and 02N20W25C04S (Santa Rosa #8) came back into operation after pausing production during water years 2018-2023 and 2020-2023, respectively. The extractions from each well for water year 2024 are shown on Figure 2.13.

2.6 Surface Water Supply [§356.2(b)(3)]

§356.2 Annual Reports. *Each Agency shall submit an annual report to the Department by April 1 of each year following the adoption of the Plan. The annual report shall include the following components for the preceding water year:*

(b) *A detailed description and graphical representation of the following conditions of the basin managed in the Plan:*

(3) *Surface water supply used or available for use, for groundwater recharge or in-lieu use shall be reported based on quantitative data that describes the annual volume and sources for the preceding water year.*

Surface water supplies are currently not diverted within the ASRVGB for M&I or agricultural uses. Water supply within the Basin relies on groundwater extractions and water from outside the Basin, such as purchased imported water from CMWD and non-potable Conejo Creek Project surface water diversions from the Conejo Creek (ASRGSA and FCGMA, 2023). Imported water purchased from CMWD consists primarily of surface water imported from the State Water Project via Metropolitan Water District of Southern California. The surface water used for agriculture was taken as the difference between total agricultural demands for the basin and the groundwater used for agriculture (see Section 2.7). For M&I surface water use, Camrosa records of purchased imported water and metered Conejo Creek water intakes were used to estimate the amount of surface water in potable and non-potable water delivered to M&I parcels identified within the Basin (see Table 2.2). Total estimated surface water supply volume for water year 2024 was 1,524 AFY (Table 2.2 and Figure 2.14).

2.7 Total Water Use [§356.2(b)(4)]

§356.2 Annual Reports. *Each Agency shall submit an annual report to the Department by April 1 of each year following the adoption of the Plan. The annual report shall include the following components for the preceding water year:*

(b) *A detailed description and graphical representation of the following conditions of the basin managed in the Plan:*

(4) *Total water use shall be collected using the best available measurement methods and shall be reported in a table that summarizes total water use by water use sector, water source type, and identifies the method of measurement (direct or estimate) and accuracy of measurements. Existing water use data from the most recent Urban Water Management Plans or Agricultural Water Management Plans within the basin may be used, as long as the data are reported by water year.*

Water demands in the ASRVGB consist of M&I, agricultural, and domestic demands, which are met by a mix of groundwater extractions and deliveries for potable and non-potable use from outside the Basin. Agricultural groundwater use is supplied by FCGMA and ASRGSA management area agricultural extraction wells (Section 2.5) and Camrosa's non-potable extraction wells. M&I groundwater use is supplied by Camrosa's groundwater extraction wells, and, if in-basin demands are not met, then Camrosa's imported groundwater from extraction wells outside the basin are used. Agricultural and M&I surface water use is described in the previous Section 2.6. Sources of water supplied from outside the Basin are metered and delivered for M&I and agricultural uses through Camrosa's potable and non-potable distribution systems. Water year 2024 water use sources are detailed in Table 2.2 and Figure 2.14. The total water use components were measured or estimated using methods described in Section 2.5 and 2.6 in this report and the GSP (ASRGSA and FCGMA, 2023).

The total water used within the Basin during water year 2024 was 4,434 AFY (Table 2.2 and Figure 2.14).

2.8 Change in Storage [§356.2(b)(5)(A),(B)]

§356.2 Annual Reports. *Each Agency shall submit an annual report to the Department by April 1 of each year following the adoption of the Plan. The annual report shall include the following components for the preceding water year:*

(b) *A detailed description and graphical representation of the following conditions of the basin managed in the Plan:*

(5) *Change in groundwater in storage shall include the following:*

(A) *Change in groundwater in storage maps for each principal aquifer in the basin.*

(B) *A graph depicting water year type, groundwater use, the annual change in groundwater in storage, and the cumulative change in groundwater in storage for the basin based on historical data to the greatest extent available, including from January 1, 2015, to the current reporting year.*

The updated numerical groundwater model was used to calculate change in groundwater in storage for the ASRVGB principal aquifer (combined upper and lower groundwater production zones) for water year 2024, which is shown in Figure 2.15.

Total change in storage for the principal aquifer between water years 2023 and 2024 was calculated to decrease by 454 acre-feet (Figure 2.15). Change in storage for the principal aquifer was also calculated for each management area, and the ASRGSA management area accounts for 99% of the total change in storage for the principal aquifer (Figure 2.15). This is due to increased pumping that occurred in Camrosa's Conejo wellfield in water year 2024, which was at its highest since water year 2018 (Figure 2.16). Note, the change in storage is calculated based on differences in spring high groundwater conditions.

Figure 2.16 shows annual and cumulative change in groundwater in storage for the Basin with groundwater pumping, starting in 2012. Total change in storage for the Basin for water year 2024 was -535 AF. Change in storage for the principal aquifer was 85% of the total change in storage for the Basin for water year 2024.

3.0 Plan Implementation [§356.2(c)]

§356.2 Annual Reports. *Each Agency shall submit an annual report to the Department by April 1 of each year following the adoption of the Plan. The annual report shall include the following components for the preceding water year:*

(c) *A description of progress towards implementing the Plan, including achieving interim milestones, and implementation of projects or management actions since the previous annual report.*

The plan implementation for the ASRVGB GSP was initiated with the submittal of the GSP to DWR in June of 2023. Progress towards implementing the GSP is evaluated in this Annual Report through comparing monitoring data to SMC for each applicable sustainability indicator for the past water year (2024). All currently available monitoring data, consisting of groundwater levels, groundwater quality, precipitation, and streamflow, are evaluated for this Annual Report.

3.1 Chronic Lowering of Groundwater Levels, Reduction of Groundwater Storage, and Land Subsidence

SMC are the same for the chronic lowering of groundwater levels, reduction of groundwater storage, and land subsidence sustainability indicators because groundwater levels are used as a proxy. Groundwater levels were evaluated through water year 2024 for three monitoring wells in the FCGMA and eleven monitoring wells in the ASRGSA. For each well, observed groundwater levels were plotted against their respective minimum thresholds, measurable objectives, and interim milestones (Figure 3.1a-d). Out of eleven monitoring wells within the ASRGSA (Figure 2.3), one well (02N20W23Q02S) was not evaluated due to a lack of reliable data (see Appendix J in GSP; ASRGSA and FCGMA, 2023). Table 3.1 summarizes SMC and the minimum groundwater level observed at each well for water year 2024.

Spring high groundwater levels observed in water year 2024 were evaluated against SMC, and no monitoring wells were below their respective minimum threshold. Note, groundwater levels for well 02N20W23R01S were not available for water year 2024. Most monitoring wells either met their respective 5-year interim milestones or measurable objectives (Table 3.1). For water year 2024 in the FCGMA management area, one well was between its minimum threshold and 5-year interim milestone, and two wells met their measurable objectives. For water year 2024 in the ASRGSA management area, one well was between its minimum threshold and 5-year interim milestone, one well met its 5-year interim milestone, and 7 wells met their measurable objectives. The combination of minimum threshold exceedances that are deemed to indicate undesirable results for the chronic lowering of groundwater levels sustainability indicator was specified to be minimum threshold exceedances in more than 50% of the groundwater level monitoring sites for either management area for 2 successive years. Currently, there are no minimum threshold exceedances; therefore, there are no undesirable results indicated. The implementation plan for the chronic lowering of groundwater levels, reduction of groundwater storage, and land subsidence sustainability indicators is in good status.

3.1.1 Land Subsidence InSAR data

As described in the GSP, no land subsidence has been documented historically in the Basin, and the Basin is considered to have a low estimated potential for inelastic land subsidence. Numerical modeling for the water budget suggests that future groundwater levels will remain above historical low levels, which would prevent inelastic subsidence due to groundwater extraction (see Appendix G in the GSP; ASRGSA and FCGMA, 2023). In addition, groundwater levels are used as a proxy for the land subsidence SMC (see Section 3.1 above). Nonetheless, the GSP included annual review of interferometric synthetic aperture radar (InSAR) data (subject to continued availability from DWR) to confirm the absence of land subsidence related to groundwater conditions.

DWR provides land surface displacement data for the Basin on their SGMA Data Viewer Web-based geographic information system viewer (DWR, 2024), which includes InSAR measurements for water year 2024 (TRE Altamira, Inc., 2023). This land surface displacement dataset was downloaded and reviewed. The reported cumulative vertical displacement from the InSAR measurements during water year 2024 was consistently well below the accuracy range, and the areas falling below the accuracy range are shown in gray on Figure 3.2. This indicates that there is no measurable land subsidence due to groundwater withdrawal within the Basin.

3.2 Degraded Water Quality

The water quality monitoring network is shown on Figure 3.3. For each key indicator constituent (nitrate, TDS, chloride, sulfate, boron, and TCP), available analytical results were plotted against their respective minimum thresholds, measurable objectives, and interim milestones (Figures 3.4a through 3.4f). Table 3.2 summarizes, by constituent, the SMC and the average concentration for all wells in each management area for water year 2024. No water quality data were available for FCGMA in water year 2024. All water quality analytical results met their respective secondary measurable objectives for water year 2024 except for TDS, which meets its primary measurable objective.

3.3 Depletion of Interconnected Surface Water

The Arroyo Conejo and Conejo Creek are interconnected with shallow groundwater in the Basin, and a small amount of direct depletions occur due to groundwater pumping adjacent to the creek. The Arroyo Conejo and Conejo Creek stream system has primarily losing conditions; however, it is perennial due to the constant source of water from the Hill Canyon WWTP effluent and additional surface water flow from the North and South Fork Arroyo Conejo streams that drain Conejo Valley. Based on the numerical model results, the GSP concluded that significant and unreasonable effects have not occurred historically and that undesirable results are not expected to occur as long as future depletions do not exceed the maximum historical depletion rate. The GSAs have developed SMC for the depletion of interconnected surface water (ISW) sustainability indicator to ensure that potential undesirable results related to groundwater extraction are avoided. The minimum threshold and measurable objective are equal and were estimated by the numerical model to be 1,150 AFY, which includes both direct and indirect depletion (ASRGSA and FCGMA, 2023).

Two surface water flow gages (gage 800 and Confluence Flume maintained by CCWTMP and Hill Canyon WWTP, respectively) provide streamflow data for the Arroyo Conejo and Conejo Creek (Figure 3.5); however, the Confluence Flume was destroyed in a flood in August 2023, so there have been no flow data available for this gage since then. Flow was estimated at the Confluence Flume using methodology developed for the GSP model for other periods without data (see Section 6.4 in Appendix G of the GSP; ASRGSA and FCGMA, 2023). The numerical model was updated with the measured and estimated surface water data, and model results were used to evaluate streamflow depletion for water year 2024 using methodology developed in the GSP (See Sections 3.2.6, 4.1, and 4.9 in the GSP; ASRGSA and FCGMA, 2023). Figure 3.6 shows annual streamflow depletion plotted against the minimum threshold and measurable objective for the Basin, which indicates the measurable objective is met and the streamflow depletion for water year 2024 is below the historical average of 762 AFY (water years 2012-2018).

3.4 Seawater Intrusion

The GSP concluded that the seawater intrusion sustainability indicator is not applicable to the ASRVGB because it is an inland basin with no connection to the ocean. The Basin is located over 10 miles inland from the Pacific Ocean and is hydraulically upgradient and structurally up-dip of the lower Pleasant Valley Basin. The lowest observed groundwater level elevations at the western boundary of the Basin are ~100 feet above mean sea level. Seawater intrusion is observed near the coastline in the Oxnard Plain Basin in west Ventura County, and seawater would need to migrate through that basin and the Pleasant Valley Basin before reaching the ASRVGB.

3.5 Projects and Management Actions

There are four projects that were described in the GSP (ASRGSA and FCGMA, 2023):

1. Groundwater Monitoring Network Enhancement Project
2. Water Quality Management Coordination Project
3. Arroyo Santa Rosa Basin Desalter Project
4. Arroyo Santa Rosa Basin Recharge Project

There has been no progress on the Groundwater Monitoring Network Enhancement and Water Quality Management Coordination Projects since the GSP implementation in June 2023. For the Arroyo Santa Rosa Basin Desalter and Basin Recharge Projects, a feasibility study was completed in July 2024, and scope is currently being developed for engineering design of the planned facilities.

4.0 References

Arroyo Santa Rosa Basin Groundwater Sustainability Agency (ASRGSA) and Fox Canyon Groundwater Management Agency (FCGMA). 2023. Arroyo Santa Rosa Valley Groundwater Basin Groundwater Sustainability Plan. June 2023.

Arroyo Santa Rosa Basin Groundwater Sustainability Agency (ASRGSA) and Fox Canyon Groundwater Management Agency (FCGMA). 2024. Arroyo Santa Rosa Valley Basin Annual Report Water Years 2022 and 2023. April 2024.

Department of Water Resources (DWR). 2024. SGMA Data Viewer Web-based geographic information system viewer. Available at <https://sgma.water.ca.gov/webgis/?appid=SGMADataViewer>.

TRE Altamira, Inc. 2023. InSAR Land Surveying and Mapping Services to DWR Supporting SGMA Technical Report. October 2023 Update.

Figures

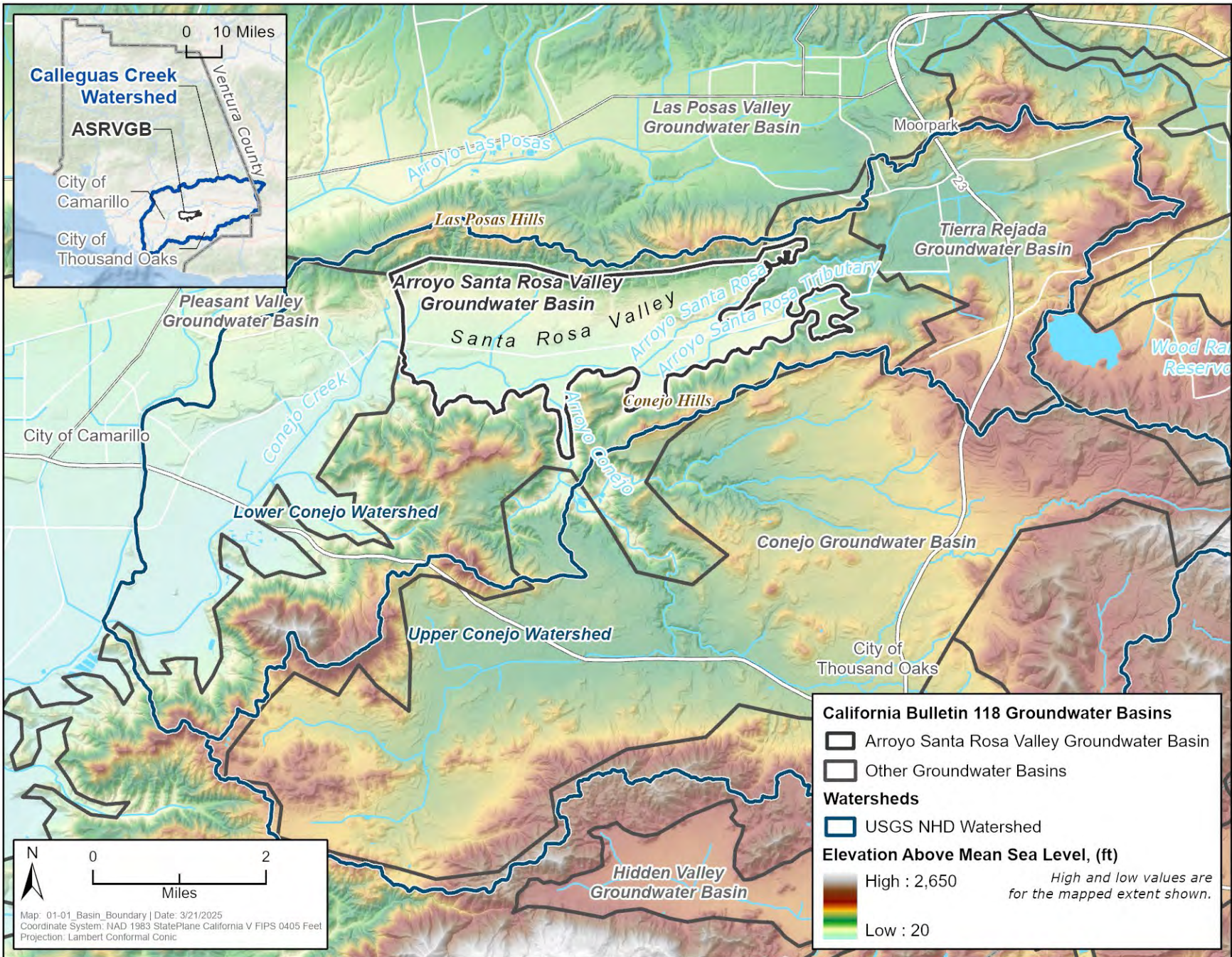


Figure 1.1 Arroyo Santa Rosa Valley Groundwater Basin Boundary Map.

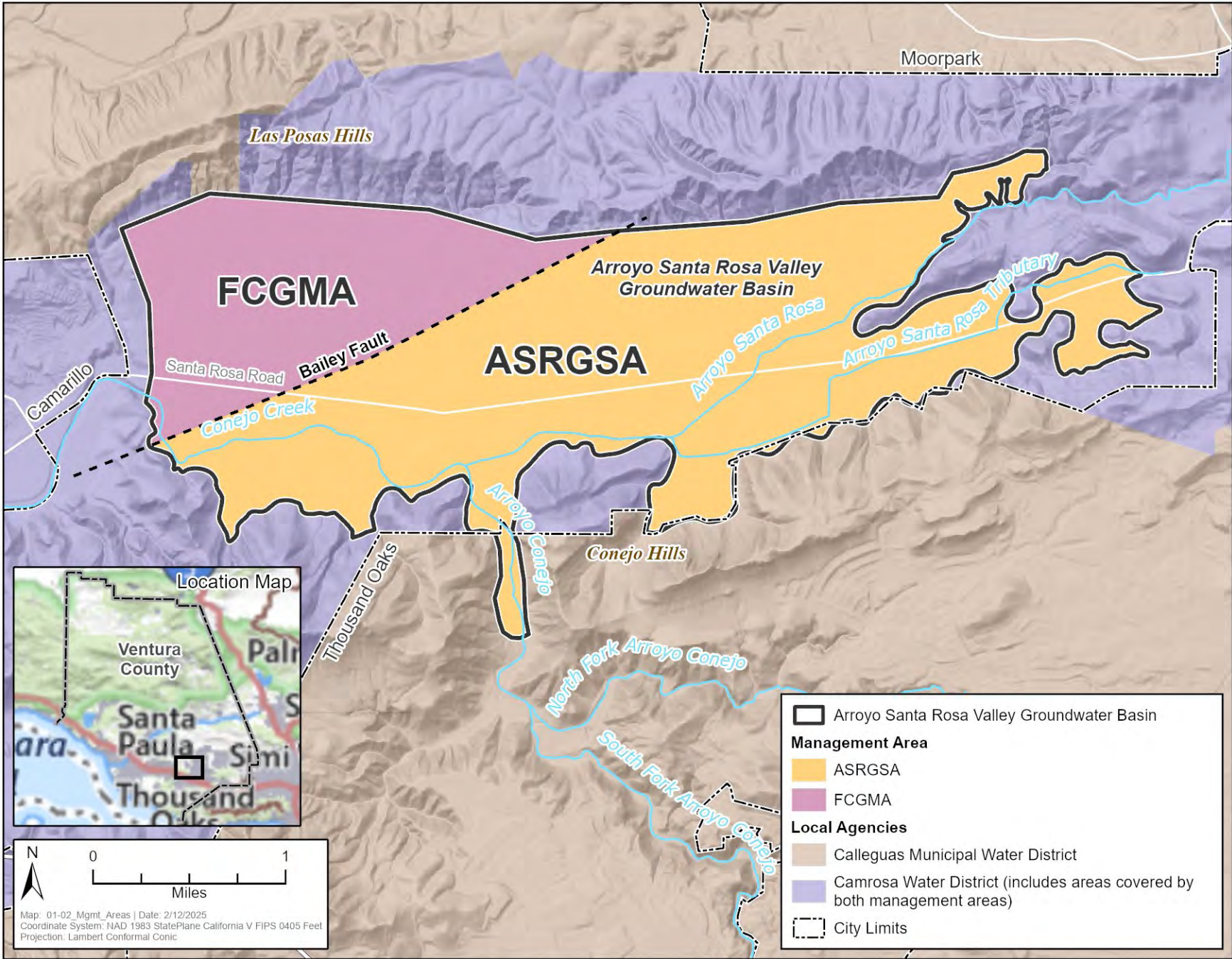


Figure 1.2 Arroyo Santa Rosa Valley Groundwater Basin Management Areas.

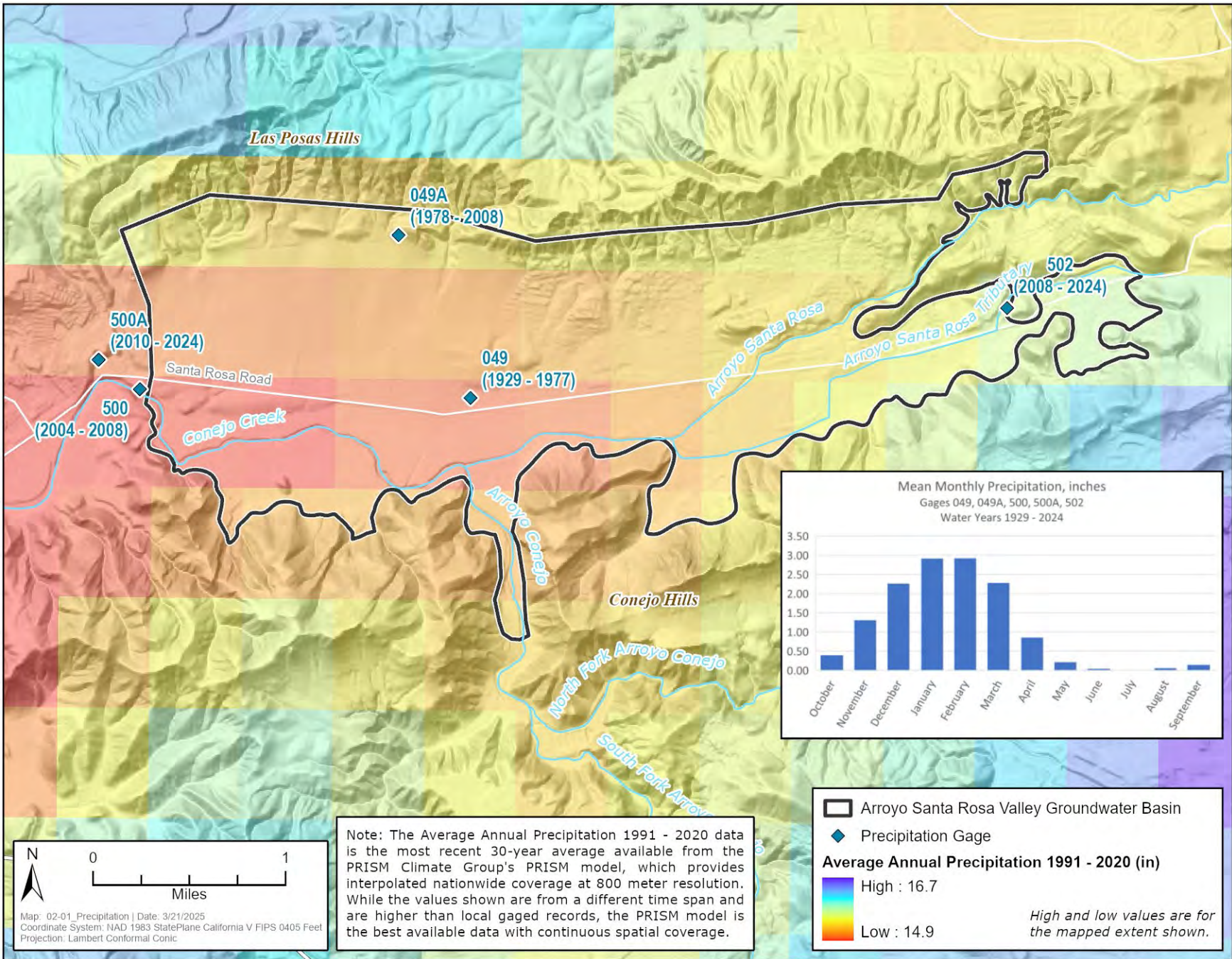


Figure 2.1 Arroyo Santa Rosa Valley Groundwater Basin Precipitation Map.

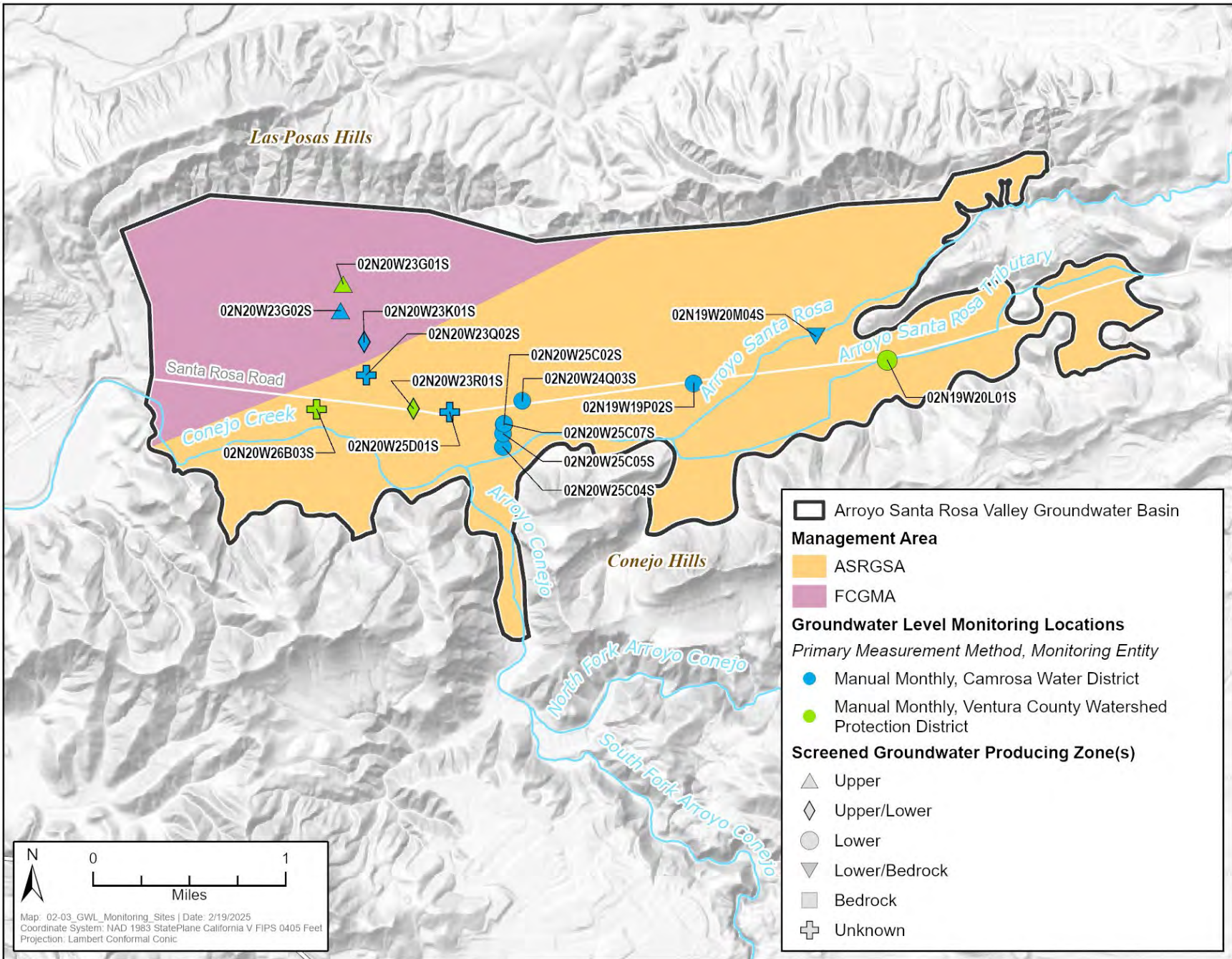


Figure 2.3 Groundwater Level Monitoring Network Wells.

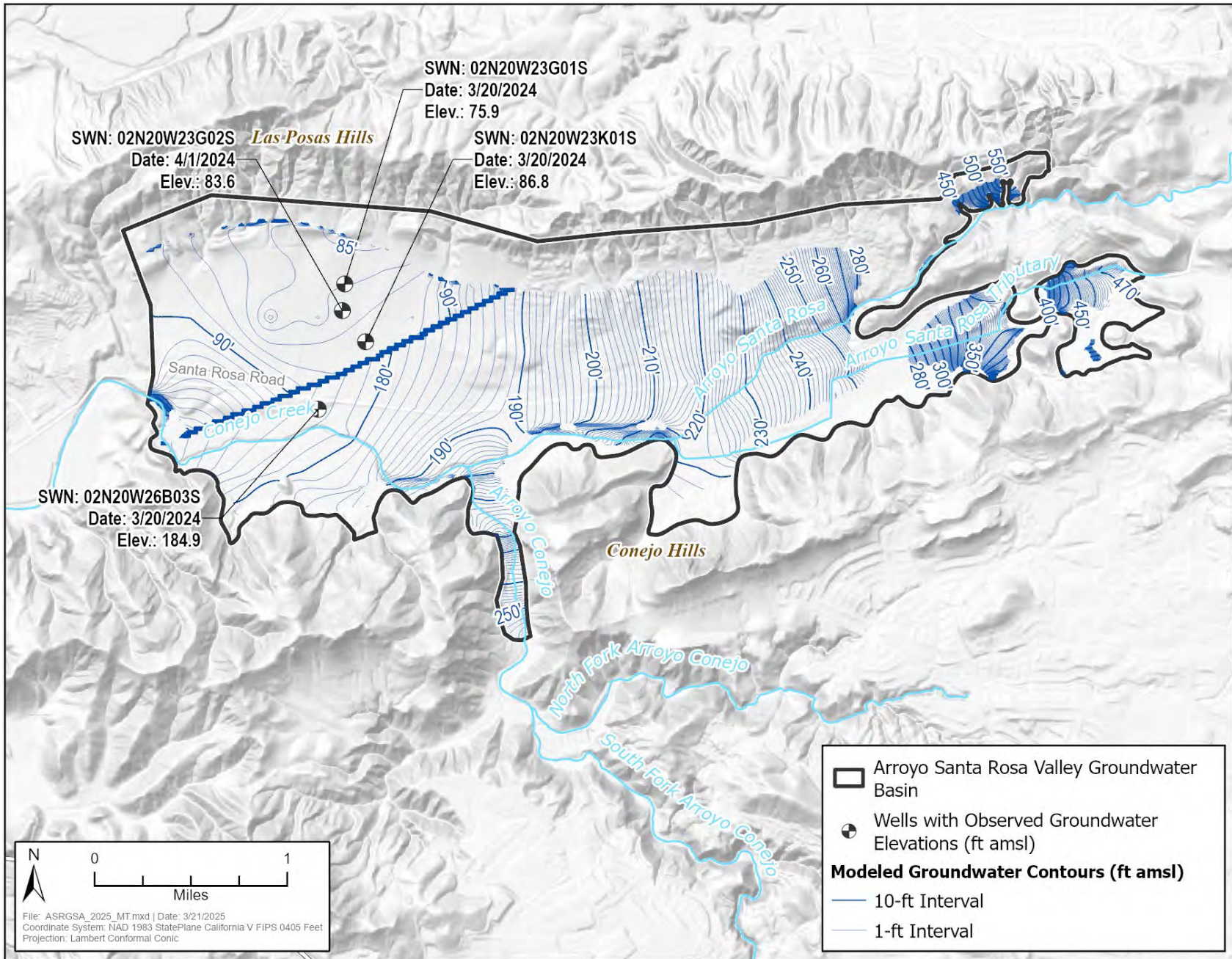


Figure 2.4a Contour Map for High Modeled Groundwater Levels (Wet Season) in the Upper Groundwater Production Zone – Spring Water Year 2024.

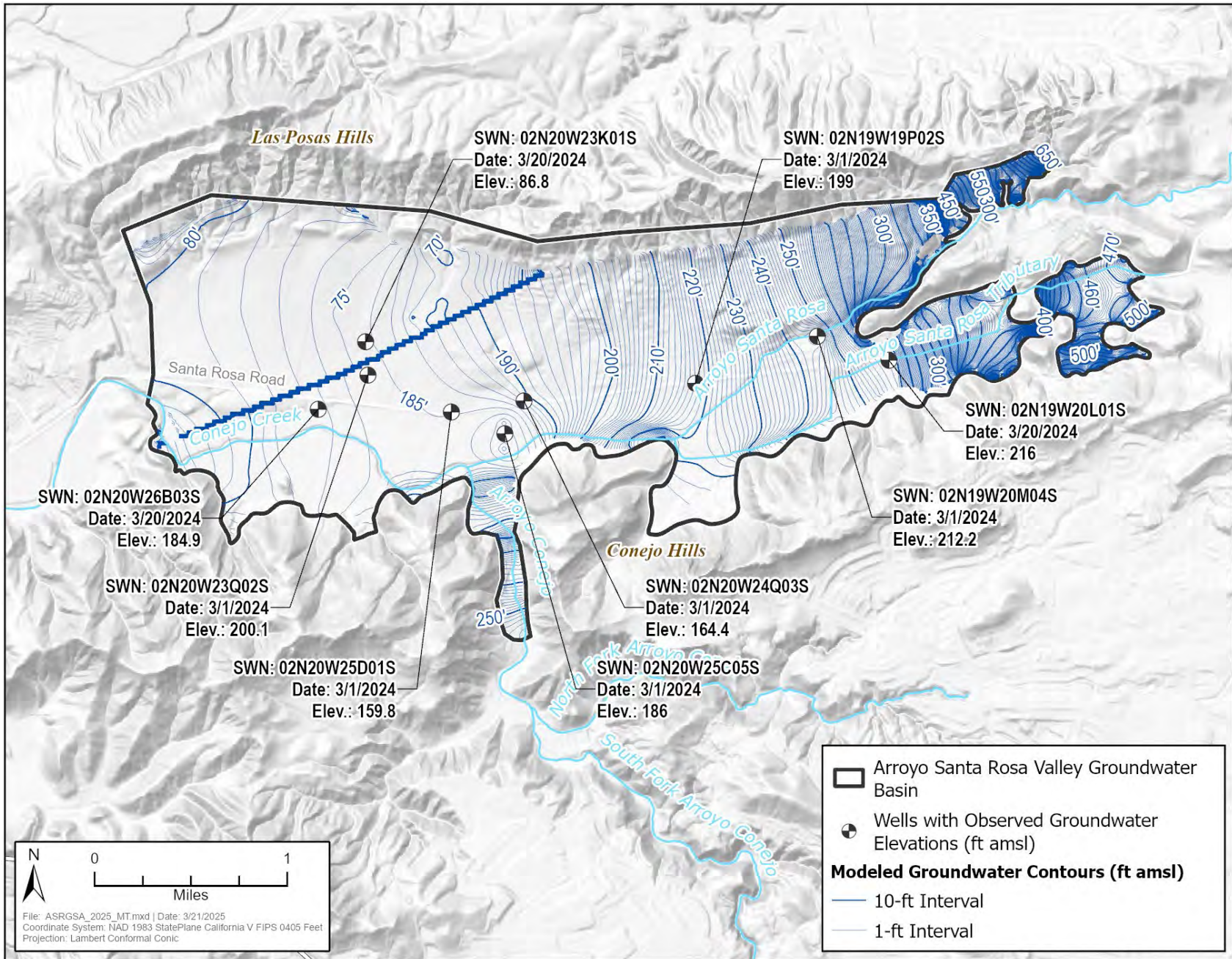


Figure 2.4b Contour Map for High Modeled Groundwater Levels (Wet Season) in the Lower Groundwater Production Zone – Spring Water Year 2024.

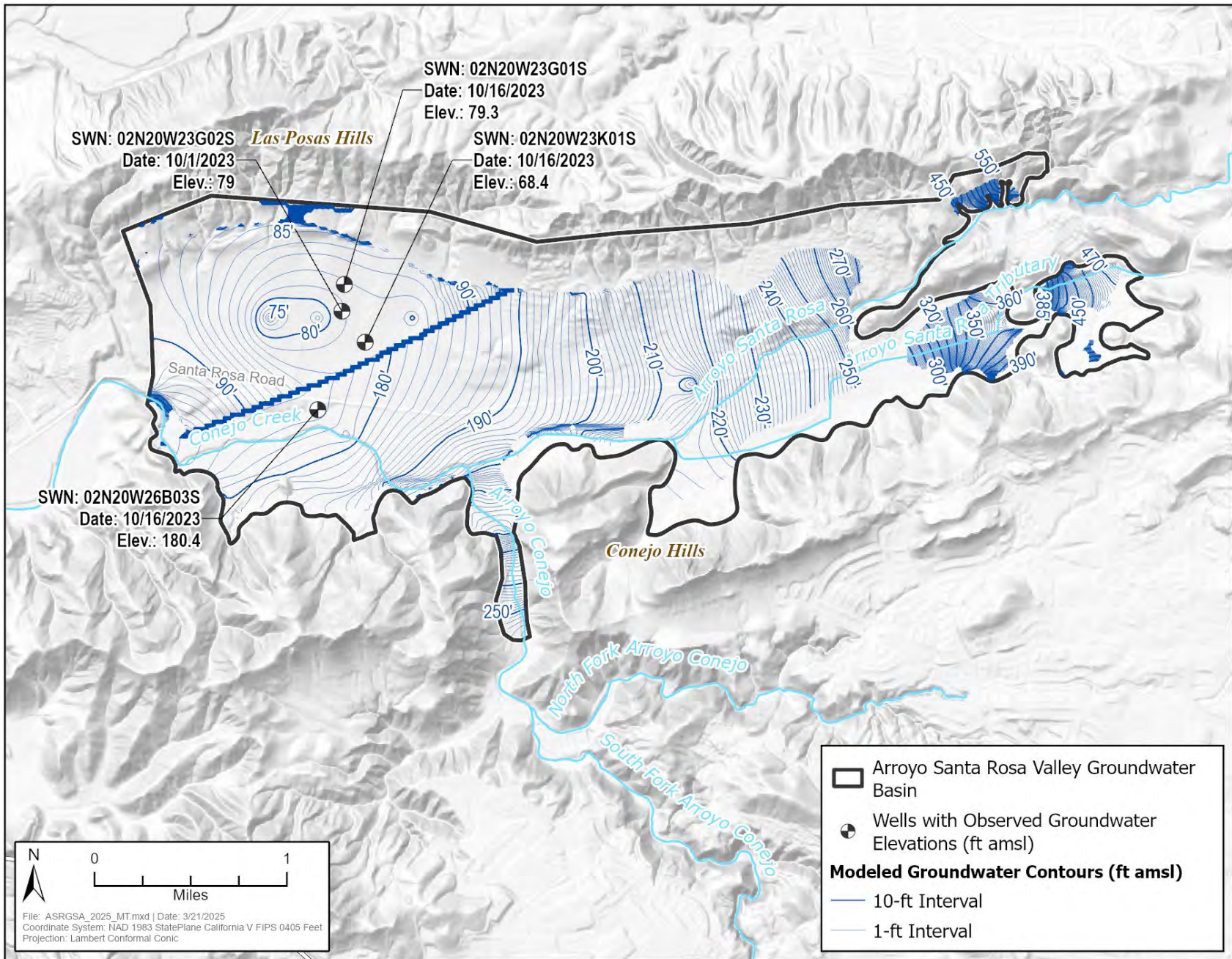


Figure 2.5a Contour Map for Low Modeled Groundwater Levels (Dry Season) in the Upper Groundwater Production Zone – Fall Water Year 2024.

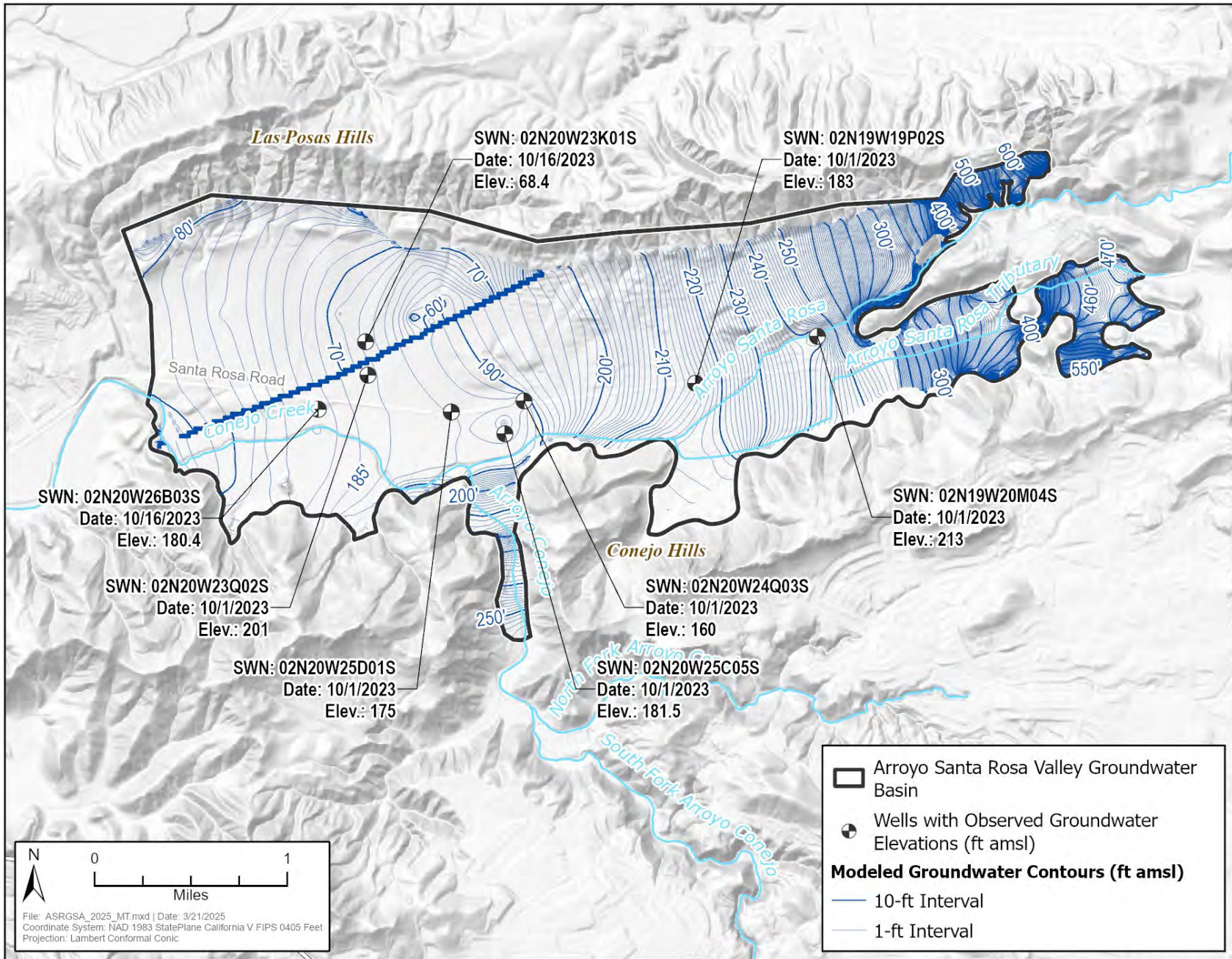


Figure 2.5b Contour Map for Low Modeled Groundwater Levels (Dry Season) in the Lower Groundwater Production Zone – Fall Water Year 2024.

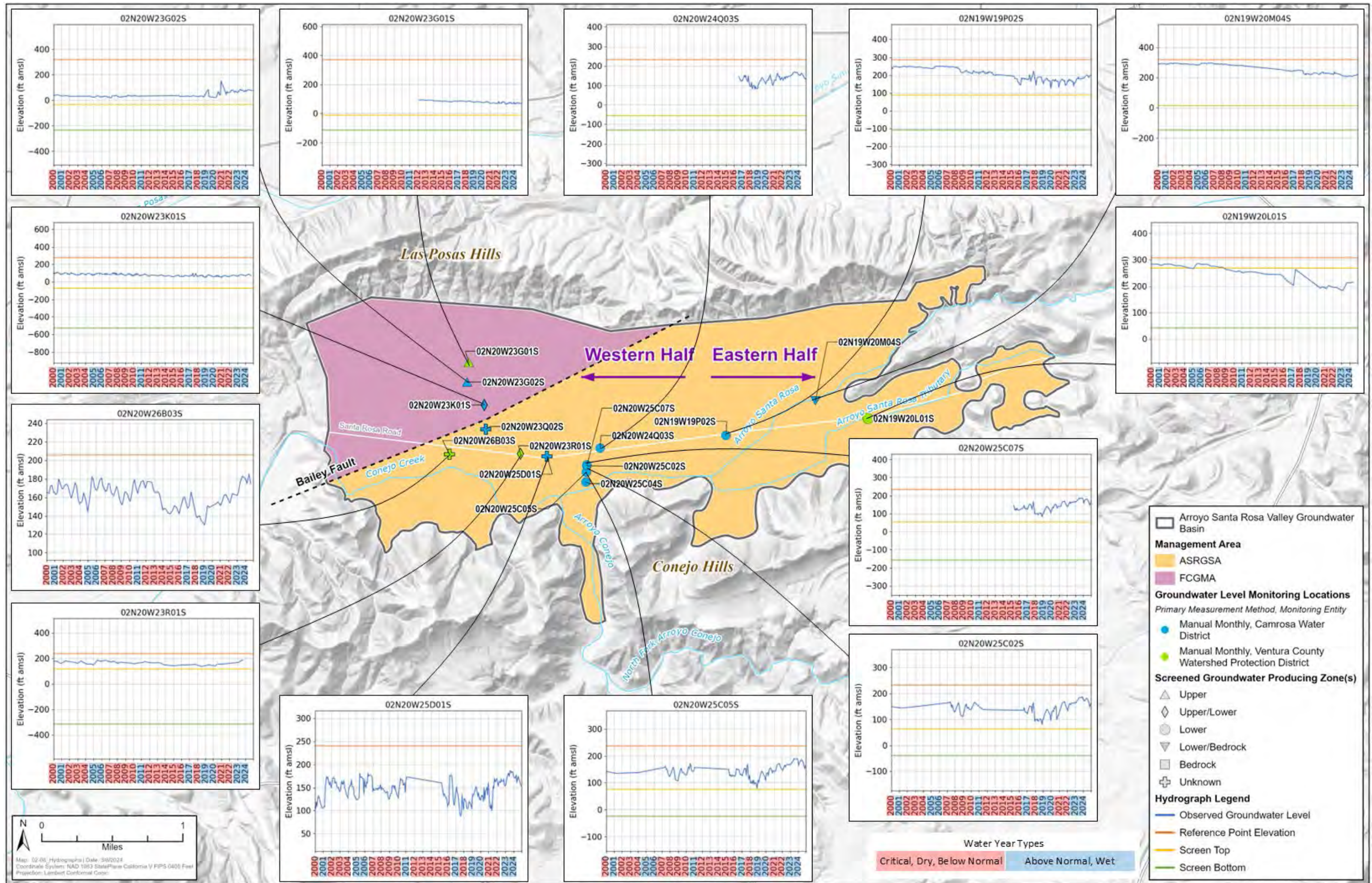


Figure 2.6 Groundwater Level Hydrographs for Key Wells in ASRVGB.

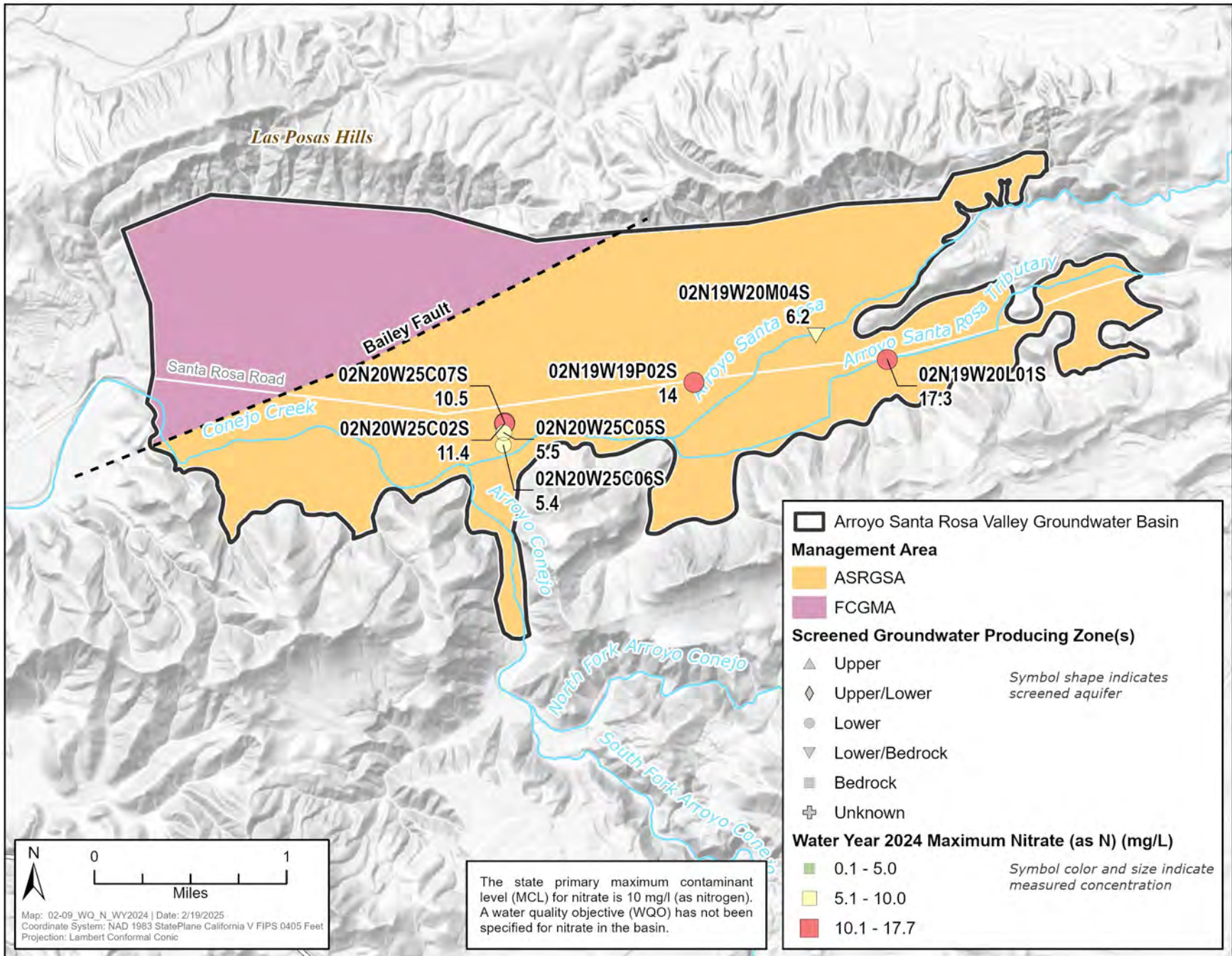


Figure 2.7 Average Nitrate as N Concentration in ASRVGB, Water Year 2024.

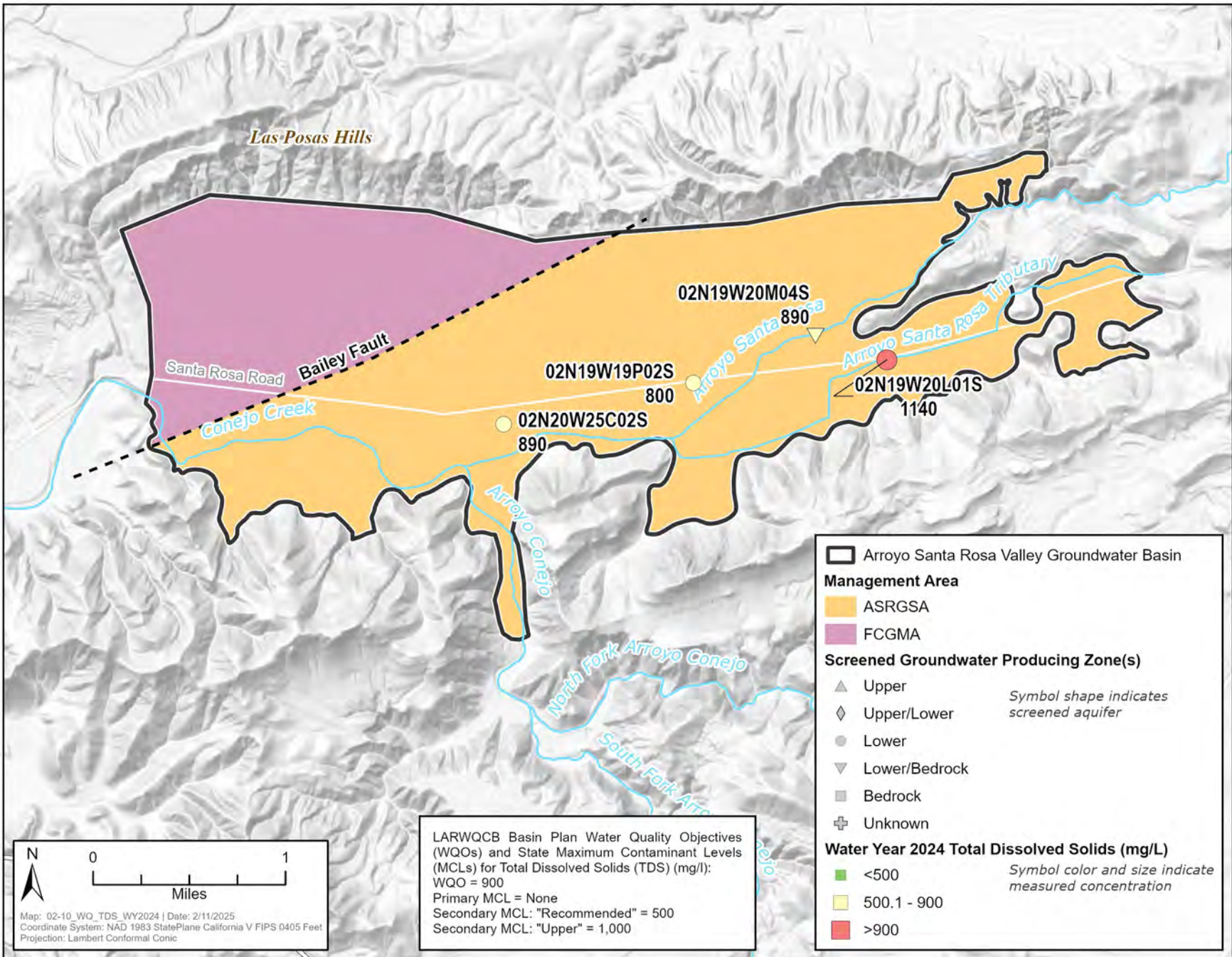


Figure 2.8 Average Total Dissolved Solids Concentration in ASRVGB, Water Year 2024.

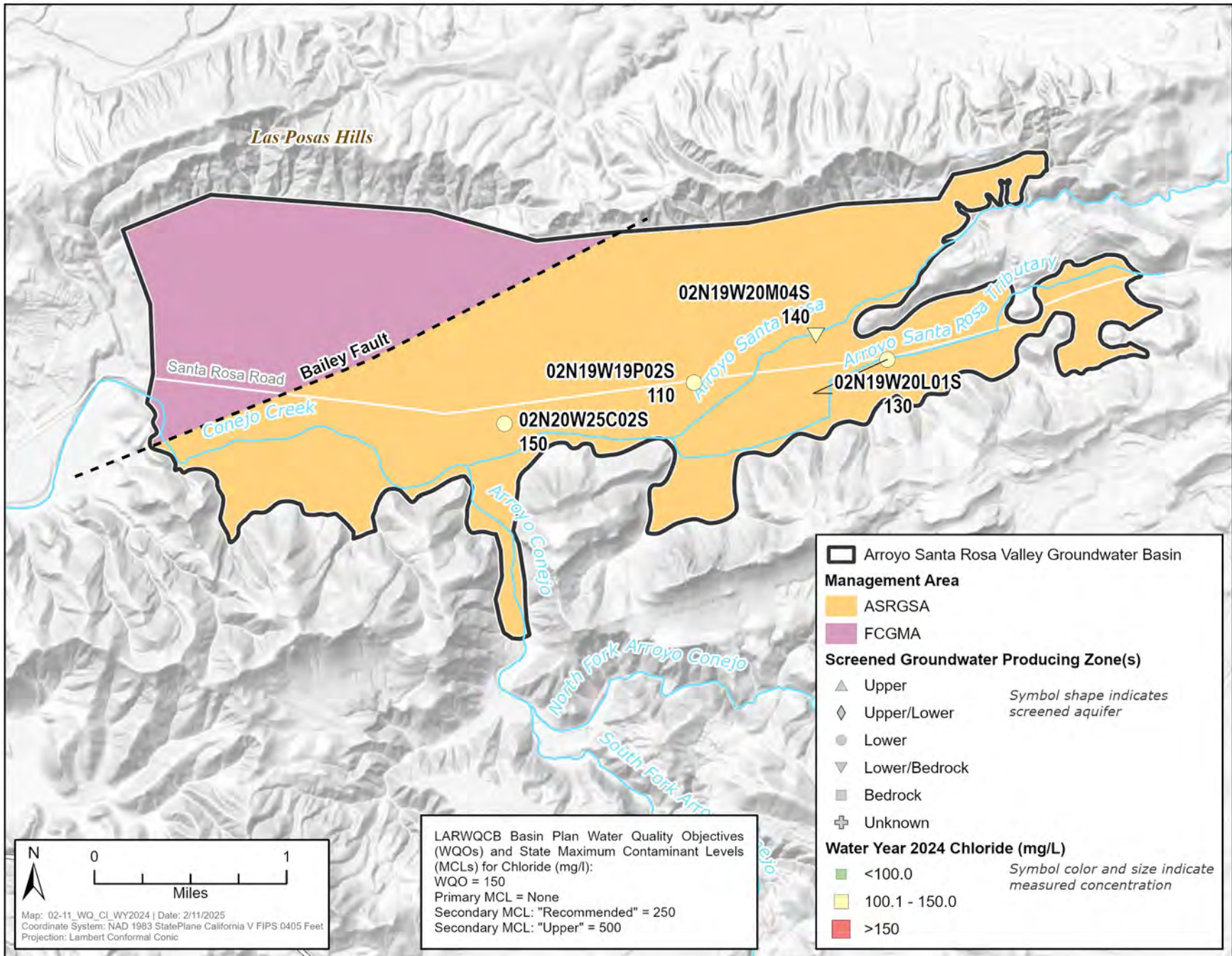


Figure 2.9 Average Chloride Concentration in ASRVGB, Water Year 2024.

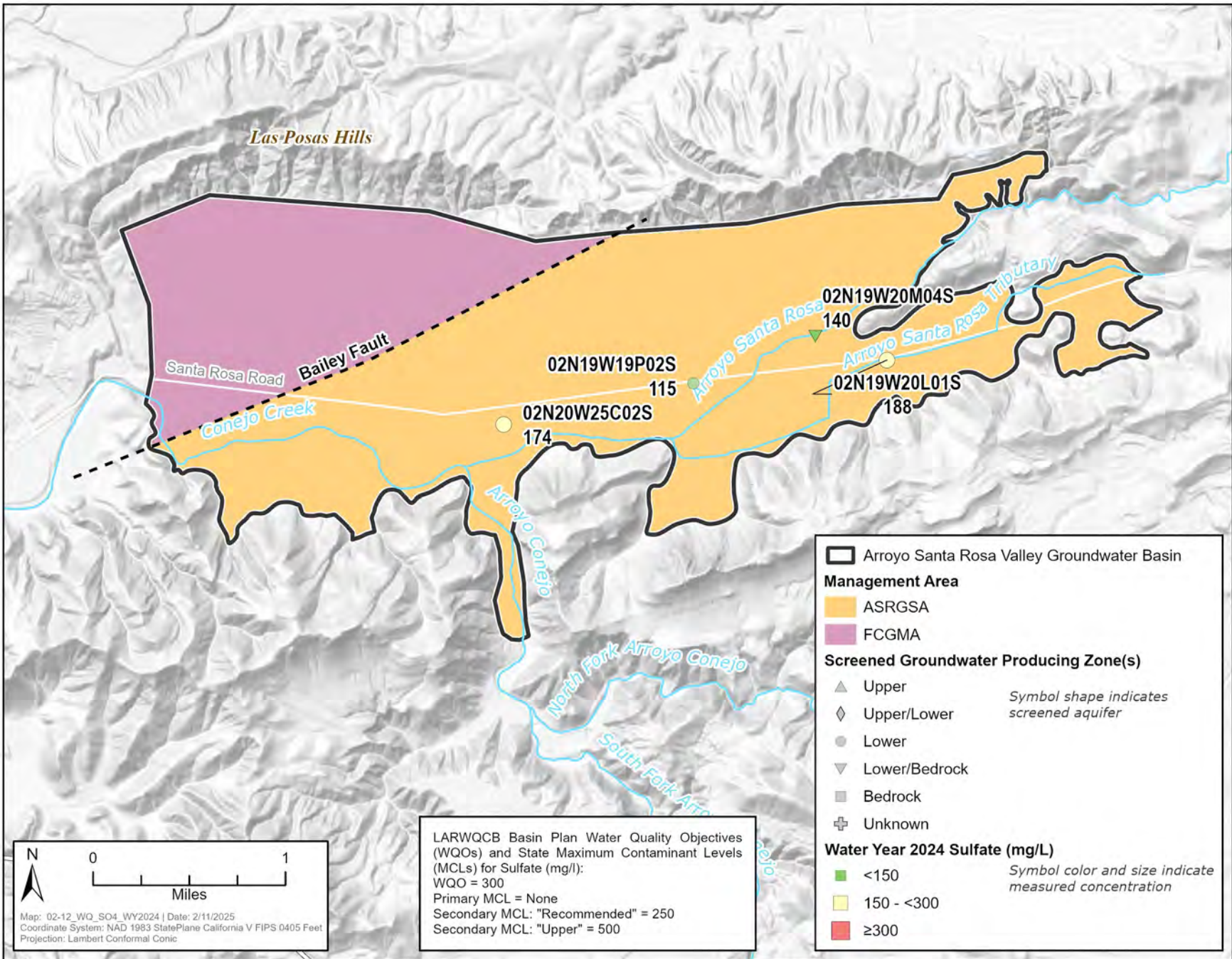


Figure 2.10 Average Sulfate Concentration in ASRVGB, Water Year 2024.

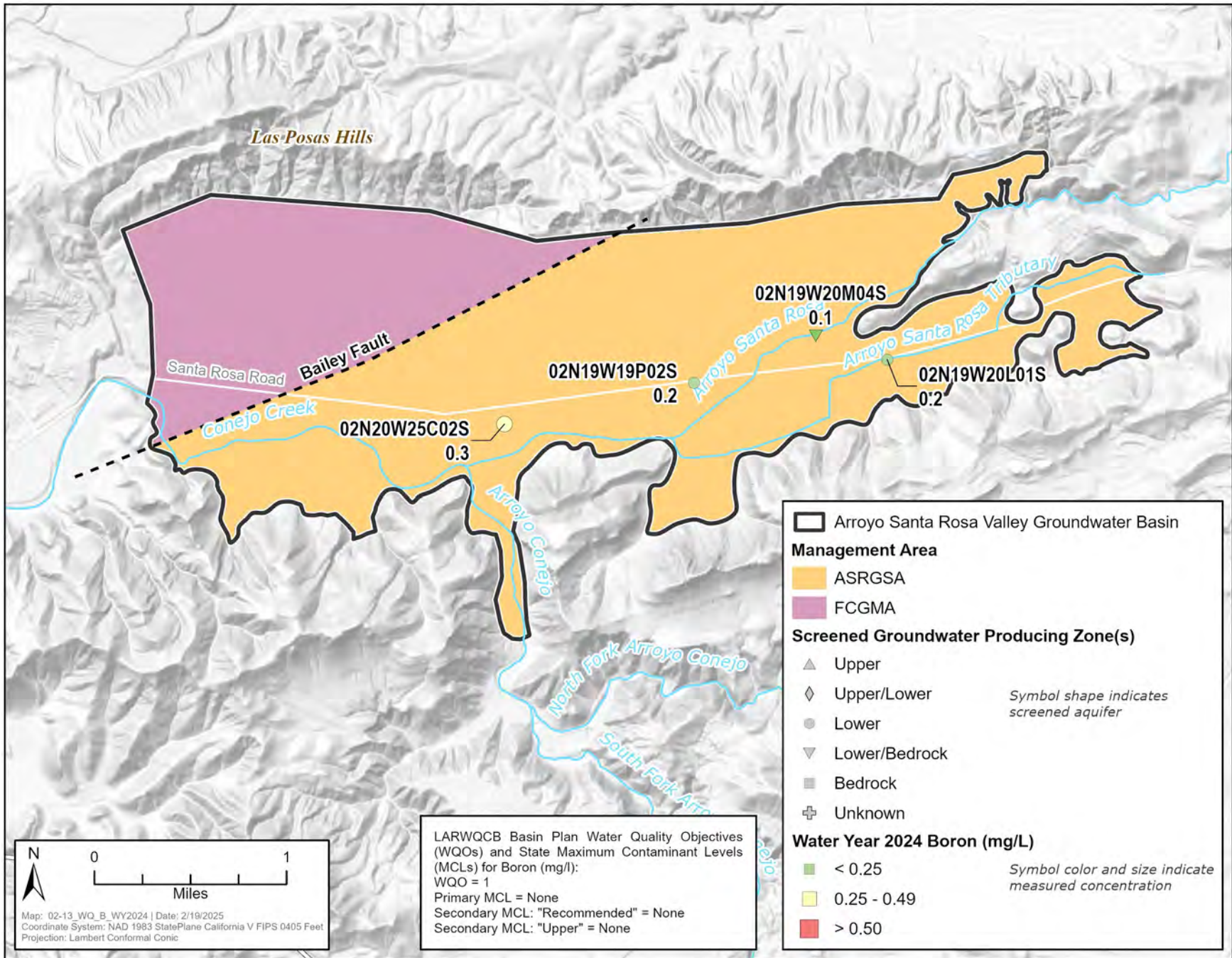


Figure 2.11 Average Boron Concentration in ASRVGB, Water Year 2024.

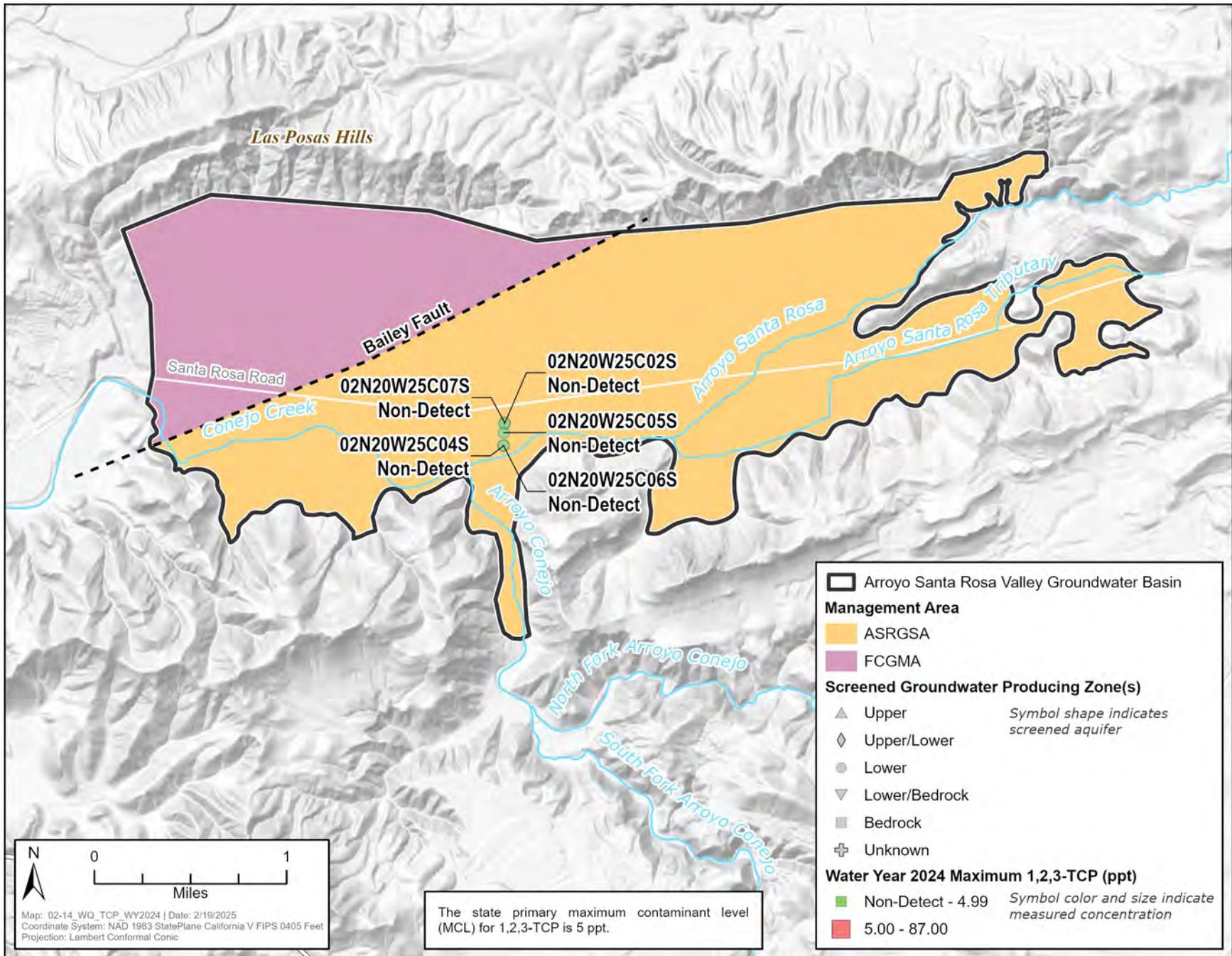


Figure 2.12 Average 1,2,3-Trichloropropane Concentration in ASRVGB, Water Year 2024.

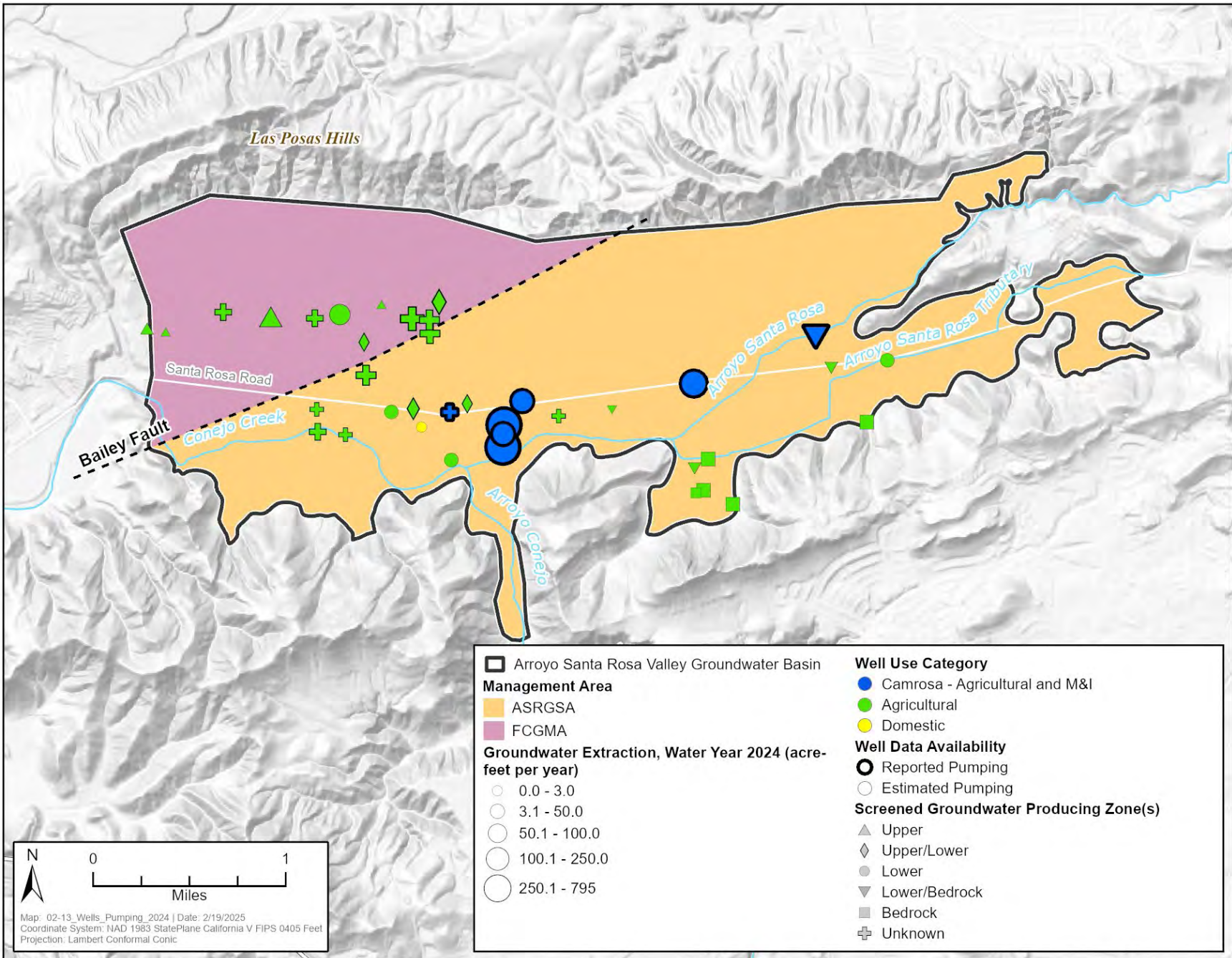


Figure 2.13 Extraction Well Rates, Water Year 2024.

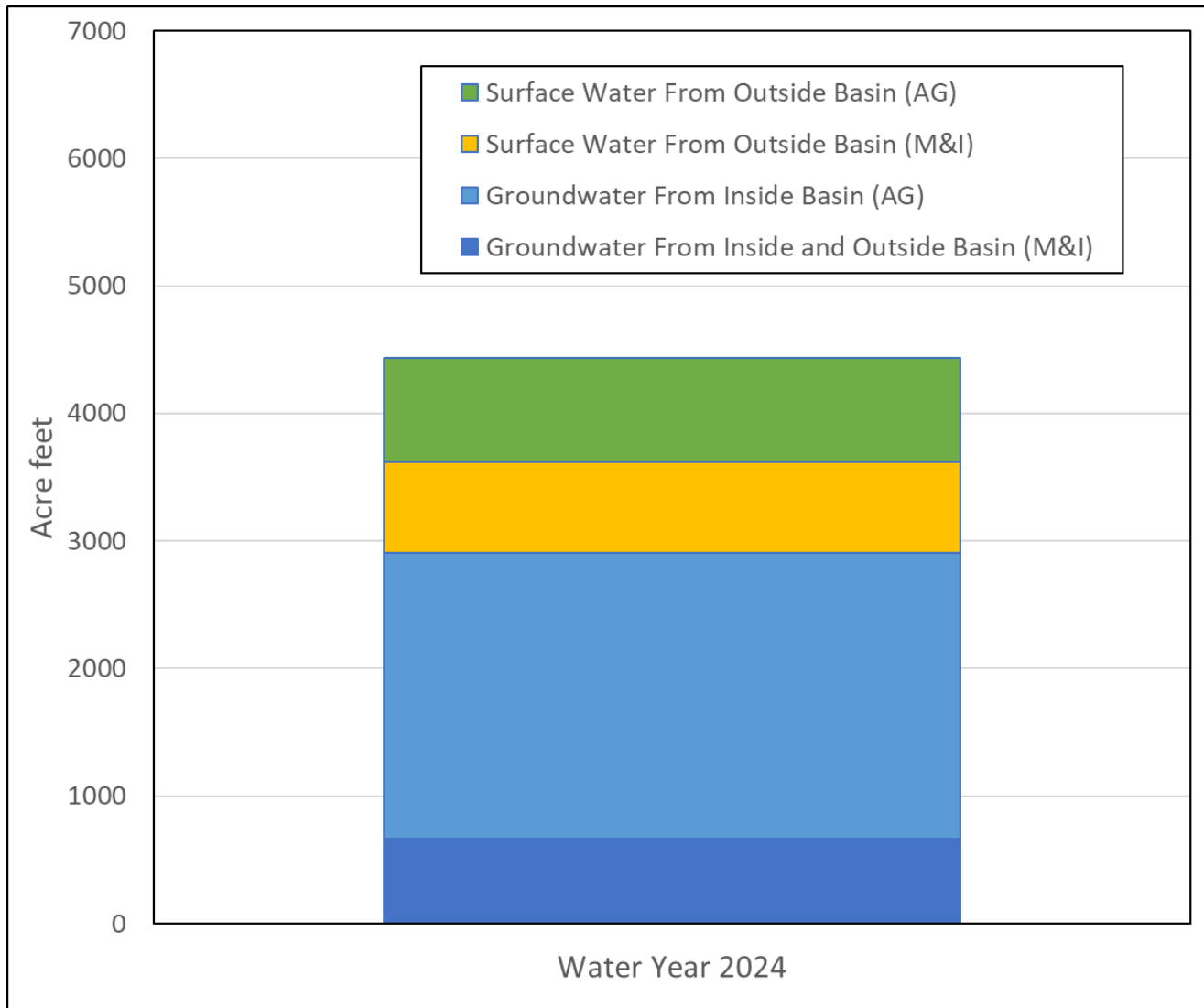


Figure 2.14 Total Water Use Within ASRVGB During Water Year 2024.

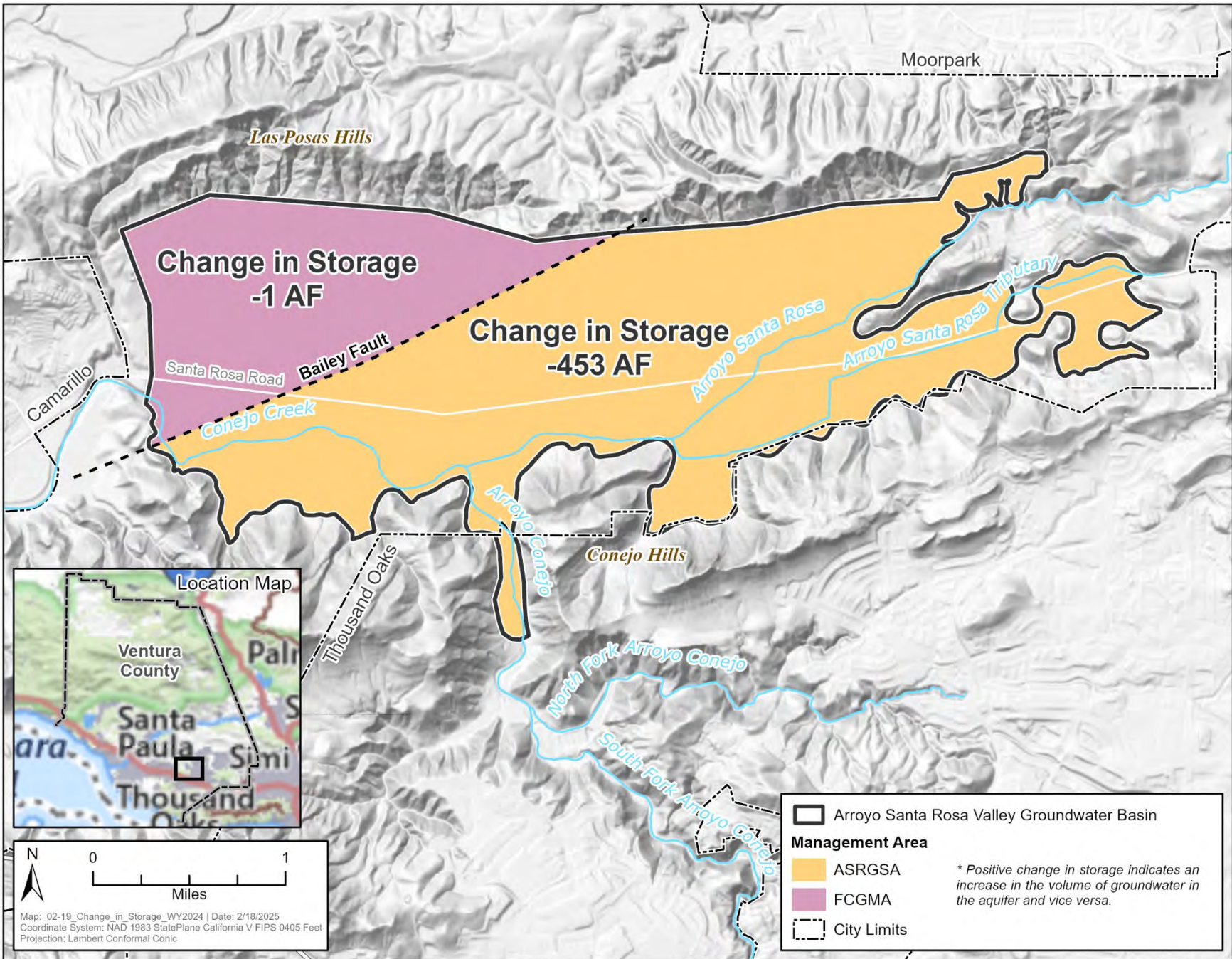


Figure 2.15 Change in Groundwater in Storage Map from Water Years 2023 to 2024.

Historical Change in Storage and Pumping

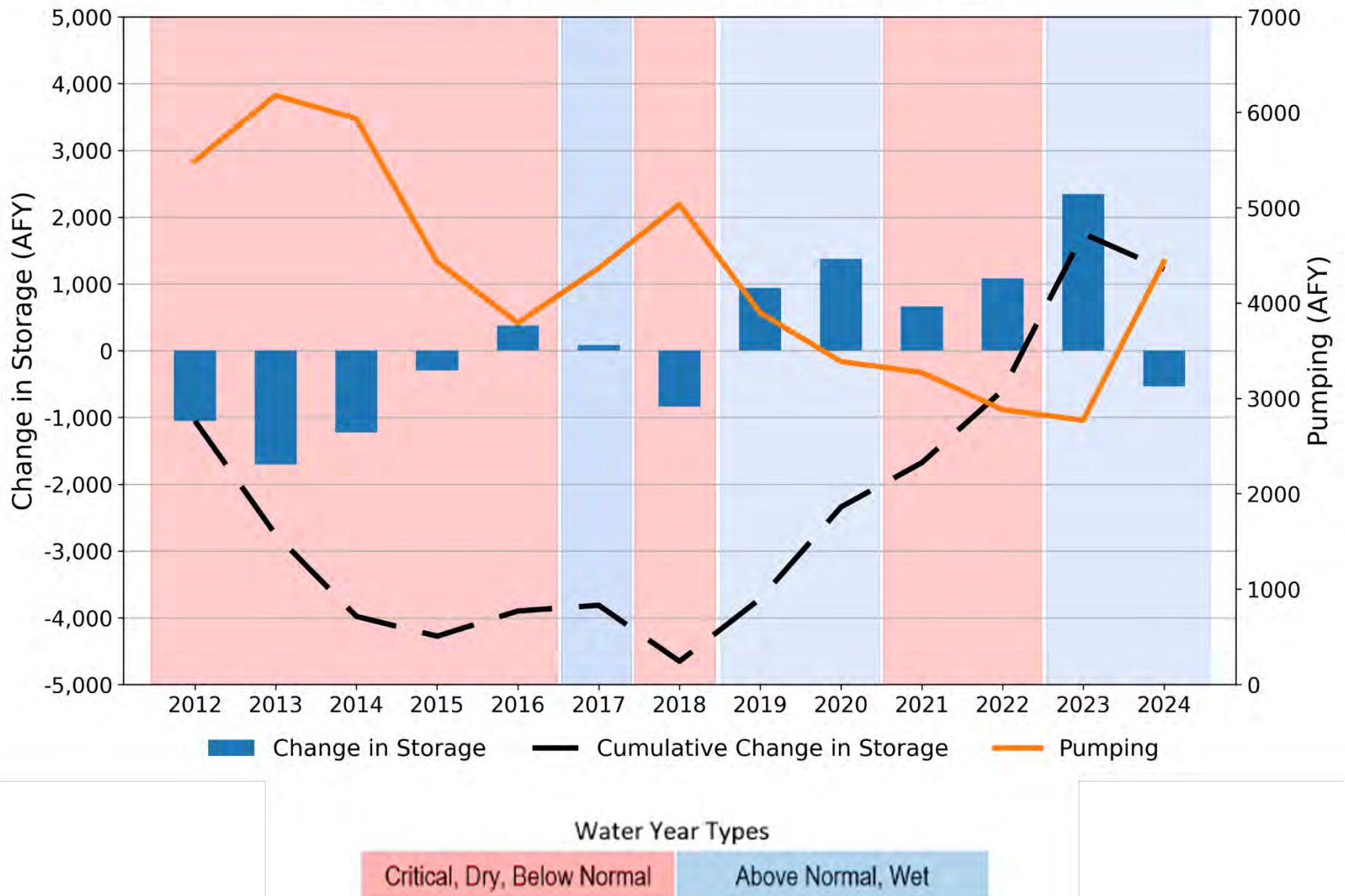
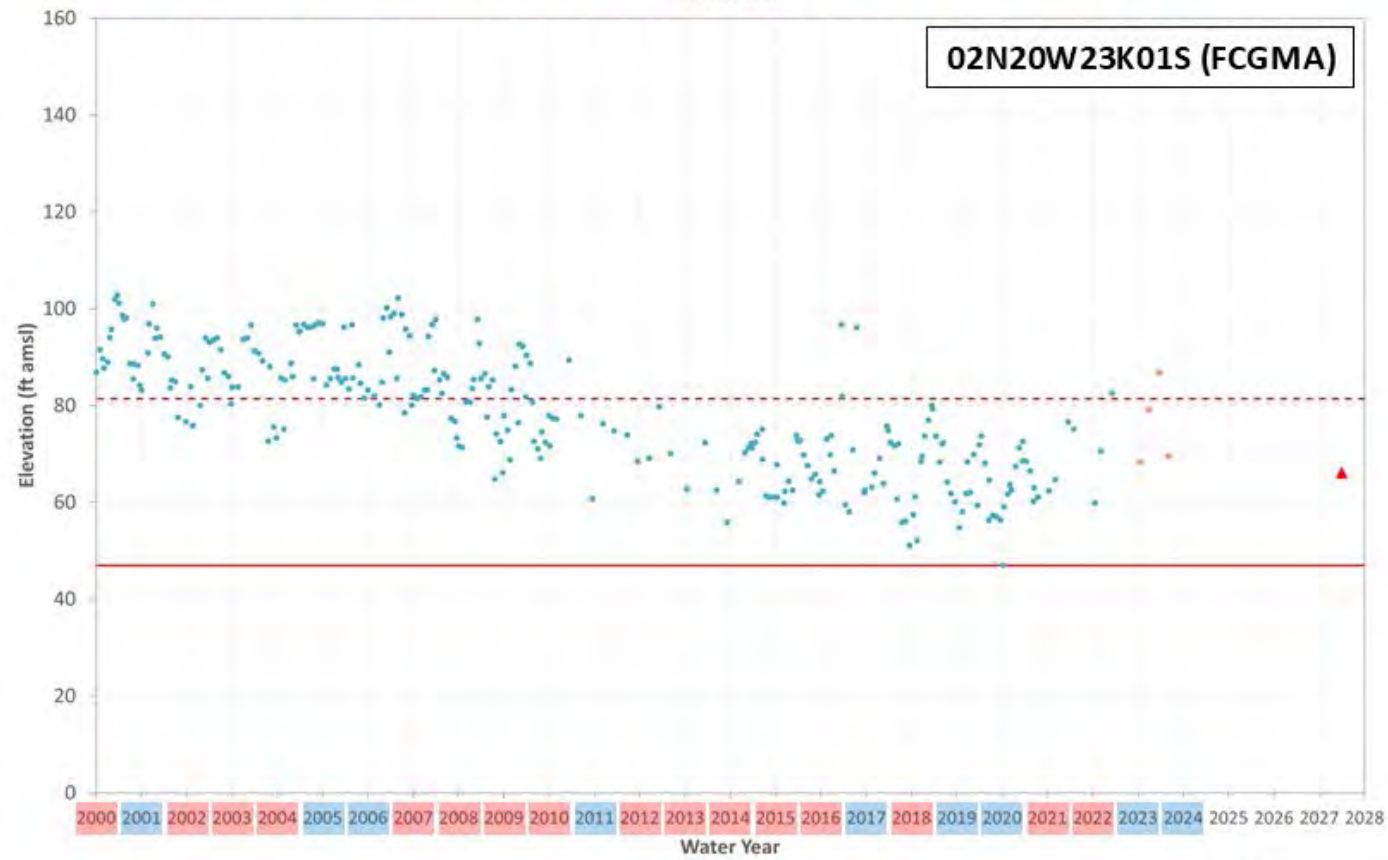
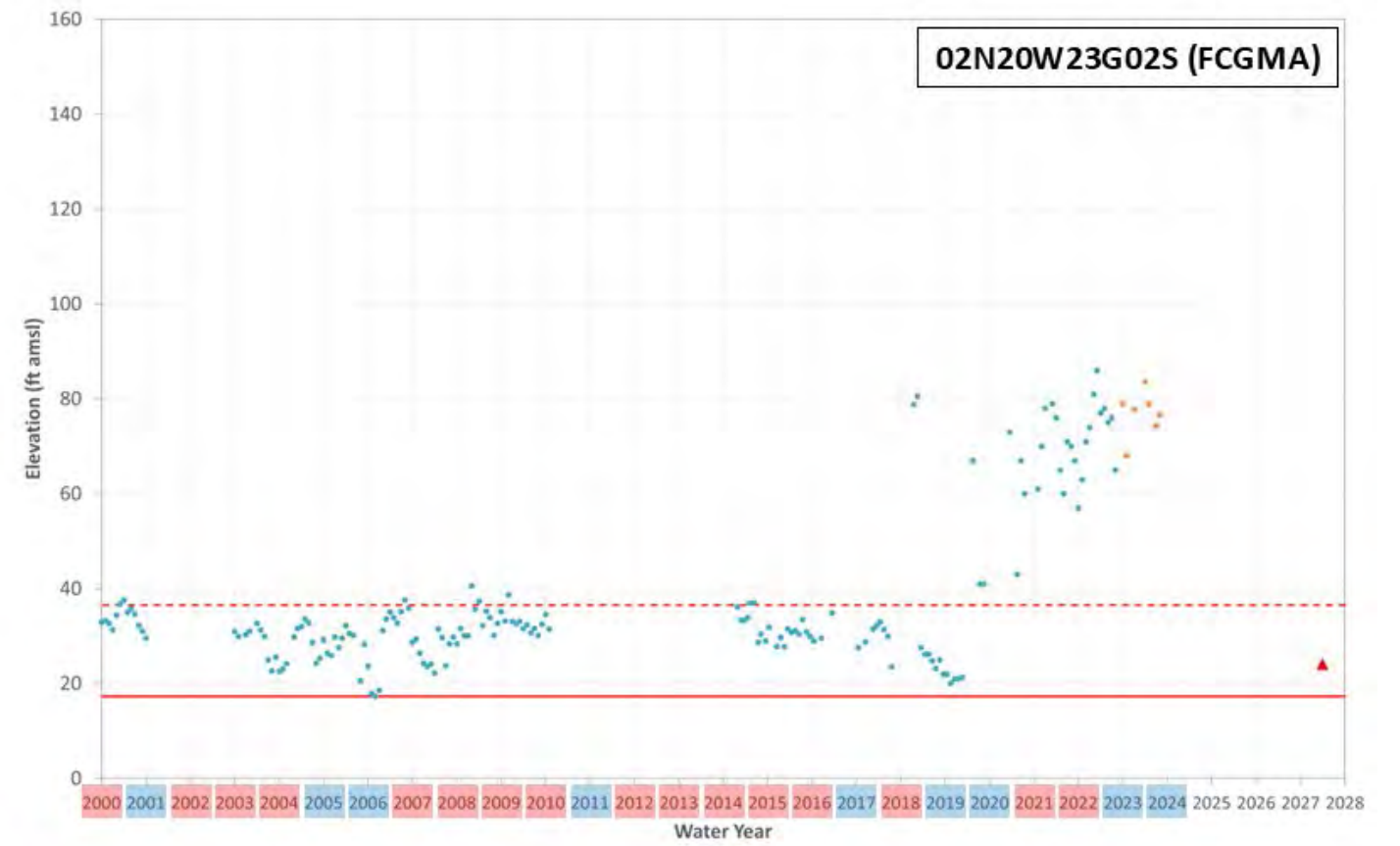


Figure 2.16 Change in Groundwater in Storage with Annual Groundwater Extraction for the ASRVGB.



● Observed Water Level (WY 2024)

● Observed Water Level

— MT

- - - MO

▲ IM

Water Year Types

Critical, Dry, Below Normal Above Normal, Wet

Figure 3.1a Groundwater Level Hydrographs with Minimum Thresholds, Measurable Objectives, and Interim Milestones.

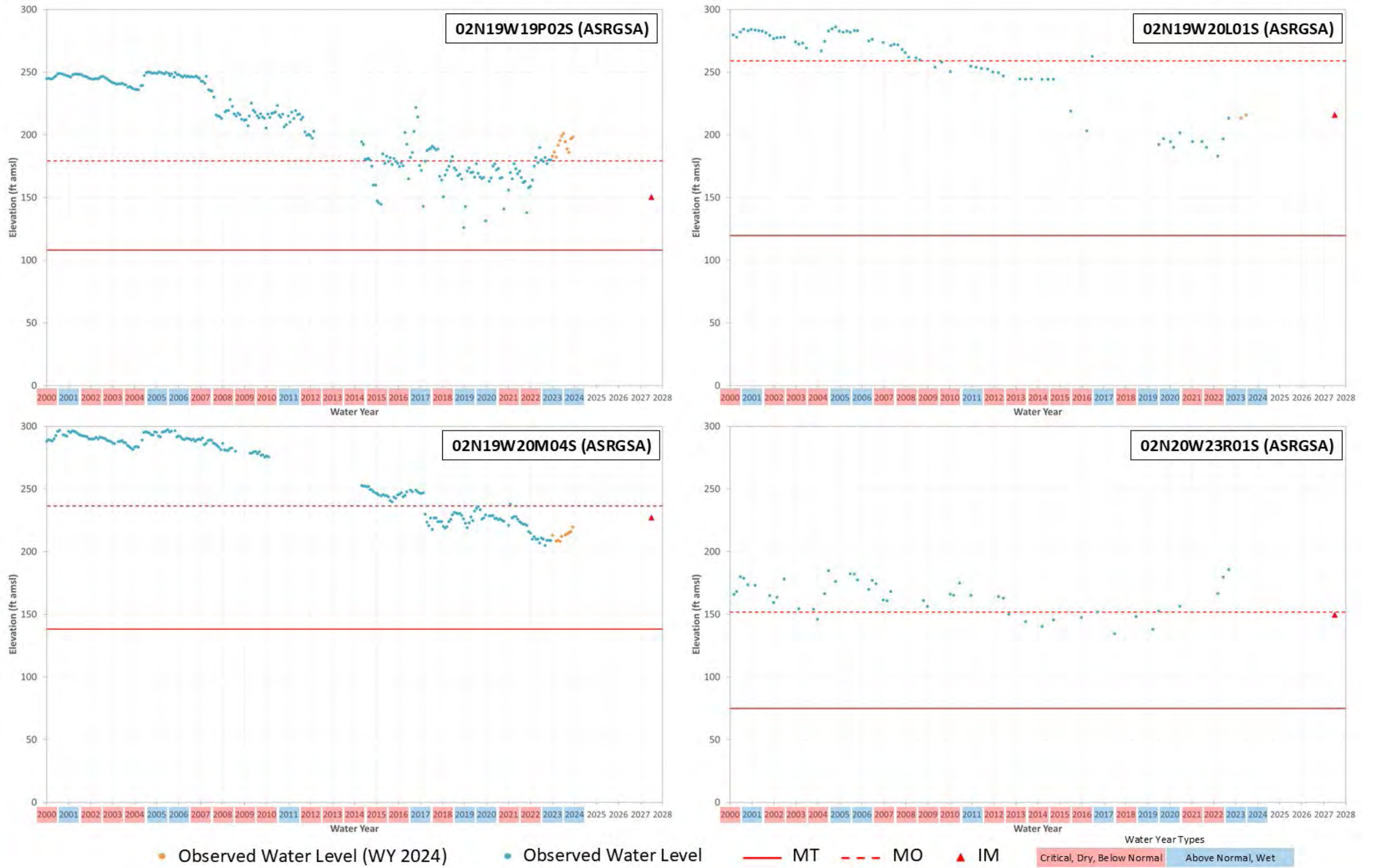


Figure 3.1b Groundwater Level Hydrographs with Minimum Thresholds, Measurable Objectives, and Interim Milestones.

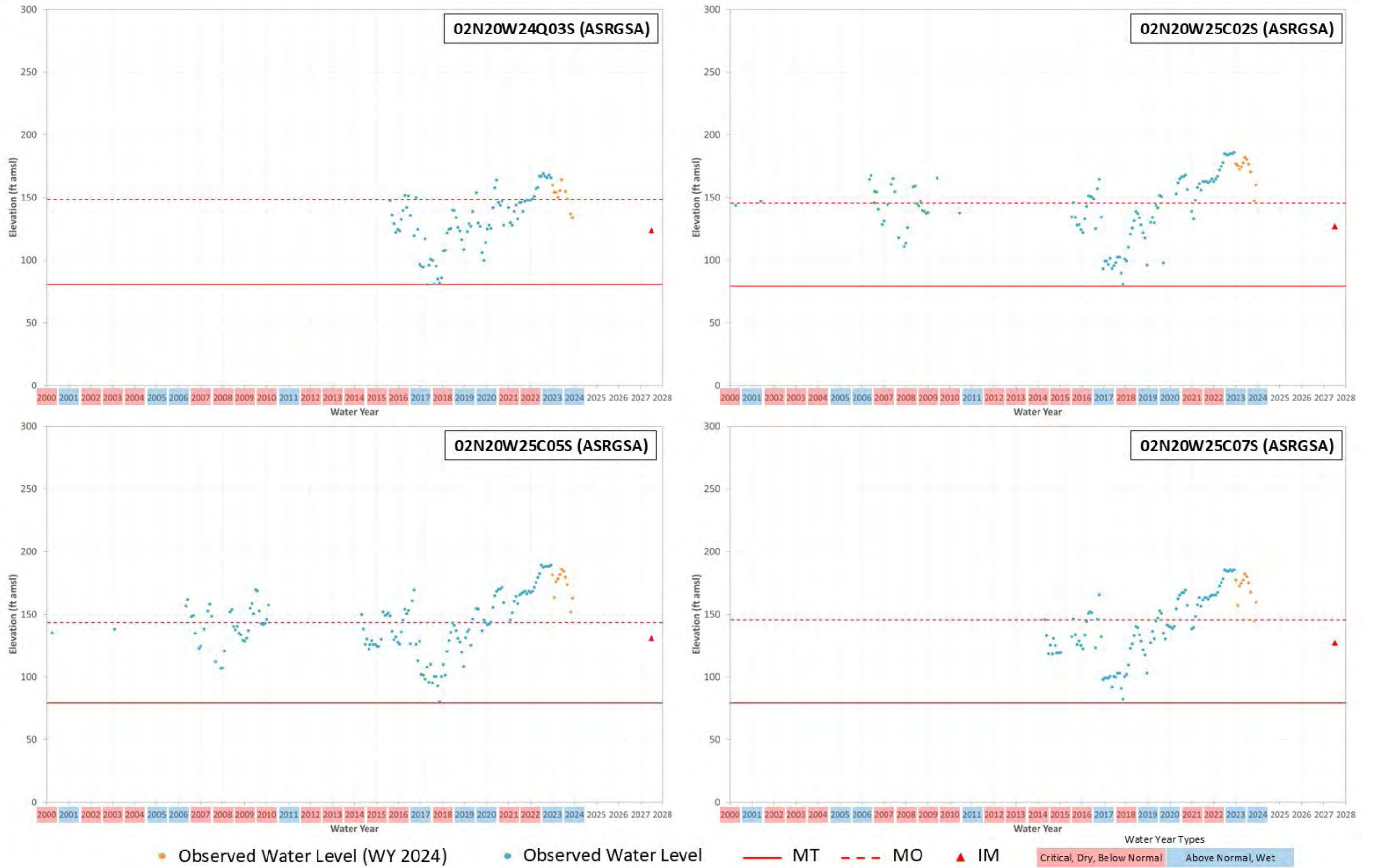


Figure 3.1c Groundwater Level Hydrographs with Minimum Thresholds, Measurable Objectives, and Interim Milestones.

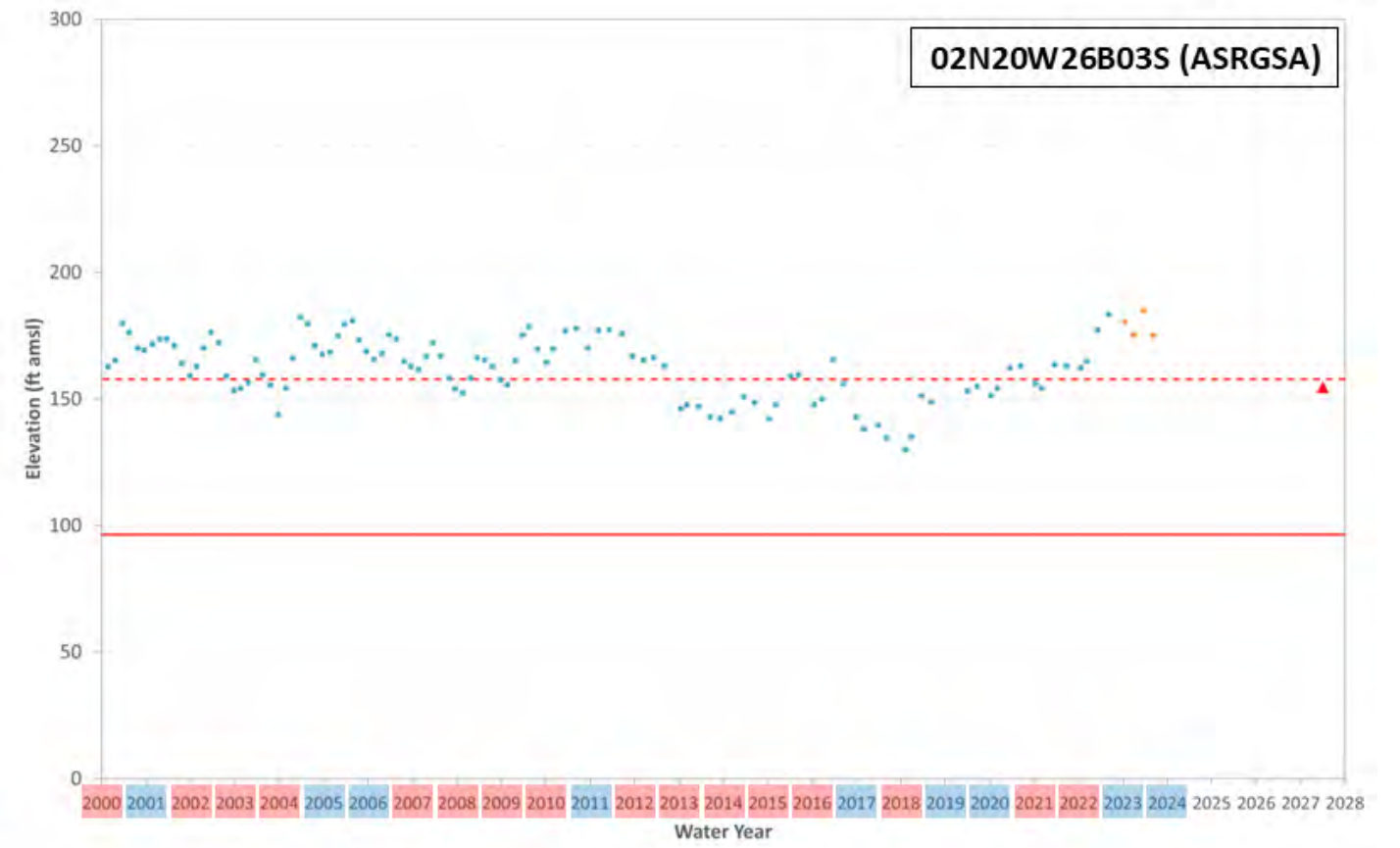
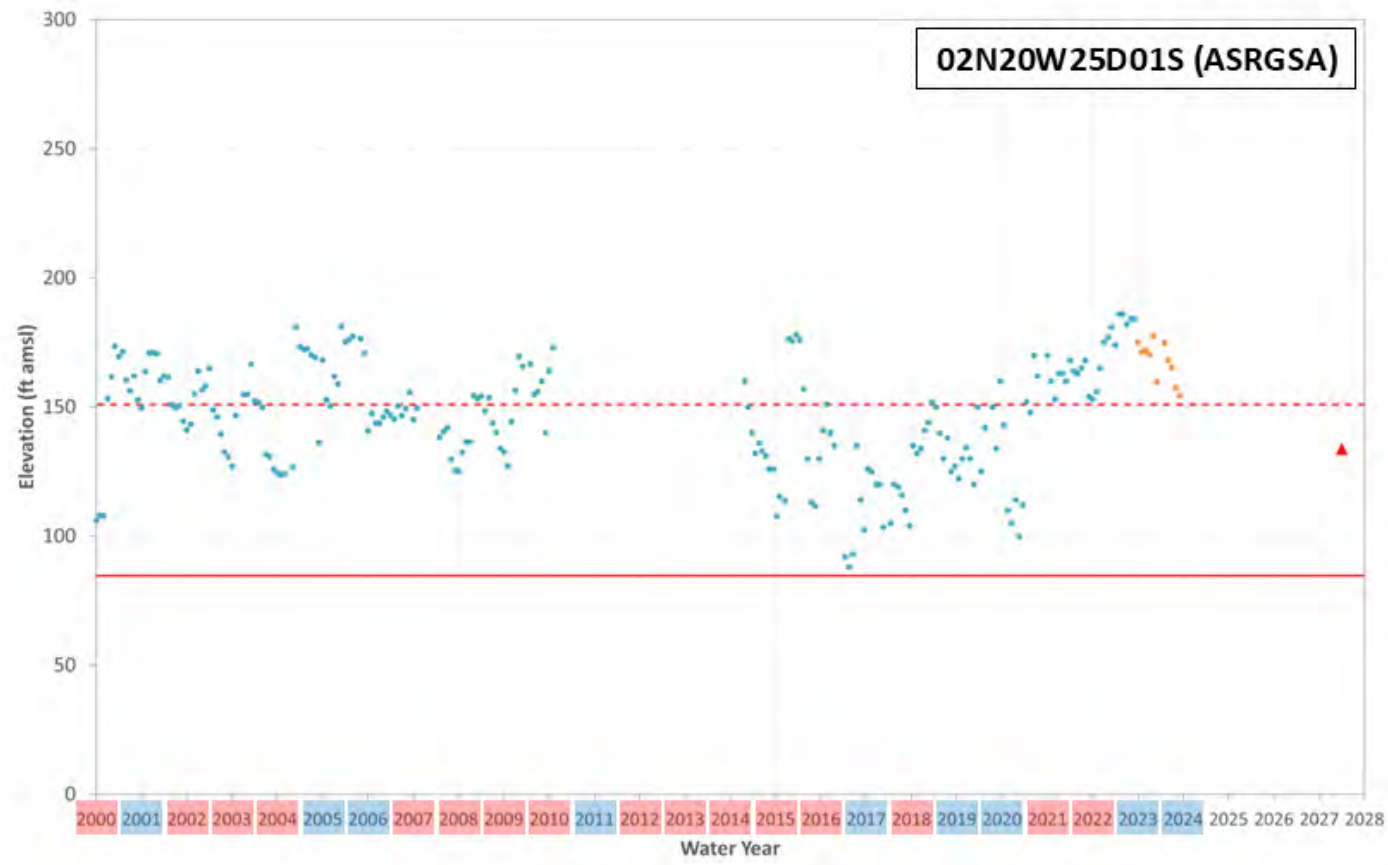


Figure 3.1d Groundwater Level Hydrographs with Minimum Thresholds, Measurable Objectives, and Interim Milestones.

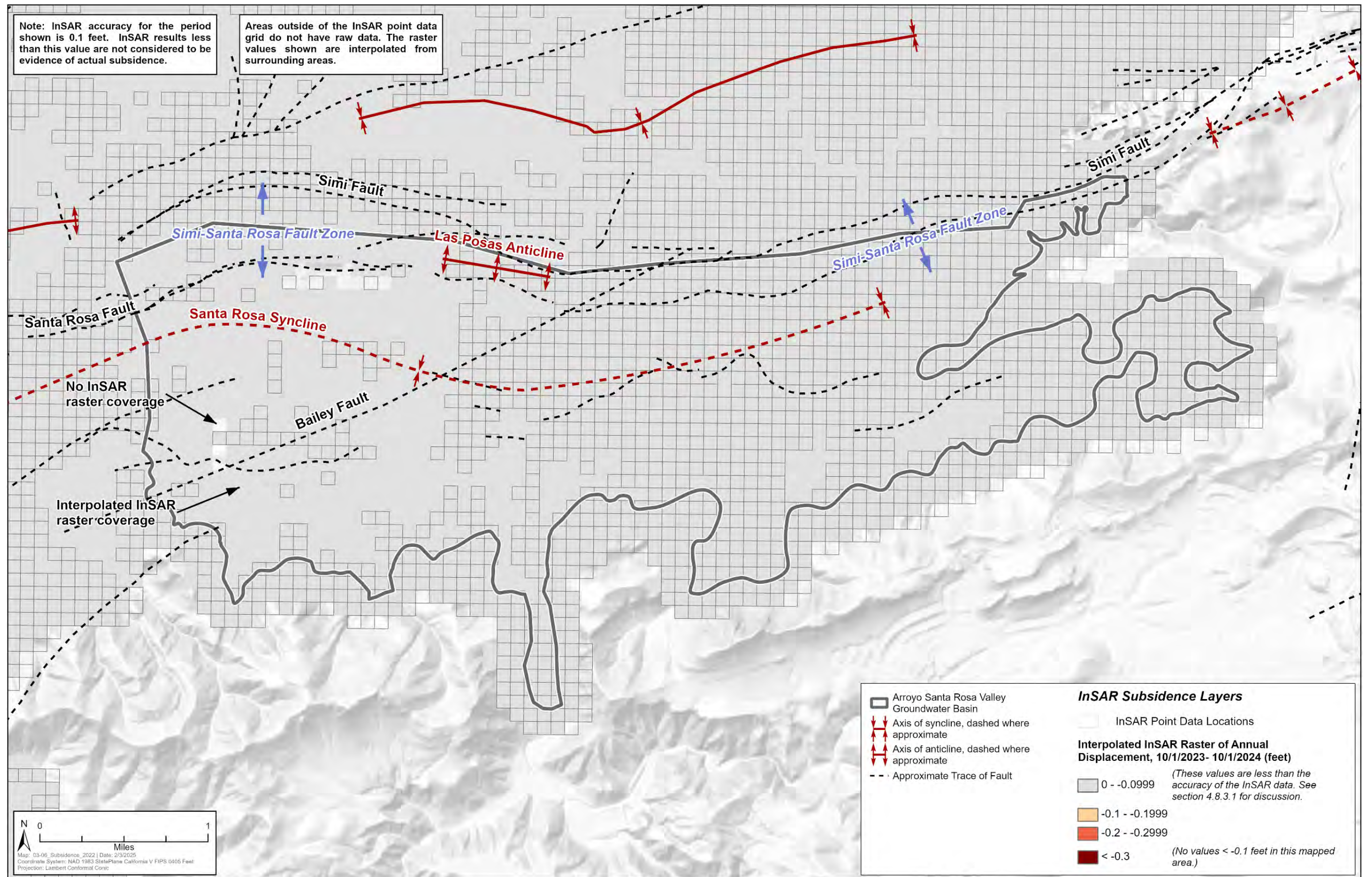


Figure 3.2 Subsidence for ASRVGB Between Water Years 2023 and 2024.

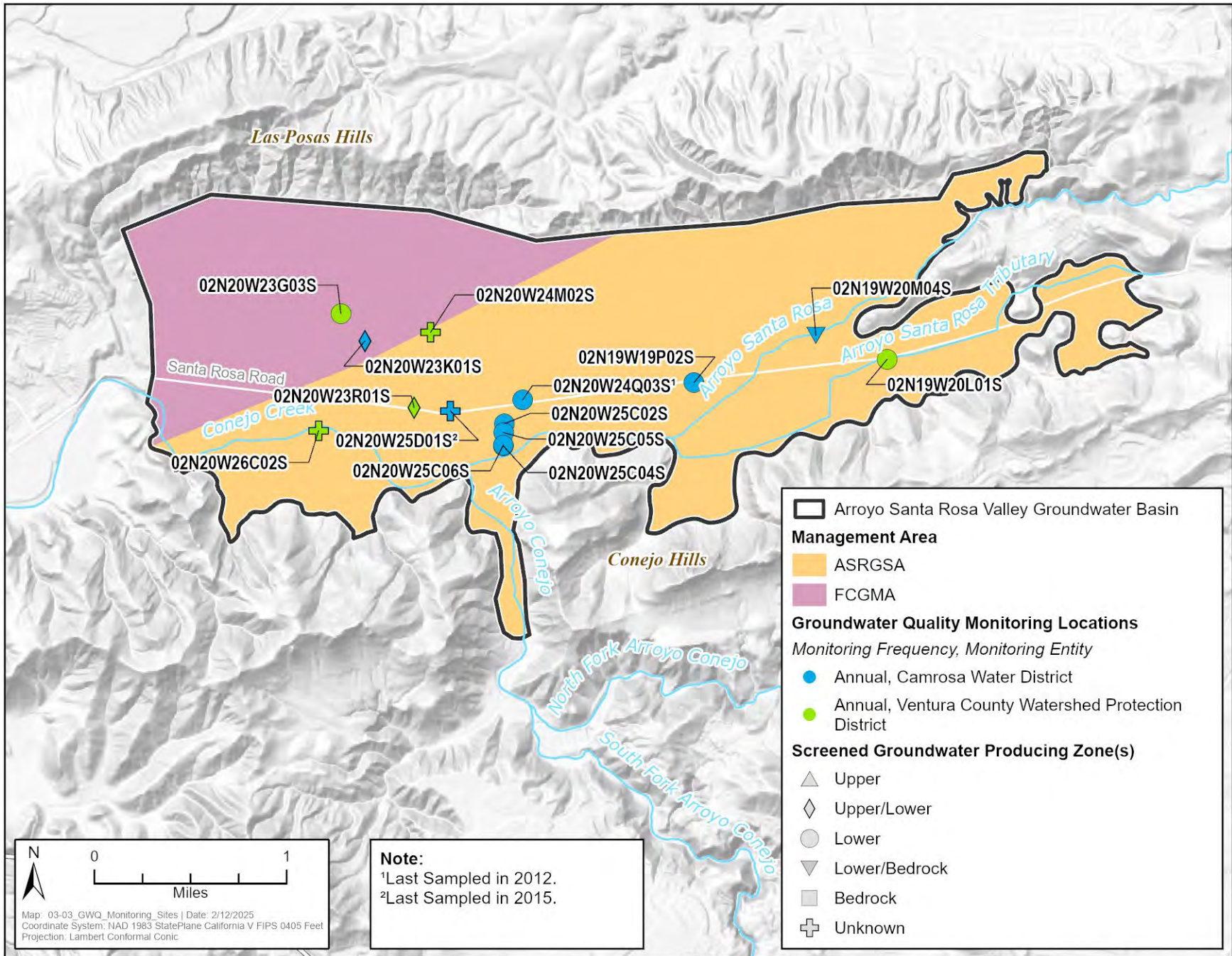


Figure 3.3 Groundwater Quality Monitoring Network Wells.

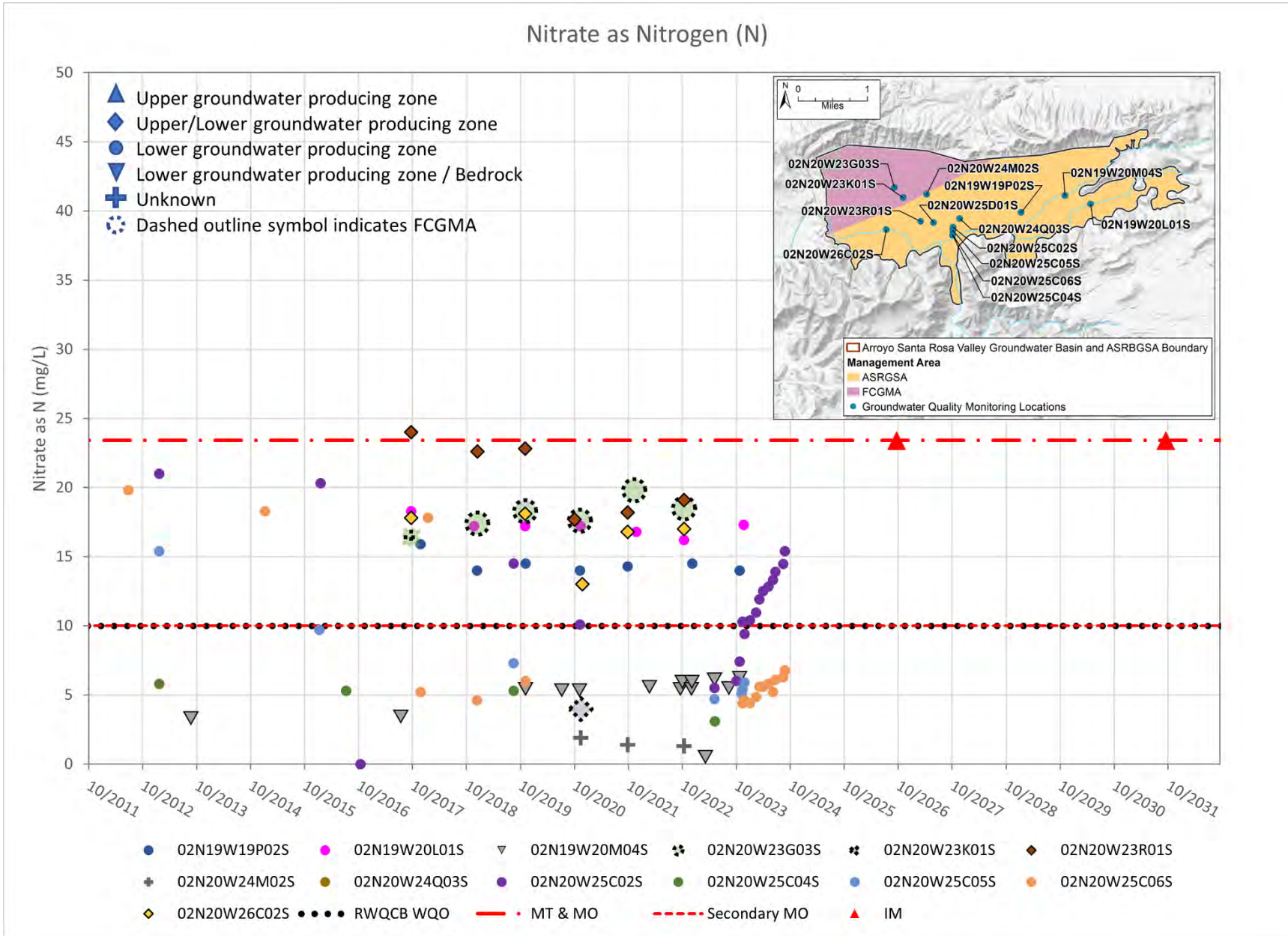


Figure 3.4a Nitrate as N Chemograph with Minimum Thresholds, Measurable Objectives, and Interim Milestones.

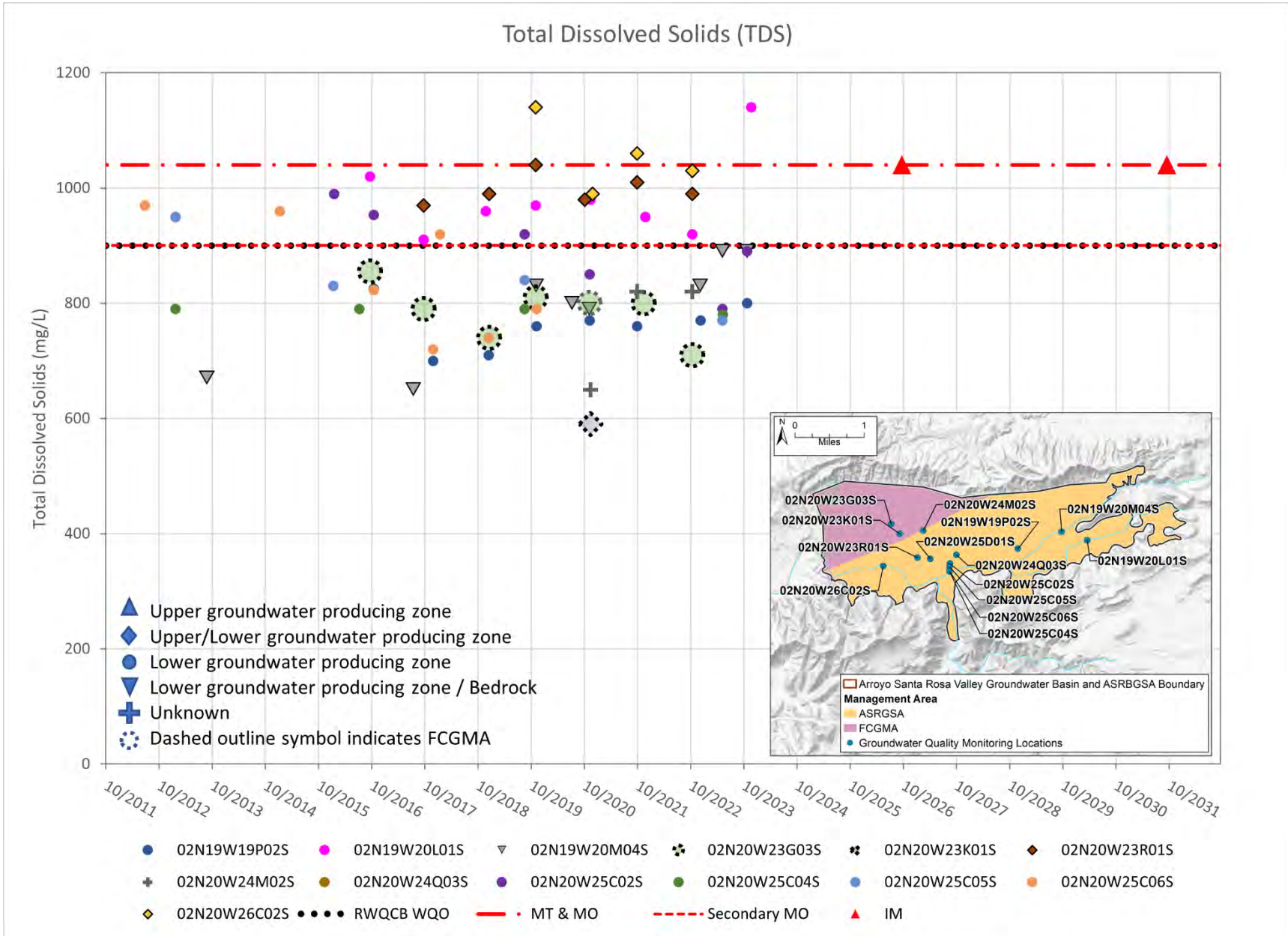


Figure 3.4b Total Dissolved Solids Chemograph with Minimum Thresholds, Measurable Objectives, and Interim Milestones.

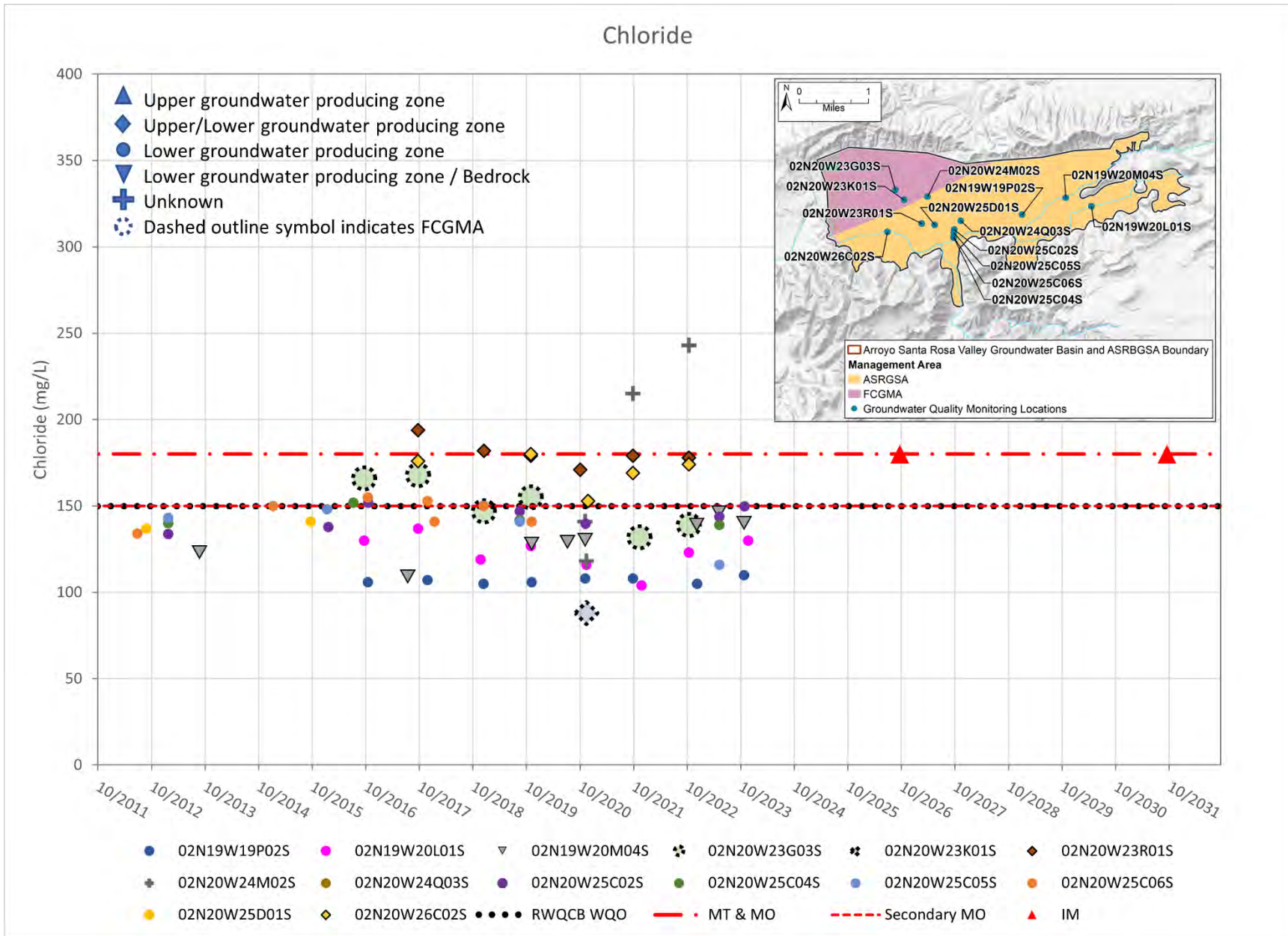


Figure 3.4c Chloride Chemograph with Minimum Thresholds, Measurable Objectives, and Interim Milestones.

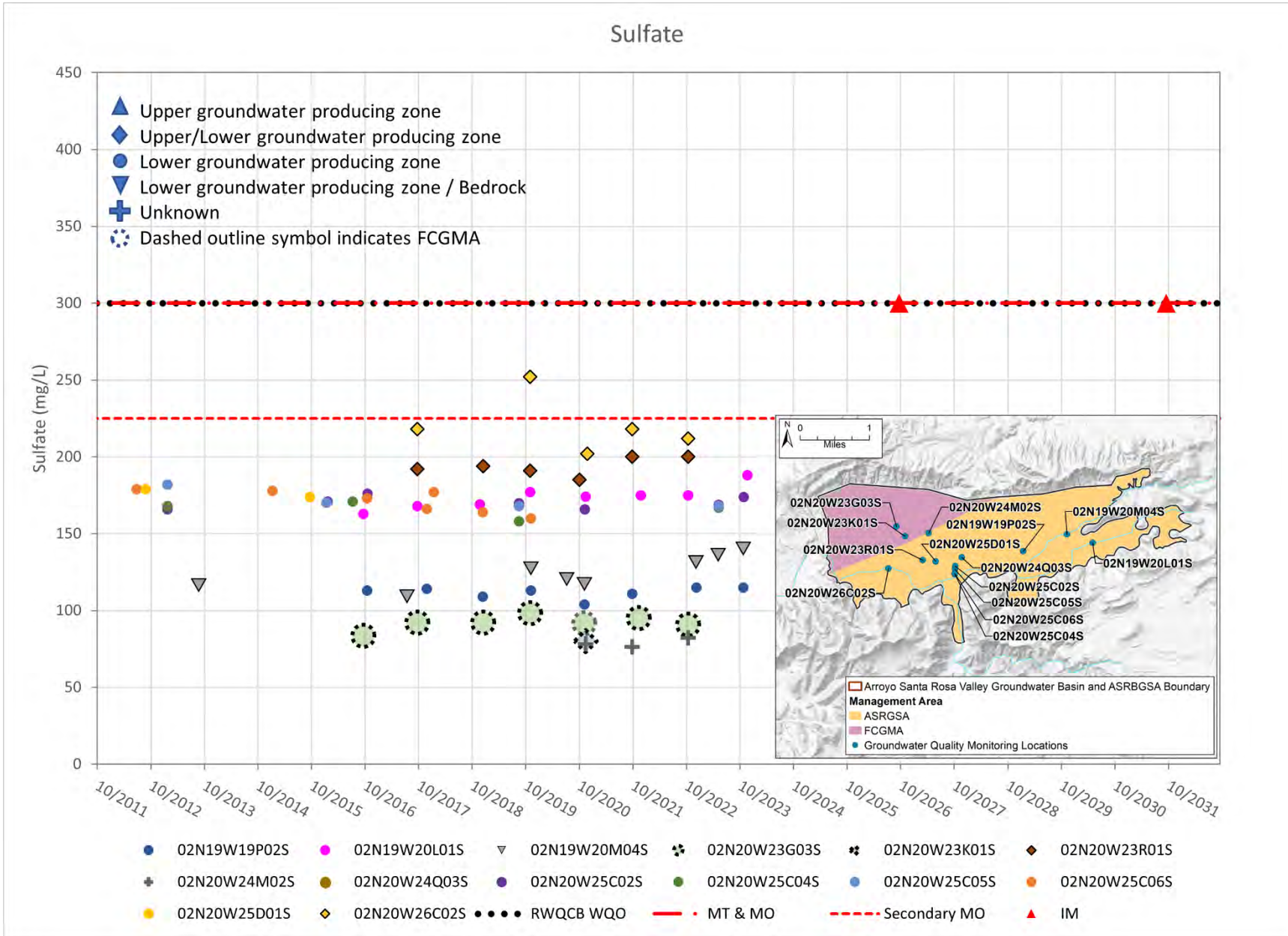


Figure 3.4d Sulfate Chemograph with Minimum Thresholds, Measurable Objectives, and Interim Milestones.

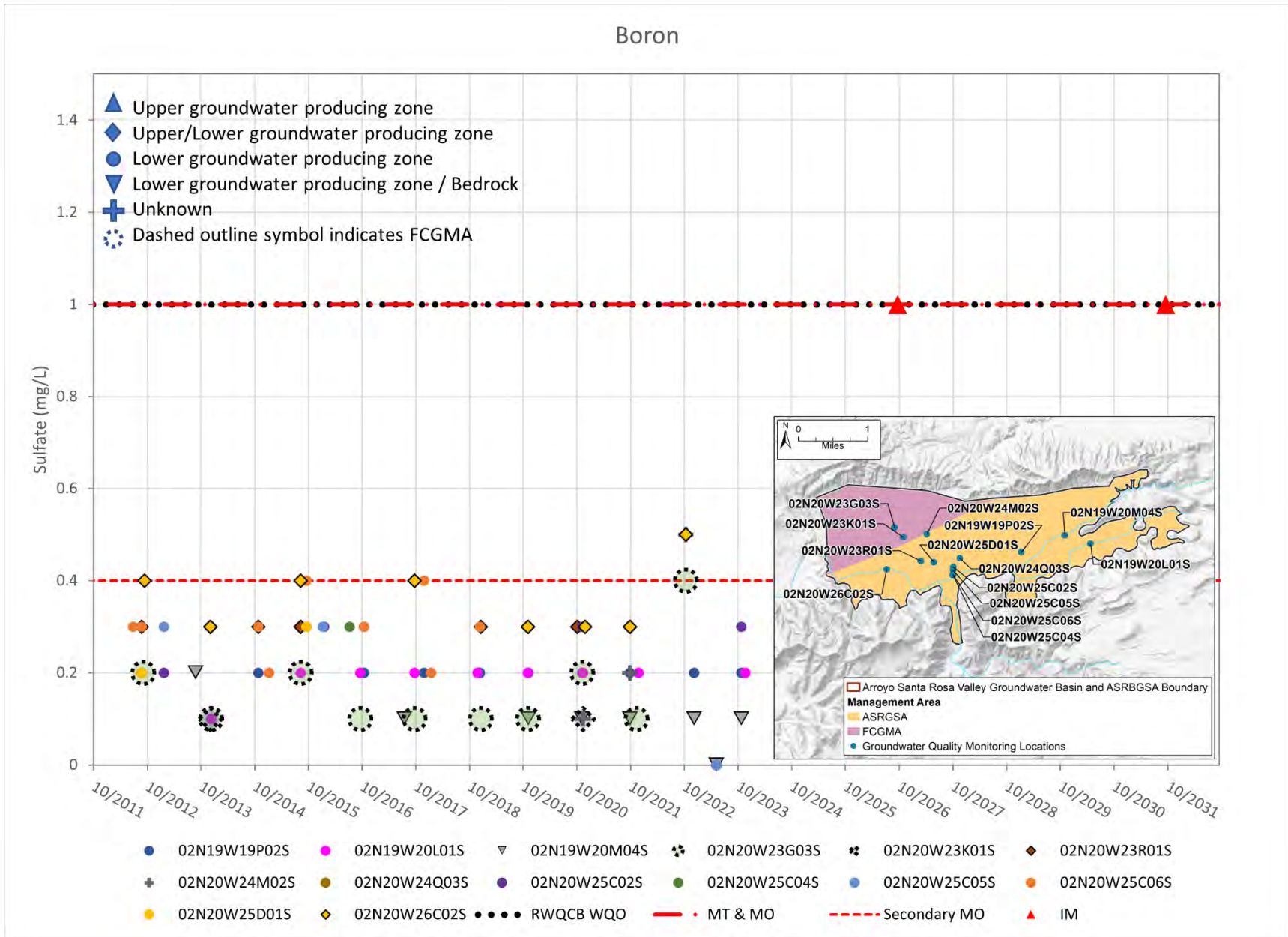


Figure 3.4e Boron Chemograph with Minimum Thresholds, Measurable Objectives, and Interim Milestones.

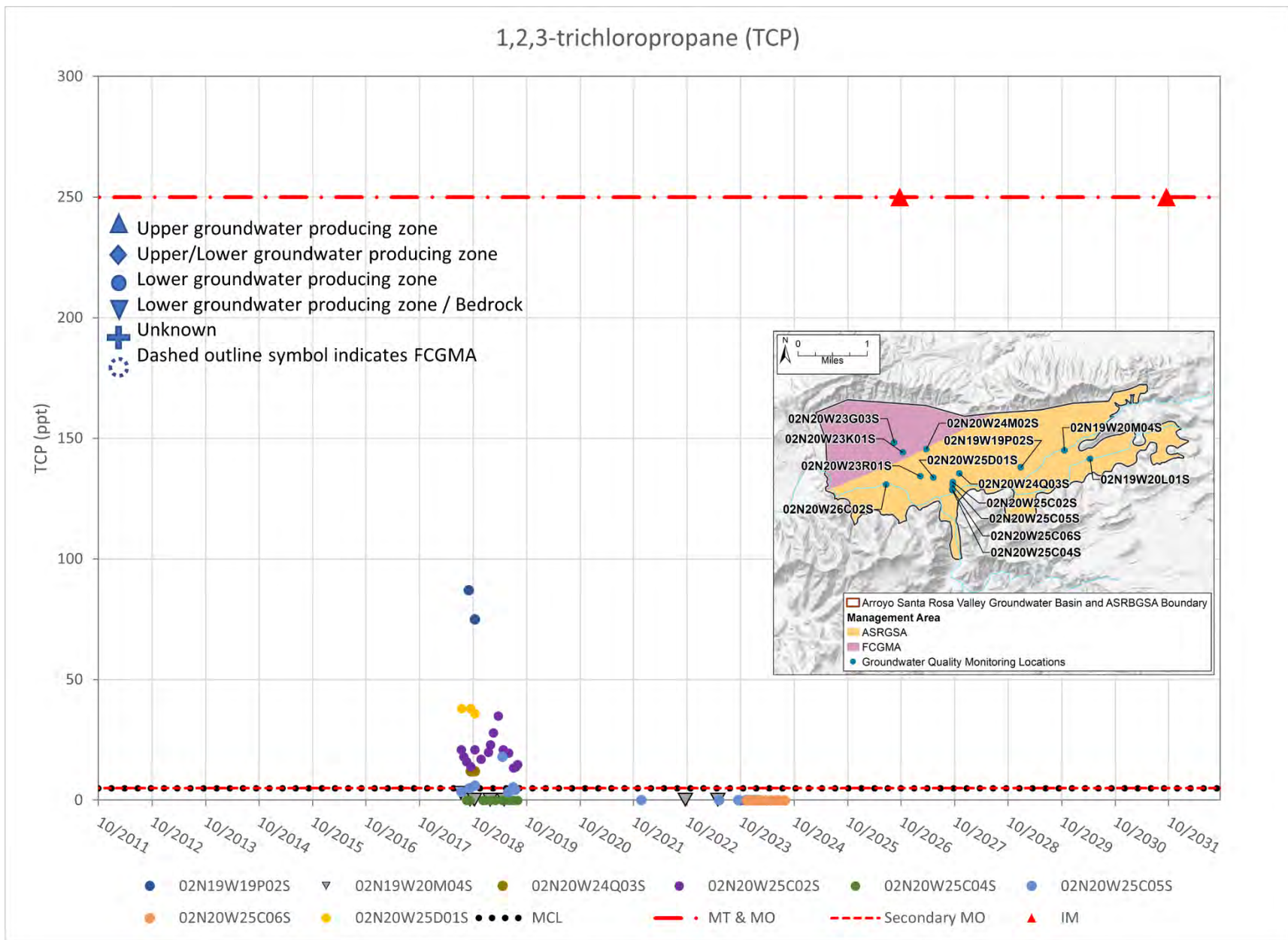


Figure 3.4f 1,2,3-Trichloropropane Chemograph with Minimum Thresholds, Measurable Objectives, and Interim Milestones.

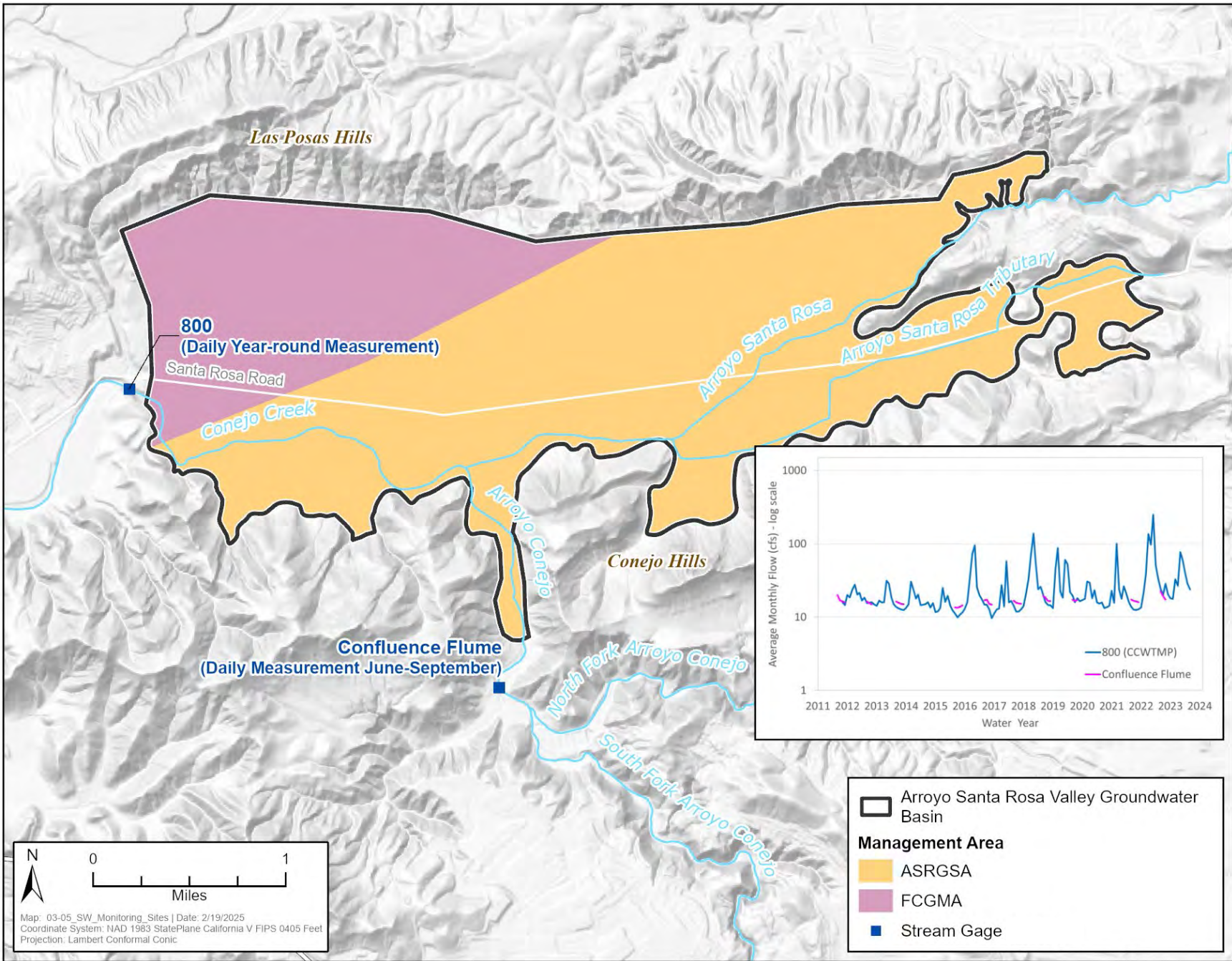


Figure 3.5 Surface Water Monitoring Network Gages.

Annual Total Streamflow Depletion for Arroyo Conejo and Conejo Creek

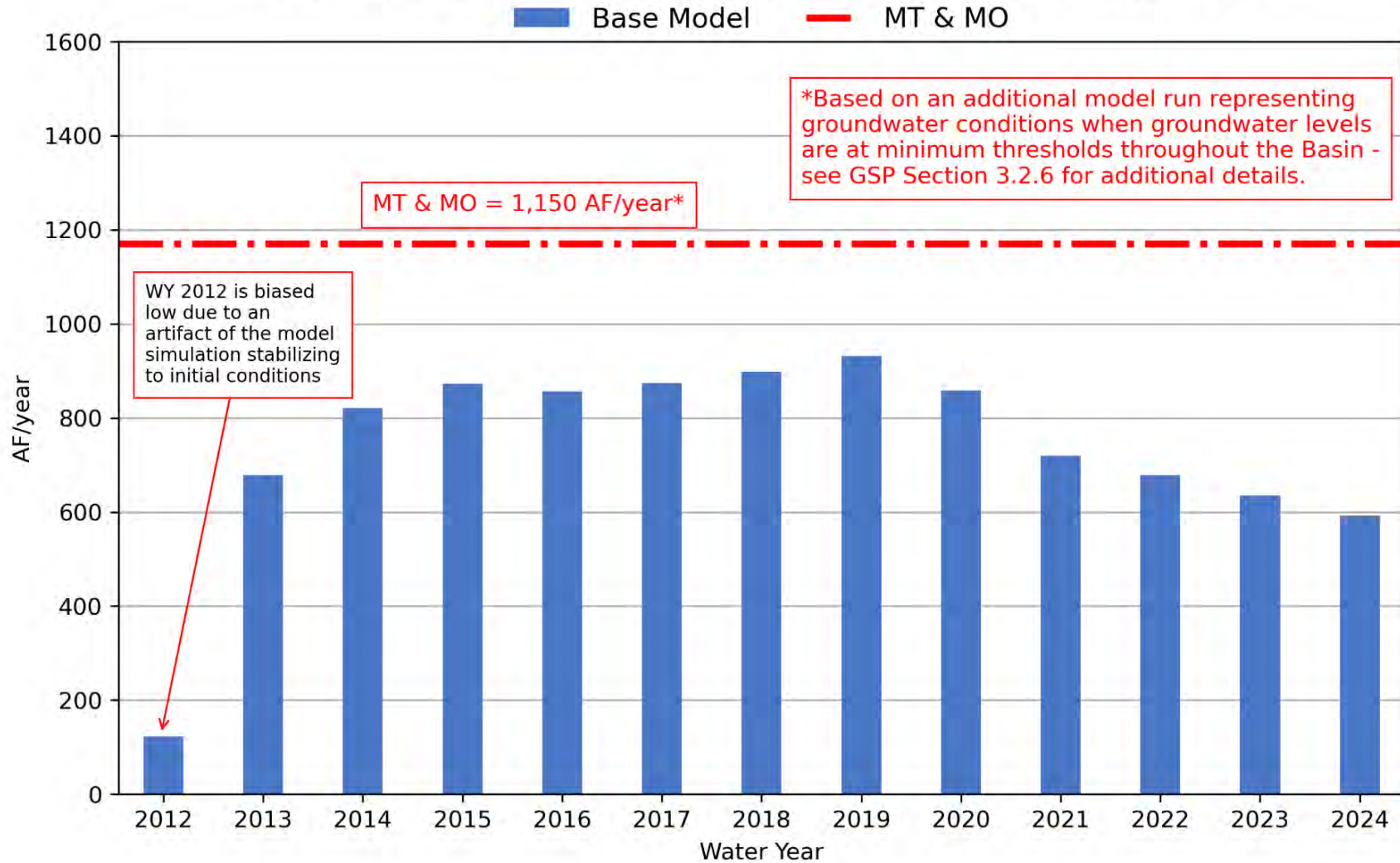


Figure 3.6 Annual Modeled Streamflow Depletion for Arroyo Conejo and Conejo Creek.

Tables

Table 2.1 Groundwater Extraction from ASRVGB by Water Use Sector During Water Year 2024.

| Water Use Sector | Water Year 2024 | Method of Measurement | Accuracy of Measurement |
|---------------------------|-----------------|-----------------------------------|-------------------------|
| | AF/yr | | |
| Agricultural ^a | 2,338 | Direct and Estimated ^b | Medium |
| Municipal and Industrial | 2,098 | Direct ^c | High |
| Domestic | 2.5 | Estimated ^b | Medium |
| TOTAL | 4,439 | | |

Notes:

- Totals may not match sum of values due to rounding

a Agricultural water use includes groundwater extractions sourced from the Camrosa distribution system (see Section 2.5)

b See Appendix G in the GSP (ASRGSA and FCGMA, 2023) for details on estimation methods.

c Based on reported values from Camrosa.

Table 2.2 Total Water Use Within ASRVGB During Water Year 2024.

| Water Year 2024 | | | | | |
|---------------------------------------|---|---|------------|-----------------------------------|-------------------------|
| Water Use Sector | Water Source Type | | Total (AF) | Method of Measurement | Accuracy of Measurement |
| | Groundwater ^a (from inside and outside Basin) (AF) | Surface Water (from outside Basin) (AF) | | | |
| Agricultural ^a | 2,240 | 813 | 3,053 | Direct and estimated ^b | Medium |
| Municipal and Industrial ^c | 667 | 711 | 1,378 | Direct and estimated ^b | High |
| Domestic | 2.5 | 0 | 2.5 | Estimated | Medium |
| TOTALS (AF) | 2,910 | 1,524 | 4,434 | | |

Notes:

- Totals may not match sum of values due to rounding

a Ag demands are met by measured and estimated extraction rates from numerical model inputs (procedures detailed in the GSP Appendix G; ASRGSA and FCGMA, 2023) and ratios of Ag to M&I groundwater and surface water deliveries.

b The ratio of M&I groundwater to surface water used in the basin is estimated based on non-potable and potable deliveries.

c M&I demands are met by ratios of Ag to M&I non-potable and potable deliveries sourced from local groundwater extraction and imported surface water. Imported groundwater supplies the remainder of potable M&I deliveries when not met by the former.

Table 3.1 Sustainable Management Criteria for the Chronic Lowering of Groundwater Levels, Reduction of Groundwater Storage, and Land Subsidence Sustainability Indicators.

| State Well Identification | Groundwater Producing Zones | Frequency of Groundwater Elevation Measurement | Management Area | Chronic Lowering of GW Levels MT | Chronic Lowering of GW Levels MO | IM 5-year | IM 10-year | IM 15-year | IM 20-year | WY 2024 Spring High GW Level |
|---------------------------|-----------------------------|--|-----------------|----------------------------------|----------------------------------|-------------|-------------|-------------|-------------|------------------------------|
| Number | Monitored | 2015-2020 | | (feet amsl) | (feet amsl) | (feet amsl) | (feet amsl) | (feet amsl) | (feet amsl) | (feet amsl) |
| 02N20W23G01S | Upper | Manual quarterly | FCGMA | 70.8 | 92.8 | 76.3 | 81.8 | 87.3 | 92.8 | 75.9 |
| 02N20W23G02S | Upper | Manual monthly | FCGMA | 17.3 | 36.5 | 24.1 | 28.3 | 32.4 | 36.5 | 83.6 |
| 02N20W23K01S | Upper/Lower | Manual monthly | FCGMA | 47 | 81.3 | 66.2 | 71.2 | 76.3 | 81.3 | 86.8 |
| 02N19W19P02S | Lower | Manual monthly | ASRGSA | 108 | 179.3 | 150.6 | 160.1 | 169.7 | 179.3 | 199.0 |
| 02N19W20L01S | Lower | Manual quarterly | ASRGSA | 119.7 | 259.1 | 216 | 230.3 | 244.7 | 259.1 | 216.0 |
| 02N19W20M04S | Lower/Bedrock | Manual monthly | ASRGSA | 138.2 | 236.4 | 227.3 | 230.4 | 233.4 | 236.4 | 212.2 |
| 02N20W23Q02S† | Unknown | Manual monthly | ASRGSA | -- | -- | -- | -- | -- | -- | 200.1 |
| 02N20W23R01S | Upper/Lower | Manual quarterly | ASRGSA | 74.9 | 151.8 | 149.8 | 150.4 | 151.1 | 151.8 | -- |
| 02N20W24Q03S | Lower | Manual monthly | ASRGSA | 80.7 | 148.5 | 124 | 132.2 | 140.3 | 148.5 | 164.4 |
| 02N20W25C02S | Lower | Manual monthly | ASRGSA | 79.2 | 145.4 | 127.1 | 133.2 | 139.3 | 145.4 | 182.1 |
| 02N20W25C05S | Lower | Manual monthly | ASRGSA | 79.2 | 143.3 | 131 | 135.1 | 139.2 | 143.3 | 185.96 |
| 02N20W25C07S | Lower | Manual monthly | ASRGSA | 79.2 | 145.4 | 127.5 | 133.5 | 139.4 | 145.4 | 182.18 |
| 02N20W25D01S | Unknown | Manual monthly | ASRGSA | 84.6 | 150.9 | 133.8 | 139.5 | 145.2 | 150.9 | 159.8 |
| 02N20W26B03S | Unknown | Manual quarterly | ASRGSA | 96.4 | 157.8 | 154.6 | 155.7 | 156.7 | 157.8 | 184.9 |

Notes:

GW = Groundwater
 MT = Minimum Threshold
 MO = Measurable Objective
 IM = Interim Measure

| Color Key: |
|--------------------------|
| MO met |
| 5-year IM met |
| Between MT and 5-year IM |
| MT exceeded |

† Well currently not used to define or monitor sustainable management criteria due to lack of reliable information.

Table 3.2 Water Quality Constituent Minimum Thresholds and Measurable Objectives.

| Constituent | MCL (mg/L) | Sec. MCL | RWQCB | MT ² | MT | MO ³ | MO | Secondary MO ⁴ | FCGMA | ASRGSA |
|----------------|------------|-----------------------|----------|-----------------|---|-----------------|---|---------------------------|---|---|
| | | (R/U/ST) ¹ | WQO | (mg/L) | Rationale | (mg/L) | Rationale | (mg/L) | Average Conc. Representative Monitoring Wells WY 2022 | Average Conc. Representative Monitoring Wells WY 2022 |
| | | (mg/L) | (mg/L) | | | | | | (mg/L) | (mg/L) |
| Nitrate (as N) | 10 | N/A | 10 | 23.4 | Preserve ability to blend with imported water for potable uses. Reduce reliance on imported water for blending. | 23.4 | Preserve ability to blend with imported water for potable uses. Reduce reliance on imported water for blending. | 10 | -- | 8.8 |
| TCP | 5 (ng/L) | N/A | 5 (ng/L) | 250 (ng/L) | Practical limit of concentration for economical carbon change-out frequency of the GAC system. | 250 (ng/L) | Practical limit of concentration for economical carbon change-out frequency of the GAC system. | 5 (ng/L) | -- | ND |
| TDS | N/A | 500/1,000/1,500 | 900 | 1,040 | Prevent further degradation of water quality for all beneficial uses. | 1,040 | Prevent further degradation of water quality for all beneficial uses consistent with RWQCB WQO. | 900 | -- | 930 |
| Sulfate | N/A | 250/500/600 | 300 | 300 | Preserve existing water quality consistent with RWQCB WQO. | 300 | Preserve existing water quality. | 225 | -- | 154.3 |
| Chloride | N/A | 250/500/600 | 150 | 180 | Prevent further degradation of water quality for agricultural beneficial use. | 180 | Prevent further degradation of water quality for agricultural beneficial use consistent with RWQCB WQO. | 150 | -- | 132.5 |
| Boron | N/A | N/A | 1 | 1 | Preserve existing water quality for agricultural beneficial use. | 1 | Preserve existing water quality for agricultural beneficial use. | 0.4 | -- | 0.20 |

Notes:

- 1 Consumer Acceptance Levels, where R = Recommended, U = Upper, and ST = Short Term.
- 2 Undesirable results are considered to occur when all representative monitoring wells in a principal aquifer exceed the minimum threshold concentration for a constituent for two consecutive years.
- 3 Sustainability Goal for degraded water quality for a given constituent is considered to be met when the two-year running average concentration for at least one representative monitoring well is below the measurable objective.
- 4 Secondary MO set as an aspirational goal for the Basin for the purpose of improving overall conditions in the Basin per 354.30(g).

MCL = Maximum Concentration Limit
 mg/L = milligrams per liter
 ng/L = nanograms per liter
 MO = Measurable Objective
 MT = Minimum Threshold
 ND = Non detect

| Color Key: | |
|------------|--------------------------|
| | MO met |
| | 5-year IM met |
| | Between MT and 5-year IM |
| | MT exceeded |

2025 Camrosa Board Calendar

| JANUARY | | | | | | |
|---------|----|----|----|----|----|----|
| S | M | T | W | T | F | S |
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | 31 | |

| FEBRUARY | | | | | | |
|----------|----|----|----|----|----|----|
| S | M | T | W | T | F | S |
| | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | |

| MARCH | | | | | | |
|-------|----|----|----|----|----|----|
| S | M | T | W | T | F | S |
| | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | |

| 2025 Holidays | |
|---|--|
| January 1 st - New Year's Holiday (Observed) | |
| February 17 th - President's Day | |
| May 26 th - Memorial Day | |
| July 4 th - Independence Day | |
| September 1 st - Labor Day | |
| November 11 th - Veteran's Day | |
| November 27 th & 28 th - Thanksgiving | |
| December 24 th & 25 th - Christmas | |
| December 31 st - New Year's Eve | |

| APRIL | | | | | | |
|-------|----|----|----|----|----|----|
| S | M | T | W | T | F | S |
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | | | |

| MAY | | | | | | |
|-----|----|----|----|----|----|----|
| S | M | T | W | T | F | S |
| | | | | 1 | 2 | 3 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

| JUNE | | | | | | |
|------|----|----|----|----|----|----|
| S | M | T | W | T | F | S |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | | | | | |

| 2025 Conferences | |
|--|--|
| CASA Winter Conf. (Palm Springs) Jan. 29 th - 31 st | |
| ACWA Spring Conf. (Monterey) May 13 th - 15 th | |
| CASA 70 th Annual Conf. (San Diego) July 30 th - Aug 1 st | |
| ACWA Fall Conf. (San Diego) Dec 2 nd - 4 th | |

| JULY | | | | | | |
|------|----|----|----|----|----|----|
| S | M | T | W | T | F | S |
| | | 1 | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | 31 | | |

| AUGUST | | | | | | |
|--------|----|----|----|----|----|----|
| S | M | T | W | T | F | S |
| | | | | | 1 | 2 |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | | | | | | |

| SEPTEMBER | | | | | | |
|-----------|----|----|----|----|----|----|
| S | M | T | W | T | F | S |
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | | | | |

| 2025 AWA Meetings | |
|---|--|
| AWA Board Meetings (Highlighted in Orange) | |
| WaterWise Breakfast (Highlighted in Yellow) | |
| April 17 th - Annual Symposium | |
| August - DARK (No events or meetings) | |
| September 18 th - Reagan Library Reception | |
| December 11 th - Holiday Mixer | |

| OCTOBER | | | | | | |
|---------|----|----|----|----|----|----|
| S | M | T | W | T | F | S |
| | | | 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | 31 | |

| NOVEMBER | | | | | | |
|----------|----|----|----|----|----|----|
| S | M | T | W | T | F | S |
| | | | | | | 1 |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | | | | | | |

| DECEMBER | | | | | | |
|----------|----|----|----|----|----|----|
| S | M | T | W | T | F | S |
| | 1 | 2 | 3 | 4 | 5 | 6 |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 | | | |

| 2025 VCSDA Meetings | |
|--|--|
| February 4 th - Annual Dinner | |
| April 1 st | |
| June 3 ^d | |
| August 5 th | |
| October 7 th | |
| December 2 nd | |

Camrosa Water District
7385 Santa Rosa Road
Camarillo, CA 93012

Note: Camrosa Board Meetings are highlighted in **RED**. Board Meetings are held on the **2nd & 4th Thursday** of each month at 5pm unless indicated.

Calleguas Board Meetings are held 1st & 3rd Wednesday - 5:00 PM

Read File