

Beaumont Basin Watermaster

2025 Consolidated Annual Report and Engineering Report

DRAFT

2025 Watermaster Board

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April 2026

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April 1st, 2026

Art Vela, Chairman
Beaumont Basin Watermaster
560 Magnolia Avenue
Beaumont, CA 92223

Subject: **Beaumont Basin Watermaster - Draft Consolidated Annual Report
and Engineering Report for Calendar Year 2025**

Dear Mr. Vela:

ALDA Inc., in association with Thomas Harder & Co. is pleased to submit to you, as Chairman of the Beaumont Basin Watermaster, a draft of the Beaumont Basin Watermaster Annual Report and Engineering Report for Calendar Year 2025. This draft report summarizes all production, spreading, water rights issues, and storage activities that took place during Calendar Year 2025.

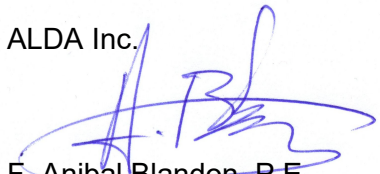
This draft report presents an evaluation of water quality conditions for all domestic wells in the basin during the 2021-2025 five-year period based on information obtained from the Groundwater Ambient Monitoring and Assessment Program. In addition, historical groundwater quality for both domestic and non-domestic wells obtained from the Maximum Benefit Monitoring Program is also included for your review and comment.

We will make a formal presentation to the Watermaster Committee during the Regular Board meeting on April 1st, 2026. We welcome your review and comments on this report and look forward to answering any questions you may have.

Should you have any questions on this matter, please contact us at 909-587-9916 during normal business hours.

Very truly yours

ALDA Inc.



F. Anibal Blandon, P.E.
Principal

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Abbreviations

ac-ft	acre-feet
ac-ft/yr	acre-feet per year
Banning	City of Banning
Basin	Beaumont Basin
BCVWD	Beaumont-Cherry Valley Water District
BMZ	Beaumont Management Zone
Beaumont	City of Beaumont
CDPH	California Department of Public Health
CVCOI	Cherry Valley Community of Interest
CY	Calendar year
FY	Fiscal year
GAMA	Groundwater Ambient Monitoring and Assessment
GQEC	Beaumont Board of Supervisors' Groundwater Quality Evaluation Committee
IRWMP	Integrated Regional Water Management Program
MCL	Maximum Contaminant Level
NL	Notification Level
NTU	Nephelometric Turbidity Units
OSWDS	On-Site Waste Disposal Systems
RCMHP	Rancho Calimesa Mobile Home Park
SGPWA	San Gorgonio Pass Water Agency
SMHOA	Sharondale Mesa Home Owner's Association
SMWC	South Mesa Water Company
STWMA	San Timoteo Watershed Management Authority
STWMP	San Timoteo Watershed Management Program
SWP	State Water Project
TDS	Total Dissolved Solids
UCR	University of California, Riverside
USEPA	United States Environmental Protection Agency
Watermaster	Beaumont Basin Watermaster Committee
YVWD	Yucaipa Valley Water District

Section 1

Background

The 2025 Consolidated Annual and Engineering Report of the Beaumont Basin Watermaster Committee (Watermaster) consolidates the information about the basin initially presented in Annual Reports with the information presented in the bi-annual Engineer's Report. Section 2 of this report documents legal and financial activities as well as minutes of meetings that took place in CY 2025. Section 3 documents the Status of the Basin and Administration of the Judgment and provides a status of conditions in the basin addressing water production, water levels, recharge of supplemental water, water transfers, and storage activities. Current and historical water quality conditions are documented in Section 4. Section 5 briefly discusses the potential for land subsidence in the basin.

1.1 History of the Beaumont Basin Stipulated Judgment

In January 2001, the City of Beaumont (Beaumont), the Beaumont-Cherry Valley Water District (BCVWD), the South Mesa Water Company (SMWC), and the Yucaipa Valley Water District (YVWD) formed the San Timoteo Watershed Management Authority (STWMA). One of the initial tasks of STWMA was to develop a watershed-wide program to develop and implement a comprehensive management program for the San Timoteo watershed.

Phase I of the management program, documented in the San Timoteo Watershed Management Program, Phase I Report (WEI, 2002), included the following goals:

- ✓ Enhancing water supplies
- ✓ Protecting and enhancing water quality
- ✓ Optimizing the management of STWMA area groundwater basins
- ✓ Protecting riparian habitat in San Timoteo Creek and protecting/enhancing habitat in the STWMA area
- ✓ Equitably distributing the benefits and costs of developing the Integrated Regional Watershed Management Program for the San Timoteo watershed

One of the elements identified in the management plan to achieve the listed goals consisted in the establishment of a groundwater management entity for the Beaumont Basin. As a result of this initiative, two groups representing overlying users and water agencies with interest in this basin began negotiations in May 2002.

Over the next 18 months of negotiations, a Stipulated Agreement was developed and submitted to the Court. Honorable Judge Gary Tranbarger of the Superior Court of the State of California for the County of Riverside signed the Agreement, titled "San Timoteo Watershed Management Authority, vs. City of Banning, et al." (Case No. RIC 389197), on February 4, 2004, (the Judgment).

Pursuant to the Judgment, the Court appointed a five-member Watermaster Committee, consisting of representatives from each of the Appropriator parties: City of Banning, City of

Beaumont, Beaumont Cherry Valley Water District (BCVWD), South Mesa Water Company (SMWC), and Yucaipa Valley Water District (YVWD). The effective date of the Judgment for accounting purposes was retroactively established to July 1, 2003.

The Court gave the responsibility of managing the Basin to the Watermaster by approving the Stipulated Agreement but retained continuing jurisdiction should there be any future need to resolve difficult questions among the Parties.

1.2 Essential Elements of the Judgment

Elements of the 2004 Judgment are as follows:

- ✓ All producers shall be allowed to pump sufficient water from the Basin to meet their respective requirements.
- ✓ The Initial Safe Yield of the Basin was established at 8,650 ac-ft/yr to be distributed among the Overlying Producers. The Safe Yield of the Basin is to be re-evaluated every 10 years, at a minimum.
- ✓ The Overlying Parties can extract a combined total of 8,650 ac-ft/yr with individual rights set for each Overlying Producer in an amount up to that set forth in column 4 of Exhibit B of the Judgment. If an Overlying Party pumps more than five times its share of the operating Safe Yield in any five consecutive years, the overlying producer shall provide Watermaster with sufficient funds to replace the overproduction.
- ✓ When an Overlying Party receives water service by an Appropriator Party, the Appropriator Party providing such service shall have the right to produce the volume of water foregone by the Overlying Party.
- ✓ A controlled overdraft of the basin was allowed to create enough additional storage capacity to prevent the waste of water. This controlled overdraft, also known as *Temporary Surplus*, allows Appropriators to extract up to 160,000 ac-ft of water from the basin over the 10-year period immediately following the Judgment inception. The Temporary Surplus ceases after the initial 10 years of operations.
- ✓ During the first ten years after adoption of the Judgment, the Appropriators have the right to extract, as a whole, a maximum of 16,000 ac-ft/yr not including storage credits from spreading supplemental water or transfers from Overlying Parties. The Temporary Surplus was divided among the Appropriators as follows:
 - Beaumont Cherry Valley WD 42.51 percent or 6,802 ac-ft/yr
 - City of Banning 31.43 percent or 5,029 ac-ft/yr
 - South Mesa Water Company 12.48 percent or 1,997 ac-ft/yr
 - Yucaipa Valley Water District 13.58 percent or 2,173 ac-ft/yr
- ✓ After the first 10 years of operation, Appropriators can extract only the amount each has in storage or credited to them.

- ✓ The Watermaster shall levy and collect assessments in each year, in amounts sufficient to purchase replenishment water to replace Overproduction by any Party from the prior fiscal year.
- ✓ The Watermaster has the authority to enter into Groundwater Storage Agreements with local and regional agencies for the storage of supplemental water, wellhead protection and recharge, well abandonment, well construction, monitoring, replenishment, mitigation of overdraft, and collection of assessments.
- ✓ Supplemental replenishment water can be in the form of recycled water, imported State Project Water, or other imported water. Replenishment can be accomplished by spreading and percolation, injection, or in-lieu use of surface water or imported water.
- ✓ A minimum of 200,000 ac-ft of groundwater storage capacity was reserved for conjunctive use. Any person, party to the Judgment can make reasonable beneficial use of the groundwater storage capacity for storage of supplemental water provided that it is in accordance with a storage agreement with Watermaster.
- ✓ Minimal producers, those producing less than 10 ac-ft/yr from the basin, and not listed in the Judgment, are exempt from the provisions of the Judgment.

1.3 2025 Legal Rulings Relating to the Judgment

There were no legal rulings relating to the Judgment during CY 2025.

1.4 Watermaster Responsibilities

Under the Judgment, the Watermaster is granted discretionary powers to develop and implement a groundwater management plan for the Beaumont Basin, including water quality and quantity considerations and being reflective of the provisions of the Judgment.

In carrying out its duties, Watermaster is responsible for providing the legal and practical means of ensuring that the waters of the Basin are put to maximum beneficial use. Specific responsibilities are summarized below.

1.- Administer the Beaumont Basin Judgment. Watermaster operates under the Judgment and the Rules and Regulations, originally adopted June 8, 2004. The Rules and Regulations have been amended a number of times since with the most recent amendment in December 2022, as documented under Resolution 2022-09. The Judgment and the Rules and Regulations establish the procedures by which Watermaster accounts for the water resources of the Basin. Watermaster has the power to collect administrative assessments from all Appropriators and replenishment assessments from those parties (Appropriative and Overlying) pumping in excess of their pumping right to fund its operations. Each year, Watermaster publishes an Annual Report, which documents groundwater production, recharge activities, water transfers between Appropriators, transfers of water rights from an overlying member to an appropriator in the Beaumont Basin.

2.- Approve Producer Activities. All producers must notify and obtain approval, as necessary, from Watermaster for activities, such as recharging water, transferring or exchanging water, storing local water, and storing or recovering supplemental water.

3.- Maintain and Improve Water Supply. On an annual basis, Watermaster determines the amount of groundwater that each producer is entitled to pump from the Basin without incurring a replenishment obligation. Further, Watermaster is responsible for facilitating and coordinating the acquisition, recharge, and storage of imported water or other local supplemental water to replenish and/or conjunctively manage the Basin to increase local supplies.

4.- Monitor and Understand the Basin. Watermaster is responsible for collecting information from producers, and other cooperating agencies, in order to enhance its knowledge of how the Basin works and manage it more effectively. Information collected by the Watermaster includes:

- ✓ Water production, water level, and water quality information from the Appropriator Parties.
- ✓ Water production and water level information from the Overlying Parties.
- ✓ Water level and water quality data collected by local agencies as part of their Maximum Benefit Monitoring Program for the Beaumont Management Zone.
- ✓ Ground surface elevations from periodic surveys conducted to determine whether ground subsidence may be occurring as a result of over pumping from the basin.

5.- Maintain and Improve Water Quality. Watermaster coordinates and participates in local efforts to preserve and/or enhance the quality of groundwater in the Basin. It assists and encourages regulatory agencies to enforce water quality regulations that may have an effect on the Basin groundwater sources and its surrounding resources. One of these programs is the Maximum Benefit Monitoring Program of the Beaumont Management Zone.

6.- Develop and Administer a Well Policy. Watermaster is responsible for developing a policy on the proper construction and abandonment of wells in the Basin. Through the adoption of Resolution 2004-04, the Watermaster adopted minimum standards for the construction, repair, abandonment and destruction of groundwater extraction wells in the Beaumont Basin. As part of this resolution, Watermaster adopted Riverside County Ordinance No. 682.3 and expanded it to require the installation of a sounding tube in order to facilitate the measurement of water levels on all future wells.

7.- Develop Contracts for Beneficial Programs and Services. Watermaster is responsible for developing and entering into contracts for programs and services that are beneficial to the Basin on behalf of the Parties to the Judgment. This includes programs for conjunctively utilizing the Basin for the storage of supplemental water with other agencies and programs to implement and expand the direct or indirect use of recycled water.

8.- Provide Cooperative Leadership. Watermaster may act jointly or cooperate with other local, state, and/or federal agencies to develop and implement regional scale programs for the management of the Basin and its surrounding resources.

1.5 Watermaster Address

For the purposes of conducting Watermaster business and maintaining records, Watermaster's official address remains as follows:

Office of the Watermaster Secretary
C/O Beaumont-Cherry Valley Water District
560 Magnolia Avenue
Beaumont, CA 92223

1.6 Watermaster Website

Watermaster website address is www.beaumontbasinwatermaster.org. This website is maintained by YVWD and it is used by the Watermaster to communicate its activities to the Parties and the public. The website contains copies of the Judgment, the Rules and Regulations, Annual Reports, and Engineer's Reports. In addition, it contains meeting minutes, meeting agendas, and other documents of interest.

1.7 Mission Statement

Watermaster adopted the following mission statement in October 2004:

"Watermaster's mission is to manage the yield of and storage within the Beaumont Basin to provide maximum benefit to the people dependent on it."

Section 2

Watermaster Activities

2.1 Makeup of the Watermaster Committee

During the February 4, 2025 Regular meeting of the Beaumont Basin Watermaster, the current Watermaster Committee Officers were re-affirmed to their respective positions for 2025 as follows:

- ✓ Mr. Art Vela – Chairman
- ✓ Mr. Dave Armstrong – Vice Chairman
- ✓ Mr. Dan Jagers – Secretary
- ✓ Mr. Joseph Zoba – Treasurer

The Watermaster Representatives serving each Appropriative Party at the end of CY 2025 were as follows:

Agency	Representative	Alternate
City of Banning	Art Vela	Nathan Smith
City of Beaumont	Robert Vestal	Dustin Christensen
Beaumont Cherry Valley Water District	Daniel Jagers	Mark Swanson
South Mesa Water Company	Dave Armstrong	Britanny Lim
Yucaipa Valley Water District	Joseph Zoba	Jennifer Ares

Legal counsel during CY 2025 was provided by Frost Brown Todd LLC, represented by Thierry Montoya, while Engineering Services were provided by Thomas Harder & Company, represented by Thomas Harder, in association with ALDA Inc., represented by Anibal Blandon. Administrative Services were provided by Dudek, represented by Steve Stuart.

2.2 Watermaster Accomplishments and Activities During CY 2025

2.2.1 Watermaster Meetings

A total of four regular meetings were held during CY 2025 on the following dates:

- ✓ February 5, 2025
- ✓ April 2, 2025
- ✓ October 1, 2025
- ✓ December 3, 2025

In addition, there were three Special Meetings during CY 2025 on the following dates:

- ✓ March 5, 2025
- ✓ June 11, 2025
- ✓ August 6, 2025

Agendas for each of the above regular and special meetings can be viewed at and/or downloaded from Watermaster's website or by making a request to the Watermaster Secretary. Pursuant to Resolution 2009-01, all of Watermaster's public records are open for inspection during office hours, provided that a written request to inspect said records has been submitted.

2.2.2 Watermaster Committee Resolutions

There were no resolutions adopted by the Watermaster Committee during CY 2025.

2.2.3 Items Discussed in CY 2025

This section is a summary of topics addressed at Watermaster meetings during CY 2025. The Beaumont Basin Watermaster maintains official meeting minutes that report the items discussed and actions taken during normal and special meetings. Signed official copies of the minutes for all regular and special meetings that took place during the year are included in Appendix A. Official meeting minutes may also be accessed at the Beaumont Basin Watermaster website: www.beaumontbasinwatermaster.org

The following items were discussed during the five regular meetings and five special meetings held in CY 2024 along with their resulting outcome.

Items Discussed During February 5, 2025 Regular Watermaster Committee Meeting

- ✓ *A.- Reorganization of the Beaumont Basin Watermaster Committee – Chair, Vice Chair, Secretary, and Treasurer [Memorandum 25-01].* Member Zoba motioned to reaffirm the current state of officers for 2025. Motion was second by Chair Vela and approved unanimously.
- ✓ *B.- Update on City of Beaumont Request for Files related to the Beaumont Basin Numerical Model [No written report].* Mr. Montoya had addressed this under Item VI-D, above. Member Jaggars reiterated that the request had been fulfilled, and Member Vestal acknowledged that the information had been received.
- ✓ *Update on Thomas Harder & Co. Investigation into Basin Losses [Memorandum No. 25-02].* Mr. Harder reviewed the scope of work and tasks to quantify subsurface outflows and the development of imported water forecasts indicating that he had met with SGPWA staff to obtain input. Committee members provided input and discussed the SGPWA supply portfolio. Mr. Harder acknowledged concerns about overestimating of supply and indicated that the data will be vetted with SGPWA.

Mr. Eckhart noted that everything has changed and that the last three years were more indicative of how things will operate in the future. He discussed the need to interact with

the Desert Water Agency (DWA) in conducting modeling efforts. He also advised of fault lines in the Brookside area which will affect how water moves in the Basin and how pumping is managed.

Member Jaggars noted that Banning Heights Mutual Water Company and BCVWD have certain diversion rights that aggregate into the outflows. He noted that this could have an impact on what is available to each District and recommended making sure DWA and others downstream are not counting on water that could not be diverted.

- ✓ *Discussion on Proposed Revisions to the BBWM Rules and Regulations [Memorandum No. 25-03].* Mr. Stuart presented the redline document. He identified the sections that could impact the management of the Basin and groundwater resources. Chair Vela noted the suggestions capture the intent of the Watermaster. Members to present comments to Mr. Stuart for compilation and presentation at the March meeting.
- ✓ *Update on Development of Water Year Storage Change Estimates for the Beaumont Basin [Memorandum No. 25-04].* Mr. Harder reminded the Committee that the storage change estimates are based on a water year to align with SGMA requirements and indicated the report is due by April 1. He indicated that there is missing information and the information will be presented at the next meeting once the data is received.
- ✓ *Consideration of Proposed Thomas Harder & Co. / Alda Engineering Task Order No. 10 for Groundwater Level Monitoring Services in 2025 [Memorandum No. 25-05].* Mr. Harder indicated that the work for the annual work performed by ALDA Engineering to prepare the annual groundwater monitoring and manage the transducers. Motion was moved by Member Jaggars and seconded by Chair Vela. Motion carried unanimously.
- ✓ *Evaluation, Discussion, and Determination of Future Agenda Items [Memorandum No. 25-06].* Mr. Stuart guided a discussion of the topics. Following thorough discussion, the Topics for Future Meetings table was updated.

Items Discussed During March 5, 2025 Special Watermaster Committee Meeting

- ✓ *A - Consideration of 2024 Water Year Annual Change in Storage for Sustainable Groundwater Management Act (SGMA) Reporting [Memorandum 25-07].* Mr. Harder advised the Committee that the SGMA requires the change in storage to be presented on a water year basis. He described the areas where groundwater levels declined or increased and calculated a change in storage of 312 ac-ft.

Member Jaggars pointed to the decline around Well 29 and noted the transducer has been out. Mr. Blandon indicated that manual measurements have been taken. Member Jaggars assured that Well 29 pumping had been managed and suspected that first year data may not be indicative of future trends. Harder acknowledged that data can be counterintuitive and noted that recharge does not show up in the Basin for a length of time.

Member Zoba moved, second by Member Jaggars, to approve the change in groundwater storage documented by Mr. Harder. Motion was approved unanimously.

- ✓ *B - Discussion and Consideration of Proposed Scenarios to Evaluate Basin Losses [Memorandum 25-08].* Mr. Harder provided three scenarios of forecasts for State Water Project deliveries. He communicated with SGPWA and determined to go back to the historic DWR allocations as the basis for wet/dry seasons. He presented three preliminary scenarios for Table A water. He noted limitations on the methodology. Mr. Eckhart provided suggestions. Much discussion ensued between the various Watermaster Committee members; Mr. Harder indicated that he will revise the scenarios based on the discussion.
- ✓ *C - Discussion of Comments on Proposed Revisions to Watermaster Rules and Regulations [Memorandum 25-09].* Mr. Stuart presented the comments received from Committee members. He introduced the concept of overlying appropriative right to track water transferred from an Overlying party to an Appropriator. The Committee discussed a proposed new assessment of 1.5 times the current SGPWA supplemental water purchase for the depletion of a storage account. Chair Vela called for a more focused discussion prior to adding this rule. Member Jaggars suggested the addition of language to assure responsibility for accuracy for water meters. Mr. Stuart recommended that the Watermaster should validate the accuracy through documentation.

Items Discussed During April 2, 2025 Regular Watermaster Committee Meeting

- ✓ *A.- Update on the Analysis of Losses in the Beaumont Basin - Thomas Harder & Co. [Memorandum No. 25-11].* Mr. Harder presented an update on the progress of the loss analysis. He recapped that the project is a forward looking groundwater modeling effort intended to forecast potential basin losses under varying hydrologic conditions. He described the revised modeling approach based on three scenarios; baseline, dry, and wet conditions. He discussed how Table A would be used under each of the scenarios. The presentation detailed the model inputs and noted that under long-term conditions the basin would receive approximately 13,792 ac-ft annually under Baseline conditions. Committee members expressed appreciation for the thorough work and coordination.
- ✓ *B.- Certification of Groundwater Production, Imported Water Spreading, and Change in Storage in the Beaumont Groundwater Basin in Water Year 2024 [Memorandum No. 25-12].* Mr. Bandon presented groundwater production and imported water deliveries during the water year 2024. He further noted that this information was submitted to the BBWM Committee on March 20 and understood that the information has been submitted to the DWR. A copy of the annual report should be submitted to DWR once it becomes available. No action was taken by the Committee.
- ✓ *C.- Independent Accountant's Financial Report of Agreed-Upon Procedures for the Beaumont Basin Watermaster [Memorandum No. 25-13]* Treasurer Zoba presented the report indicating that at the beginning of the fiscal year 2024 the BBWM had an unrestricted balance of \$324,597. During the year it collected \$197,730 in revenues and

spent \$462,303. As of June 30, 2024 the BBWM had an unrestricted net position of \$60,024. The motion to receive and file the accountant's report was presented by Member Jagers and seconded by Member Armstrong. Motion passed 5-0.

- ✓ *D.- Consideration of the Watermaster Budget for Fiscal Year 2025-26 [Memorandum No. 25-14].* Member Zoba reminded the Committee that Watermaster has not been invoicing for administrative costs. This year budget included \$27,500 for legal expenses, reserve funding of \$20,000 and the annual audit for \$2,250. The motion to approve the budget and to invoice each Committee member accordingly was presented by Member Jagers and seconded by Member Zoba. Motion was approved 5-0.
- ✓ *E.- Presentation of Draft 2024 Consolidated Annual Report and Engineering Report [Memorandum No. 25-15].* Mr. Bandon presented highlights of the draft report including resolutions, groundwater production, financials, basin conditions, water transfers spreading, and water quality for the 2024 Calendar Year. The presentation also reviewed the Operating Safe Yield estimates and provided a comparison of groundwater production trends among agencies and overlayers.

Committee members engaged in discussion regarding precipitation trends, groundwater production fluctuations, and the impact of mass grading. Member Jagers remarked that peak production could reflect construction cycles. Bandon acknowledged the value of including broader context in future reports.

Mr. Harder acknowledge that the OSY is not informative for the Watermaster and proposed removing it from the annual report. Member Zoba recommended retaining it, but supplementing it with a historical table to monitor trends and better understand anomalies. Chair Vela and Member Jagers concurred and recommended clear narrative explanations to prevent misinterpretation, specially when negative OSY occurs. Based on consensus of the Committee, the consultant was directed to retain the OSY and provide historical data in tabular form and add narrative language to explain and qualify results where necessary. Consultants agree to address this issue in the next draft of the report.

Bandon provided a summary of water quality for the 2020-24 period. Chair Vela inquired about the status of new Chromium-6 regulations effective October 2024. Bandon agreed to incorporate additional notes in the next draft of the report.

Bandon requested comments by May 16, 2025 to allow time to incorporate comments before the June 4, 2025 meeting.

Items Discussed During June 11, 2025 Special Watermaster Committee Meeting

- ✓ *A.- Consideration of a request from the Morongo Band of Mission Indians (MBMI) to further amend the Beaumont Basin Judgment to authorize the transfer of overlying groundwater rights to other parties, including appropriators. The proposal would remove existing limitations that tie overlying rights to appurtenant land. [Memorandum No. 25-16].* Legal counsel Montoya summarized a request submitted by the Morongo Band of

Mission Indians seeking to amend the Judgement. He explained that the requested amendment would authorize unrestricted transfers of overlying rights establishing a private groundwater market. He explained that such action will be inconsistent with California water law. He further indicated that this action would undermine the current mechanism that return unused Overlying rights to the Appropriative pool. He concluded that the Tribe had not demonstrated sufficient legal ground to modify the Judgement. Mr. Stuart concurred.

Mr. Miliband, representing the Tribe, emphasized that the April 1 letter was intended to initiate dialogue on a possible amendment not to present a fully formed legal proposal. He stressed that the Tribe's goal is to enable transferability and noted that the proposal is consistent with California water law and that it is being implemented in other adjudicated judgments. He expressed desire to engage Watermaster legal counsel in meaningful academic discussion and provide more robust documentation.

The topic was discussed further amongst various members of the Committee as to how to proceed in the future. The Committee took no action.

- ✓ *B.- Update on Thomas Harder & Co. Study on Basin Loses.* Mr. Harder presented preliminary results of Task 1 and provided key findings. He clarified that these results represent one element of the broader water budget. He concluded by outlining next steps including analysis of three future recharge scenarios in coordination with SGPWA.

Member Jagers emphasized the value of strategically placed wells around recharge facilities to control groundwater mounding. He also pointed out potential influences from return flows not fully represented in the model. Mr. Eckhart commended the study and advocated for regional coordination to distribute imported water more effectively. He also noted that this could have a positive impact on water quality and cost benefits.

- ✓ *C.- Update on Draft 2024 Consolidated Annual Report and Engineering Report [Memorandum No. 25-17].* Mr. Bandon presented the most recent comments and technical updates to the annual report and noted that information on the operating safe yield and changes in groundwater levels had become available and was now included. Three major content areas had been incomplete in April but were now fully developed and discussed.
 - ✓ Treated wastewater discharge. The City of Beaumont WWTP discharged 3,958 ac-ft of treated wastewater in CY 2024 and averaged 3.51 mgd.
 - ✓ Chromium-6 Update. A discussion of the California MCL for Hexavalent Chromium (10ug/L), effective October 1, 2026, was included. Mr. Bandon noted that multiple wells approaching or exceeding the MCL, notably BCVWD wells 25 and 26. Member Jagers noted that well No. 3 also exceeds the MCL.
 - ✓ Operating Safe Yield for 2024. Using updated production, recharge, and groundwater storage data, the OSY was estimated at negative 1,910 ac-ft. Mr.

Blandon noted that this figure reflects a short-term condition rather than a shift in long-term basin sustainability.

Member Armstrong requested that Aquifer Storage and Recovery activities in the western portion of the Basin be brought forward for discussion in future meetings.

A motion to approve the 2024 Consolidated Annual and Engineering Report was introduced by Member Jaggars and seconded by Member Armstrong. Motion was approved 5-0.

- ✓ *D.- Update on Proposed Revisions to Watermaster Rules and Regulations [Memorandum No. 25-18].* Mr. Stuart provided an update on the proposed revisions and pointed to a summary of Committee comments and highlighted key areas of focus. Two primary topics were emphasized; return flows and depletion of Appropriator storage accounts. The issue of Appropriator's accounts going negative was raised as a priority concern. Member Jaggars advocated for exploring strategic use of SGPWA storage accounts as a regional buffer against future overdraft and encouraged integration of SGPWA into contingency planning. Member Zoba advocated investment in regional water supply development including recycled water and local recharge projects. Mr. Stuart indicated that no further guidance was required at this time.
- ✓ *E.- Proposed Schedule for Future Special Meetings of the Watermaster [Memorandum No. 25-19].* Mr. Stuart presented two proposed special meetings dates. Member Zoba expressed concern about the additional cost. Consensus was to stay with the existing schedule. Chair Vela tabled the item.
- ✓ *F.- Thomas Harder & Co. Proposal to Participate in Future Special Meetings [Memorandum No. 25-20].* Chair Vela tabled this item.
- ✓ *G.- Certification of Groundwater Production, Imported Water Spreading, and Change in Storage in the Beaumont Groundwater Basin in Water Year 2024 [Memorandum No. 25-21].* Mr. Blandon advised that some of the groundwater production numbers required reconciliation. Chair Vela tabled this item.

Items Discussed During August 6, 2025 Special Watermaster Committee Meeting

- ✓ *A.- Update on Analysis of Losses in the Beaumont Basin - Thomas Harder & Co. [Memorandum No. 25-22].* Mr. Harder provided an update on the ongoing modeling effort to evaluate subsurface outflow under various hydrologic conditions. He stated that preliminary results show little change in the West Basin, greater variability on the East Basin, and that underflow changes are largely due to pressure differences created by managed recharge. He further noted that particle tracking analysis suggests that most imported water does not leave the basin in the 50-year forecast period.

Mr. Eckhart suggested examining a “no pumping” scenario and emphasized coordination with neighboring GSAs to ensure consistent assumptions about water moving east into

Cabazon and Coachella Valley. He encouraged continued investment in monitoring programs to provide empirical data on basin conditions.

- ✓ *B.- Update on Proposed Revisions to the BBWM Rules and Regulations [Memorandum No. 25-23].* Mr. Stuart reminded the Committee about the presentation of the proposed revisions and ongoing discussion. He indicated that he had received comments from two of the agencies only and was seeking additional comments. Comments will be incorporated into the revision and presented in December meeting for consideration and approval.
- ✓ *C.- Consideration to Retain Dudek to Evaluate and Develop Management Strategies for when Groundwater Storage Accounts are Negative [Memorandum No. 25-24].* Mr. Stuart presented a proposal to address this issue, including research with other agencies. Committee members offered several perspectives. Member Jaggars suggested that the Committee considers developing rules that identify triggering events. Member Zoba commended that self-management by the agencies could be more effective than relying on an engineering study. However, he acknowledged that the Watermaster must prepare for “what if” scenarios.

Chair Vela emphasized that a policy should include consequences or deterrents to discourage agencies from relying on the Watermaster to remedy their deficits. Member Jaggars reiterated that advance planning and early recognition of triggering events would allow the Watermaster to convene and respond before a negative balance occurred.

Member Zoba suggested tabling this item and continued this item to a later meeting.

- ✓ *D.- Consideration to Retain Dudek to Evaluate and Develop a Policy to Account for Return Flows in the Beaumont Basin [Memorandum No. 25-25].* Mr. Stuart noted that while earlier work quantified return flows, the next step was to address ownership and accounting. He proposed to develop an approach for how return flows could be quantified and credited back to the agencies that generated them. Committee members raised questions and observations.

Member Jaggars noted that return flows may vary by land use and cautioned that state legislation promoting water conservation could reduce return flows overtime. Member Zoba emphasized the importance of considering the impact of return flows on water quality and recommended that salt loading be included in the evaluation. Chair Vela cautioned against excluding agencies from participation noting that proportionality arguments could complicate basin governance. The Committee concurred to bring back this item at the next regular meeting for action.

- ✓ *E.- Consideration of Special Meetings / Workshops in 2025 [Memorandum No. 25-26].* The Committee declined to add special meetings.

Items Discussed During October 1, 2025 Regular Watermaster Committee Meeting

Chair Vela called Item D out of order.

- ✓ *D.- Discussion of Beaumont Basin Watermaster Responsibilities, Powers, and Duties regarding Basin Oversight related to proposed recycled water recharge projects and Yucaipa Valley Water District and the City of Beaumont [Memorandum No. 25-29].*

Member Jagers explained that he placed this item on the agenda as a concern that recent project actions by YVWD appeared to differ from what was described in earlier CEQA documents. He stated his interest in receiving updated information explaining the changes and allowing others the opportunity to comment. He emphasized the BBWM responsibility to provide basin management and stated that all activities related to groundwater recharge should occur transparently and within public forums. He concluded that he was not opposed to recharge or ASR activities but wanted to ensure that basin health, regulatory compliance, and fair treatment to all basin parties were maintained.

Member Armstrong stated that he shares Member Jagers' concerns. Chair Vela stated that an initial presentation from YVWD would be beneficial to the Watermaster and the public. Legal counsel Montoya advised that questions regarding CEQA compliance should be addressed carefully and urged YVWD to present information clarifying the project and resolving concerns.

Member Ares stated that YVWD cannot provide the information being requested at this time and that a full report will be brought to the Watermaster once the information becomes available.

A motion was introduced to formally request the YVWD to submit an application for groundwater recharge and to provide a presentation to the Committee. However, no action was taken since this item was for discussion only.

- ✓ *A.- Update on Analysis of Losses in the Beaumont Basin - Thomas Harder & Co. [Memorandum No. 25-27].* Mr. Harder provided an update of the ongoing analyses. He indicated that the technical memorandum is completed, except for the policies. He noted that a draft policy will be presented at the December meeting.
- ✓ *B.- Update on Proposed Revisions to the BBWM Rules and Regulations [Memorandum No. 25-28].* Mr. Stuart indicated that revisions were presented last year and comments received from members except the City of Beaumont. He noted that some comments were contradictory or in conflict. Comments will be compiled into a redline version for discussion.
- ✓ *C.- Consideration to Retain Dudek to Evaluate and Develop a Policy to Account for Return Flows in the Beaumont Basin [Memorandum No. 25-29].* Mr. Stuart described the proposal and estimated the time frame for completion to be from six to nine months. Member Jagers indicated support and pointed out this is to help understand

the health of the Basin over time. A motion for approval was introduced by Member Jagers and seconded by Chair Vela. Motion was approved unanimously.

Items Discussed During December 3, 2025 Regular Watermaster Committee Meeting

- ✓ *A.- Update on Analysis of Losses in the Beaumont Basin - Thomas Harder & Co. [Memorandum No. 25-31].* Mr. Harder reviewed the scope of work completed to date and provided updates on the following tasks:

- ✓ Particle tracking indicates that recharge water does not physically leave the basin over a 25-year period. However, it creates hydraulic mounting that increases hydraulic pressure, which can force additional native groundwater out of the Basin.
- ✓ Review of historical trends comparing storage accounts and modeled physical storage and noted divergence indicating a discrepancy between paper storage and actual basin conditions. He expressed concern that divergence could pose issues if projected forward.

Member Swanson commented that pumping projections used in the analyses for BCVWD are based on the 2020 UWMP and may not reflect current conditions. Member Jagers noted that conservation measures could significantly reduce future demands. Chair Vela suggested that it may be appropriate to wait for updated projections before finalizing the basin loss analysis. Mr. Harder recommended reevaluating the baseline, dry, and wet scenarios.

- ✓ *B.- Update on Proposed Revisions to the BBWM Rules and Regulations [Memorandum No. 25-32].* Mr. Stuart provided an update of the proposed revisions and summarized comments received. The intent is to have a draft resolution for consideration at the February 2026 meeting.

Final determinations and direction on rule revisions included:

- ✓ Salt Credits
- ✓ Stored Water Definition
- ✓ Definitions Repeated from the Judgment
- ✓ Assessment and Notice of Pending Applications
- ✓ Annualized Safe Yield
- ✓ Overlying Water Rights and Redetermination of Safe Yield

Committee discussion emphasized the importance of flexibility, clarity, and administrative practicality in revising the Rules and Regulations. A draft resolution is to be presented at the February 2026 regular meeting.

- ✓ *C.- Reformation of Ad Hoc Committee to develop procurement policy [Memorandum No. 25-33].* Mr. Stuart asked if the Committee desired to proceed with policy development.

Committee members indicated support for a brief and efficient policy. Mr. Stuart will present the process at the February meeting.

- ✓ *D.- Modification of frequency of Beaumont Watermaster Committee meetings from bimonthly to quarterly [Memorandum No. 25-34].* Mr. Stuart broached the possibility of changing the current bi-monthly schedule to quarterly and offered a draft resolution for consideration at the February meeting.
- ✓ *E.- Consideration of an Agreement to Retain Dudek to Provide Administrative and Technical Support Services in Calendar Year 2026 [Memorandum No. 25-35].* Mr. Stuart presented the proposal to continue providing administrative and technical services in 2026. A motion to approve the agreement was introduced by Member Zoba and seconded by Chair Vela. Motion was approved 5-0.
- ✓ *F.- Consideration of an Agreement to Retain Thomas Harder & Company to Provide Hydrogeological and Engineering Services and Preparation of the 2025 Annual Report (Task Order No. 11) [Memorandum No. 25-36].* Mr. Harder introduced the proposal for providing the same scope of services for calendar year 2026 including data collection, preparation of the annual report, determination of the annualized safe yield, change in storage, support for rules and regulations, and meeting attendance. He noted there was a slight increase in rates. A motion for approval was introduced by Member Zoba and seconded by Member Swamson. Motion was approved 5-0.
- ✓ *G.- Consideration of proposed Thomas Harder & Company/Alda Engineering Task Order No. 12 for Groundwater Level Monitoring Services in 2026 [Memorandum No. 25-37].* Mr. Harder introduced the proposal to provide the same scope of services for groundwater level monitoring. A motion for approval was introduced by Member Zoba and seconded by Member Swamson. Motion was approved 5-0.

2.2.4 Redetermination of Safe Yield

Under the Judgment (2003) the Safe Yield of the Beaumont Basin was established at 8,650 ac-ft/yr to be distributed among the Overlying Producers. The Judgment indicates that the Safe Yield shall be redetermined at least every 10 years beginning 10 years after the date of entry of the Judgment (February 4, 2004).

At the February 2013 Watermaster meeting, the Watermaster Committee authorized a study to develop a hydrologic model of the groundwater basin to be used as a tool in the re-evaluation of the Safe Yield of the basin. At the February 2015 Watermaster Committee meeting a formal presentation of the final-draft document was made to provide members of the Committee with an opportunity to ask questions and addressed any unresolved issues. The final document was presented for approval and adoption at the April 2015 Watermaster Committee meeting.

Resolution No. 2015-01 was adopted at the April 1, 2015 Regular Watermaster Committee meeting. Through this resolution, the Final 2013 Reevaluation of the Beaumont Basin Safe Yield Report and Redetermination of the Safe Yield of the Beaumont Basin were adopted.

The Beaumont Basin Watermaster Committee redetermined the Safe Yield of the Beaumont Basin to be 6,700 ac-ft per year.

More recently, at the October 5, 2022 regular meeting, the Watermaster Committee awarded a contract to Thomas Harder and Company to provide technical support services to the Watermaster over a three-year period beginning in 2023. One of the initial tasks authorized was the reevaluation of the Safe Yield of the basin. The final report for this task was approved at the December 4, 2024 regular meeting in which Resolution 2024-01 was adopted. Through this resolution, the Final 2023 Reevaluation of the Beaumont Basin Safe Yield Report and Redetermination of the Safe Yield of the Beaumont Basin were adopted.

Effective 2024, the Beaumont Basin Watermaster Committee redetermined the Safe Yield of the Beaumont Basin to be 7,100 ac-ft/yr.

2.3 Storage Applications and Agreements

The first applications to use the Basin for storage purposes were approved in FY 2005-06 when Watermaster approved applications by the City of Banning, BCVWD, SMWC, and YVWD to store up to 135,000 ac-ft of water in the Basin. The City of Beaumont's application to store water was approved by Watermaster in FY 2007-08 bringing the total storage allocation to 157,000 ac-ft. In FY 2009-10, Watermaster approved additional applications by the City of Banning, BCVWD, the City of Beaumont, and YVWD to increase the total storage allowed to 260,000 ac-ft. It is our understanding that the Watermaster Committee has not yet amended the respective Storage Agreements to reflect the current storage limits.

An application for a storage agreement was received by the Watermaster from the San Gorgonio Pass Water Agency (SGPWA) in mid-2010 and brought for discussion at the summer of 2012. The initial application was rejected because it was incomplete.

An application for a storage agreement was also received from the Morongo Band of Mission Indians at the December 2012 meeting. The Watermaster Committee deemed the application incomplete and requested further information from the applicant to address questions posed by members of the Committee. This application was subsequently approved at the June 5, 2013 meeting allowing the Morongo Band of Mission Indians to store up to 20,000 ac-ft of imported water in the basin.

A new application for Groundwater Storage Agreement was developed in early 2013; the application was presented and discussed at several Watermaster Committee meetings where input was received, and questions were addressed. The new application was approved by the Watermaster Committee in August 2013 and will be used for future applicants.

After development of new forms and procedures, a new application by SGPWA was received in early 2016 to develop a Groundwater Storage Agreement. This application was discussed

over several Watermaster Committee meetings and was approved at the June 7, 2017 regular meeting under Resolution 17-01. The approval of this application allows SGPWA to store up to 10,000 ac-ft of imported water in the Beaumont Groundwater Basin.

As of December 31, 2024, the total storage allowed stands at 290,000 ac-ft; storage limits by participant are presented below. Amounts of water in storage by participant are discussed under Section 3.

✓ City of Banning	80,000 ac-ft
✓ City of Beaumont	30,000 ac-ft
✓ Beaumont Cherry Valley WD	80,000 ac-ft
✓ South Mesa Water Company	20,000 ac-ft
✓ Yucaipa Valley Water District	50,000 ac-ft
✓ Morongo Band of Mission Indians	20,000 ac-ft
✓ San Gorgonio Pass Water Agency	10,000 ac-ft

2.4 Rules and Regulations

The original Rules and Regulations of the Watermaster were adopted on June 8, 2004. The Judgment provides for their periodic update as deemed necessary by the Watermaster. On September 9, 2008, the Watermaster adopted Rule and Regulation 7.8, entitled “Availability of Unused Overlying Production and Allocation to the Appropriator Parties”. The objective of this rule is to define the process through which unused production by Overlying Parties is allocated to the Appropriator Parties. The unused water will be allocated based on each Appropriator’s percent share of the operating Safe Yield, as described in Exhibit C of the Judgment. This allocation will have no impact on the legal water rights owned by the Overlying Parties in subsequent years. The initial allocation to take place on or after February 4, 2009.

Under Resolution 2012-01, the Rules and Regulations were amended. Under this resolution, Rule 2.2 under Section 1 was amended to indicate that the Watermaster shall conduct regular meetings on the first Wednesday of every even numbered month. Special meetings and workshops may be called as necessary to conduct the business of the Watermaster.

Under Resolution 2019-02, adopted on June 25, 2019, the Beaumont Basin Watermaster rescinded Section 7 of the Beaumont Basin Watermaster Rules and Regulations in its entirety and replaced it as provided in Attachment A of the resolution. Under this resolution, the Beaumont Basin Watermaster also updated Form 5 entitled, “Notice to Adjust Rights of an Overlying Party due to Proposed Provision of Water Service by an Appropriator” and Form 7 entitled, “Notice to Transfers of Appropriator Production Right of Operating Yield Between Appropriators” as provided in Attachment “A” to the resolution.

The latest change to the Rules and Regulations came under Resolution 2022-09, adopted on December 7, 2022, by which the Beaumont Basin Watermaster amended Section 3. Under

this resolution, the Watermaster desires to establish groundwater level measuring and reporting procedures that provide a foundation for the collection and reporting of groundwater level data that is accurate and consistent between all owners of wells included in the Beaumont Basin monitoring well network. In addition, a methodology for communicating with private well owners and documenting requests to access their wells is provided under the resolution. A new Section 3.3 entitled “Groundwater Level Measuring and Reporting Procedures” along with a new Form 9 entitled “Water Level Field Form” have been included under the revised Rules and Regulations. The latest amended Rules and Regulations are included under Appendix C of the 2022 Consolidated Annual and Engineering Report.

Currently, the Rules and Regulations are being reviewed in its entirety. Proposed revisions were presented at several Board meetings throughout 2024 with the revision process continuing into CY 2025. A final revision is anticipated to be brought up for consideration and acceptance in early 2026.

2.5 Active Party List

Part VII, Paragraph 1 of the Judgment, indicates that Watermaster shall maintain an updated list of parties to whom notices are to be sent for service. Said list should include names, addresses for the Parties or their successors. The active party list has been updated with input by Legal Counsel, a copy of the updated list has been included under Appendix B.

2.6 Financial Management

The Watermaster must develop and administer a budget for all administrative, operational, and capital costs it incurs. The following discussion summarizes the budget established for the Fiscal Year 2025 operations.

2.6.1 Budget

Final expenses for Fiscal Year 2023-24 were \$464,238. Expenses related to the Fiscal Year 2025 were presented as of January 31, 2025. The budget for Fiscal Year 2025-26 was approved at the April 2, 2025 Watermaster Committee regular meeting under Memorandum 25-14. The approved budget provided funding for operating expenses in the amount of \$49,675.00. The approved budget is significantly lower than the final expenses for FY 2024 and did not include any funds for Special Projects; the Watermaster Treasurer will send invoices to Watermaster Committee members when task orders are approved throughout the year.

The following table presents a comparison between the final expenses for FY 2023-24, Expenses as of Jan 31, 2025 for FY 2024-25, as well as the approved budget for FY 2025-26.

<i>Operating Expense</i>	<i>FY 2023-24 Final Expenses</i>	<i>FY 2024-25 Expenses as of 1-31-25</i>	<i>FY 2025-26 Approved Budget</i>
<u>Administrative Expenses</u>			
Bank Fees and Interest	\$ -46.00	\$ -12.00	\$ -75.00
Miscellaneous & Meeting Expenses	\$ 17,260.00	\$ 17,260.00	\$ 0.00
Acquisition/computation & Annual Report	\$ 0.00	\$ 0.00	\$ 0.00
Annual Audit	\$ 2,000.00	\$ 2,250.00	\$ 2,250.00
Legal Expenses	\$ 25,066.00	\$ 14,376.00	\$ 27,500.00
Reserve Funding	\$ 0.00	\$ 0.00	\$ 20,000.00
Engineering	\$ 0.00	\$ 0.00	\$ 0.00
Monitoring and Data Acquisition	\$ 44,768.00	\$ 0.00	\$ 0.00
	\$ 89,048.00	\$ 16,614.00	\$ 49,675.00
<u>Special Project Expenses</u>			
Engineering	\$ 375,190.00 ⁽¹⁾	\$ 0.00	\$ 0.00
Litigation	\$ 0.00	\$ 0.00	\$ 0.00
	\$ 0.00	\$ 0.00	\$ 0.00
Total Operating Expense	\$ 464,238.00	\$ 16,614.00	\$ 49,675.00

(1) Used for special meetings, Long-Term Safe Yield study, and Rules and Regulations update.

2.6.2 Financial Audit

The Beaumont Basin Watermaster has a financial audit performed annually on a fiscal year basis. The audit assists in properly accounting for the revenues and expenses of the Watermaster and tracking the financial resources of the agency. The detailed audit report for FY 2024, dated June 30, 2024, prepared by Rogers, Anderson, Malody, and Scott, LLP, is included under Appendix C.

Section 3

Status of the Basin and Administration of the Judgment

The Beaumont Basin Watermaster Committee is responsible for the accounting of water activities in the Beaumont Basin including groundwater production, recharge of supplemental water, groundwater transfers and other storage activities. From the Judgment inception, accounting was conducted on a fiscal year basis until 2011.

Through the adoption of Resolution No. 2011-01, on September 21, 2011, Watermaster changed the accounting from a fiscal year basis to a calendar year basis starting in CY 2011. The conversion of Fiscal Year basis to Calendar Year basis was documented in the Annual Report for CY 2011 adopted by the Committee in early 2013. It should be noted that the annual budget and financial audit of the Beaumont Basin Watermaster continue to be conducted on a fiscal year basis. This Consolidated Annual and Engineering Report for CY 2025 builds on the information presented in previous annual reports.

3.1 Climate, Hydrology and Hydrogeology

3.1.1 Climate

The Beaumont Basin is located in a semi-arid region characterized by warm summers and mild winters with average summer high temperatures in the mid to upper 90s (Fahrenheit) and average winter low temperatures in the mid to low 40s. Precipitation in the region occurs as snowfall in the upper elevations of the San Bernardino Mountains to the north and rainfall in the Basin. Annual precipitation in the Beaumont Basin, as recorded at the County of Riverside's Beaumont Station 013, averaged 16.75 inches over the 100-year period between 1926 and 2025. On average during this 100-year period, 11.77 inches of precipitation, or 70.2 percent of total, fell during the winter months between December and March. Over the last 25 years (2001-2025), precipitation has averaged 13.69 inches of rain which is approximately 82 percent of the 100-year average precipitation. Precipitation during CY 2025 at Station 13 was 12.05 inches, approximately 88 percent of the 25-year average precipitation and 72 percent of the 100-year average.

Figure 3-1 illustrates annual precipitation at Station 13 for the 25-year reporting period between 2001 and 2025 including a plot of the cumulative departure from the mean (CDFM) precipitation. This parameter is used to assess the occurrence, duration, and extent of wet and dry precipitation cycles. Increasing trending periods in the graph represent periods with above average precipitation such as the 2003-05 period; average precipitation during this period was 19.94 inches or close to 19 percent above the long-term average. Conversely, decreasing periods indicate below average precipitation as in the 2011-18 period when average precipitation was only 11.23 inches or approximately 67 percent of the 100-year average.

Notwithstanding the significantly above average precipitation recorded in 2010 (24.85 inches), 2019 (23.34 inches) and in 2023 (22.33 inches), the Basin has been in a dry period that began

in 1999. During the reporting period, precipitation in five of these years was below 10 inches per year. In addition, the second lowest precipitation year ever recorded (2013) occurred during this 25-year period at 7.40 inches.

It should be noted that the average precipitation during the base period (1997-2001) used to determine the Safe Yield of the Basin was 13.43 inches, approximately 20 percent lower than the 100-year long-term average for the Basin.

3.1.2 Surface Water Hydrology

There are three significant drainage systems that overlie the Beaumont Basin: the San Timoteo Creek drainage system, which includes Noble Creek and Marshall Creek in the Beaumont Basin, is tributary to the Santa Ana River; the Potrero Creek drainage system in the San Jacinto watershed; and the Smith Creek drainage system tributary to the Whitewater River which is part of the Salton Sea drainage basin.

Surface water flows originate in the San Bernardino Mountains to the north of the Basin. The streams and creeks that flow into the Beaumont Basin are dry for most of the year with occasional runoff during rainfall events. There are no stream gages in the Basin that can be used to estimate surface water recharge to the Basin or discharge from the Basin.

3.1.3 Hydrogeology

3.1.3.1 Regional Geologic Context

The Beaumont Basin is located in the San Gorgonio Pass, a low-relief highland that is bordered on the north by the San Bernardino Mountains, on the southeast by the San Jacinto Mountains, and on the west by the San Timoteo Badlands. Surface sediments in the Beaumont Basin and nearby lowlands consist of unconsolidated to semi consolidated Quaternary alluvium. Surrounding the alluvial sediments are semi consolidated rocks of the San Timoteo Formation and igneous and metamorphic rocks that make up the San Jacinto and San Bernardino Mountains (see Figure 3-2). The San Timoteo Formation is composed primarily of sandstone, conglomerate, siltstone, and mudstone (Rewis, et al., 2007). The igneous and metamorphic rocks form the crystalline basement rocks in the area (Bloyd, 1971). The unconsolidated Quaternary alluvium and the upper portion of the underlying San Timoteo Formation constitute the water-bearing aquifer of the Beaumont Basin (Rewis, et al., 2007).

3.1.3.2 Faults

The boundaries of the Beaumont Basin are based on faults that often form barriers to groundwater flow (Bloyd, 1971). Major faults in the area include the Banning and Cherry Valley faults, which form the northern boundary of the basin (see Figure 3-2). Groundwater levels within the Beaumont Basin are generally lower than groundwater levels in the surrounding areas. Along the Banning Fault, groundwater levels on the north side of the fault and outside the basin are as much as 400 ft higher than groundwater levels on the south side of the fault and inside the basin. The same condition has been observed along the southern Beaumont Basin boundary. The southern boundary of the basin was postulated by Bloyd (1971) based on groundwater level differences in the area. No fault has ever formally been

mapped at this southern boundary. The San Timoteo Fault was identified by USGS (2006) but does not correlate to the adjudicated boundary.

3.1.3.3 Groundwater Occurrence and Flow

Groundwater in the Beaumont Basin occurs at depth in the Quaternary alluvium and the underlying San Timoteo Formation. Groundwater flow within the Beaumont Basin generally depends on location with respect to a groundwater flow divide which occurs in the center of the basin, approximately coincident with the Noble Creek drainage (see Figure 3-2). West of the Noble Creek drainage, groundwater generally flows to the northwest and ultimately as underflow beneath San Timoteo Wash. East of the Noble Creek drainage, groundwater flows to the southeast towards the City of Banning.

The groundwater system in the Beaumont Basin is replenished from multiple sources. These include:

- ✓ Infiltration of precipitation and flow in unlined portions of natural streams
- ✓ Subsurface seepage across fault boundaries
- ✓ Return flow from irrigation and individual septic systems
- ✓ Artificial recharge in man-made basins (e.g. Noble Creek Recharge Facility).

Groundwater discharges from the Beaumont Basin primarily occur from:

- ✓ Groundwater production
- ✓ Underflow out of the basin at the downgradient margins
- ✓ Rising water in San Timoteo Creek
- ✓ Evapotranspiration

3.2 Production

The Beaumont Basin Watermaster Committee is responsible for the tracking and accounting of groundwater production by all producers named in the Judgment regardless of the amount of groundwater produced. Other producers, not listed in the Judgment, and pumping less than 10 ac-ft /yr., also known as minimal producers, are exempt from the provisions of the Judgment. Figure 3-3 illustrates the location of all production wells that belong to the Appropriators and Overlying parties of the Judgment.

3.2.1 Appropriative Party Production

There are five Appropriative Producers: namely, City of Banning, City of Beaumont, BCVWD, SMWC, and YVWD. The City of Beaumont, while identified as an Appropriator in Exhibit C of the Judgment, has never produced from the Basin and it has a zero allocation as a percentage share of Safe Yield allocated to Appropriators. The amount that each Appropriator produces in any given year, without incurring a replenishment obligation, varies from year to year and results from a combination of:

- ✓ Their share of the Operating Yield, based on the Temporary Surplus of 16,000 ac-ft/yr for all Appropriators; applicable only between Fiscal Years 2004 and 2013
- ✓ Transfers from other Appropriators,
- ✓ Transfers of unused production from Overlying Producers,
- ✓ Conversion of Overlying rights to Appropriative rights,
- ✓ Water withdrawn from their storage account, and
- ✓ New yield created by the Appropriator.

Monthly production for the last five years of operation (CY 2021-25) are presented in a series of tables starting with Table 3-1A for CY 2021 and continuing on an annual basis through Table 3-1E for CY 2025. It should be noted that all production by Appropriators is currently being metered; however, no information is available as to the accuracy of existing meters.

During CY 2025, Appropriators pumped a combined amount of 14,800.70 ac-ft of groundwater from the Beaumont Basin (See Table 3-1E). Production for this year was nine percent higher than in CY 2024 when 13,596.30 ac-ft were pumped (See Table 3-1D). CY 2025 production was 97 percent of the five-year average (2021-25) of 15,285 ac-ft.

Production by all agencies was higher in CY 2025 than in CY 2024. Production by the City of Banning was significantly higher at 69 percent over the previous year while production by BCVWD and YVWD were just one percent above. SMWC produced close to 17 percent higher than the previous year.

3.2.2 Overlying Party Production

Overlying Parties are defined in the Judgment as persons, or their assignees, that are part of the Judgment, owners of land which overlies the Beaumont Basin, and have exercised Overlying Water Rights to pump therefrom. Overlying Parties include successors in interest and assignees. Overlying Producers were assigned a share of the Basin's Safe Yield, estimated in 2003 at 8,650 ac-ft/yr. Individual Overlying Producers may not pump more than five times their assigned share of the Basin's Safe Yield in any five-year consecutive period without incurring a replenishment obligation.

Currently, there are 17 Overlying Producers in the Basin pumping from 21 groundwater wells. All active wells operated by the larger producers are metered. Meters were installed by individual owners or as part of an effort initiated by Watermaster in 2013 to obtain a closer production accounting from Overlying Parties. Production from metered wells represented over 99 percent of the total production by Overlying Parties in CY 2025.

The remaining wells, operated by smaller producers, did not have meters for some or most of 2025 and their production is estimated using the water duty method. This method was initially proposed by Wildermuth Environmental Inc. (WEI), during the preparation of the 2005-06 Annual Report. After being accepted by the Committee, an updated water duty method was developed by

WEI and it has been used since. The estimate of unmetered production for the CY 2025 Annual Report uses the updated method as detailed in Appendix D.

Similar to the production reported for the Appropriators, a series of tables were developed to report monthly and annual production from the Overlying Parties on a calendar year basis. Starting with Table 3-2A, monthly production by overlying well is documented for CY 2021. In a similar manner, Tables 3-2B through 3-2E summarize monthly overlying production for CY 2022 through CY 2025, respectively. In addition, these tables show their share of the Safe Yield and the amount of unused water for each Overlying Party.

During CY 2025, Overlying Producers produced an estimated 1,976.9 ac-ft, 38.2 ac-ft higher than in CY 2024 when 1,938.70 ac-ft were produced. Compared to the 2021-25 five-year average of 1,921.8 ac-ft, Overlying production in CY 2025 was approximately three percent higher. Production in CY 2025 by Overlying Parties was just above the 10-year average of 1,973.8 ac-ft.

3.2.3 2003-2025 Annual Production Summary

Annual production for all Appropriators and Overlying parties for the last 10 calendar years is summarized in Table 3-3. In previous annual reports this table has been split into an A and a B parts to report annual production since CY 2003. Starting with CY 2023, the annual report only documents the last 10 years of production from the basin. Production prior to 2016 has been extensively documented in earlier annual reports and can be found online.

Since July 2003, a total of 366,246 ac-ft has been pumped from the Beaumont Basin; an estimated 85.3 percent of this total has been pumped by Appropriators. The percentage of groundwater production from Appropriators has steadily increased since the Judgment inception from a low of 74.3 percent registered in CY 2003 to a temporary high of 87.2 percent recorded in CY 2014. Production by Appropriators reached an all-time high of 90.1 percent in CY 2021. Over the last five years, production by Appropriators has averaged 88.7 percent of total extractions.

Groundwater production peaked in CY 2007 when 19,811 ac-ft were pumped from the basin; since, it declined steadily through CY 2010 to approximately 13,619 ac-ft. Production during the CY 2011-14 period increased by 26.2 percent to 17,282 ac-ft.; however, it declined to less than 14,000 ac-ft in the ensuing two years. Total production from the basin increased significantly in the CY 2018-22 five years to an all-time high of 19,938 ac-ft in CY 2021, slightly higher than the 2007 peak; however, it decreased by over 5,000 ac-ft in CY 2023 to an annual total of 14,226 ac-ft which represents the lowest level of production since CY 2016. Production in CY 2025 was slightly higher than in CY 2024 at 16,778 ac-ft. Figure 3-4 depicts annual total production by Appropriators and Overlying parties on a calendar year basis. Also, depicted on this figure is the amount of annual Overlying underproduction to be allocated to Appropriators (See Section 3.4.4).

3.2.4 Revisions to Previously Reported Production

Oak Valley Golf Course, as an Overlying member of the Adjudication, owns and operates two groundwater production wells in the Beaumont Basin. BCVWD provides production readings at the beginning and end of each month for these two wells in addition to their regular production wells in the basin. All production information is provided in cubic feet with the exception of Oak

Valley Golf Course Well No. 2, which is provided in gallons. This difference in flow units has been mistakenly applied over the years when documenting production in previous annual reports. To correct this mistake, monthly production information was reviewed back to CY 2013 to properly assess and document groundwater production from these two wells. Listed below are the previously reported production and the corrected quantities by year.

Year	Previously Reported	Corrected Production
2013	625.76	394.67
2014	417.02	417.02
2015	751.15	521.12
2016	552.31	436.35
2017	829.96	829.96
2018	537.05	573.13
2019	489.57	489.57
2020	577.26	577.22
2021	525.10	371.27
2022	563.44	563.44
2023	209.80	439.17
2024	443.58	526.40
Total	6,558.00	6,139.32

Corrected production for this 12-year period is 418.68 ac-ft lower than previously reported; this results in higher allocation of unused Overlying water to Appropriators through CY 2029. The distribution of this additional overlying water to Appropriators is based on Exhibit C of the Judgment, as presented below.

Agency	Share of Safe Yield	Allocated Amount
Banning, City of	31.43%	131.51
BCVWD	42.51%	177.98
SMWC	12.48%	52.25
YVWD	13.58%	56.86
Total	100.00%	418.68

Based on the production revisions through CY 2019, additional Unused Overlying production for CY 2024 is calculated at 577.08 ac-ft to be distributed as follows:

Agency	Share of Safe Yield	Allocated Amount
Banning, City of	31.43%	181.38
BCVWD	42.51%	245.32
SMWC	12.48%	72.02
YVWD	13.58%	78.37
Total	100.00%	577.08

3.3 Groundwater Recharge

The Watermaster is responsible for maintaining an annual account of all water artificially recharged in the Beaumont Basin and any losses of water supplies or Safe Yield resulting from such recharged water. Sources of groundwater recharge are currently limited to imported water from the State Water Project (SWP); however, other potential sources such as recycled water and new yield sources may contribute to groundwater recharge in the future.

The Watermaster has maintained the accounting of groundwater recharge; however, losses from the basin, estimated in the Beaumont Basin Storage Analysis (Sept 2018), have not been incorporated into the accounting of storage in the basin. The Watermaster may adopt a policy to address storage losses in the future. Table 3-4 presents a summary of the annual groundwater recharge in the Beaumont Basin since 2004 on a calendar year basis.

3.3.1 State Water Project Water Recharge

Deliveries of imported water are conducted through the San Geronio Pass Water Agency, the State Water Contractor for a portion of Riverside County. BCVWD's Noble Creek Recharge Facility (NCRF), located in the vicinity of Beaumont Avenue and Cherry Valley Blvd., was until 2018 the primary facility in the Beaumont Basin where imported water could be delivered for groundwater recharge. In 2019, SGPWA completed the construction of a new spreading facility southwest of the intersection of Beaumont Avenue and Brookside Avenue; spreading of imported water at this location took place for the first time in December of 2019 when 257.80 ac-ft were spread. The location of these recharge facilities is depicted in Figure 3-3.

BCVWD began taking deliveries of imported water for groundwater recharge in the Fall of 2006 when 3,501 ac-ft were spread pursuant to the storage and recharge agreement on file with Watermaster. Deliveries of imported water for BCVWD increased over the next five years peaking in CY 2011 at 7,979 ac-ft and declining through 2015 to a low of 2,773 ac-ft. From CY 2016 through CY 2020, BCVWD purchase close to 12,000 ac-ft per year on average; however, purchases of imported water in CY 2021 decreased to a low of 2,468 ac-ft and in CY 2022 to an all-time low of 1,776.0 ac-ft. The significant reduction in imported water purchase for groundwater recharge in those two years was primarily related to the lack of available water

from the SWP. However, in CY 2023, thanks to significantly above average precipitation in the northern portion of the State, BCVWD was able to purchase 18,000 ac-ft of SWP project water. This was followed by the purchase of 14,000 ac-ft in CY 2024 and 16,200 ac-ft in CY 2025. In total, 161,336 ac-ft of imported water have been purchased by BCVWD since CY 2006 for groundwater spreading, as listed in Table 3-4.

The City of Banning began purchasing imported water for recharge at BCVWD's NCRF in July 2008 and has since purchased 18,227.2 ac-ft. in accordance with their storage agreement on file with Watermaster. During CY 2012 and 2013, Banning purchased an average of 100 ac-ft per month; purchases in CY 2014 and 2015 were reduced to approximately half of that amount. However, in CY 2016 and 2017 purchases of imported water increased significantly to 1,477 ac-ft and 1,350 ac-ft, respectively. In CY 2019 and again in CY 2020, the City of Banning purchased only 250 ac-ft of imported water per year while no purchases took place in CY 2021 and limited purchases in CY 2022. In CY 2023, the City of Banning purchased 1,000 ac-ft of imported water; this quantity was increased to 1,500 ac-ft in CY 2024 and again to 1,750 ac-ft in CY 2025.

Beginning in CY 2023, YVWD began purchasing imported water to artificially recharge the basin; 500 ac-ft were acquired during that year. In CY 2024, YVWD purchased an additional 2,000 ac-ft. No purchases took place in CY 2025.

In addition to imported water deliveries to individual agencies, SGPWA has also delivered significant quantities of imported water at the Little San Gorgonio Creek Recharge Facility. These spreading ponds are located north of the adjudicated boundary of the Beaumont Basin, as shown in Figure 3-3. Spreading of imported water at these spreading ponds is likely to be a source of subsurface recharge to the Beaumont Basin; however, Watermaster has not adopted this finding. Subsurface recharge across the Banning Fault was investigated as part of the Safe Yield of the Basin determination study, completed in early 2015.

Deliveries of imported water by SGPWA to the Little San Gorgonio Creek Spreading Ponds began in August 2003. Between 2004 and 2013, SGPWA recharged a total of 10,464 ac-ft or an average of 1,046.4 ac-ft/yr. Deliveries in CY 2014 through CY 2018 were practically non-existent as less than 44 ac-ft were spread in those five years combined. No spreading by SGPWA has taken place at the Little San Gorgonio Creek Spreading Ponds since CY 2016 until November 2025 when 16 ac-ft were spread.

Under Resolution 17-01, adopted on June 7, 2017, SGPWA entered into a storage agreement with the Beaumont Basin Watermaster to store up to 10,000 ac-ft of imported water in the Beaumont Basin subject to certain conditions. Starting in CY 2019, SGPWA began spreading imported water at their new facilities on Brookside Avenue through the Mountain View Turnout. In CY 2023, SGPWA spread 9,220.1 ac-ft at this location; an additional 7,785 ac-ft were spread at this facility during CY 2024. In CY 2025, 6,647 ac-ft of imported water were spread at the Brookside facility.

3.3.2 Treated Wastewater Discharge

The City of Beaumont owns and operates the Beaumont Wastewater Treatment Plant. The plant was originally designed and permitted to discharge up to 4.0 mgd of tertiary treated wastewater; current capacity is 6.0 mgd. Discharges from this plant are not permitted for recycled water use at this time and are currently regulated under Order No. R8- 2015-0026, NPDES Number CA105376.

Prior to March 2010, Beaumont's treated wastewater from Wastewater Treatment Plant No. 1 was discharged at Discharge Point No. 1 (DP-001) in Cooper's Creek where it infiltrated into the San Timoteo Management Zone and outside the Beaumont Basin. Starting in March 2010, the City of Beaumont began deliveries of treated wastewater to Discharge Point No. 7 (DP-007), located along an unnamed tributary of Marshall Creek, as shown in Figure 3-3. In the Fall of 2015, the City of Beaumont ceased deliveries to DP-007 in Marshall Creek and continued to use the discharge facilities at Discharge Point No. 1 only.

Treated wastewater discharges from this plant peaked during CY 2020 at 4,305 ac-ft (3.83 mgd). Discharges declined over the 2021-2024 four-year period to an annual average of 3,958 ac-ft; in CY 2025 a total of 3,911 ac-ft of treated wastewater were discharged.

Monthly discharges at DP-001 varied slightly in CY 2025 from a low 3.38 mgd in October to a high of 3.59 mgd in August; the average for the year was 3.49 mgd. Monthly treated wastewater discharges by the City of Beaumont since 2007 are summarized in Table 3-5.

3.3.3 New Yield Stormwater Recharge

Before accounting for any new yield resulting from the recharge of local surface water, not initially considered as part of the Basin Safe Yield, Watermaster needs to develop a methodology to quantify and credit the New Yield to the party that creates the new recharge. According to Part VI Paragraph 5.V of the Judgment, Watermaster shall make an independent scientific assessment of the estimated new yield created by each proposed project. It is our understanding that the City of Beaumont has been recharging local waters at various locations in the Basin and would like to receive credit for the New Yield developed. For the City of Beaumont to receive credit however, Watermaster will need to develop the methodology to compute and credit the New Yield.

3.4 Water Transfers and Adjustments of Rights

Section 7 of the Watermaster Rules and Regulations, as replaced by Resolution 2019-02 in June 2019, provides for the adjustment of rights by and between Appropriators and Overlying Parties. This section indicates that Watermaster shall maintain an accounting for all transfers and include said transfers in the Annual Report or other relevant documents. There are three types of transfers that Watermaster accounts for:

- ✓ Transfer of water rights and/or water in storage between Appropriators
- ✓ Transfer of water rights from Overlying producers to an Appropriator in exchange for water service, and

- ✓ Allocation of unused Overlying Water to the Appropriator Parties based on their share of the Operating Safe Yield.

According to Part VI, Administration, Paragraph 5Y of the Judgment, the Safe Yield of the Beaumont Basin shall be re-determined at least every 10 years after the date of entry of the Judgment, February 4, 2004. In 2015 the Safe Yield of the Beaumont Basin was re-determined and estimated at 6,700 ac-ft/yr. This amount represents a 22.54 percent reduction from the previous estimate of 8,650 ac-ft/yr. In 2024 the Safe Yield of the Beaumont Basin was redetermined for the second time and estimated at 7,100 ac-ft/yr, representing an increase of six percent over the previous estimate. Table 3-6 presents the initial and revised production rights for individual Overlying producers and compares the latest estimate against actual groundwater production during the 2021-25 five-year period for each user. Annual average groundwater production during this period for all Overlying producers combined was estimated at 1,921.8 ac-ft/yr; representing approximately 27.1 percent of the 2024, revised Safe Yield. Individually, none of the Overlying producers produced more than their allowable production rights during this five-year period; Sharondale Mesa Owner Association averaged the highest percentage of their respective allocation at 63.7 percent followed by California Oak Valley Golf and Resort LLC at 61.2 percent. Plantation on the Lake and Tukwet Canyon Golf Course followed at 59.9 percent and 56.0 percent respectively. All other Overliers pumped less than 30 percent of their allocation.

3.4.1 Transfers between Appropriators

According to Section 7.2 of the Rules and Regulations, as replaced under Resolution 2019-02, an Appropriator may transfer all or a portion of its production right or water in storage that exceeds its supply needs to another Appropriator.

In January 2008, SMWC and BCVWD entered into a transfer agreement that allowed BCVWD the option to purchase all water that SMWC determines to be available for transfer from their storage account. As part of the agreement, each year SMWC estimates the amount of water available for transfer and offers it to BCVWD for purchase prior to offering it to other Appropriators. Since the beginning of the agreement, SMWC has transferred 9,500 ac-ft of water to BCVWD with 3,500 ac-ft transferred in CY 2011 alone. SMWC also transferred 1,500 ac-ft of water to the City of Banning in CY 2007. The purchase agreements and transfers between these agencies are on file with Watermaster. CY 2011 was the last year that SMWC transferred water to other Appropriators.

No water transfers between Appropriators were reported during CY 2025.

3.4.2 Transfers from SGPWA

At the beginning of CY 2025, SGPWA had 1,594.60 ac-ft in its local storage account. During the year, the agency delivered 6,647 ac-ft to the Brookside East Spreading Ponds and 12,227 ac-ft to the Noble Creek Recharge Facility for a combined total of 20,469 ac-ft. Of this amount, 12,197 ac-ft were spread on behalf of BCVWD. BCVWD also received 4,003 ac-ft of imported water from SGPWA's account for a combined total of 16,200 ac-ft of imported water added to BCVWD's storage account. No imported water was spread on behalf of the City of

Banning; instead, 1,750 ac-ft were transferred in from SGPWA's account. YVWD and SMWC did not receive any imported water for storage. At the end of the calendar year, SGPWA added 924.0 ac-ft of imported water to its account for an ending total of 2,518.6 ac-ft.

3.4.3 Transfers of Overlying Rights for Service by an Appropriator

The Stipulated Judgment, under Part III, Declaration of Adjustment of Rights, Section 3(B), provides that to the extent any Overlying Party requests, and uses its Exhibit "B", Column 4 water to obtain water service from an Appropriative Party, an equivalent volume of potable groundwater shall be earmarked by the Appropriative Party which will serve the Overlying Party, up to the volume of the Overlying Water Rights as reflected in Column 4 of Exhibit "B" for the purpose of serving the Overlying Party.

The Stipulated Judgment, under Part III, Section 3(C), states that in the event that an Overlying Party receives water service from an Appropriative Party, the Overlying Party shall forebear the use of that volume of the Overlying Water Right earmarked by the Appropriative Party. The Appropriator Party providing such service shall have the right to produce the volume of water foregone by the Overlying Party, in addition to other rights otherwise allocated to the Appropriator Party.

Under Resolution 17-02, adopted on August 30, 2017, Oak Valley Partners L.P. ("OVP") agreed to transfer its Overlying water rights to particular development parcels, intending to secure commitments from YVWD to provide water services to development phases of OVP's Summerwind Ranch Specific Plan (Project), located in the Beaumont Basin. The Stipulated Judgment allocated OVP an Overlying production right of 1,806 ac-ft/yr based on the initial Safe Yield of 8,650 ac-ft/yr. OVP's rights were adjusted to 1,398.87 ac-ft/yr based on the recalculated Safe Yield of 6,700 ac-ft/yr as approved by the Watermaster on April 1, 2015. OVP's rights were adjusted again to 1,482.38 ac-ft as part of the 2024 Redetermination of the Safe Yield.

During CY 2018 and CY 2019, OVP transferred, through four separate assignments, a total of 183.05 ac-ft of their Overlying water rights to YVWD. Documentation of these transfers was provided by YVWD to the Watermaster Committee, as correspondence, in the March 28, 2018, August 1, 2018, October 3, 2018, and February 6, 2019 meetings.

Under Resolution 2019-02, adopted on June 25, 2019, the Beaumont Basin Watermaster rescinded Section 7 of the Beaumont Basin Watermaster Rules and Regulations in its entirety and replaced it as provided in Attachment A of the resolution. Under this resolution, the Beaumont Basin Watermaster also updated Form 5 entitled, "Notice to Adjust Rights of an Overlying Party due to Proposed Provision of Water Service by an Appropriator" and Form 7 entitled, "Notice to Transfers of Appropriator Production Right of Operating Yield Between Appropriators".

At the Dec 4, 2019 Watermaster Meeting, YVWD submitted a Form 5, signed Nov 19, 2019, documenting the transfer of OVP's all original 1,806 / revised 1,398.87 ac-ft ("Earmarked Water") of Overlying Water Rights to YVWD effective on October 9, 2018 (See Appendix E of the 2020 Annual Report). This issue was extensively discussed at that meeting and

throughout the various meetings in 2020 between legal counsel and members of the Watermaster Committee without reaching an agreement. In mid-2021, YVWD filed with the Court two related motions. The first motion was to rescind Watermaster Rule 7.3 (formerly Rule 7.8); the second motion was to order the Watermaster to recognize Oak Valley Partners, LP's transfer of overlying water rights. On August 31, 2021, the Court denied these motions without prejudice. A copy of the Notice of Entry of Order Regarding YVWD's Motions, along with associated exhibits A and B was included under Appendix A of the 2021 Annual Report.

On May 24, 2023, YVWD notified the Watermaster that completed Form 5s for CY 2018 through CY 2022, documenting OVP's transfers will be included in the Correspondence section of the June 7, 2023 meeting packet to Receive and File. Through this submittal, YVWD wanted to transfer a cumulative 790.3 ac-ft of Overlying water rights from OVP for this five-year period. This item was brought up for discussion under TM 23-14 and as a result the Watermaster Committee voted to receive and file the Form 5s, as provided by YVWD, with further documented clarification of the rescission of the previous requests for water rights transfers, and further discussion, resolution, and adherence to the format of Resolution 2017-02.

On September 18, 2023, the YVWD submitted the information requested by the Watermaster Committee for consideration at the October 4, 2023 regular meeting. The information provided by YVWD was deemed to be complete and properly documented and as a result the Watermaster Committee approved to Receive and File the permanent transfer of Overlying water rights from OVP to YVWD for calendar years 2018 through 2022. The aggregated water rights transferred during this five-year period are as follows:

- ✓ 2018 – 0.11 ac-ft
- ✓ 2019 – 63.96 ac-ft
- ✓ 2020 – 194.82 ac-ft
- ✓ 2021 – 366.77 ac-ft
- ✓ 2022 – 478.25 ac-ft

Supporting documentation for the transfer of water rights between CY 2018 and CY 2022 is documented under Appendix F of the 2023 Final Consolidated Annual and Engineering Report.

For CY 2023, no additional Overlying Water Rights were permanently transferred to YVWD from OVP. As a result, the same quantity of water transfers documented for CY 2022 of 478.25 ac-ft is applied for CY 2023.

For CY 2024, YVWD has provided notice to the Beaumont Basin Watermaster to adjust rights of an Overlying Party due to Water Service by Appropriator for CY 2024. This notice documents that the YVWD has performed the required data acquisition and analysis and has determined that the permanent aggregate transfer of 478.25 ac-ft of Overlying Water Rights from the Oak Valley Development Company / Oak Valley Partners to YVWD should remain

unchanged for CY 2024. Appendix F of the 2024 Consolidated Annual and Engineering Report contains a copy of this notice and supporting documentation.

For CY 2025, information has been requested from YVWD, but it is yet to be provided. While this information may be provided after the Draft report is presented to the Board at the April 2026 regular meeting, it is assumed that the permanent aggregate transfer of 478.25 ac-ft of Overlying Water Rights from the Oak Valley Development Company / Oak Valley Partners to YVWD should remain unchanged for CY 2025.

As a result of these transfers and considering the reevaluation of the Beaumont Basin Safe Yield of 7,100 ac-ft/yr (adopted in 2024), OVP's Overlying rights have been reduced from 1,482.38 ac-ft to 1,004.13 ac-ft/yr for CY 2025. OVP's rights will vary from year to year depending on water services provided by YVWD and potential future adjustments to the Safe Yield of the basin. OVP's remaining rights will be considered as unpumped water and will be distributed to the Appropriators based on certain percentages as reflected in Column 3 of Exhibit "C" of the Judgment.

3.4.4 Allocation of Unused Overlying Water

Section 7.3 of the Rules and Regulations, as replaced under Resolution 2019-02, outlines the process for distributing the volume of adjudicated water not produced by the Overlying Parties to the Appropriators. Under this section, if an Overlying Party produces less than five times their share of the Safe Yield in any five-year period, the quantity of groundwater not produced by that Overlying Party shall be made available for allocation to the Appropriators. Transferring unused production from Overlying Users does not diminish their legal right to produce in subsequent years.

At the inception of the Judgment, transfers of unused production by Overlying Users have been made on a fiscal year basis coinciding with the preparation of the annual report. Preparing the annual report on a calendar year basis required that the transfers of unused production also be made on the same basis. Based on the five-year format used in the Rules and Regulations, transfers to the Appropriator Parties for CY 2025 were based on unused production from Overlying Users in CY 2020. This required the recalculation of Overlying Users production, back to July 2003, on a calendar year basis. Under this format, unused production from the second half of 2003, with adjusted water rights for half of the year, was allocated to Appropriators for CY 2008. Table 3-7 summarizes the volume of unused Overlying water for CY 2003 through CY 2025. While groundwater production by Overlying Users has decreased by over 55 percent since 2004, the volume of unused overlying water has correspondingly increased from 5,053 ac-ft/yr in CY 2006 to a maximum of 6,679 ac-ft during CY 2011. The amount of unused production decreased starting in CY 2014 as a result of reduced Overlying allocations resulting from the new basin Safe Yield of 6,700 ac-ft/yr. The increase in the Safe Yield for the CY 2024-33 period to 7,100 ac-ft/yr has resulted in slightly higher allocation to Overliers and corresponding transfers to Appropriators starting in CY 2029.

Table 3-7 presents the allocation of unused Overlying water to each Appropriator based on their share of the Safe Yield and the schedule set forth under Section 7.3 of the Rules and

Regulations, as replaced under Resolution 2019-02. It should be noted that the quantities presented in this table have been modified to include the adjustment of production by Oak Valley Golf Course wells, as discussed in Section 3.2.4. Unused Overlying production in CY 2020, estimated at 4,594 ac-ft, was allocated to Appropriators during CY 2025. Unused Overlying production during CY 2025, adjusted by reductions on OVP's rights and the revised reevaluation of the Beaumont Basin Safe Yield is estimated at 4,645 ac-ft. This amount would be allocated to Appropriators during CY 2030.

3.5 Appropriators' Production Right

The Appropriators' Production Right, as defined in Subparagraph I.3.B. of the Judgment, "consists of an Appropriator's share of Operating Yield, plus (1) any water acquired by an Appropriator from an Overlying Producer or other Appropriator pursuant to this Judgment, (2) any water withdrawn from the Appropriator's storage account, (3) and New Yield created by the Appropriator."

The Operating Yield, as defined in subparagraph I.3.M of the Judgment, is "the maximum quantity of water which can be produced annually by the Appropriators from the Beaumont Basin, which quantity consists of Appropriative Water plus Temporary Surplus."

Water Acquired by Appropriators includes Transfer of Overlying Water Rights to Appropriators and transfers between Appropriators. At present, the YVWD is the only Appropriator that has received transfers of Overlying Water Rights. Transfers between Appropriators have taken place in the past between SMWC, as the Transferor, and the City of Banning and BCVWD, as the Transferees.

New Yield, as defined in subparagraph I.3.L of the Judgment, is "increases in yield in quantities greater than historical amounts from sources of supply including, but not limited to, capture of available storm flows, by means of projects constructed after February 20, 2003, as determined by the Watermaster. As of present, no project has been defined or approved by Watermaster that has resulted in New Yield. Although not defined in the Judgment, Rising Water has been categorized in this annual report as a potential source of New Yield in the.

Water from storage is another component included in the calculation of Appropriators Production Right. It refers to the amount of water that an Appropriator deems necessary to be taken out of its storage account to meet annual supply requirements. Appropriators have been able to withdraw an equivalent amount of groundwater from their respective storage accounts to balance out their overproduction in any given year. However, the possibility exists in the future when an Appropriator may not have water in their respective storage account and/or may not be able to acquire sufficient imported water for groundwater recharge.

Table 3-8 presents the Appropriators' Production Right on an annual basis for each of the Appropriators for the 20-year 2006-25 period including the various categories of supply sources available to Appropriators to meet their annual water demands. Figures 3-5 through 3-9 illustrate Supply Sources and Storage Accounts for the City of Banning, BCVWD, SMWC, YVWD and the Beaumont Basin as a whole respectively.

3.6 Storage Accounting

Section 6.7 of the Watermaster Rules and Regulations indicates that Watermaster shall calculate additions, extractions, and losses of all water stored and any losses of water supplies or Safe Yield resulting from such water stored. This section of the Rules and Regulations further indicates that Watermaster shall keep and maintain for public record an annual accounting thereof. While additions (spreading) and extractions (pumping) are easily quantifiable, losses from storage are more difficult to estimate. The completion of the “Beaumont Basin Storage Loss Analysis” in September 2018 estimates storage losses under various spreading scenarios; however, Watermaster has not developed a methodology to adjust storage accounts and their corresponding losses.

3.6.1 Annual Storage Consolidation

Consistent with the new reporting format to document extractions, spreading and other groundwater activities on a calendar year basis, Table 3-9 represents the consolidation of each Appropriator’s storage account for the 20-year period from CY 2006 through CY 2025. This table includes, on an annual basis, Appropriators’ production rights, as defined in Section 3.5 and documented in Table 3-8, annual production, and any supplemental water that may have been acquired during the year. It also documents the amount of water that may be taken from storage to meet annual water demands.

After considering the historical production revisions to the Oak Valley Golf Course wells, as documented in Section 3.2.4, the amount of water in storage at the end of CY 2024 was 119,312.40 ac-ft of water; this total increased in CY 2025 by 9,145.3 ac-ft to a cumulative total of 128,457.90 ac-ft. As a result of the significant amount of imported water recharged during the CY 2023 through CY 2025 period, groundwater storage in the basin is the highest recorded since the adjudication. The amount of water in storage by party at the beginning and end of CY 2025 is presented below.

Agency / Party to the Judgment	Calendar Year 2025 (ac-ft)		
	Beginning	Ending	Change
City of Banning	49,357.6	50,007.1	649.6
BCVWD	38,313.3	45,470.0	7,156.8
City of Beaumont	0.0	0.0	0.0
South Mesa Water Company	10,960.2	11,270.9	310.7
Yucaipa Valley Water District	19,086.9	19,191.2	104.2
Morongo Band of Mission Indians	0.0	0.0	0.0
San Gorgonio Pass Water Agency	1,594.6	2,518.6	924.0
TOTAL in Storage	119,312.6	128,457.9	9,145.3

Figure 3-10 compares the amount of water in storage to the storage limit for each party with storage accounts while Figure 3-11 presents storage totals by agency for the most recent 10-year period.

3.7 Groundwater Level Monitoring Program

A groundwater level monitoring program was initiated in 2015 to collect water levels throughout the basin using dedicated monitoring wells. Selected monitoring wells were equipped with a water level probe attached to a communications cable. The probe collects water level information on an hourly basis; collected data is downloaded from the probes every two months and a report is prepared for the Watermaster Committee at each regular meeting.

At the present time, there are 15 monitoring wells equipped with water level probes as depicted in Figure 3-12. In addition, there are two monitoring probes collecting barometric pressures at opposite ends of the Beaumont Basin. During regular visits to the monitoring sites, the depth to water is measured using a water level meter according to the guidelines established in the recently adopted Rules and Regulations (Dec 2022).

Five additional monitoring wells have been identified around the Noble Creek Recharge Facility. They are anticipated to be equipped by the Spring 2026.

Collected information is used to evaluate groundwater levels in the basin as documented in Section 3.8 of this report.

3.8 Evaluation of Groundwater Conditions

3.8.1 Analysis of Groundwater Level Changes

Changes in groundwater flow and groundwater levels between 2024 and 2025 were evaluated based on measured data in dedicated monitoring wells and static measurements at active production wells located throughout the Beaumont Basin. Separate groundwater level contour maps were created for winter (December) 2024 and winter 2025 to evaluate changes in groundwater flow patterns and basin-wide changes in groundwater levels over the time period. The manually generated groundwater contour maps for 2024 and 2025 are shown in Figures 3-13 and 3-14, respectively.

Groundwater flow direction and gradient within the Beaumont Basin varies depending on location. In the west central portion of the basin (immediately west of the Beaumont Plains Fault Zone), groundwater generally flows to the north from the lowest reach of Noble Creek. Further to the west near Calimesa, the groundwater flow direction becomes westerly and then southwesterly toward San Timoteo Wash. In the eastern part of the basin, groundwater flows to the southeast towards the City of Banning. The groundwater flow directions did not change significantly between 2023 and 2024.

Basin-wide groundwater level trends in the Beaumont Basin were evaluated based on hydrographs from ten key wells and the groundwater level change map developed by subtracting the 2024 groundwater surface from the 2025 groundwater surface (see Figures 3-

13 and 3-14). In the west central portion of the basin (BCVWD 29) groundwater levels showed some seasonal variability in 2025 and increased by approximately one foot over the year.

In the northwest portion of the basin (YVWD 34), groundwater levels have shown a downward trend since approximately 2020, but were relatively stable in 2025. At this well, groundwater levels increased by approximately four feet in 2025. At Moreno Well No. 6, water levels have steadily dropped from 2003 to 2022 at which time they became stable. In 2025, groundwater levels at this well declined by approximately two feet. At Tukwet Canyon Golf Club B, groundwater levels were relatively stable in 2025 as they declined about one-foot.

Groundwater levels at Oak Valley No. 1, in the central portion of the basin, were highly variable and likely influenced by groundwater pumping. As judged by the highest peaks in the hydrograph, the overall groundwater level trend at this well has been relatively stable in 2025 (See Figure 3-15).

In the northern part of the basin, a groundwater mound developed at the BCVWD Noble Creek Recharge Facility with as much as 23 feet of rise during CY 2025 (see Figure 3-16). The rise in groundwater elevation is correlated with an increase in managed recharge at the facility in 2025 (12,227 ac-ft) and CY 2024 (10,417 ac-ft) relative to 2022 (1,812 ac-ft) and 2021 (2,504 ac-ft). In CY 2025, an additional 6,647 ac-ft of water was delivered to the SGPWA spreading grounds south of Brookside Drive, which also contributed to the groundwater level rise in the area.

In the south-central portion of the basin, groundwater levels at BCVWD Well No. 2 showed some seasonal variability over the 2025 year and increased by approximately ten feet between over the year. At Banning Well C-4 (southeast Beaumont Basin), groundwater levels were not available for the winter of 2025. Groundwater levels in other southeast area wells declined over the year by as much as approximately 19 feet.

Groundwater levels in the northeast portion of the basin (near USGS Highland Springs Monitoring Well) increased by approximately 15 feet during the year; however, static water levels for the winter of 2025 were not available for the USGS wells.

3.8.2 Analysis of Change in Groundwater Storage

Basin-wide change in groundwater storage between winter 2024 and winter 2025 was analyzed as a function of the difference in groundwater levels across the basin and the specific yield of the aquifer sediments. Specific yield values were obtained from the calibrated groundwater flow model of the Beaumont Basin used in the 2023 Reevaluation of the Beaumont Basin Safe Yield (TH&Co, 2024). Groundwater level change across the basin was analyzed using the following procedure:

- ✓ The winter 2024 and 2025 hand-generated groundwater contour maps were each converted into three-dimensional raster surfaces.
- ✓ The basin was discretized into 100-ft by 100-ft grid cells.

- ✓ Attributes were assigned to each saturated grid cell including groundwater level change and specific yield.
- ✓ The resulting attribute table was processed in a Geographic Information System (GIS) for calculating the change in storage.

Results of the analysis show an overall increase in groundwater storage within the adjudicated basin of approximately 1,451 ac-ft during this one-year period. This increase is associated with an increase in imported water deliveries to the Noble Creek Recharge Facilities and the SGPWA spreading grounds south of Brookside Drive, relative to previous years.

3.9 Operating Safe Yield of the Beaumont Basin - 2025

For purposes of this annual report, the annual operating Safe Yield (OSY) describes the net infiltration to the adjudicated groundwater basin (not including artificial recharge) for any given year. It is noted that the OSY is different than the Operating Yield, which is a function of the unused overlie production (Appropriative Water) and Temporary Surplus, as described in the Beaumont Basin Judgment (San Timoteo Management Authority v. Banning et al., 2004).

Operating Safe Yield is estimated based on the following equation:

$$\text{OSY} = \frac{\Sigma P + \Delta S - \Sigma \text{AR}}{\Delta T}$$

where:	ΣP	=	The sum of groundwater production (ac-ft)
	ΔS	=	The change in groundwater storage (ac-ft)
	ΣAR	=	The sum of groundwater recharge (ac-ft)
	ΔT	=	The time over which the OSY is estimated (years)

Total Beaumont Basin groundwater production in calendar year 2025 was 16,778 ac-ft (see Table 3-3). Total artificial recharge in calendar year 2025 was 18,874 ac-ft (see Table 3-4). It is noted that only the Noble Creek Recharge Facility recharge was used in the analysis of OSY (recharge at the Little San Gorgonio Creek facility, if any, is not included because it is outside the adjudicated area). The change estimate is based on the analysis of groundwater levels described earlier. The period of time over which the OSY is evaluated is one year. The resulting OSY is estimated as:

$$\text{OSY} = \frac{16,778 + 1,451 - 18,874}{1} = -645 \text{ ac-ft}$$

It is emphasized that the OSY, as presented herein, is based on one year of groundwater production and recharge data. When evaluated on a long-term basis, this methodology can be used to estimate the long-term Safe Yield of the basin, as defined in the Beaumont Basin Judgment. As required by the Judgment, the Safe Yield of the basin was reevaluated in 2013 and again in 2023.

The OSY for 2025 is not representative of the long-term Safe Yield of the Beaumont Basin. The negative OSY value is likely a function of underestimated positive storage change resulting from groundwater level data gaps at the SGPWA Brookside East recharge basins and other areas downgradient of the Noble Creek recharge basins. The storage change estimated from the available data is significantly lower than volume of water known to have been spread at the recharge basins. While some of the discrepancy may be explained through increased flow out of the basin, it is believed that most of the imported recharge water is still in the basin but cannot be estimated based on the available groundwater level data.

A copy of the report prepared by Thomas Harder & Company on the Evaluation of Groundwater Conditions and Operating Safe Yield for the Beaumont Basin for Calendar Year 2025 is included under Appendix F. Table 3 of this report presents a comparison between groundwater production, artificial recharge, change in groundwater storage, and operating safe yield starting in CY 2011.

3-10 Certification of Groundwater Production and Imported Water Use during Water Year 2025

The State of California Department of Water Resources requires documentation of the use of water in all groundwater basins on a Water Year basis. Water Year 2025 begins on October 1st, 2024 and ends on September 30th, 2025. Groundwater production for the first three months of Water Year 2025 (October through December 2024) is documented in Table 3-1 D, Appropriator Producer – Summary of Production for Calendar Year 2024, for Appropriators and Table 3-2 D, Overlying Producer – Summary of Production for Calendar Year 2024, for Overlying users.

Similarly, Appropriator production during the last nine months of Water Year 2025 (January through September 2025) is documented in Table 3-1 E, Appropriator Producer – Summary of Production for Calendar Year 2025, for Appropriators and Table 3-2-E, Overlying Producer – Summary of Production for Calendar Year 2025, for Overlying users. Total groundwater production for Water Year 2025 was 17,262 ac-ft as follows:

- ✓ Appropriators: 15,172.9 ac-ft
- ✓ Overlyiers: 2,089.1 ac-ft

The use of imported water has been previously documented on a calendar year basis in Table 3-4, Annual Supplemental Recharge to the Beaumont Basin – Calendar Years 2003-2025. Table 3-10 presents monthly imported water deliveries during Water Year 2025 to the Brookside East and Noble Creek Recharge Facility totaling 20,353 ac-ft for the year. Deliveries to water agencies during the year amounted to 21,080 ac-ft representing a negative difference of 727 ac-ft. This difference was supplied from previously stored water by SGPWA as it began the year with 4,584 ac-ft in their account and ended with 3,857 ac-ft.

Change in Storage in the basin, based on changes in groundwater elevation between October 2024 and October 2025 was estimated at 1,218 ac-ft, as depicted in Figure 3-17.

3.11 Recommendations

The Rules and Regulations, initially adopted in June 2004, were developed with the understanding that they should be revisited and/or revised from time to time to make sure they were consistent with the provisions of the Judgment. Revisions to the Rules and Regulations have been made over the years with the latest revisions adopted in December 2022 as documented earlier in Section 2.4. The latest revisions to the Rules and Regulations, as documented in Resolution 2022-09 will significantly increase the consistency in documenting Overlying water transfers for service by Appropriators and for reporting groundwater levels recording procedures.

In September 2018, a study to estimate groundwater losses from the basin was completed for Watermaster. In this study groundwater losses from the basin resulting from spreading of imported or outside water at selected locations in the basin was estimated. The study has been accepted by the Watermaster Committee; however, a methodology to address this issue is yet to be developed. It is recommended that the Watermaster Committee considers the development of a policy to address groundwater storage losses from the basin.

Watermaster may conduct additional studies in the future in support of:

- ✓ Developing a methodology to account for new yield from capturing local stormwater in the basin, and
- ✓ Developing a methodology to account for recycled water recharge in the basin.

In preparing this annual report and through the review of previous annual reports, we have identified a number of issues/activities that should be considered by the Watermaster to ensure accurate accounting of production, transfers, recharge, and storage. It should be noted that many of the recommendations provided in this section have been previously documented in prior annual reports. Our recommendations are as follows:

- ✓ Develop a protocol to increase the accuracy and consistency of data reported to the Watermaster. This has been partially addressed by the changes to the Rules and Regulations, as documented in Resolution 2022-09. Watermaster should identify a person and/or entity to be the central repository for data collection, transfer, and exchange. This person/entity shall be responsible for the collection and distribution of all groundwater production, water level, groundwater recharge, and water quality information. Quality control of the data in its various forms including checks for errors, omissions, and inconsistencies between the reporting agencies and/or parties should be part of this process.

As indicated earlier, Watermaster is in the process of revising the Rules and Regulations to ensure that its activities are consistent with the requirements of the Judgment. A final recommendation on the Rules and Regulations is anticipated to be finalized and adopted during Calendar Year 2026. The following inconsistencies between guidelines provided in the Rules and Regulations and current Watermaster activities were identified:

- ✓ Watermaster has not conducted a meter maintenance program, as required under Section 3.1 of the Rules and Regulations, to make sure groundwater production is reported accurately. Individual parties may or may not maintain and calibrate their production meters at acceptable intervals. It is recommended that the Watermaster Committee develops a policy to implement regular maintenance and calibration of water meters at production wells.
- ✓ Under Section 3.2 of the Rules and Regulations, producers producing in an excess of 10 ac-ft/yr should report on a monthly basis by the 15th day of the ensuing month while those producing less should file on an annual basis by the 15th of July. This provision should be revised as it was written for fiscal year accounting. Overlying Parties producing less than 10 ac-ft/yr should report by the 15th of January now that calendar year accounting is used. Proper supporting information should be provided.
- ✓ Under Section 2.2.1 (A) of the Rules and Regulations, the Watermaster shall levy and collect assessments each year, in amounts sufficient to purchase replenishment water to replace Overproduction by any party from the previous fiscal year. Assessment shall be collected not later than October 1 of each year. This provision should be changed to reflect Calendar Year basis.

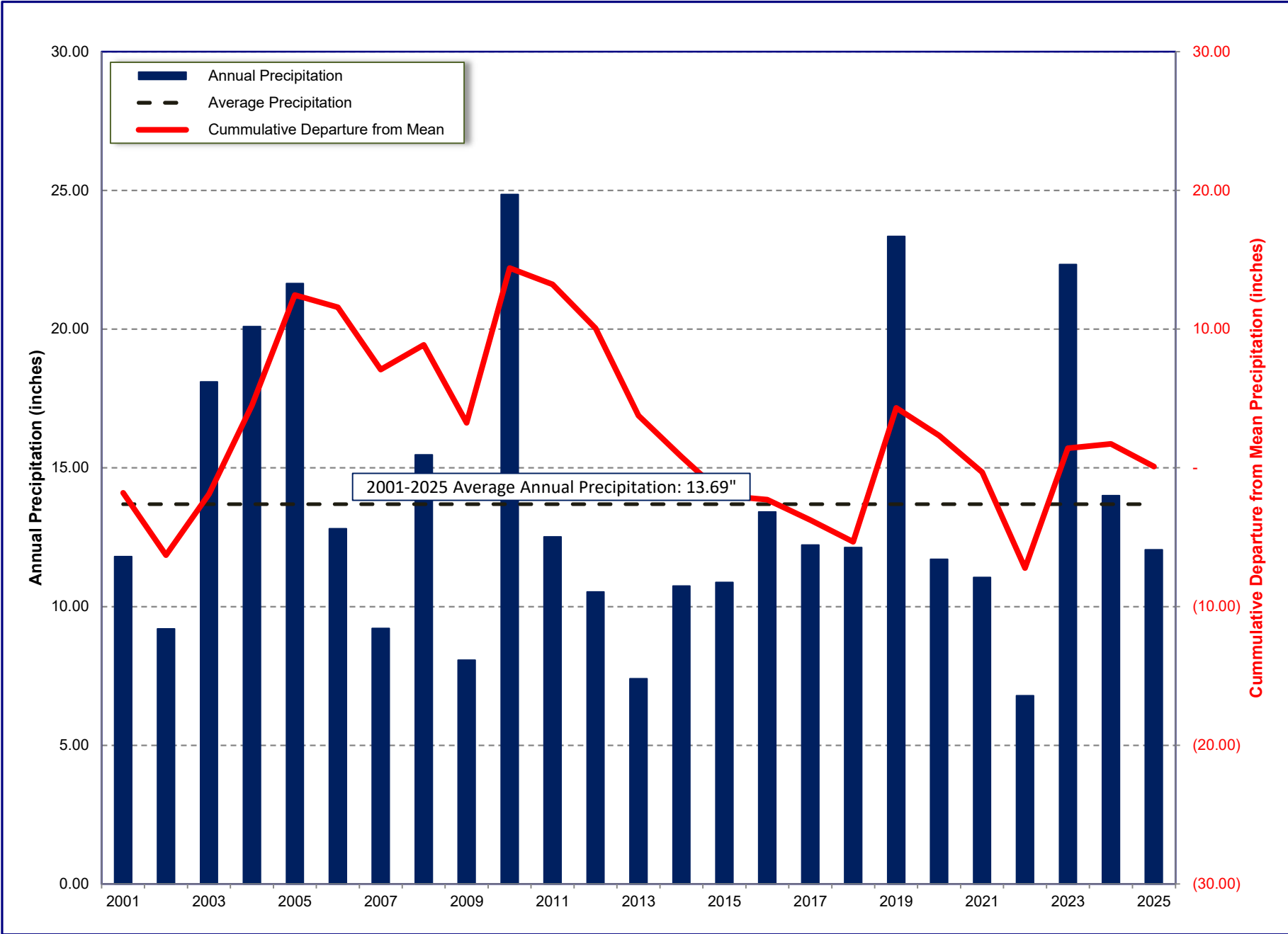
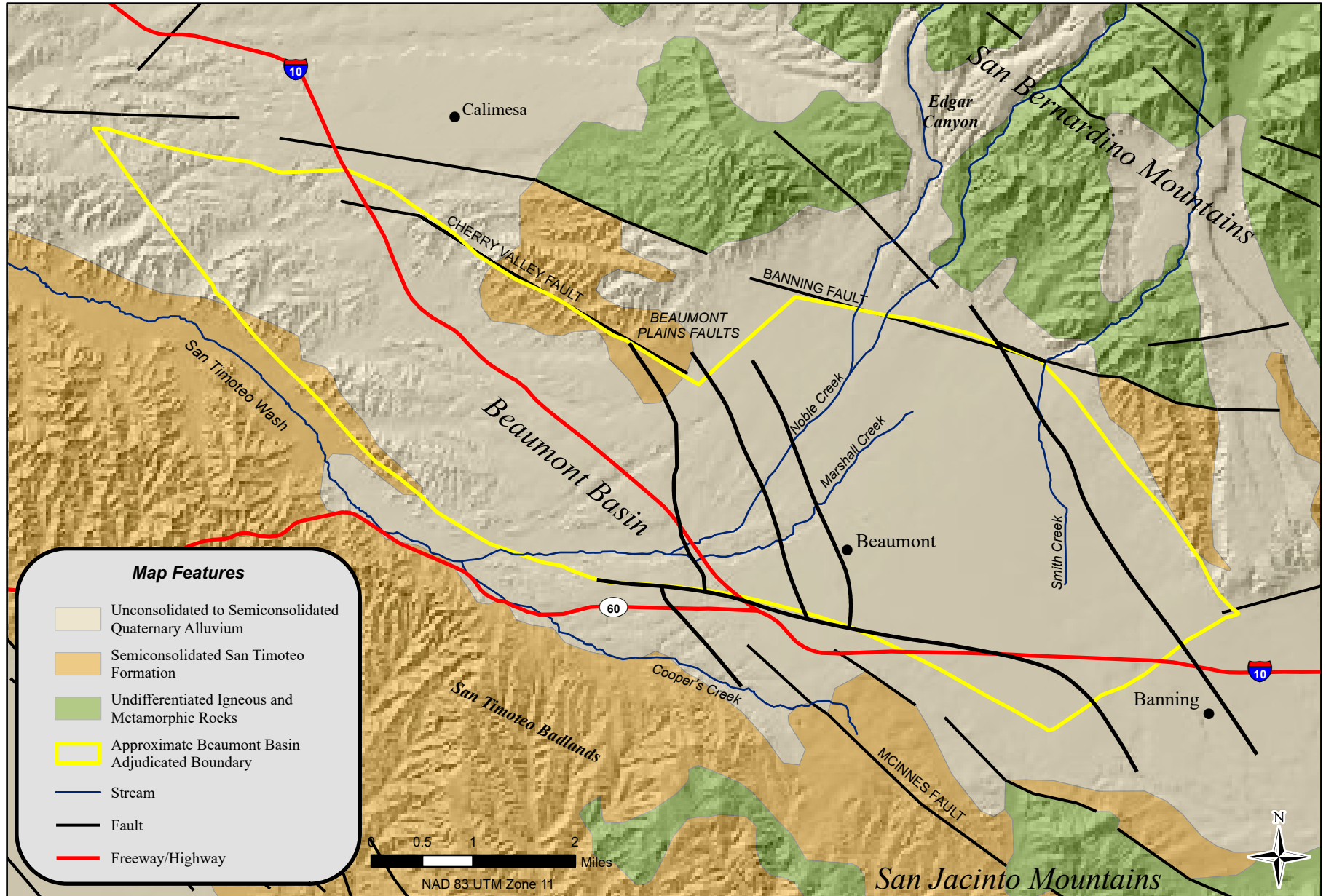
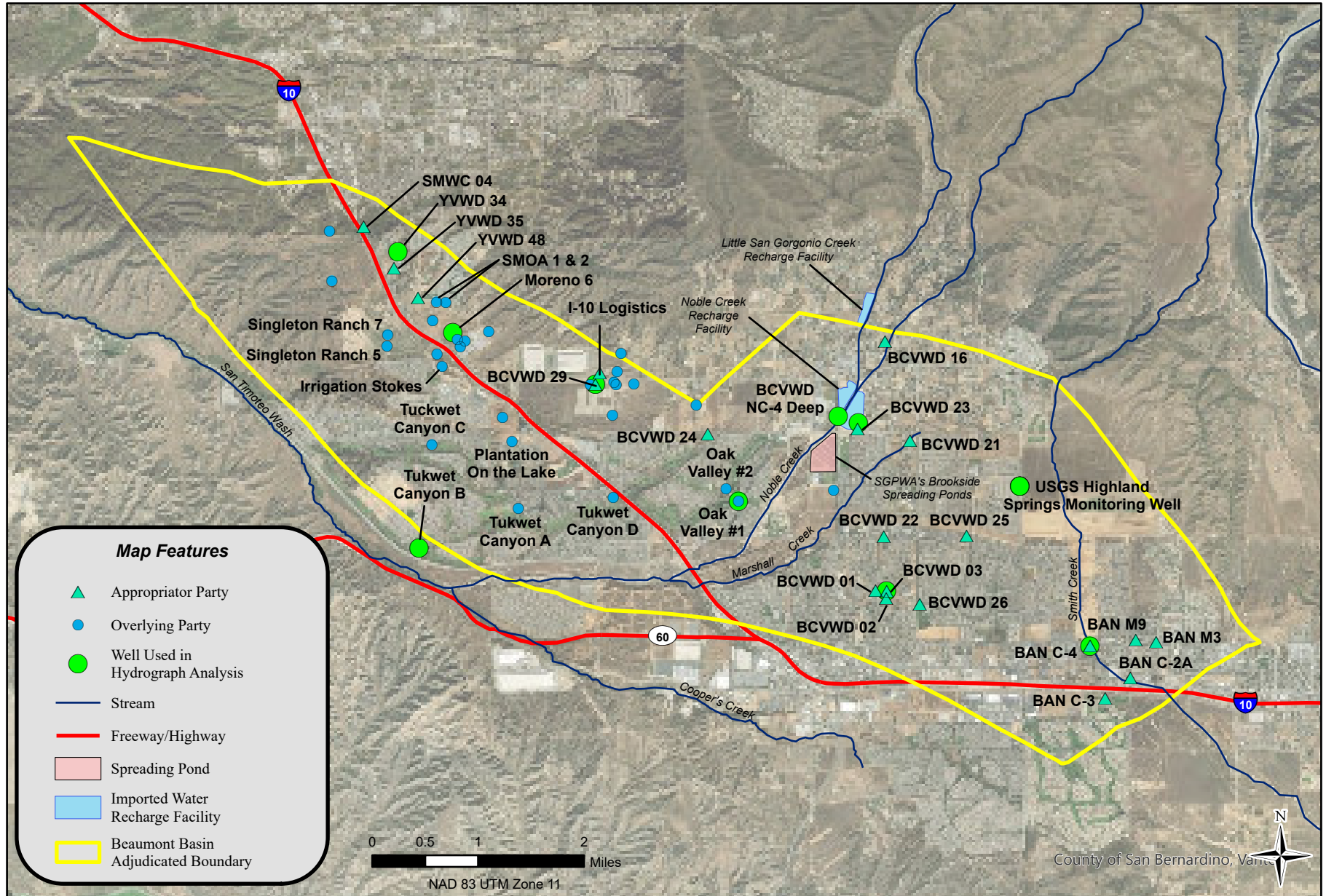


Figure 3-1
Annual Precipitation with Cumulative Departure from the Mean (2001-2025)

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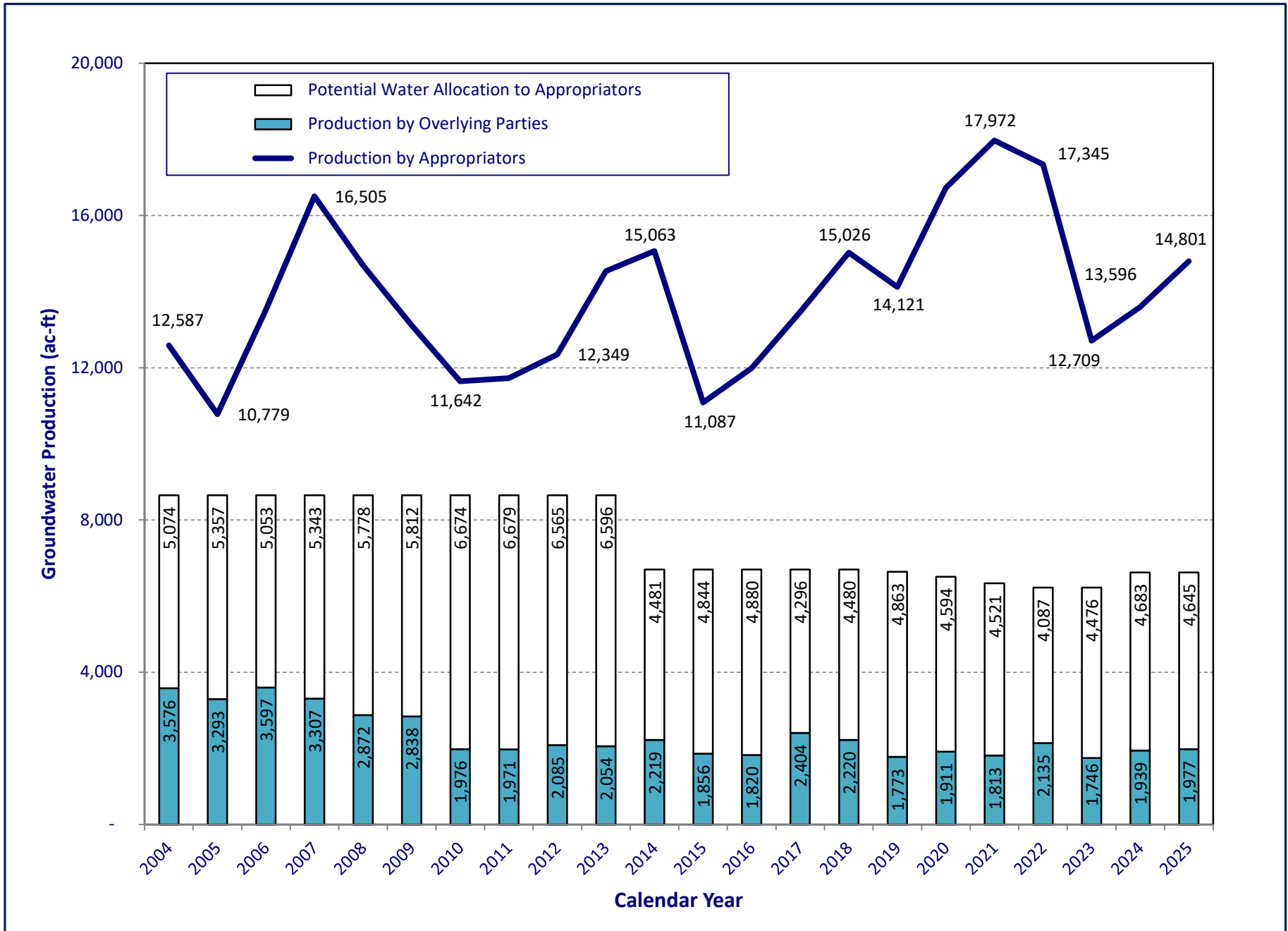


Figure 3-4
Annual Production by Appropriators and Overlying Users (2004-25)

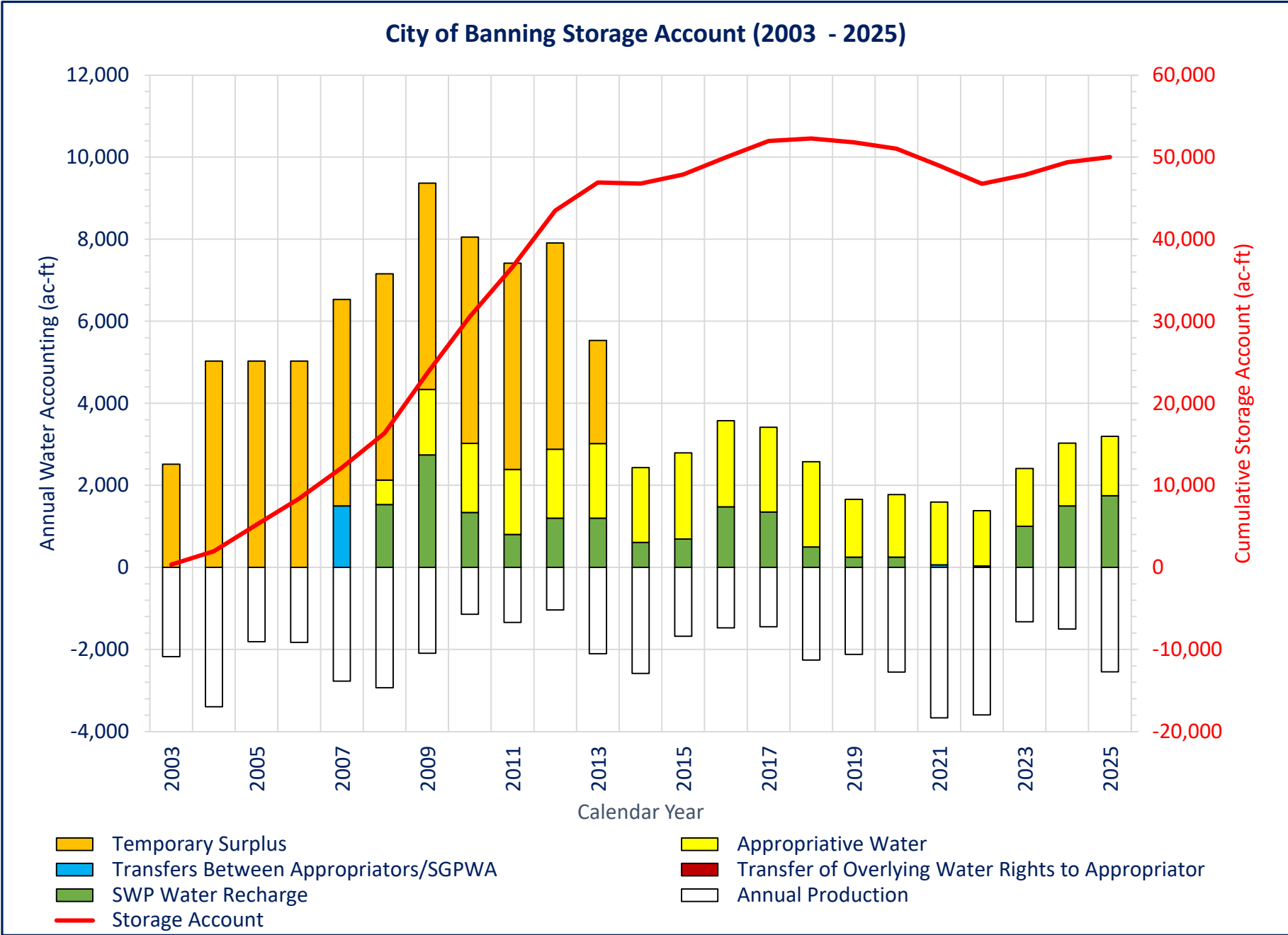


Figure 3-5
City of Banning - Supply Sources and Storage Account (2003-25)

Beaumont-Cherry Valley Water District Storage Account (2003 - 2025)

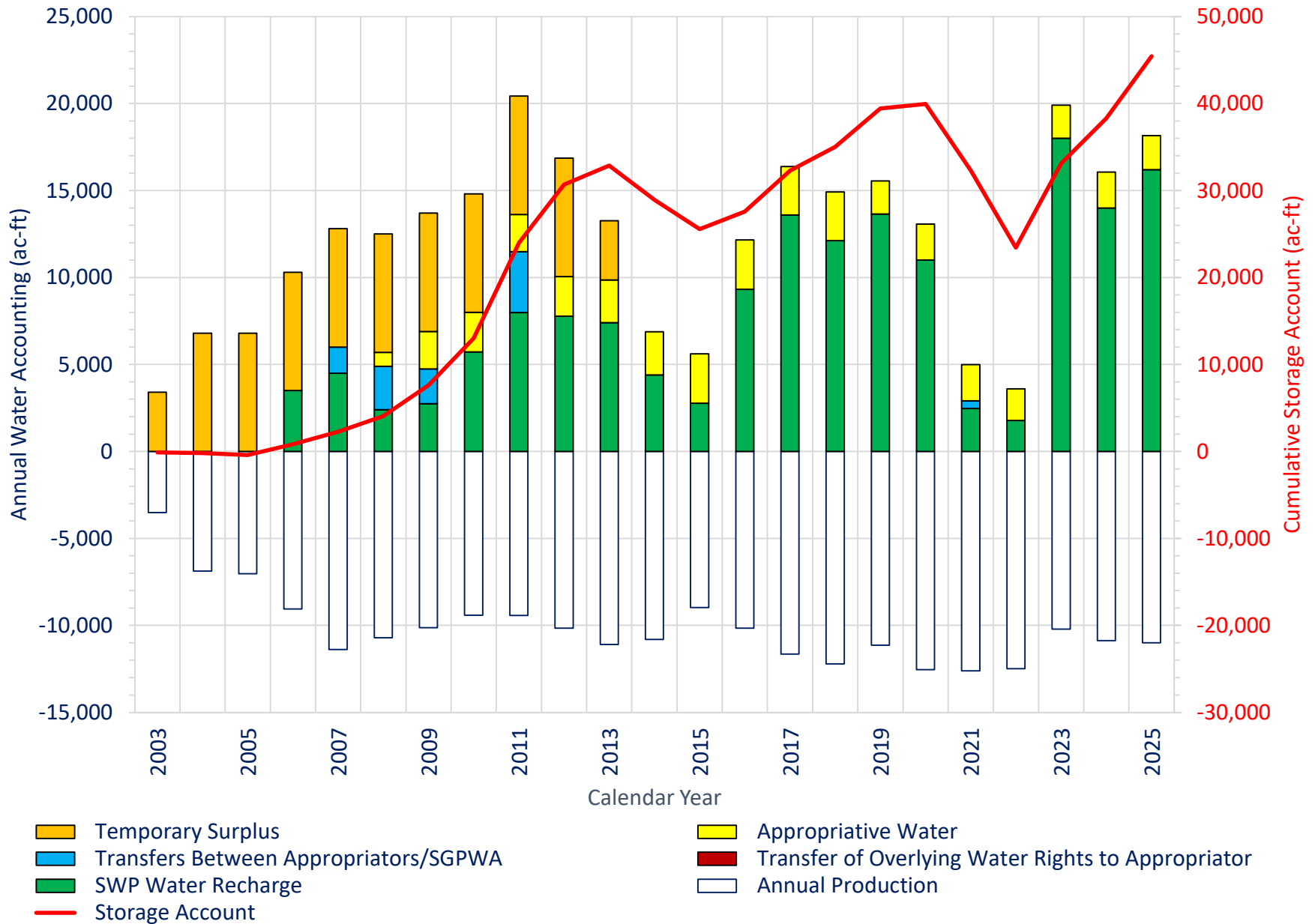


Figure 3-6
BCVWD - Supply Sources and Storage Account (2003-25)

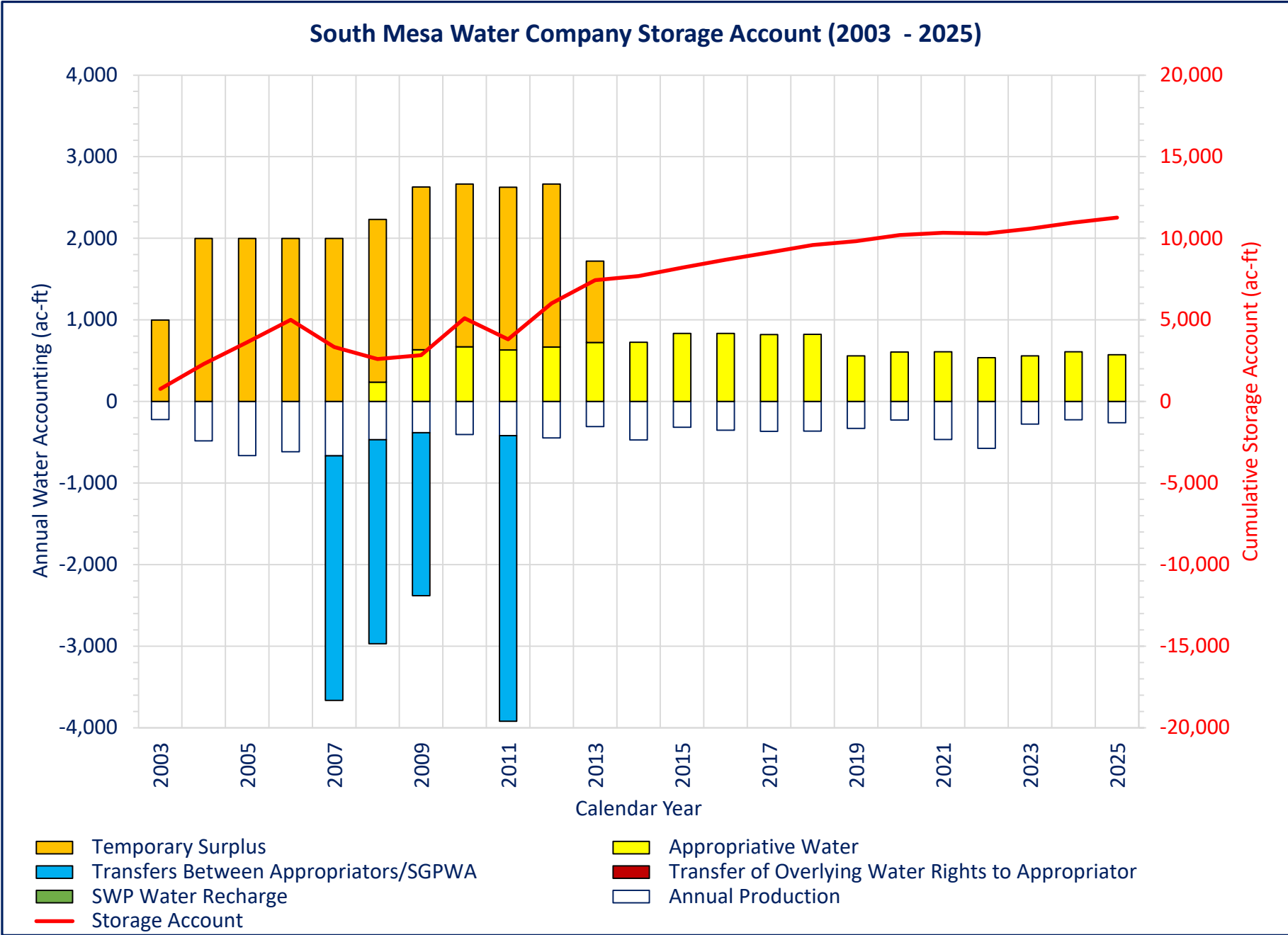
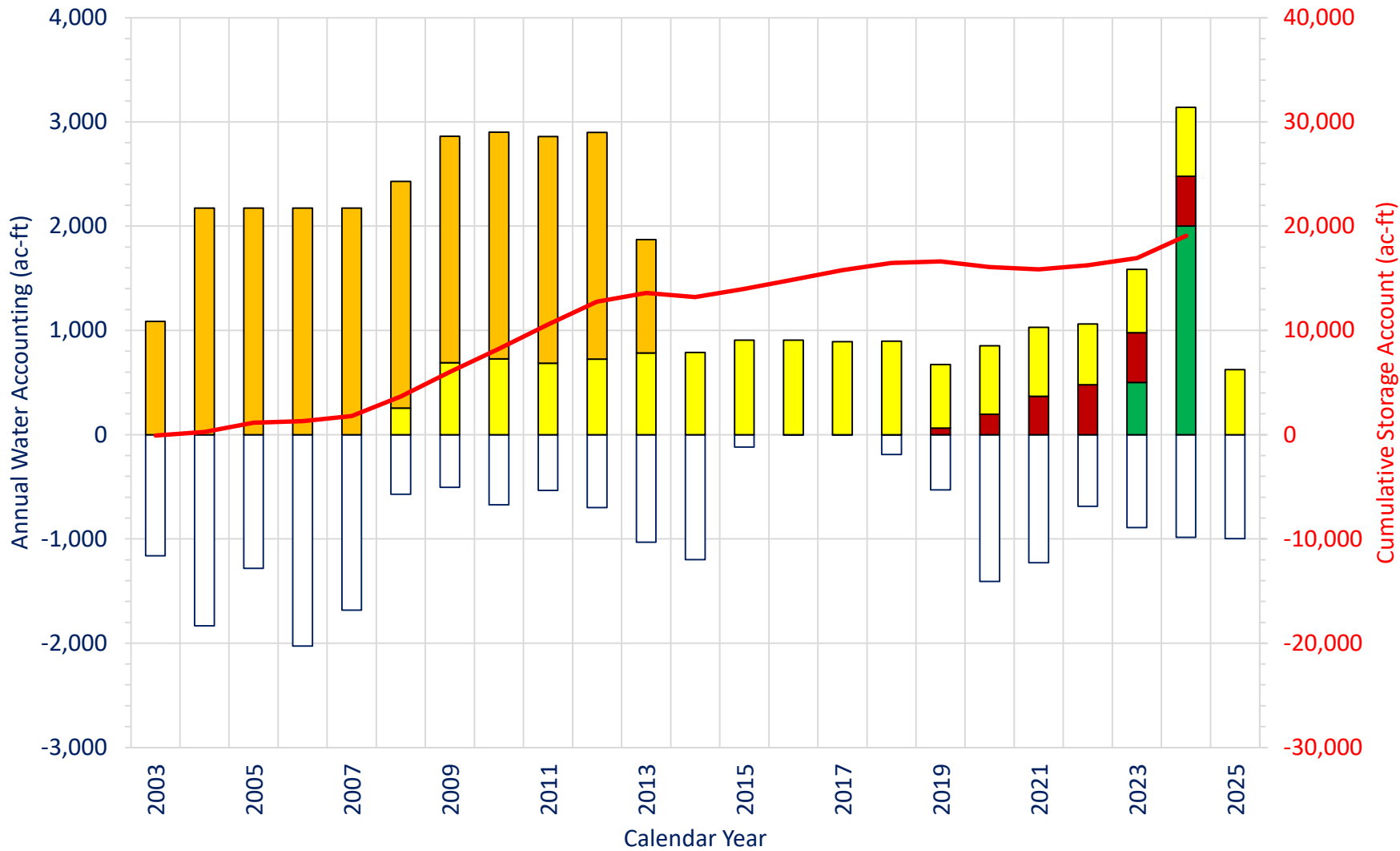


Figure 3-7
SMWC - Supply Sources and Storage Account (2003-25)

Yucaipa Valley Water District Storage Account (2003 - 2025)



- Temporary Surplus
- Transfers Between Appropriators/SGPWA
- SWP Water Recharge
- Storage Account
- Appropriative Water
- Transfer of Overlying Water Rights to Appropriator
- Annual Production

Figure 3-8
YVWD - Supply Sources and Storage Account (2003-25)

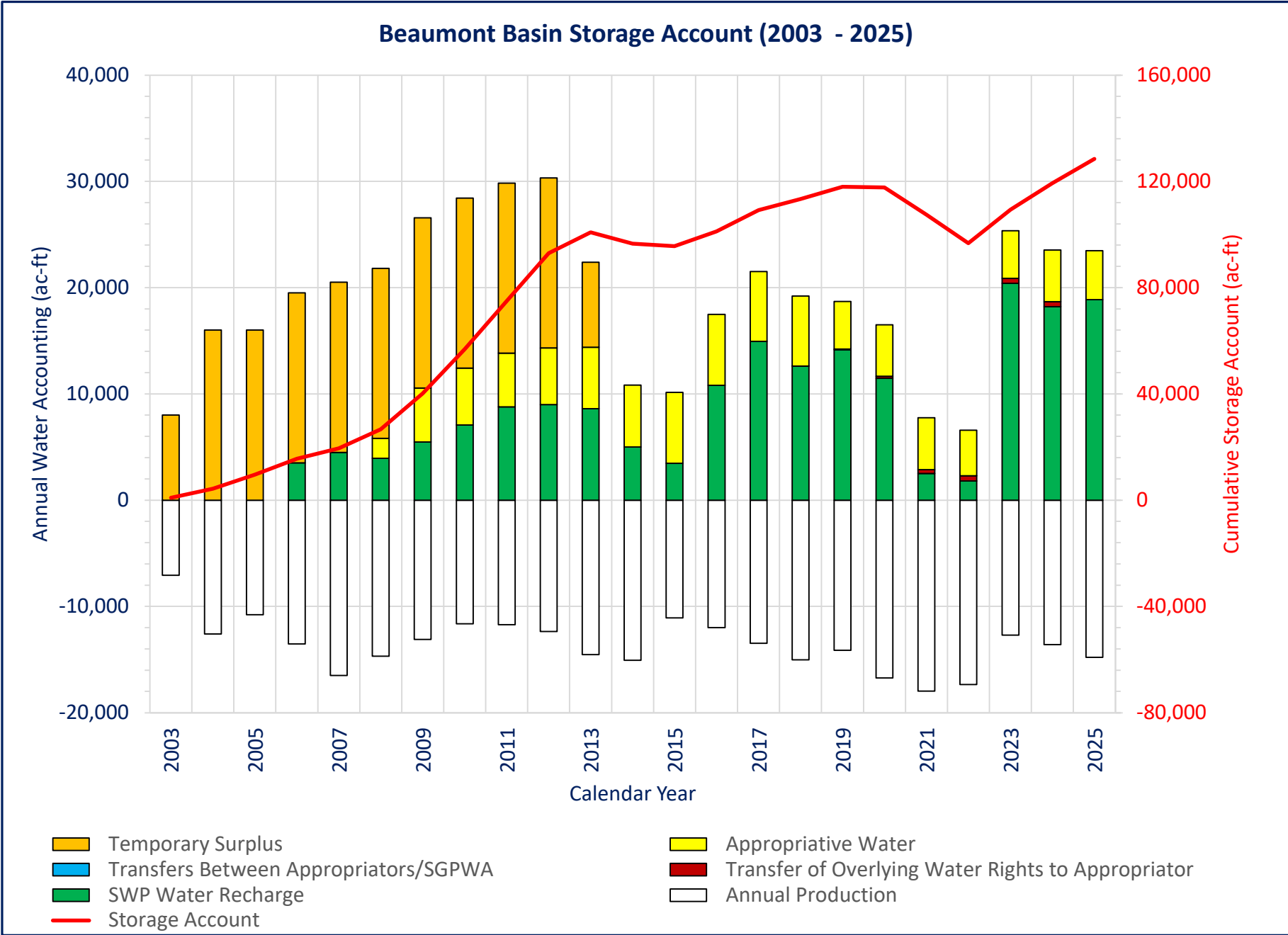


Figure 3-9
Beaumont Basin - Supply Sources and Storage Account (2003-25)

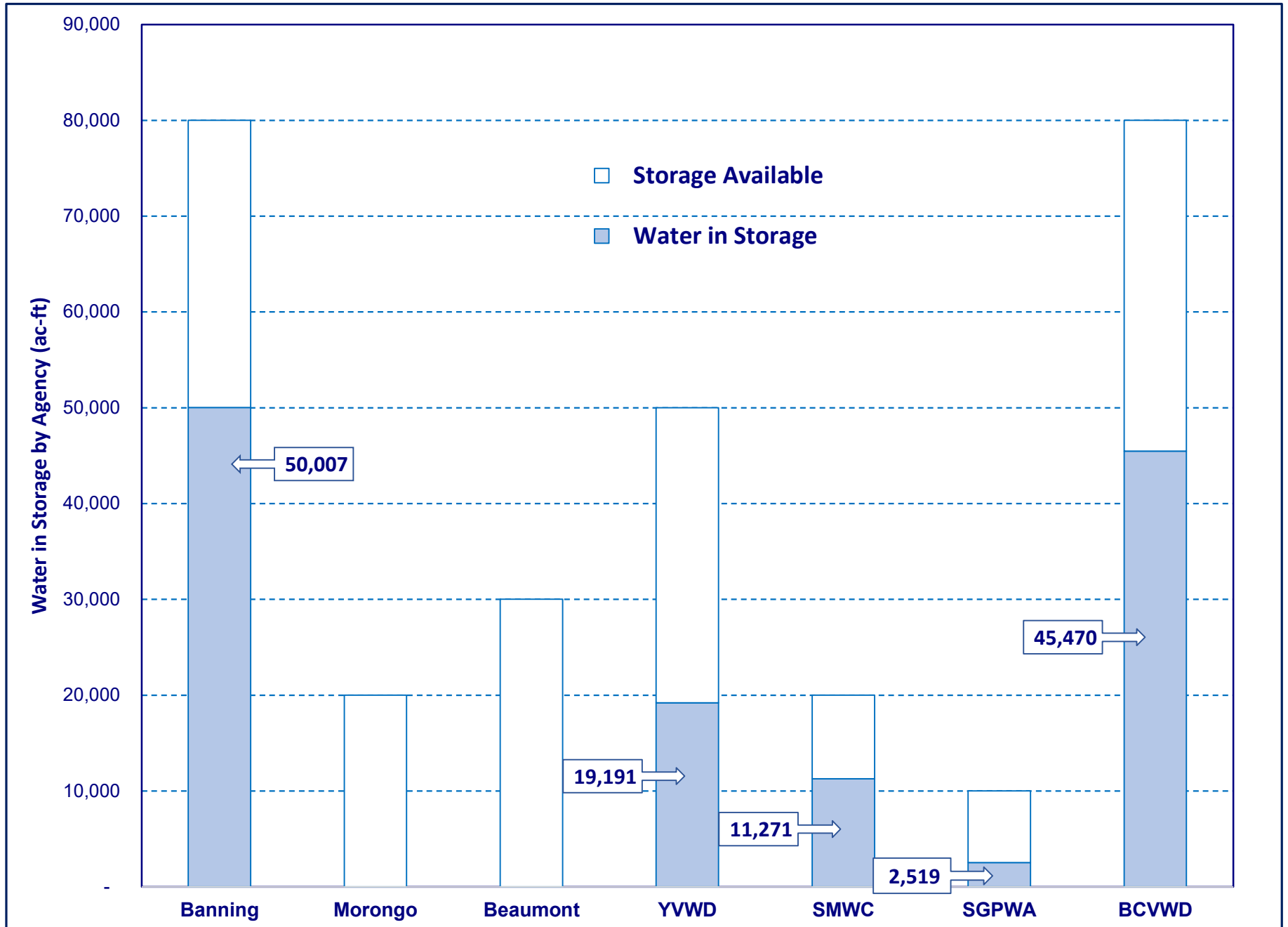


Figure 3-10
Groundwater Storage by Agency/User as of 2025

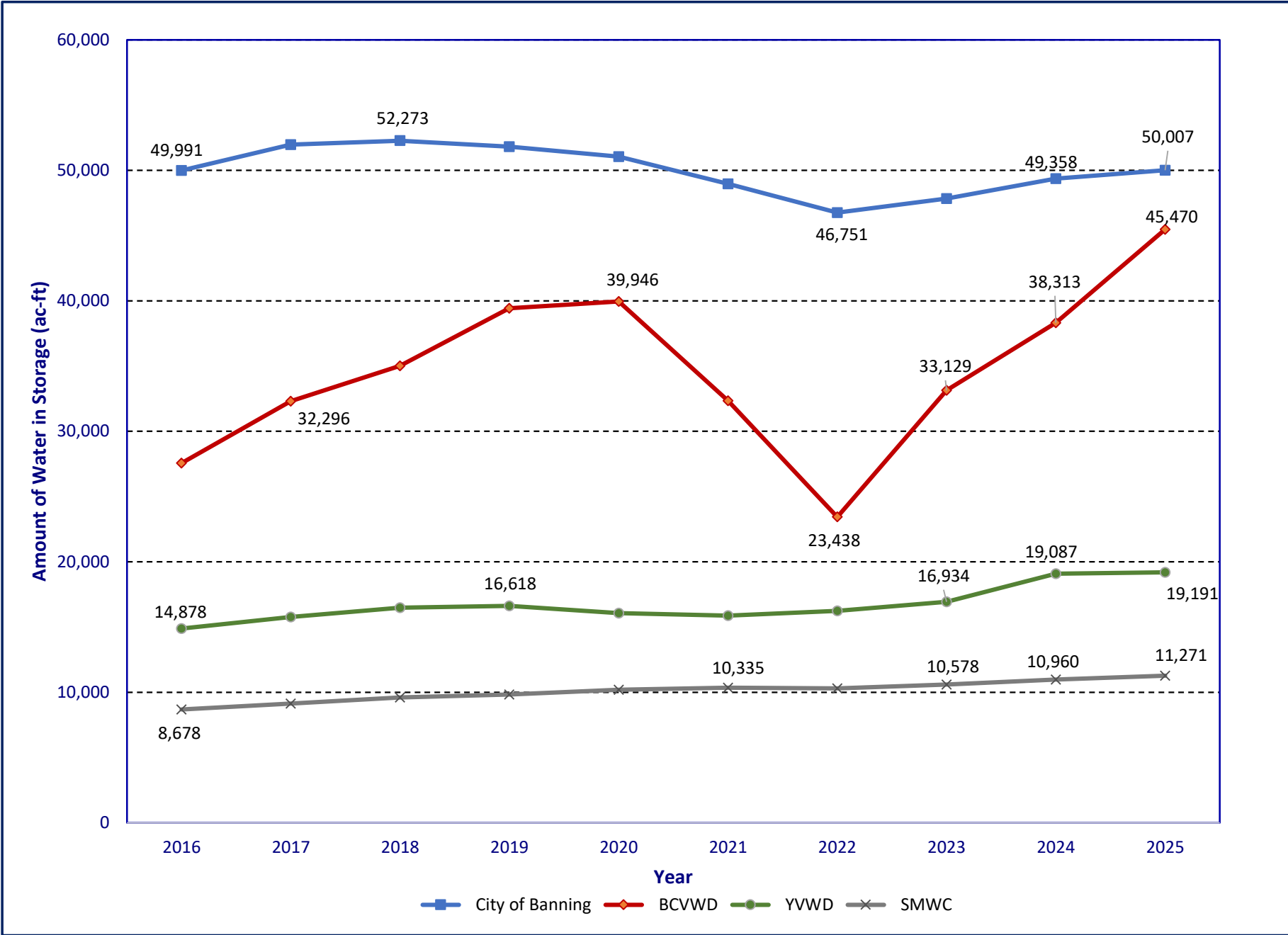
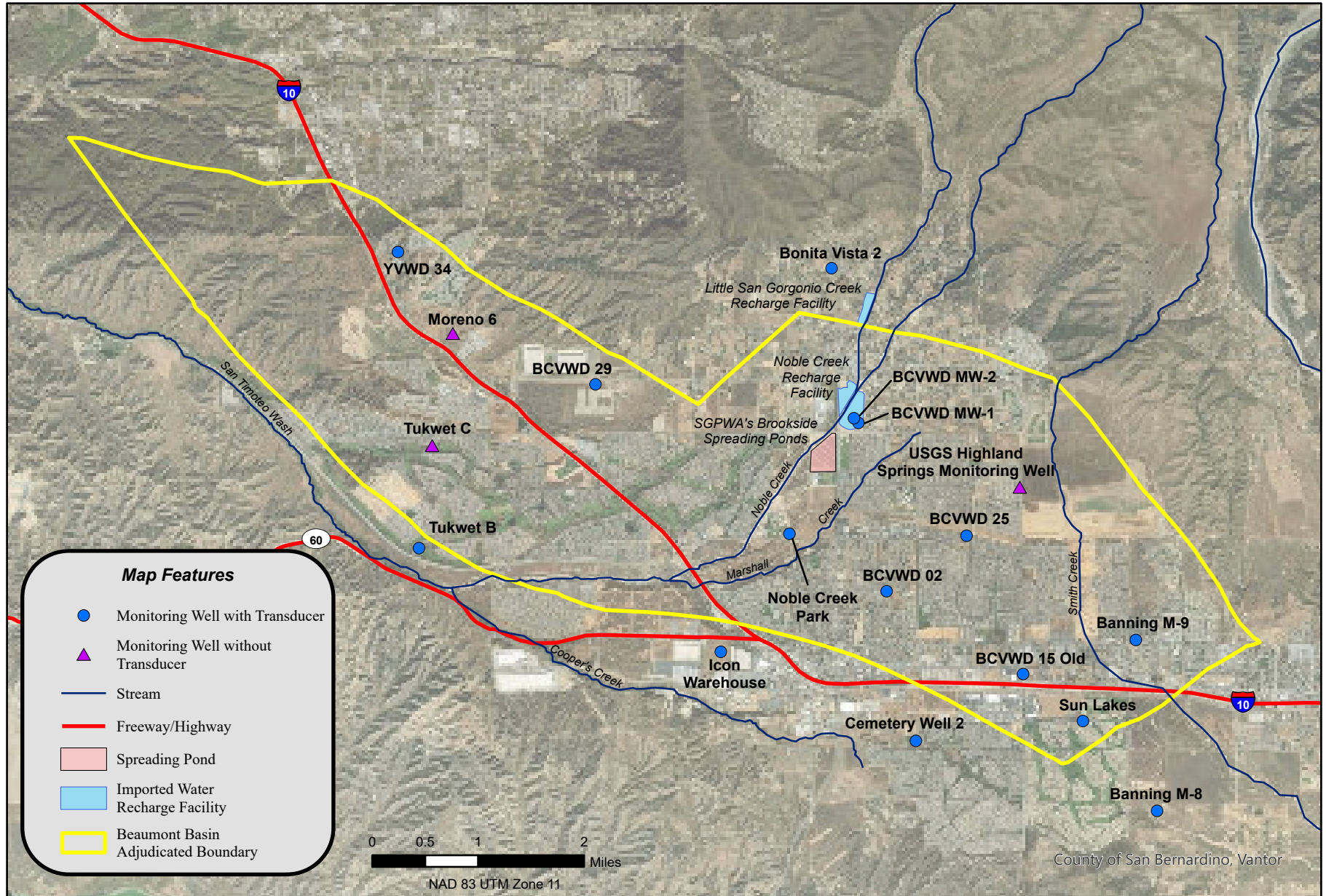
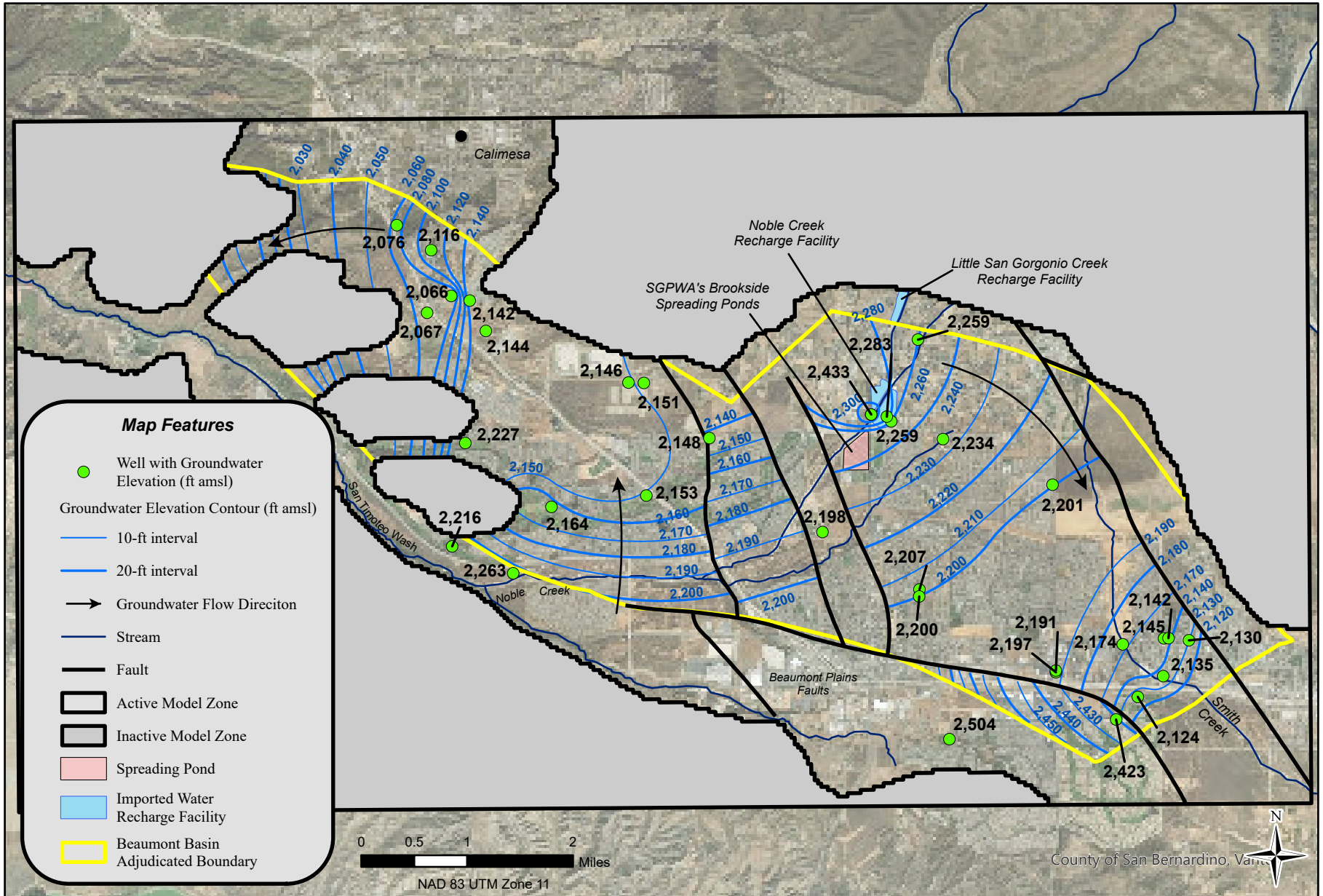


Figure 3-11
Accumulation of Storage by Appropriator for the 2016-2025 10-Yr Period

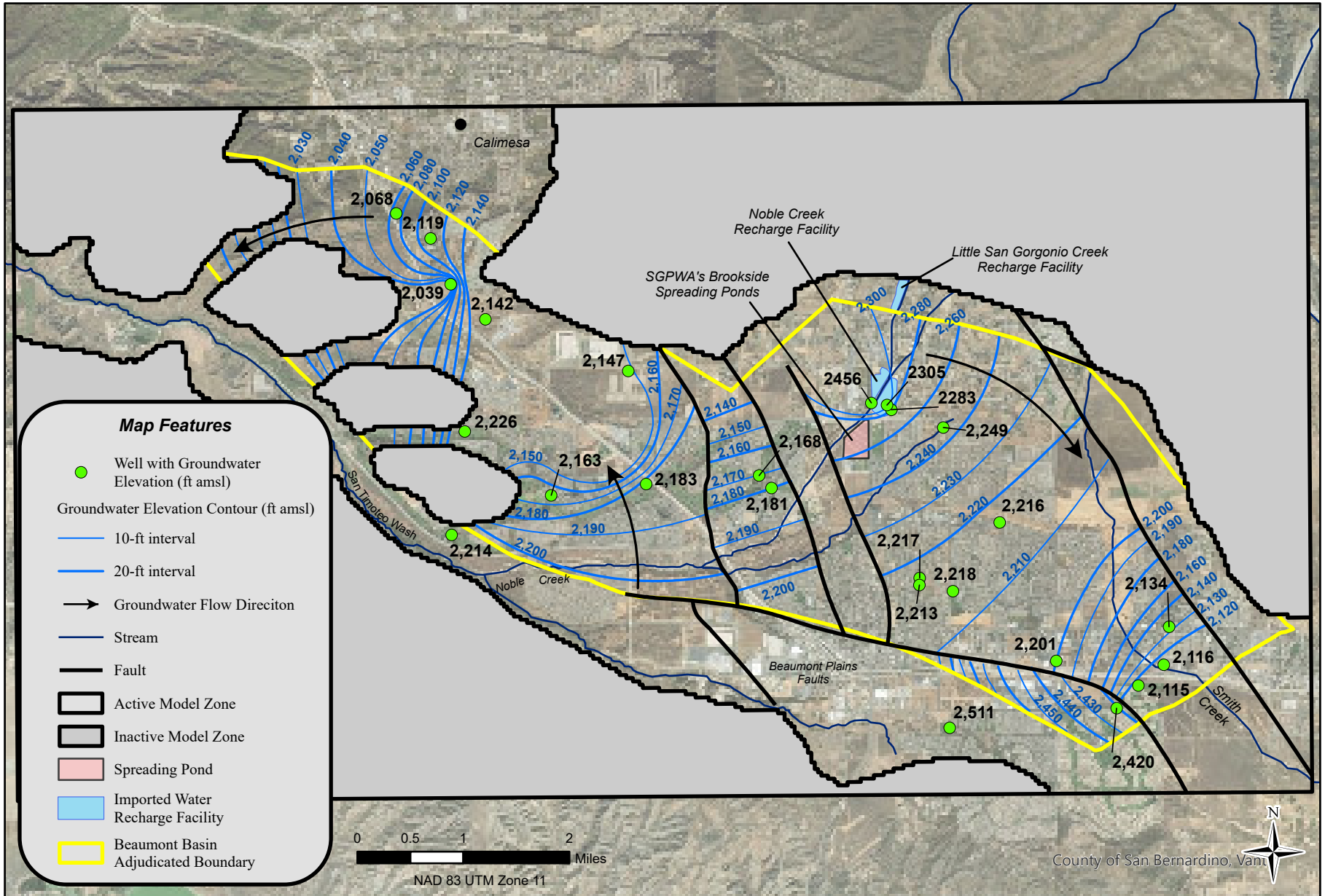
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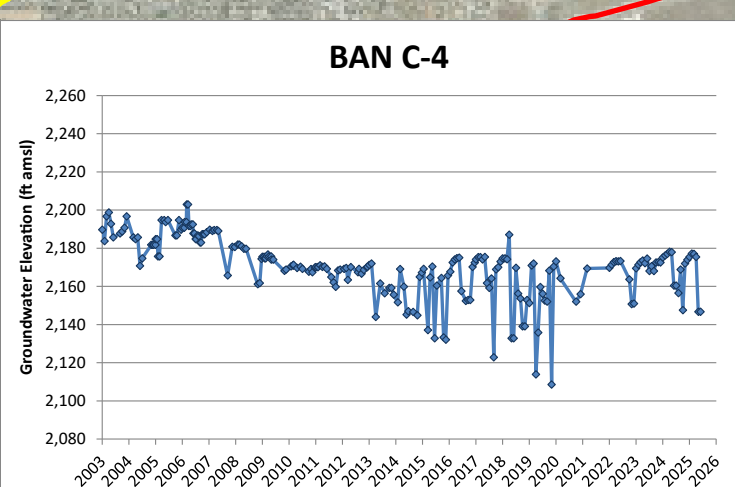
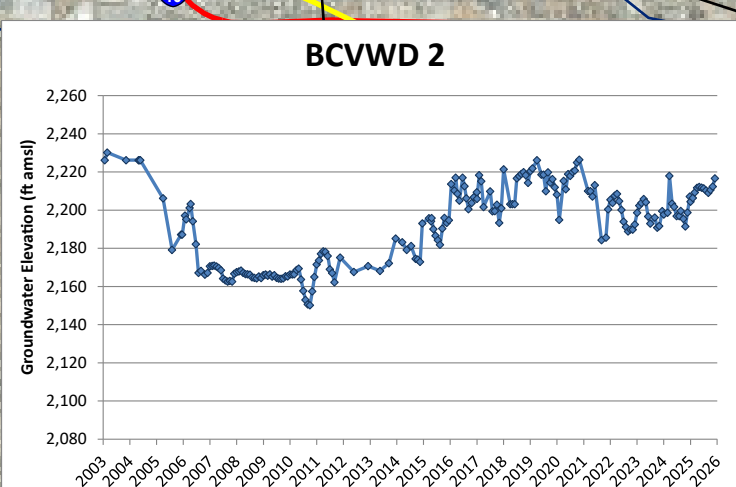
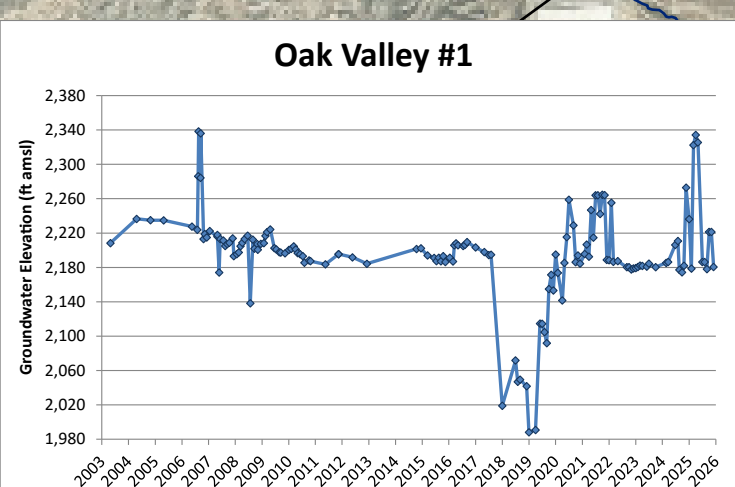
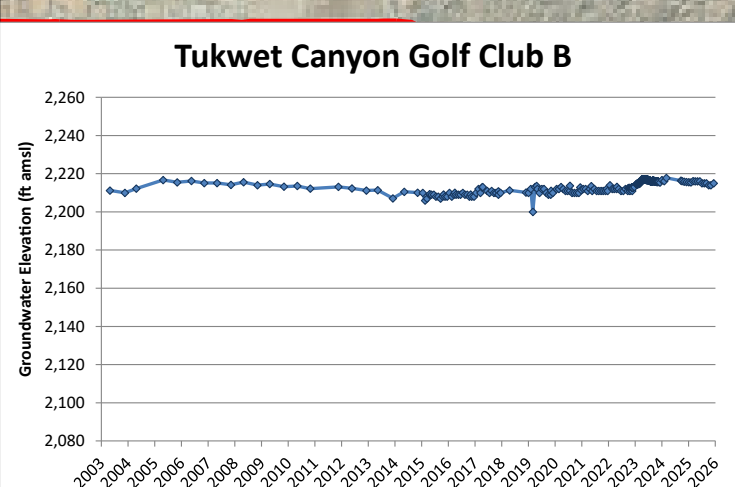
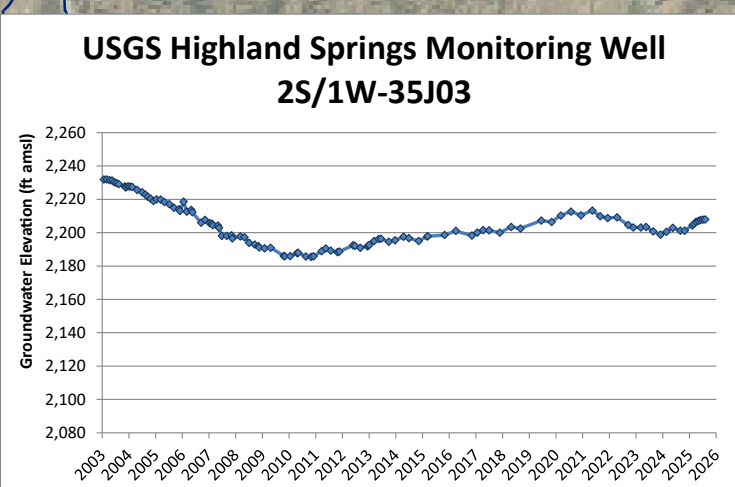
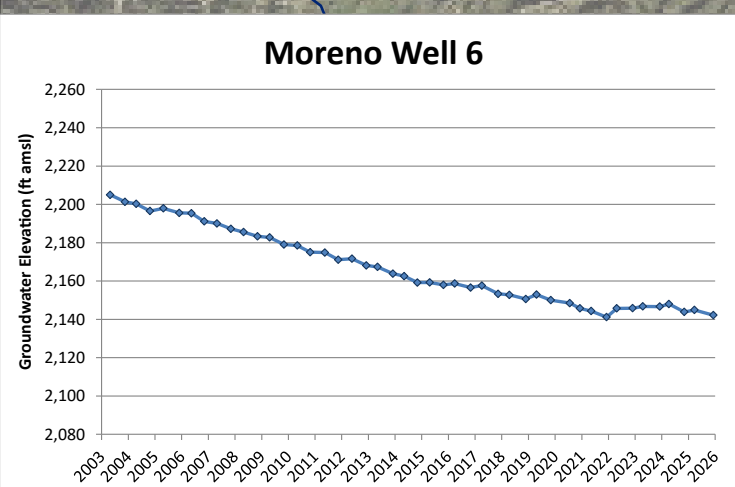
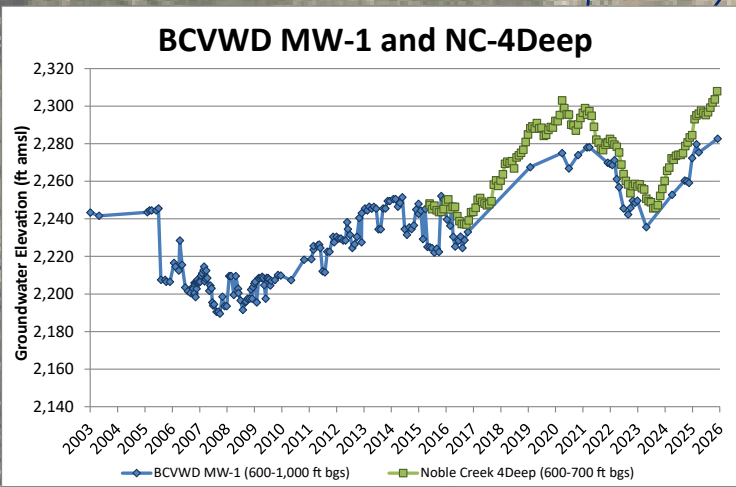
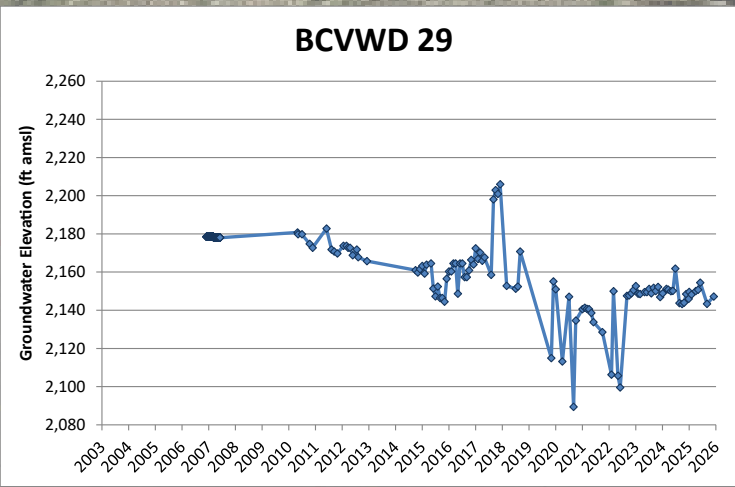
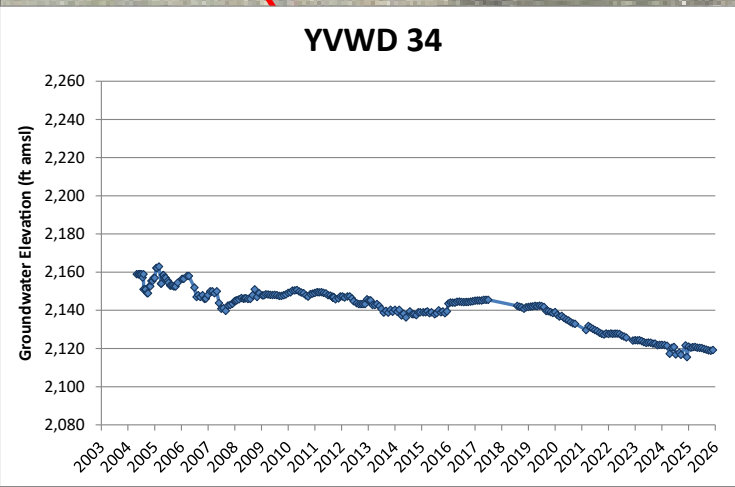
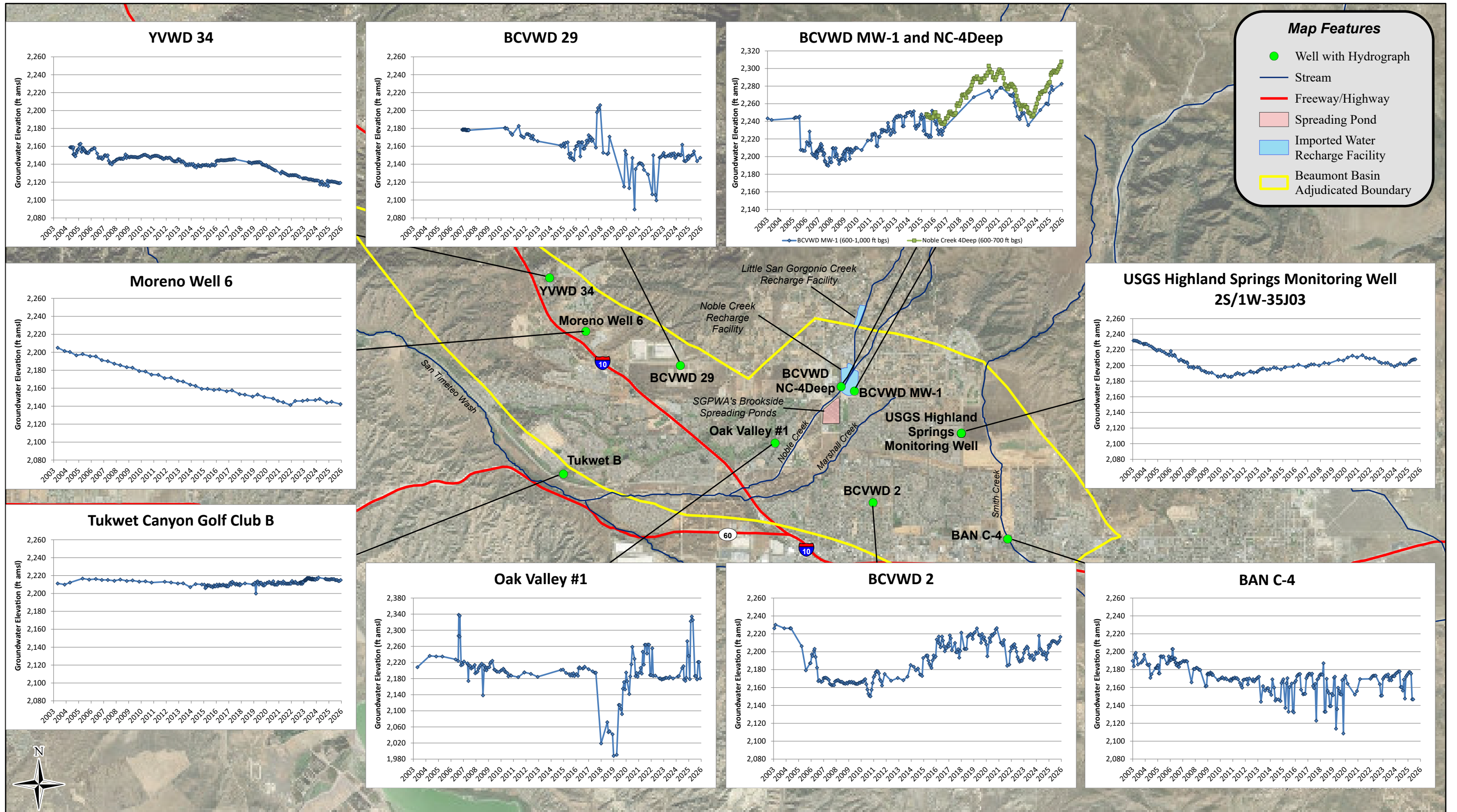


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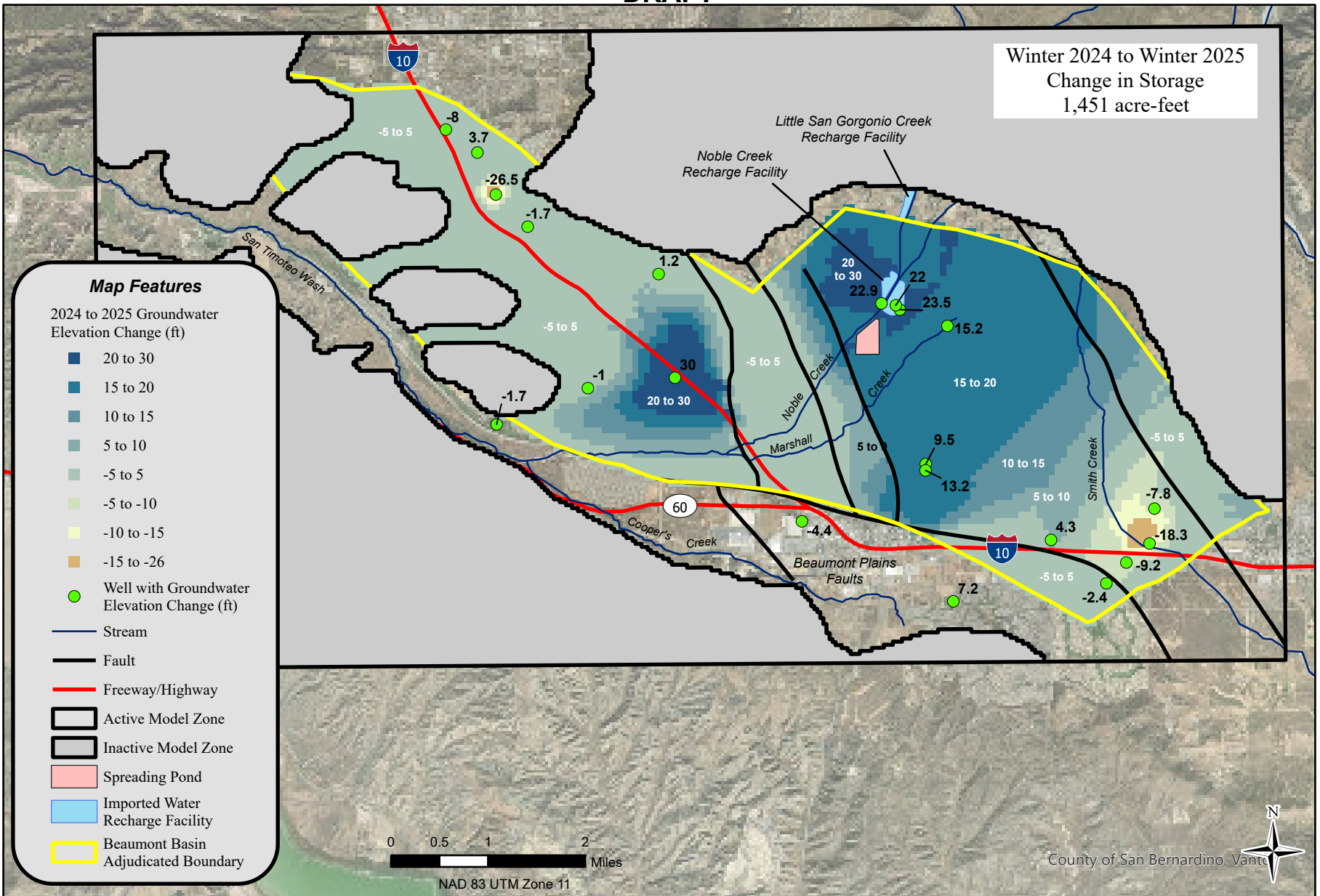


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Water Year 2024 to 2025
Change in Storage
1,218 acre-feet

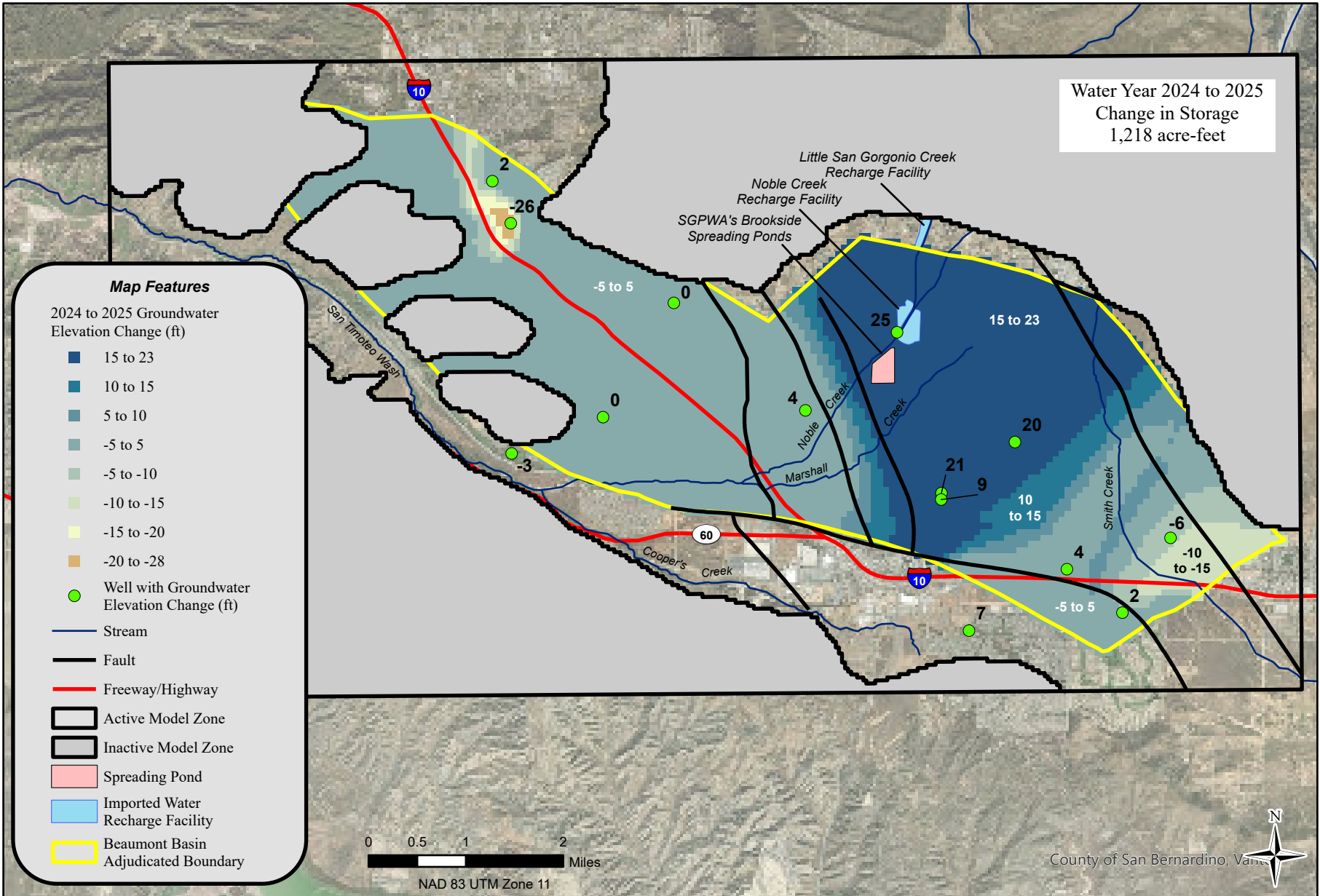


Table 3-1A
Appropriator Producer - Summary of Production for Calendar Year 2021 (ac-ft)

Owner & Well Name	Water Production by Appropriator (ac-ft) ⁽¹⁾												Total Production
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Banning, City of													
Well C2-A	18.6	14.4	14.5	3.3	1.2	44.0	93.3	82.1	88.5	62.8	36.9	48.0	507.7
Well C3	0.0	10.5	37.7	109.9	111.3	110.9	107.9	95.4	103.9	61.9	76.4	13.1	838.9
Well C4	110.9	123.0	95.0	138.3	141.5	138.7	133.2	133.5	135.6	136.7	129.7	49.4	1,465.4
Well M3	25.3	18.8	41.3	48.0	65.8	57.2	58.4	59.5	9.2	4.3	8.3	10.9	407.0
Well M9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
From BCVWD ⁽²⁾	4.2	0.0	0.0	0.3	0.0	1.8	73.5	71.4	71.7	76.1	73.4	76.6	449.0
Subtotal	159.1	166.7	188.5	299.9	319.8	352.6	466.3	441.9	408.9	341.8	324.7	198.1	3,668.1
Beaumont Cherry Valley Water District													
Well 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Well 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Well 3	0.8	15.5	4.0	38.4	154.2	162.0	156.6	167.1	100.6	60.3	91.3	39.9	990.7
Well 16	4.5	5.6	1.0	7.6	59.4	70.2	86.4	100.5	83.4	73.7	58.4	21.9	572.5
Well 21	126.6	98.2	99.4	147.1	175.4	200.4	209.1	193.0	169.1	137.6	177.4	151.9	1,885.2
Well 22	26.1	5.7	2.7	23.9	92.0	153.6	146.7	170.8	135.6	88.9	145.1	110.7	1,101.8
Well 23	108.4	121.0	117.9	139.8	222.4	284.0	347.8	360.2	290.7	201.9	106.9	3.1	2,304.1
Well 24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	106.9	119.7	213.1	215.5	655.2
Well 25	77.7	64.8	69.4	124.4	155.7	111.7	165.9	154.4	149.1	132.0	113.0	39.0	1,357.3
Well 26	220.4	173.0	216.3	186.4	48.0	294.2	370.8	321.0	257.7	242.5	51.8	141.6	2,523.7
Well 29	152.4	148.5	154.6	235.5	265.6	78.8	143.7	160.1	148.5	74.7	79.6	26.2	1,668.0
Egg Ranch Well	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
To Banning ⁽²⁾	-4.2	0.0	0.0	-0.3	0.0	-1.8	-73.5	-71.4	-71.7	-76.1	-73.4	-76.6	-449.0
Subtotal	712.7	632.4	665.3	902.9	1,172.7	1,353.1	1,553.4	1,555.7	1,369.9	1,055.1	963.2	673.3	12,609.5
South Mesa Water Company													
Well 4	24.6	20.7	23.3	26.6	37.6	36.3	46.7	56.6	54.3	52.9	49.8	36.8	466.0
Subtotal	24.6	20.7	23.3	26.6	37.6	36.3	46.7	56.6	54.3	52.9	49.8	36.8	466.0
Yucaipa Valley Water District													
Well 35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Well 48	54.5	81.7	59.6	109.1	142.3	135.2	137.7	145.5	138.9	92.0	1.5	0.0	1,097.9
I-10 Logistics	0.0	0.0	0.0	0.0	0.0	50.5	17.5	27.8	21.7	8.7	3.0	1.4	130.6
Subtotal	54.5	81.7	59.6	109.1	142.3	185.7	155.2	173.2	160.6	100.7	4.5	1.4	1,228.5
Total	950.8	901.4	936.7	1,338.3	1,672.4	1,927.7	2,221.6	2,227.4	1,993.6	1,550.5	1,342.1	909.6	17,972.1

(1) - All values rounded and subject to revision based on receipt of more accurate information

(2) - Pursuant to Part I, Paragraph 3B of the Judgment, and a separate Agreement (a copy of which is on file with the Watermaster). A portion of the production from certain wells, operated by BCVWD and co-owned by the City of Banning and BCVWD, is delivered to the City of Banning at two connections, Sun Lakes and Highland Springs where flow meters are read.

Table 3-1B
Appropriator Producer - Summary of Production for Calendar Year 2022 (ac-ft)

Owner & Well Name	Water Production by Appropriator (ac-ft) ⁽¹⁾												Total Production
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Banning, City of													
Well C2-A	74.2	84.7	93.3	92.9	96.7	89.2	86.1	95.0	85.1	33.2	14.5	4.2	849.1
Well C3	46.1	48.0	43.1	72.1	97.4	81.5	86.1	91.1	59.1	77.3	2.9	0.0	704.7
Well C4	0.0	0.0	0.0	0.0	0.0	0.5	102.5	121.7	110.1	120.6	71.9	109.4	636.7
Well M3	34.9	46.8	52.5	67.2	70.2	64.4	24.0	1.9	2.3	5.9	11.7	3.3	385.1
Well M9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
From BCVWD ⁽²⁾	79.0	71.6	77.8	81.2	89.4	90.8	93.1	94.8	87.8	87.7	83.0	82.1	1,018.2
Subtotal	234.1	251.0	266.7	313.5	353.6	326.3	391.9	404.5	344.5	324.7	183.9	199.0	3,593.7
Beaumont Cherry Valley Water District													
Well 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
Well 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
Well 3	80.4	17.6	14.3	62.5	124.9	124.2	100.8	169.8	92.2	115.7	44.0	22.4	968.73
Well 16	7.9	28.8	74.6	71.0	64.3	53.4	81.9	88.0	70.7	47.2	38.9	13.3	640.08
Well 21	161.9	131.8	133.2	151.2	165.1	157.8	159.7	157.0	146.8	140.9	153.4	148.0	1,806.80
Well 22	103.6	72.6	86.1	118.5	128.1	122.1	141.2	139.0	101.4	115.6	108.7	114.9	1,351.83
Well 23	0.0	0.0	0.0	0.0	33.9	263.8	297.8	311.4	290.3	94.0	4.9	60.7	1,356.82
Well 24	190.5	184.5	203.7	237.3	247.8	264.8	302.8	311.2	240.9	245.1	206.8	221.1	2,856.53
Well 25	171.2	278.8	321.1	264.4	369.1	284.3	315.6	322.1	297.3	274.9	243.8	122.4	3,264.96
Well 26	49.1	66.4	75.1	89.6	131.3	136.2	161.9	148.4	133.1	130.6	81.3	59.2	1,262.34
Well 29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.46
To Banning ⁽²⁾	-79.0	-71.6	-77.8	-81.2	-89.4	-90.8	-93.1	-94.8	-87.8	-87.7	-83.0	-82.1	-1,018.2
Subtotal	685.7	708.8	830.2	913.4	1,175.2	1,315.8	1,468.8	1,552.0	1,284.8	1,076.4	799.4	680.0	12,490.4
South Mesa Water Company													
Well 4	35.3	35.6	41.9	45.1	55.0	60.6	68.7	63.0	55.7	52.0	34.1	27.8	574.7
Subtotal	35.3	35.6	41.9	45.1	55.0	60.6	68.7	63.0	55.7	52.0	34.1	27.8	574.7
Yucaipa Valley Water District													
Well 35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Well 48	0.0	0.0	0.0	0.0	0.0	71.3	86.0	91.2	78.2	104.0	152.4	99.9	682.9
I-10 Logistics	1.0	1.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.6
Subtotal	1.0	1.6	1.0	0.0	0.0	71.3	86.0	91.2	78.2	104.0	152.4	99.9	686.5
Total	956.0	997.0	1,139.8	1,272.0	1,583.8	1,774.1	2,015.3	2,110.7	1,763.2	1,557.1	1,169.7	1,006.6	17,345.3

(1) - All values rounded and subject to revision based on receipt of more accurate information

(2) - Pursuant to Part I, Paragraph 3B of the Judgment, and a separate Agreement (a copy of which is on file with the Watermaster). A portion of the production from certain wells, operated by BCVWD and co-owned by the City of Banning and BCVWD, is delivered to the City of Banning at two connections, Sun Lakes and Highland Springs where flow meters are read.

Table 3-1C
Appropriator Producer - Summary of Production for Calendar Year 2023 (ac-ft)

Owner & Well Name	Water Production by Appropriator (ac-ft) ⁽¹⁾												Total Production
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Banning, City of													
Well C2-A	28.3	44.4	3.2	52.8	4.6	2.4	25.1	15.5	2.6	7.7	0.5	0.6	187.7
Well C3	0.1	0.0	0.5	0.0	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.2	1.0
Well C4	11.0	0.0	0.0	6.6	26.3	5.0	103.1	47.1	37.8	7.4	24.2	2.0	270.6
Well M3	46.4	51.8	6.0	17.1	1.0	0.8	10.8	7.9	1.8	0.8	3.6	0.2	148.3
Well M9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
From BCVWD ⁽²⁾	81.7	74.0	81.3	78.2	82.2	76.8	77.5	77.0	60.0	11.5	9.9	9.4	719.4
Subtotal	167.5	170.2	91.0	154.7	114.3	85.1	216.4	147.6	102.2	27.4	38.2	12.3	1,326.9
Beaumont Cherry Valley Water District													
Well 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
Well 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
Well 3	2.0	6.4	1.1	2.6	73.6	120.4	111.2	102.8	64.8	0.0	0.0	0.7	485.63
Well 16	0.9	0.8	24.1	14.7	37.6	29.4	77.7	47.8	60.9	31.2	1.7	23.0	349.61
Well 21	137.3	69.5	62.1	97.9	142.5	155.8	156.2	148.0	122.9	81.0	0.0	0.0	1,173.24
Well 22	24.9	37.8	0.7	96.5	115.2	145.0	134.1	125.3	105.0	79.8	83.8	70.6	1,018.68
Well 23	18.8	195.8	141.3	161.9	234.2	239.6	259.0	231.2	225.4	239.5	165.4	207.2	2,319.43
Well 24	225.1	82.1	100.6	219.5	218.7	226.4	307.4	249.3	180.2	211.0	193.5	184.1	2,397.98
Well 25	143.3	156.8	167.7	68.3	77.1	12.8	305.6	345.0	308.9	212.6	261.3	128.1	2,187.47
Well 26	11.6	12.5	1.7	54.8	121.8	139.4	145.2	134.9	93.0	137.5	89.6	58.7	1,000.65
Well 29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
To Banning ⁽²⁾	-81.7	-74.0	-81.3	-78.2	-82.2	-76.8	-77.5	-77.0	-60.0	-11.5	-9.9	-9.4	-719.4
Subtotal	482.2	487.6	418.0	638.1	938.4	992.0	1,419.0	1,307.1	1,101.2	981.2	785.3	663.0	10,213.3
South Mesa Water Company													
Well 4	5.9	16.2	21.0	24.5	22.7	26.6	36.3	32.1	33.9	22.5	17.4	18.3	277.3
Subtotal	5.9	16.2	21.0	24.5	22.7	26.6	36.3	32.1	33.9	22.5	17.4	18.3	277.3
Yucaipa Valley Water District													
Well 35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Well 48	65.9	50.3	69.6	120.7	120.0	31.7	0.0	67.3	74.9	135.7	80.5	75.1	891.7
I-10 Logistics	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subtotal	65.9	50.3	69.6	120.7	120.0	31.7	0.0	67.3	74.9	135.7	80.5	75.1	891.7
Total	721.5	724.3	599.5	937.9	1,195.5	1,135.4	1,671.7	1,554.1	1,312.2	1,166.7	921.5	768.7	12,709.1

(1) - All values rounded and subject to revision based on receipt of more accurate information

(2) - Pursuant to Part I, Paragraph 3B of the Judgment, and a separate Agreement (a copy of which is on file with the Watermaster). A portion of the production from certain wells, operated by BCVWD and co-owned by the City of Banning and BCVWD, is delivered to the City of Banning at two connections, Sun Lakes and Highland Springs where flow meters are read.

Table 3-1D
Appropriator Producer - Summary of Production for Calendar Year 2024 (ac-ft)

Owner & Well Name	Water Production by Appropriator (ac-ft) ⁽¹⁾												Total Production
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Banning, City of													
Well C2-A	0.4	0.2	1.0	0.7	0.9	64.6	91.6	82.8	83.4	31.2	0.9	24.8	382.5
Well C3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	54.9	83.9	73.8	49.7	33.3	295.6
Well C4	1.9	0.5	1.8	1.5	11.8	110.6	151.0	150.4	61.0	58.3	3.5	3.0	555.2
Well M3	0.3	0.2	0.7	0.4	0.4	17.0	15.4	13.0	15.3	49.2	64.1	55.0	231.1
Well M9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
From BCVWD ⁽²⁾	2.3	0.2	1.3	4.4	7.0	0.2	0.9	0.9	0.0	3.8	12.3	5.4	38.6
Subtotal	5.0	1.1	4.7	7.1	20.1	192.4	258.8	302.0	243.5	216.3	130.4	121.6	1,503.0
Beaumont Cherry Valley Water District													
Well 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
Well 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
Well 3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
Well 16	16.1	13.4	33.6	11.8	21.8	0.0	48.3	72.3	39.3	16.5	11.1	40.5	324.71
Well 21	0.0	0.0	0.0	0.0	0.0	104.4	171.8	161.5	142.7	133.6	149.0	91.2	954.16
Well 22	52.1	78.9	92.1	50.3	118.3	110.2	122.4	115.4	71.8	56.7	27.1	86.4	981.64
Well 23	102.6	135.2	139.7	143.9	251.0	241.6	260.5	251.9	213.7	239.7	261.9	264.5	2,506.19
Well 24	178.1	94.7	106.7	185.0	223.8	247.8	219.0	249.5	212.6	211.6	227.0	227.9	2,383.63
Well 25	98.7	16.5	10.0	74.8	191.2	265.5	313.4	315.3	309.9	259.4	110.0	43.3	2,007.95
Well 26	18.3	8.8	9.9	34.9	114.0	137.4	147.9	146.3	139.1	130.1	82.2	56.4	1,025.34
Well 29	0.0	0.0	0.0	0.0	0.0	99.2	219.4	179.1	142.6	97.1	0.0	0.8	738.23
To Banning ⁽²⁾	-2.3	-0.2	-1.3	-4.4	-7.0	-0.2	-0.9	-0.9	0.0	-3.8	-12.3	-5.4	-38.6
Subtotal	463.5	347.4	390.7	496.2	913.2	1,205.9	1,501.8	1,490.4	1,271.7	1,140.8	856.1	805.5	10,883.3
South Mesa Water Company													
Well 4	9.2	8.3	7.7	7.8	10.2	17.5	25.9	30.8	27.4	31.6	25.5	22.9	224.6
Subtotal	9.2	8.3	7.7	7.8	10.2	17.5	25.9	30.8	27.4	31.6	25.5	22.9	224.6
Yucaipa Valley Water District													
Well 35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Well 48	19.3	21.2	36.3	58.9	107.8	151.5	107.7	105.5	88.9	74.3	119.7	94.4	985.4
I-10 Logistics	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Subtotal	19.3	21.2	36.3	58.9	107.8	151.5	107.7	105.5	88.9	74.3	119.7	94.4	985.4
Total	496.9	378.0	439.4	570.0	1,051.3	1,567.3	1,894.2	1,928.7	1,631.5	1,463.0	1,131.7	1,044.3	13,596.3

(1) - All values rounded and subject to revision based on receipt of more accurate information

(2) - Pursuant to Part I, Paragraph 3B of the Judgment, and a separate Agreement (a copy of which is on file with the Watermaster). A portion of the production from certain wells, operated by BCVWD and co-owned by the City of Banning and BCVWD, is delivered to the City of Banning at two connections, Sun Lakes and Highland Springs where flow meters are read.

Table 3-1E
Appropriator Producer - Summary of Production for Calendar Year 2025 (ac-ft)

Owner & Well Name	Water Production by Appropriator (ac-ft) ⁽¹⁾												Total Production
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Banning, City of													
Well C2-A	82.4	52.6	65.8	53.3	14.9	36.6	81.3	84.8	89.1	91.6	85.1	74.2	811.7
Well C3	22.1	14.4	17.4	53.2	84.4	98.4	107.9	101.5	81.8	83.1	36.0	2.4	702.6
Well C4	2.7	0.7	1.1	63.1	145.9	139.7	10.0	0.0	0.0	0.0	0.0	0.0	363.2
Well M3	0.7	0.3	0.4	25.1	57.7	57.1	69.4	69.8	67.8	62.9	23.6	58.8	493.7
Well M9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
From BCVWD ⁽²⁾	7.5	7.5	4.4	12.9	15.3	12.9	9.2	7.2	37.4	33.7	14.2	10.8	173.0
Subtotal	115.6	75.5	89.1	207.5	318.1	344.8	277.8	263.3	276.1	271.2	158.9	146.2	2,544.2
Beaumont Cherry Valley Water District													
Well 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
Well 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
Well 3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00
Well 16	39.0	8.7	0.7	19.6	11.6	72.8	74.4	76.6	64.2	68.4	51.1	33.3	520.48
Well 21	89.1	70.1	72.2	78.3	119.5	157.1	173.1	165.8	162.1	172.4	89.7	110.8	1,460.04
Well 22	89.5	59.7	35.8	97.0	93.2	126.1	139.1	137.8	133.6	140.9	84.0	86.5	1,223.29
Well 23	221.4	92.8	79.4	199.1	192.1	263.2	269.6	267.8	255.7	251.8	239.1	244.6	2,576.69
Well 24	181.0	198.3	166.5	109.7	218.1	216.4	198.1	230.1	214.1	160.7	191.0	181.8	2,265.78
Well 25	145.6	92.8	174.6	241.9	267.1	293.1	301.2	267.8	30.4	21.0	11.6	9.8	1,856.93
Well 26	0.0	0.0	0.0	0.0	0.0	0.0	58.3	118.8	131.5	66.8	36.2	32.1	443.67
Well 29	2.1	2.3	0.0	13.6	6.2	57.6	156.2	158.6	194.4	109.1	76.5	45.6	822.08
To Banning ⁽²⁾	-7.5	-7.5	-4.4	-12.9	-15.3	-12.9	-9.2	-7.2	-37.4	-33.7	-14.2	-10.8	-173.0
Subtotal	760.2	517.3	524.8	746.3	892.6	1,173.3	1,360.7	1,416.1	1,148.6	957.3	765.1	733.6	10,996.0
South Mesa Water Company													
Well 4	26.4	18.8	14.0	17.7	21.4	11.4	0.9	34.0	42.0	33.9	21.9	20.3	262.6
Subtotal	26.4	18.8	14.0	17.7	21.4	11.4	0.9	34.0	42.0	33.9	21.9	20.3	262.6
Yucaipa Valley Water District													
Well 35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Well 48	127.1	67.6	35.8	72.3	66.9	89.6	130.6	138.5	111.0	94.0	64.3	0.0	997.8
Subtotal	127.1	67.6	35.8	72.3	66.9	89.6	130.6	138.5	111.0	94.0	64.3	0.0	997.8
Total	1,029.3	679.1	663.7	1,043.9	1,299.1	1,619.1	1,770.1	1,851.9	1,577.8	1,356.4	1,010.2	900.2	14,800.7

(1) - All values rounded and subject to revision based on receipt of more accurate information

(2) - Pursuant to Part I, Paragraph 3B of the Judgment, and a separate Agreement (a copy of which is on file with the Watermaster). A portion of the production from certain wells, operated by BCVWD and co-owned by the City of Banning and BCVWD, is delivered to the City of Banning at two connections, Sun Lakes and Highland Springs where flow meters are read.

**Table 3-2A
Overlying Producer - Summary of Production for Calendar Year 2021 (ac-ft)**

Owner and Well Name	Metered	Monthly Water Production by Overlying Producer ¹												Total ² Production	Overlying Water Right	Unused Overlying Allocation		
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec					
Beckman, Walter M. ⁽³⁾	Yes	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	58.1	57.2		
California Oak Valley Golf and Resort LLC ⁽⁴⁾																		
Oak Valley #1	Yes	0.0	0.0	0.0	0.6	7.0	22.0	0.0	0.0	0.0	1.3	1.5	0.0	32.5				
Oak Valley #2	Yes	20.7	18.7	16.0	37.3	0.0	46.6	4.1	192.6	0.0	0.0	0.0	2.9	338.8				
Subtotal		20.7	18.7	16.0	37.9	7.0	68.6	4.1	192.6	0.0	1.3	1.5	2.9	371.3	735.8	364.6		
Merlin Properties	No	Water Duty Method Used to Estimate Annual Production										0%	0%	0%	1%	1.61	426.0	424.4
Oak Valley Partners, LP ⁽⁵⁾		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1,032.1	1,032.1		
Plantation on the Lake LLC	Yes	0.0	0.0	0.0	0.0	0.0	0.0	18.5	41.3	34.0	28.7	27.9	11.0	161.5	450.0	288.5		
Rancho Calimesa Mobile Home Park ⁽⁶⁾																		
Well No.1	Yes	1.3	1.8	1.6	2.5	2.2	2.3	0.0	0.0	1.1	1.4	2.0	1.8	18.1				
Well No.2	No	0.7	1.0	0.0	0.4	0.3	0.5	0.2	0.8	0.8	1.1	0.5	0.5	6.9				
Subtotal		2.0	2.7	1.6	2.9	2.6	2.9	0.2	0.8	1.9	2.5	2.5	2.3	25.0	116.2	91.2		
Roman Catholic Bishop of San Bernardino		Water Duty Method Used to Estimate Annual Production												0.0	119.3	119.3		
Sharondale Mesa Owners Association ⁽⁶⁾																		
Well No.1	Yes	4.0	4.8	4.7	7.2	5.8	7.3	7.9	8.4	7.8	6.0	5.7	3.3	72.9				
Well No.2	Yes	3.3	3.7	4.0	5.0	4.2	5.3	5.1	5.1	5.0	4.4	4.2	2.6	51.8				
Subtotal		7.3	8.5	8.7	12.2	9.9	12.6	13.0	13.5	12.8	10.4	9.9	5.9	124.7	154.9	30.2		
Tukwet Canyon Golf Club ⁽⁷⁾																		
Well A	Yes	2.3	1.3	1.8	2.2	2.2	1.4	1.6	5.2	2.3	1.7	1.9	1.7	25.7				
Well C	Yes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
Well D	Yes	27.3	26.7	39.2	98.8	130.9	158.7	151.7	153.6	122.7	71.2	86.1	23.9	1,090.8				
Subtotal		29.5	28.1	41.1	101.0	133.1	160.2	153.3	158.7	125.1	72.8	88.0	25.5	1,116.5	1,704.0	587.6		
Stearns, Leonard M. and Dorothy D.	No	Water Duty Method Used to Estimate Annual Production												0.70	154.9	154.2		
Sunny-Cal Egg and Poultry Company	No	Water Duty Method Used to Estimate Annual Production												4.25	1,115.0	1,110.7		
Albor Properties III, LP	No	Water Duty Method Used to Estimate Annual Production												2.38	232.4	230.0		
Nikodinov, Nick	No	Water Duty Method Used to Estimate Annual Production												0.76	15.5	14.7		
McAmis, Ronald L.	No	Water Duty Method Used to Estimate Annual Production												0.55	3.9	3.3		
Aldama, Nicolas and Amalia	No	Water Duty Method Used to Estimate Annual Production												0.86	5.4	4.6		
Gutierrez, Hector, et al.	No	Water Duty Method Used to Estimate Annual Production												1.41	7.7	6.3		
Darmont, Boris and Miriam	No	Water Duty Method Used to Estimate Annual Production												0.35	1.9	1.6		
TOTAL														1,812.6	6,333.2	4,520.6		

1.- All values rounded and subject to revision based on receipt of more accurate information in the future.

2.- Total production is estimated for Overlying parties with un-metered wells.

3.- Mr. Beckman has not provided production information since 2014.

4.- California Oak Valley Golf and Resort monthly production provided by BCVWD.

5.- For CY 2021, Oak Valley Partners had a water right of 1,398.87 ac-ft of water in the Beaumont Basin. This right was reduced to 1,032.10 ac-ft as a result of transferring 366.77 ac-ft to YVWD for that year.

6.- Monthly production since 2011 provided by Clearwater Solutions for Sharondale Mesa Owner Association and since 2014 for Rancho Calimesa Mobile Home Park.

7.- Monthly production provided by the Morongo Band of Mission Indians.

**Table 3-2B
Overlying Producer - Summary of Production for Calendar Year 2022 (ac-ft)**

Owner and Well Name	Metered	Monthly Water Production by Overlying Producer ¹												Total ² Production	Overlying Water Right	Unused Overlying Allocation
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
Beckman, Walter M. ⁽³⁾	Yes	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.86	58.1	57.2
California Oak Valley Golf and Resort LLC ⁽⁴⁾																
Oak Valley #1	Yes	0.0	0.0	0.0	0.1	0.0	0.0	0.0	68.6	63.3	53.4	33.3	14.3	232.94		
Oak Valley #2	Yes	8.3	21.5	29.5	49.8	49.5	95.1	76.7	0.0	0.0	0.0	0.0	0.0	330.50		
Subtotal		8.3	21.5	29.5	49.9	49.5	95.1	76.7	68.6	63.3	53.4	33.3	14.3	563.44	735.8	172.4
Merlin Properties	No	Water Duty Method Used to Estimate Annual Production												1.63	426.0	424.4
Oak Valley Partners, LP ⁽⁵⁾		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	920.6	920.6
Plantation on the Lake LLC	Yes	20.7	18.7	26.7	24.8	27.1	35.6	39.6	37.6	32.8	41.4	18.1	12.9	335.86	450.0	114.2
Rancho Calimesa Mobile Home Park ⁽⁶⁾																
Well No.1	Yes	1.8	1.9	1.9	1.9	2.2	2.2	2.5	3.1	0.0	0.0	0.0	0.0	17.66		
Well No.2	No	0.4	0.3	0.6	0.6	0.7	0.6	0.7	0.6	2.1	2.3	2.3	2.6	13.73		
Subtotal		2.3	2.3	2.5	2.5	2.9	2.8	3.1	3.8	2.1	2.3	2.3	2.6	31.40	116.2	84.8
Roman Catholic Bishop of San Bernardino		Water Duty Method Used to Estimate Annual Production												0.00	119.3	119.3
Sharondale Mesa Owners Association ⁽⁶⁾																
Well No.1	Yes	2.7	3.5	4.5	4.8	6.7	5.6	8.4	7.6	7.5	5.2	4.3	3.1	64.02		
Well No.2	Yes	2.5	3.3	4.0	3.9	5.2	5.9	3.7	5.3	5.1	4.5	3.5	2.8	49.58		
Subtotal		5.2	6.8	8.5	8.8	11.9	11.5	12.1	12.8	12.6	9.7	7.8	5.9	113.61	154.9	41.3
Tukwet Canyon Golf Club ⁽⁷⁾																
Well A	Yes	1.8	1.4	1.4	1.6	0.9	2.1	19.7	1.6	1.5	2.3	1.6	1.5	37.38		
Well C	Yes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00		
Well D	Yes	44.3	49.1	62.5	88.1	128.4	157.0	46.1	188.7	137.6	76.7	38.4	22.0	1,038.92		
Subtotal		46.1	50.5	63.9	89.7	129.3	159.1	65.8	190.3	139.1	79.0	40.0	23.5	1,076.30	1,704.0	627.7
Stearns, Leonard M. and Dorothy D.	No	Water Duty Method Used to Estimate Annual Production												0.70	154.9	154.2
Sunny-Cal Egg and Poultry Company	No	Water Duty Method Used to Estimate Annual Production												4.39	1,115.0	1,110.6
Albor Properties III, LP	No	Water Duty Method Used to Estimate Annual Production												2.46	232.4	229.9
Nikodinov, Nick	No	Water Duty Method Used to Estimate Annual Production												0.77	15.5	14.7
McAmis, Ronald L.	No	Water Duty Method Used to Estimate Annual Production												0.56	3.9	3.3
Aldama, Nicolas and Amalia	No	Water Duty Method Used to Estimate Annual Production												0.88	5.4	4.5
Gutierrez, Hector, et al.	No	Water Duty Method Used to Estimate Annual Production												1.44	7.7	6.3
Darmont, Boris and Miriam	No	Water Duty Method Used to Estimate Annual Production												0.35	1.9	1.6
TOTAL		82.5	100.7	131.2	175.6	220.7	304.0	197.3	313.1	249.7	185.8	101.5	59.3	2,134.64	6,221.8	4,087.1

1.- All values rounded and subject to revision based on receipt of more accurate information in the future.

2.- Total production is estimated for Overlying parties with un-metered wells.

3.- Mr. Beckman has not provided production information since 2014.

4.- California Oak Valley Golf and Resort monthly production provided by BCVWD.

5.- For CY 2022, Oak Valley Partners had a water right of 1,398.87 ac-ft of water in the Beaumont Basin. This right was reduced to 920.62 ac-ft as a result of transferring 478.25 ac-ft to YVWD for that year.

6.- Monthly production since 2011 provided by Clearwater Solutions for Sharondale Mesa Owner Association and since 2014 for Rancho Calimesa Mobile Home Park.

7.- Monthly production provided by the Morongo Band of Mission Indians.

**Table 3-2C
Overlying Producer - Summary of Production for Calendar Year 2023 (ac-ft)**

Owner and Well Name	Metered	Monthly Water Production by Overlying Producer ¹												Total ² Production	Overlying Water Right	Unused Overlying Allocation
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
Beckman, Walter M. ⁽³⁾	Yes	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.86	58.1	57.2
California Oak Valley Golf and Resort LLC ⁽⁴⁾																
Oak Valley #1	Yes	0.0	10.5	5.6	21.6	40.5	43.6	68.1	33.4	41.4	0.0	0.0	0.0	264.61		
Oak Valley #2	Yes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.3	71.2	39.4	10.6	174.56		
Subtotal		0.0	10.5	5.6	21.6	40.5	43.6	68.1	33.4	94.6	71.2	39.4	10.6	439.17	735.8	296.7
Merlin Properties	No													1.57	426.0	424.4
Oak Valley Partners, LP ⁽⁵⁾		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	920.6	920.6
Plantation on the Lake LLC	Yes	12.9	13.2	12.1	21.5	26.4	35.2	33.0	38.8	23.5	29.7	21.9	20.5	288.83	450.0	161.2
Rancho Calimesa Mobile Home Park ⁽⁶⁾																
Well No.1	Yes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00		
Well No.2	No	2.1	2.2	2.0	2.1	2.5	2.6	2.4	4.3	0.8	3.0	2.7	2.1	28.79		
Subtotal		2.1	2.2	2.0	2.1	2.5	2.6	2.4	4.3	0.8	3.0	2.7	2.1	28.79	116.2	87.4
Roman Catholic Bishop of San Bernardino														0.00	119.3	119.3
Sharondale Mesa Owners Association ⁽⁶⁾																
Well No.1	Yes	0.5	0.1	1.4	2.0	4.7	6.2	6.2	6.6	6.1	6.7	7.6	2.5	50.47		
Well No.2	Yes	2.7	5.1	1.4	4.2	4.2	4.5	4.7	4.9	4.3	3.9	0.2	2.4	42.32		
Subtotal		3.1	5.2	2.7	6.2	8.9	10.7	10.9	11.4	10.4	10.5	7.8	4.8	92.78	154.9	62.1
Tukwet Canyon Golf Club ⁽⁷⁾																
Well A	Yes	1.7	1.7	2.0	1.8	2.1	2.0	0.6	1.1	0.9	2.0	0.4	0.5	16.99		
Well C	Yes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00		
Well D	Yes	11.8	26.9	0.1	56.5	101.7	99.2	169.1	115.0	96.4	86.4	65.4	37.7	866.13		
Subtotal		13.5	28.6	2.1	58.4	103.8	101.2	169.7	116.1	97.4	88.4	65.8	38.2	883.12	1,704.0	820.9
Stearns, Leonard M. and Dorothy D.	No	Water Duty Method Used to Estimate Annual Production												0.70	154.9	154.2
Sunny-Cal Egg and Poultry Company	No	Water Duty Method Used to Estimate Annual Production												4.02	1,115.0	1,111.0
Albor Properties III, LP	No	Water Duty Method Used to Estimate Annual Production												2.25	232.4	230.1
Nikodinov, Nick	No	Water Duty Method Used to Estimate Annual Production												0.73	15.5	14.8
McAmis, Ronald L.	No	Water Duty Method Used to Estimate Annual Production												0.54	3.9	3.3
Aldama, Nicolas and Amalia	No	Water Duty Method Used to Estimate Annual Production												0.82	5.4	4.6
Gutierrez, Hector, et al.	No	Water Duty Method Used to Estimate Annual Production												1.36	7.7	6.4
Darmont, Boris and Miriam	No	Water Duty Method Used to Estimate Annual Production												0.35	1.9	1.6
TOTAL		31.7	60.5	24.5	109.7	182.1	193.2	284.2	204.1	226.7	202.9	137.6	76.3	1,745.89	6,221.8	4,475.9

1.- All values rounded and subject to revision based on receipt of more accurate information in the future.

2.- Total production is estimated for Overlying parties with un-metered wells.

3.- Mr. Beckman has not provided production information since 2014.

4.- California Oak Valley Golf and Resort monthly production provided by BCVWD.

5.- For CY 2023, Oak Valley Partners had a water right of 1,398.87 ac-ft of water in the Beaumont Basin. This right was reduced to 920.62 ac-ft as a result of transferring 478.25 ac-ft to YVWD for that year.

6.- Monthly production since 2011 provided by Clearwater Solutions for Sharondale Mesa Owner Association and since 2014 for Rancho Calimesa Mobile Home Park.

7.- Monthly production provided by the Morongo Band of Mission Indians.

**Table 3-2D
Overlying Producer - Summary of Production for Calendar Year 2024 (ac-ft)**

Owner and Well Name	Metered	Monthly Water Production by Overlying Producer ¹												Total ² Production	Overlying Water Right	Unused Overlying Allocation
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
Beckman, Walter M. ⁽³⁾	Yes	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.86	61.6	60.7
California Oak Valley Golf and Resort LLC ⁽⁴⁾																
Oak Valley #1	Yes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	27.6	27.64		
Oak Valley #2	Yes	11.6	3.6	1.8	17.1	27.9	86.4	85.2	94.4	59.3	56.1	41.4	13.8	498.75		
Subtotal		11.6	3.6	1.8	17.1	27.9	86.5	85.2	94.4	59.3	56.1	41.4	41.4	526.40	779.8	253.4
Merlin Properties	No													1.58	451.4	449.9
Oak Valley Partners, LP ⁽⁵⁾		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1,004.1	1,004.1
Plantation on the Lake LLC	Yes	15.3	12.3	17.2	21.2	28.8	41.1	29.5	29.8	31.6	30.4	22.4	24.9	304.43	476.9	172.5
Rancho Calimesa Mobile Home Park ⁽⁶⁾																
Well No.1	Yes	0.8	1.8	1.7	1.9	1.9	1.9	2.5	2.9	2.9	2.6	2.9	1.6	25.35		
Well No.2	No	1.3	0.1	0.3	0.2	0.7	0.8	1.7	0.9	0.0	0.0	0.0	0.0	6.09		
Subtotal		2.2	1.9	2.0	2.2	2.6	2.8	4.1	3.7	2.9	2.6	2.9	1.6	31.43	123.1	91.7
Roman Catholic Bishop of San Bernardino														0.00	126.4	126.4
Sharondale Mesa Owners Association ⁽⁶⁾																
Well No.1	Yes	1.9	1.6	2.2	4.4	7.6	8.2	11.4	8.0	5.6	5.5	4.6	4.2	65.07		
Well No.2	Yes	1.8	1.6	0.8	1.3	1.7	0.0	0.0	4.6	4.5	4.2	4.7	4.0	29.27		
Subtotal		3.6	3.2	3.0	5.7	9.3	8.2	11.4	12.6	10.1	9.6	9.3	8.2	94.34	164.2	69.8
Tukwet Canyon Golf Club ⁽⁷⁾																
Well A	Yes	1.7	0.6	0.5	0.9	0.7	1.7	1.6	0.7	1.0	0.0	0.0	0.0	9.26		
Well C	Yes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00		
Well D	Yes	11.8	0.1	7.7	42.8	87.5	172.4	134.0	161.6	134.6	96.8	54.0	56.2	959.58		
Subtotal		13.5	0.7	8.2	43.7	88.1	174.1	135.6	162.3	135.5	96.8	54.0	56.2	968.83	1,805.8	836.9
Stearns, Leonard M. and Dorothy D.	No	Water Duty Method Used to Estimate Annual Production												0.70	164.2	163.5
Sunny-Cal Egg and Poultry Company	No	Water Duty Method Used to Estimate Annual Production												4.06	1,181.6	1,177.5
Albor Properties III, LP	No	Water Duty Method Used to Estimate Annual Production												2.27	246.2	244.0
Nikodinov, Nick	No	Water Duty Method Used to Estimate Annual Production												0.73	16.4	15.7
McAmis, Ronald L.	No	Water Duty Method Used to Estimate Annual Production												0.54	4.1	3.6
Aldama, Nicolas and Amalia	No	Water Duty Method Used to Estimate Annual Production												0.83	5.7	4.9
Gutierrez, Hector, et al.	No	Water Duty Method Used to Estimate Annual Production												1.37	8.2	6.8
Darmont, Boris and Miriam	No	Water Duty Method Used to Estimate Annual Production												0.35	2.1	1.7
TOTAL		46.3	22.5	32.2	89.8	156.8	312.7	265.9	302.8	239.4	195.6	130.0	132.3	1,938.73	6,621.8	4,683.0

1.- All values rounded and subject to revision based on receipt of more accurate information in the future.

2.- Total production is estimated for Overlying parties with un-metered wells.

3.- Mr. Beckman has not provided production information since 2014.

4.- California Oak Valley Golf and Resort monthly production provided by BCVWD.

5.- For CY 2024, Oak Valley Partners had a water right of 1,482.38 ac-ft of water in the Beaumont Basin. This right was reduced to 1,004.13 ac-ft as a result of transferring 478.25 ac-ft to YVWD for that year.

6.- Monthly production since 2011 provided by Clearwater Solutions for Sharondale Mesa Owner Association and since 2014 for Rancho Calimesa Mobile Home Park.

7.- Monthly production provided by the Morongo Band of Mission Indians.

**Table 3-2E
Overlying Producer - Summary of Production for Calendar Year 2025 (ac-ft)**

Owner and Well Name	Metered	Monthly Water Production by Overlying Producer ¹												Total ² Production	Overlying Water Right	Unused Overlying Allocation	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
Beckman, Walter M. ⁽³⁾	Yes	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.86	61.6	60.7
California Oak Valley Golf and Resort LLC ⁽⁴⁾																	
Oak Valley #1	Yes	4.2	2.3	10.2	40.6	34.3	80.1	72.2	80.5	84.7	50.8	25.1	0.0	485.00			
Oak Valley #2	Yes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.80			
Subtotal		4.2	2.3	10.2	40.6	34.3	80.1	72.2	80.5	84.7	51.6	25.1	0.0	485.80	779.8	294.0	
Merlin Properties	No													1.58	451.4	449.9	
Oak Valley Partners, LP ⁽⁵⁾		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00	1,004.1	1,004.1	
Plantation on the Lake LLC	Yes	21.2	16.0	19.9	23.6	30.4	35.6	39.3	44.2	31.6	29.8	26.1	19.9	337.55	476.9	139.3	
Rancho Calimesa Mobile Home Park ⁽⁶⁾																	
Well No.1	Yes	3.0	2.5	1.9	2.5	2.7	2.7	2.7	3.4	2.6	2.9	2.4	2.6	31.81			
Well No.2	No	0.3	0.1	0.2	0.1	0.1	0.1	0.4	0.4	0.0	0.0	0.0	0.2	2.02			
Subtotal		3.3	2.6	2.0	2.6	2.9	2.8	3.1	3.8	2.6	2.9	2.4	2.8	33.84	123.1	89.3	
Roman Catholic Bishop of San Bernardino														0.00	126.4	126.4	
Sharondale Mesa Owners Association ⁽⁶⁾																	
Well No.1	Yes	2.6	2.3	1.6	3.6	4.6	6.8	8.9	8.3	10.7	5.2	2.7	2.3	59.57			
Well No.2	Yes	2.7	2.2	1.6	3.1	3.5	3.5	6.1	2.8	3.8	4.1	2.4	2.4	38.19			
Subtotal		5.2	4.5	3.2	6.8	8.2	10.3	15.0	11.1	14.5	9.3	5.1	4.7	97.76	164.2	66.4	
Tukwet Canyon Golf Club ⁽⁷⁾																	
Well A	Yes	0.0	0.0	0.0	0.0	21.8	1.2	0.7	0.7	0.7	1.4	0.7	1.7	28.87			
Well C	Yes	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00			
Well D	Yes	58.4	28.6	32.1	67.1	75.1	133.8	150.3	153.1	119.1	80.1	38.6	43.6	979.82			
Subtotal		58.4	28.6	32.1	67.1	96.9	134.9	151.0	153.7	119.8	81.5	39.3	45.3	1,008.69	1,805.8	797.1	
Stearns, Leonard M. and Dorothy D.	No	Water Duty Method Used to Estimate Annual Production												0.70	164.2	163.5	
Sunny-Cal Egg and Poultry Company	No	Water Duty Method Used to Estimate Annual Production												4.06	1,181.6	1,177.5	
Albor Properties III, LP	No	Water Duty Method Used to Estimate Annual Production												2.27	246.2	244.0	
Nikodinov, Nick	No	Water Duty Method Used to Estimate Annual Production												0.73	16.4	15.7	
McAmis, Ronald L.	No	Water Duty Method Used to Estimate Annual Production												0.54	4.1	3.6	
Aldama, Nicolas and Amalia	No	Water Duty Method Used to Estimate Annual Production												0.83	5.7	4.9	
Gutierrez, Hector, et al.	No	Water Duty Method Used to Estimate Annual Production												1.37	8.2	6.8	
Darmont, Boris and Miriam	No	Water Duty Method Used to Estimate Annual Production												0.35	2.1	1.7	
TOTAL		92.3	54.8	67.5	140.7	172.6	263.7	280.7	293.3	253.2	175.1	97.9	72.7	1,976.93	6,621.8	4,644.8	

1.- All values rounded and subject to revision based on receipt of more accurate information in the future.

2.- Total production is estimated for Overlying parties with un-metered wells.

3.- Mr. Beckman has not provided production information since 2014.

4.- California Oak Valley Golf and Resort monthly production provided by BCVWD.

5.- For CY 2025, Oak Valley Partners had a water right of 1,482.38 ac-ft of water in the Beaumont Basin. This right was reduced to 1,004.13 ac-ft as a result of transferring 478.25 ac-ft to YVWD for that year.

6.- Monthly production since 2011 provided by Clearwater Solutions for Sharondale Mesa Owner Association and since 2014 for Rancho Calimesa Mobile Home Park.

7.- Monthly production provided by the Morongo Band of Mission Indians.

Table 3-3
Proeuction Summary for Appropriator ane Overlying Proeucers in the Beaumont Basin
2016 through 2025 - Calenear Year Accounting (ac-ft)

	Annual Proeuction (ac-ft)									
	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Appropriator Parties										
Banning, City of	1,473	1,443	2,261	2,121	2,549	3,668	3,594	1,327	1,503	2,544
Beaumont-Cherry Valley Water District	10,160	11,651	12,209	11,141	12,539	12,610	12,490	10,213	10,883	10,996
South Mesa Water Company	353	368	365	331	229	466	575	277	225	263
Yucaipa Valley Water District	5	0	191	529	1,408	1,228	687	892	985	998
Subtotal	11,990	13,462	15,026	14,121	16,725	17,972	17,345	12,709	13,596.3	14,800.7
Overlying Parties										
Beckman, Walter M	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
California Oak Valley Golf and Resort LLC	436.3	830.0	573.1	489.6	577.2	371.3	563.4	439.2	526.4	485.8
Merlin Properties	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Oak Valley Partners, LP	2.5	2.5	2.5	2.5	-	-	-	-	-	-
Plantation on the Lake LLC	293.4	417.8	471.2	258.7	195.2	161.5	335.9	288.8	304.4	337.5
Rancho Calimesa Mobile Home Park	31.2	31.2	32.7	32.1	30.1	25.0	31.4	28.8	31.4	33.8
Roman Catholic Bishop of San Bernardino	-	-	-	-	-	-	-	-	-	-
Sharondale Mesa Owners Association	84.8	117.9	116.4	98.3	125.8	124.7	113.6	92.8	94.3	97.8
Tukwet Canyon Golf Club ¹	958.6	991.4	1,010.9	878.8	969.3	1,116.5	1,076.3	883.1	968.8	1,008.7
Stearns, Leonard M. and Dorothy D.	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Sunny-Cal Egg and Poultry Company	4.2	4.0	4.2	4.1	4.3	4.3	4.4	4.0	4.1	4.1
Albor Properties III, LP ²	2.3	2.2	2.3	2.3	2.4	2.4	2.5	2.3	2.3	2.3
Nikodinov, Nick	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.7	0.7	0.7
McAmis, Ronald L.	0.5	0.5	0.6	0.5	0.6	0.6	0.6	0.5	0.5	0.5
Aldama, Nicolas and Amalia	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.8	0.8	0.8
Gutierrez, Hector, et. al.	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Darmont, Boris and Miriam	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Subtotal	1,820.4	2,403.9	2,220.4	1,773.3	1,911.5	1,812.6	2,134.6	1,745.9	1,938.7	1,976.9
Total	13,810.1	15,866.3	17,246.5	15,894.8	18,636.2	19,784.8	19,479.9	14,455.0	15,535.0	16,777.6

**Table 3-4
Annual Supplemental Recharge to the Beaumont Basin - Calendar Years 2003-2025**

Year	Supplemental Recharge (ac-ft)					
	Banning ¹	Beaumont	BCVWD ¹	YVWD	SGPWA ²	Total
2003	-	-	-	-	-	-
2004	-	-	-	-	813.8	813.8
2005	-	-	-	-	687.4	687.4
2006	-	-	3,501.0	-	777.7	4,278.7
2007	-	-	4,501.0	-	541.3	5,042.3
2008	1,534.0	-	2,399.0	-	1,047.4	4,980.4
2009	2,741.2	-	2,741.2	-	823.4	6,305.8
2010	1,338.0	-	5,727.0	-	1,222.3	8,287.3
2011	800.0	-	7,979.0	-	1,842.0	10,621.0
2012	1,200.0	-	7,783.0	-	1,827.2	10,810.2
2013	1,200.0	-	7,403.0	-	881.8	9,484.8
2014	608.0	-	4,405.0	-	16.5	5,029.5
2015	694.0	-	2,773.0	-	9.2	3,476.2
2016	1,477.0	-	9,319.0	-	17.8	10,813.8
2017	1,350.0	-	13,590.0	-	-	14,940.0
2018	500.0	-	12,121.0	-	-	12,621.0
2019	250.0	-	13,645.0	-	257.8	14,152.8
2020	250.0	-	11,005.0	-	214.0	11,469.0
2021	-	-	2,468.0	-	36.0	2,504.0
2022	35.0	-	1,776.0	-	0.6	1,811.6
2023	1,000.0	-	18,000.0	500.0	893.0	20,393.0
2024	1,500.0	-	14,000.0	2,000.0	701.0	18,201.0
2025	1,750.0	-	16,200.0	-	924.0	18,874.0
Totals	18,227.2	-	161,336.2	2,500.0	13,534.2	195,597.6

1.- SWP water recharged in the BCVWD Noble Creek Recharge Facility or at SGPWA's Brookside East Recharge Facility.

2.- Through 2018, the SGPWA recharged imported water at the Little San Gorgonio Creek Spreading Ponds, located just to the north of the basin boundary. Starting in 2019, the SGPWA has the ability to recharge at their new spreading basins located at the southwest corner of Beaumont Blvd. and Brookside Ave. Imported water recharged at this location will be credited to the agency in their storage account.

Table 3-5

City of Beaumont Wastewater Treatment Plant - Monthly Discharges 2007-2025

Treated Wastewater Daily Average Discharges (mgd) to DDP1 - Cooper's Creek

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average (mgd)	Annual (ac-ft)
2007	2.32	2.17	2.25	2.23	2.61	2.57	2.57	2.66	2.66	2.67	2.63	2.50	2.49	2,789
2008	2.44	2.79	2.49	2.65	2.55	2.59	2.55	2.59	2.60	2.50	2.57	2.65	2.58	2,896
2009	2.52	2.66	2.56	2.58	2.59	2.56	2.44	2.63	2.60	2.61	2.63	2.69	2.59	2,901
2010	2.83	2.65	2.66	2.60	2.00	1.88	1.94	1.96	1.94	2.00	2.04	2.22	2.22	2,492
2011	2.07	2.12	2.06	2.01	2.04	2.25	2.23	2.13	2.10	2.08	2.19	2.13	2.12	2,371
2012	2.19	2.64	2.19	2.23	2.29	2.24	2.28	2.29	2.24	2.70	2.38	2.33	2.33	2,620
2013	2.76	2.80	2.80	2.81	2.78	2.78	2.81	2.82	2.89	2.83	2.21	2.50	2.73	3,061
2014	2.62	2.22	2.45	2.48	2.61	2.62	2.61	2.74	2.87	2.74	2.99	3.12	2.67	2,995
2015	2.87	2.94	2.97	2.90	2.92	2.98	2.99	3.10	3.08	3.08	3.06	3.11	3.00	3,361
2016	3.15	3.06	3.01	3.07	3.11	3.15	3.15	3.26	3.22	3.18	3.19	3.30	3.15	3,543
2017	3.36	3.26	3.17	3.35	3.22	3.18	3.21	3.31	3.32	3.26	3.29	3.31	3.27	3,663
2018	3.37	3.28	3.33	3.32	3.30	3.31	3.41	3.51	3.47	3.42	3.51	3.47	3.39	3,800
2019	3.61	3.61	3.64	3.66	3.69	3.61	3.59	3.72	3.80	3.64	3.77	3.72	3.67	4,112
2020	3.73	3.75	3.92	4.02	3.82	3.81	3.81	4.09	4.05	3.88	3.66	3.46	3.83	4,305
2021	3.51	3.44	3.70	3.60	3.97	4.55	3.50	3.65	3.61	3.60	3.57	3.72	3.70	4,148
2022	3.61	3.62	3.62	3.56	3.54	3.65	3.55	3.66	3.68	3.28	3.23	3.17	3.51	3,936
2023	3.40	3.22	3.52	3.24	3.32	3.36	3.36	3.53	3.47	3.37	3.39	3.41	3.38	3,790
2024	3.45	3.69	3.48	3.40	3.42	3.47	3.45	3.58	3.63	3.58	3.57	3.58	3.51	3,959
2025	3.53	3.56	3.51	3.43	3.48	3.49	3.45	3.59	3.54	3.38	3.42	3.52	3.49	3,911

Treated Wastewater Daily Average Discharges (mgd) to DDP7 - Marshalls Creek

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Average (mgd)	Annual (ac-ft)
2010	0.00	0.00	0.82	0.67	0.57	0.62	0.70	0.69	0.69	0.70	0.67	0.65	0.57	530
2011	0.66	0.63	0.63	0.63	0.58	0.45	0.52	0.63	0.64	0.60	0.55	0.54	0.59	660
2012	0.54	0.54	0.52	0.47	0.45	0.45	0.45	0.49	0.50	0.47	0.41	0.53	0.49	546
2013	0.48	0.52	0.45	0.43	0.25	0.44	0.52	0.61	0.33	0.69	0.57	0.41	0.47	530
2014	0.21	0.65	0.61	0.66	0.61	0.42	0.49	0.35	0.21	0.24	0.02	0.02	0.37	416
2015	0.24	0.20	0.31	0.31	0.22	0.38	0.37	0.23	0.00	0.00	0.00	0.00	0.19	212

**Table 3-6
Overlying Parties Production Rights Allocation Based on Revised Safe Yield**

Overlying Party to the 2003 Judgment	Initial Overlying Water Right through 2013	New Overlying Water Right Starting in 2014	New Overlying Water Right Starting in 2024	5-Year (2021-25) Average Production (ac-ft)	5-Year (2021-25) Running Avg % of Water Right
Sharondale Mesa Owners Association	200.0	154.91	164.16	104.6	63.7%
California Oak Valley Golf and Resort LLC ⁽¹⁾	950.0	735.84	779.77	477.2	61.2%
Plantation on the Lake LLC	581.0	450.02	476.89	285.6	59.9%
Tukwet Canyon Golf Club	2,200.0	1,704.05	1,805.78	1,010.7	56.0%
Rancho Calimesa Mobile Home Park	150.0	116.18	123.12	30.1	24.4%
Gutierrez, Hector, et al.	10.0	7.75	8.21	1.4	16.9%
Darmont, Boris and Miriam	2.5	1.94	2.05	0.4	17.1%
Aldama, Nicolas and Amalia	7.0	5.42	5.75	0.8	14.7%
McAmis, Ronald L.	5.0	3.87	4.10	0.5	13.3%
Nikodinov, Nick	20.0	15.49	16.42	0.7	4.5%
Beckman, Walter M.	75.0	58.09	61.56	0.9	1.4%
Albor Properties III, LP	300.0	232.37	246.24	2.3	0.9%
Stearns, Leonard M. and Dorothy D.	200.0	154.91	164.16	0.7	0.4%
Sunny-Cal Egg and Poultry Company	1,439.5	1,114.99	1,181.55	4.2	0.4%
Merlin Properties	550.0	426.01	451.45	1.6	0.4%
Oak Valley Partners, LP ⁽²⁾	1,806.0	1,398.87	1,482.38	0.0	0.0%
Roman Catholic Bishop of San Bernardino	154.0	119.28	126.40	0.0	0.0%
	8,650.0	6,700.0	7,100.0	1,921.8	27.1%

(1) - California Oak Valley Golf and Resort LLC exceeded its annual production right in 2017; however, their average five-year production over any five-year period has been below their overlying water right.

(2) - Under Resolution 17-02, adopted August 30, 2017, Oak Valley Partners LP (OVP) agreed to transfer its Overlying water rights to particular development parcels, intending to secure commitment from YVWD to provide water service to development phases of OVP's Summerwind Ranch Specific Plan (Project) located in the Beaumont Basin. As of the end of CY 2025, OVP has permanently transferred 478.25 ac-ft of water rights to YVWD resulting in a reduction of OVP's rights to 1,004.13 ac-ft (Based on the 2024 update of the Beaumont Basin Safe Yield).

**Table 3-7
Summary of Unused Overlying Water and Allocation to Appropriators (ac-ft)**

Accounting Year	Overlying Water Right	Overlying Production	Unused Overlying Water Right	Allocation Year	City of Banning	City of Beaumont	Beaumont Cherry Valley WD	South Mesa Water Co.	Yucaipa Valley Water District	Total
2003	4,325	2,441	1,884	2008	592	0	801	235	256	1,884
2004	8,650	3,576	5,074	2009	1,595	0	2,157	633	689	5,074
2005	8,650	3,293	5,357	2010	1,684	0	2,277	669	728	5,357
2006	8,650	3,597	5,053	2011	1,588	0	2,148	631	686	5,053
2007	8,650	3,307	5,343	2012	1,679	0	2,272	667	726	5,343
2008	8,650	2,872	5,778	2013	1,816	0	2,456	721	785	5,778
2009	8,650	2,838	5,812	2014	1,827	0	2,471	725	789	5,812
2010	8,650	1,976	6,674	2015	2,097	0	2,837	833	906	6,674
2011	8,650	1,971	6,679	2016	2,099	0	2,839	833	907	6,679
2012	8,650	2,085	6,565	2017	2,063	0	2,791	819	891	6,565
2013	8,650	2,054	6,596	2018	2,073	0	2,804	823	896	6,596
2014	6,700	2,219	4,481	2019	1,408	0	1,905	559	609	4,481
2015	6,700	1,855.6	4,844	2020	1,523	0	2,059	605	658	4,844
2016	6,700	1,820.4	4,880	2021	1,534	0	2,074	609	663	4,880
2017	6,700	2,403.9	4,296	2022	1,350	0	1,826	536	583	4,296
2018 ¹	6,700	2,220.4	4,480	2023	1,408	0	1,904	559	608	4,480
2019	6,636	1,773.3	4,863	2024	1,528	0	2,067	607	660	4,863
2020	6,505	1,911.5	4,594	2025	1,444	0	1,953	573	624	4,594
2021	6,333	1,812.6	4,521	2026	1,421	0	1,922	564	614	4,521
2022	6,222	2,134.6	4,087	2027	1,285	0	1,737	510	555	4,087
2023	6,222	1,745.9	4,476	2028	1,407	0	1,903	559	608	4,476
2024	6,622	1,938.7	4,683	2029	1,472	0	1,991	584	636	4,683
2025	6,622	1,976.9	4,645	2030	1,460	0	1,975	580	631	4,645

1.- At the October 4, 2023, YVWD submitted revised documentation supporting Form 5s transfers of Overlying water rights from Oak Valley Partners from 2018 through 2022 as follows: a) 2018, 0.11 ac-ft b) 2019, 63.96 ac-ft, c) 2020, 194.82 ac-ft, d) 2021, 366.77 ac-ft, and e) 2022, 478.25 ac-ft. Transfers for CY 2023 through CY 2025 remain at the CY 2022 level since YVWD has not documented increasing delivery volumes.

**Table 3-8
Appropriator's Production Right**

Calendar Year	Operating Yield		Water Acquired		New Yield ⁽¹⁾		Water From Storage	Appropriator 's Production Right
	Temporary Surplus Water	Appropriative Water Right	Transfer of Overlying Water Rights to Appropriator	Transfers Between Appropriators /SGPWA	Capture Available Stream Flow	Increase Capture of Rising Water		
City of Banning								
2006	5,029.0	0.0	0.0	0.0	0.0	0.0	0.0	5,029.0
2007	5,029.0	0.0	0.0	1,500.0	0.0	0.0	0.0	6,529.0
2008	5,029.0	592.2	0.0	0.0	0.0	0.0	0.0	5,621.2
2009	5,029.0	1,594.7	0.0	0.0	0.0	0.0	0.0	6,623.7
2010	5,029.0	1,683.8	0.0	0.0	0.0	0.0	0.0	6,712.8
2011	5,029.0	1,588.2	0.0	0.0	0.0	0.0	0.0	6,617.2
2012	5,029.0	1,679.5	0.0	0.0	0.0	0.0	0.0	6,708.5
2013	2,514.5	1,816.1	0.0	0.0	0.0	0.0	0.0	4,330.6
2014	0.0	1,826.7	0.0	0.0	0.0	0.0	150.4	1,977.1
2015	0.0	2,097.5	0.0	0.0	0.0	0.0	0.0	2,097.5
2016	0.0	2,099.1	0.0	0.0	0.0	0.0	0.0	2,099.1
2017	0.0	2,063.2	0.0	0.0	0.0	0.0	0.0	2,063.2
2018	0.0	2,073.3	0.0	0.0	0.0	0.0	0.0	2,073.3
2019	0.0	1,408.4	0.0	0.0	0.0	0.0	462.9	1,871.3
2020	0.0	1,522.6	0.0	0.0	0.0	0.0	776.0	2,298.6
2021	0.0	1,533.7	0.0	60.0	0.0	0.0	2,074.5	3,668.1
2022	0.0	1,350.3	0.0	0.0	0.0	0.0	2,208.4	3,558.7
2023	0.0	1,407.9	0.0	0.0	0.0	0.0	0.0	1,407.9
2024	0.0	1,528.4	0.0	0.0	0.0	0.0	0.0	1,528.4
2025	0.0	1,443.8	0.0	0.0	0.0	0.0	0.0	1,443.8

(1) - BBWM has not yet develop a policy to account for New Yield in the Beaumont Basin.

**Table 3-8
Appropriator's Production Right**

Calendar Year	Operating Yield		Water Acquired		New Yield ⁽¹⁾		Water From Storage	Appropriator 's Production Right
	Temporary Surplus Water	Appropriative Water Right	Transfer of Overlying Water Rights to Appropriator	Transfers Between Appropriators /SGPWA	Capture Available Stream Flow	Increase Capture of Rising Water		
<i>Beaumont Cherry Valley Water District</i>								
2006	6,802.0	0.0	0.0	0.0	0.0	0.0	0.0	6,802.0
2007	6,802.0	0.0	0.0	1,500.0	0.0	0.0	0.0	8,302.0
2008	6,802.0	801.0	0.0	2,500.0	0.0	0.0	0.0	10,103.0
2009	6,802.0	2,156.8	0.0	2,000.0	0.0	0.0	0.0	10,958.8
2010	6,802.0	2,277.4	0.0	0.0	0.0	0.0	0.0	9,079.4
2011	6,802.0	2,148.1	0.0	3,500.0	0.0	0.0	0.0	12,450.1
2012	6,802.0	2,271.5	0.0	0.0	0.0	0.0	0.0	9,073.5
2013	3,401.0	2,456.4	0.0	0.0	0.0	0.0	0.0	5,857.4
2014	0.0	2,470.6	0.0	0.0	0.0	0.0	3,929.9	6,400.5
2015	0.0	2,836.9	0.0	0.0	0.0	0.0	3,362.8	6,199.8
2016	0.0	2,839.1	0.0	0.0	0.0	0.0	0.0	2,839.1
2017	0.0	2,790.6	0.0	0.0	0.0	0.0	0.0	2,790.6
2018	0.0	2,804.2	0.0	0.0	0.0	0.0	0.0	2,804.2
2019	0.0	1,904.9	0.0	0.0	0.0	0.0	0.0	1,904.9
2020	0.0	2,059.4	0.0	0.0	0.0	0.0	0.0	2,059.4
2021	0.0	2,074.3	0.0	447.8	0.0	0.0	7,619.4	10,141.5
2022	0.0	1,826.3	0.0	0.0	0.0	0.0	8,888.1	10,714.4
2023	0.0	1,904.2	0.0	0.0	0.0	0.0	0.0	1,904.2
2024	0.0	2,067.2	0.0	0.0	0.0	0.0	0.0	2,067.2
2025	0.0	1,952.8	0.0	0.0	0.0	0.0	0.0	1,952.8

(1) - BBWM has not yet develop a policy to account for New Yield in the Beaumont Basin.

**Table 3-8
Appropriator's Production Right**

Calendar Year	Operating Yield		Water Acquired		New Yield ⁽¹⁾		Water From Storage	Appropriator 's Production Right
	Temporary Surplus Water	Appropriative Water Right	Transfer of Overlying Water Rights to Appropriator	Transfers Between Appropriators /SGPWA	Capture Available Stream Flow	Increase Capture of Rising Water		
City of Beaumont								
2006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2020	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2021	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2022	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2023	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2024	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2025	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(1) - BBWM has not yet develop a policy to account for New Yield in the Beaumont Basin.

**Table 3-8
Appropriator's Production Right**

Calendar Year	Operating Yield		Water Acquired		New Yield ⁽¹⁾		Water From Storage	Appropriator 's Production Right
	Temporary Surplus Water	Appropriative Water Right	Transfer of Overlying Water Rights to Appropriator	Transfers Between Appropriators /SGPWA	Capture Available Stream Flow	Increase Capture of Rising Water		
South Mesa Water Company								
2006	1,996.0	0.0	0.0	0.0	0.0	0.0	0.0	1,996.0
2007	1,996.0	0.0	0.0	-3,000.0	0.0	0.0	1,669.8	665.8
2008	1,996.0	235.2	0.0	-2,500.0	0.0	0.0	739.7	470.9
2009	1,996.0	633.2	0.0	-2,000.0	0.0	0.0	0.0	629.2
2010	1,996.0	668.6	0.0	0.0	0.0	0.0	0.0	2,664.6
2011	1,996.0	630.6	0.0	-3,500.0	0.0	0.0	1,293.3	419.9
2012	1,996.0	666.9	0.0	0.0	0.0	0.0	0.0	2,662.9
2013	998.0	721.1	0.0	0.0	0.0	0.0	0.0	1,719.1
2014	0.0	725.3	0.0	0.0	0.0	0.0	0.0	725.3
2015	0.0	832.9	0.0	0.0	0.0	0.0	0.0	832.9
2016	0.0	833.5	0.0	0.0	0.0	0.0	0.0	833.5
2017	0.0	819.3	0.0	0.0	0.0	0.0	0.0	819.3
2018	0.0	823.2	0.0	0.0	0.0	0.0	0.0	823.2
2019	0.0	559.2	0.0	0.0	0.0	0.0	0.0	559.2
2020	0.0	604.6	0.0	0.0	0.0	0.0	0.0	604.6
2021	0.0	609.0	0.0	0.0	0.0	0.0	0.0	609.0
2022	0.0	536.2	0.0	0.0	0.0	0.0	38.5	574.7
2023	0.0	559.0	0.0	0.0	0.0	0.0	0.0	559.0
2024	0.0	606.9	0.0	0.0	0.0	0.0	0.0	606.9
2025	0.0	573.3	0.0	0.0	0.0	0.0	0.0	573.3

(1) - BBWM has not yet develop a policy to account for New Yield in the Beaumont Basin.

**Table 3-8
Appropriator's Production Right**

Calendar Year	Operating Yield		Water Acquired		New Yield ⁽¹⁾		Water From Storage	Appropriator 's Production Right
	Temporary Surplus Water	Appropriative Water Right	Transfer of Overlying Water Rights to Appropriator	Transfers Between Appropriators /SGPWA	Capture Available Stream Flow	Increase Capture of Rising Water		
<i>Yucaipa Valley Water District</i>								
2006	2,173.0	0.0	0.0	0.0	0.0	0.0	0.0	2,173.0
2007	2,173.0	0.0	0.0	0.0	0.0	0.0	0.0	2,173.0
2008	2,173.0	255.9	0.0	0.0	0.0	0.0	0.0	2,428.9
2009	2,173.0	689.0	0.0	0.0	0.0	0.0	0.0	2,862.0
2010	2,173.0	727.5	0.0	0.0	0.0	0.0	0.0	2,900.5
2011	2,173.0	686.2	0.0	0.0	0.0	0.0	0.0	2,859.2
2012	2,173.0	725.6	0.0	0.0	0.0	0.0	0.0	2,898.6
2013	1,086.5	784.7	0.0	0.0	0.0	0.0	0.0	1,871.2
2014	0.0	789.2	0.0	0.0	0.0	0.0	409.2	1,198.5
2015	0.0	906.3	0.0	0.0	0.0	0.0	0.0	906.3
2016	0.0	907.0	0.0	0.0	0.0	0.0	0.0	907.0
2017	0.0	891.5	0.0	0.0	0.0	0.0	0.0	891.5
2018	0.0	895.8	0.1	0.0	0.0	0.0	0.0	895.9
2019	0.0	608.5	64.0	0.0	0.0	0.0	0.0	672.5
2020	0.0	657.9	194.8	0.0	0.0	0.0	555.0	1,407.7
2021	0.0	662.7	366.8	0.0	0.0	0.0	199.0	1,228.5
2022	0.0	583.4	478.3	0.0	0.0	0.0	0.0	1,061.7
2023	0.0	608.3	478.3	0.0	0.0	0.0	0.0	1,086.6
2024	0.0	660.4	478.3	0.0	0.0	0.0	0.0	1,138.6
2025	0.0	623.8	478.3	0.0	0.0	0.0	0.0	1,102.1

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**Table 3-8
Appropriator's Production Right**

Calendar Year	Operating Yield		Water Acquired		New Yield ⁽¹⁾		Water From Storage	Appropriator 's Production Right
	Temporary Surplus Water	Appropriative Water Right	Transfer of Overlying Water Rights to Appropriator	Transfers Between Appropriators /SGPWA	Capture Available Stream Flow	Increase Capture of Rising Water		
Totals - All Appropriators								
2006	16,000.0	0.0	0.0	0.0	0.0	0.0	0.0	16,000.0
2007	16,000.0	0.0	0.0	0.0	0.0	0.0	1,669.8	17,669.8
2008	16,000.0	1,884.2	0.0	0.0	0.0	0.0	739.7	18,623.9
2009	16,000.0	5,073.7	0.0	0.0	0.0	0.0	0.0	21,073.7
2010	16,000.0	5,357.4	0.0	0.0	0.0	0.0	0.0	21,357.4
2011	16,000.0	5,053.3	0.0	0.0	0.0	0.0	1,293.3	22,346.5
2012	16,000.0	5,343.5	0.0	0.0	0.0	0.0	0.0	21,343.5
2013	8,000.0	5,778.4	0.0	0.0	0.0	0.0	0.0	13,778.4
2014	0.0	5,811.8	0.0	0.0	0.0	0.0	4,489.5	10,301.3
2015	0.0	6,673.5	0.0	0.0	0.0	0.0	3,362.8	10,036.4
2016	0.0	6,678.6	0.0	0.0	0.0	0.0	0.0	6,678.6
2017	0.0	6,564.6	0.0	0.0	0.0	0.0	0.0	6,564.6
2018	0.0	6,596.5	0.1	0.0	0.0	0.0	0.0	6,596.6
2019	0.0	4,481.0	64.0	0.0	0.0	0.0	462.9	5,007.9
2020	0.0	4,844.4	194.8	0.0	0.0	0.0	1,331.1	6,370.3
2021	0.0	4,879.6	366.8	507.8	0.0	0.0	9,892.9	15,647.1
2022	0.0	4,296.1	478.3	0.0	0.0	0.0	11,135.1	15,909.4
2023	0.0	4,479.5	478.3	0.0	0.0	0.0	0.0	4,957.8
2024	0.0	4,862.7	478.3	0.0	0.0	0.0	0.0	5,341.0
2025	0.0	4,593.7	478.3	0.0	0.0	0.0	0.0	5,072.0

(1) - BBWM has not yet develop a policy to account for New Yield in the Beaumont Basin.

**Table 3-9
Consolidation of Storage Accounts**

Calendar Year	Appropriator's Production Right	Appropriator's Annual Production	Water Supply Deficit	Supplemental Water				Withdrawals from Storage	Ending Storage Account Balance
				SWP Water Recharge	Recycled Water Recharge	Local Imported Water Recharge	Stormwater Recharge		
<i>City of Banning - Authorized Storage Account: 80,000 ac-ft</i>									
2006	5,029.0	1,827.5	0.0	0.0	0.0	0.0	0.0	0.0	8,393.9
2007	6,529.0	2,772.6	0.0	0.0	0.0	0.0	0.0	0.0	12,150.3
2008	5,621.2	2,933.6	0.0	1,534.0	0.0	0.0	0.0	0.0	16,371.9
2009	6,623.7	2,095.0	0.0	2,741.2	0.0	0.0	0.0	0.0	23,641.8
2010	6,712.8	1,143.6	0.0	1,338.0	0.0	0.0	0.0	0.0	30,549.0
2011	6,617.2	1,341.7	0.0	800.0	0.0	0.0	0.0	0.0	36,624.5
2012	6,708.5	1,038.3	0.0	1,200.0	0.0	0.0	0.0	0.0	43,494.7
2013	4,330.6	2,100.7	0.0	1,200.0	0.0	0.0	0.0	0.0	46,924.7
2014	1,977.1	2,585.1	608.0	608.0	0.0	0.0	0.0	150.4	46,774.2
2015	2,097.5	1,678.3	0.0	694.0	0.0	0.0	0.0	0.0	47,887.5
2016	2,099.1	1,472.7	0.0	1,477.0	0.0	0.0	0.0	0.0	49,990.8
2017	2,063.2	1,443.5	0.0	1,350.0	0.0	0.0	0.0	0.0	51,960.6
2018	2,073.3	2,260.8	187.5	500.0	0.0	0.0	0.0	0.0	52,273.1
2019	1,871.3	2,121.3	250.0	250.0	0.0	0.0	0.0	462.9	51,810.1
2020	2,298.6	2,548.6	250.0	250.0	0.0	0.0	0.0	776.0	51,034.1
2021	3,668.1	3,668.1	0.0	0.0	0.0	0.0	0.0	2,074.5	48,959.6
2022	3,558.7	3,593.7	35.0	35.0	0.0	0.0	0.0	2,208.4	46,751.2
2023	1,407.9	1,326.9	0.0	1,000.0	0.0	0.0	0.0	0.0	47,832.2
2024	1,528.4	1,503.0	0.0	1,500.0	0.0	0.0	0.0	0.0	49,357.6
2025	1,443.8	2,544.2	1,100.4	1,750.0	0.0	0.0	0.0	0.0	50,007.1

**Table 3-9
Consolidation of Storage Accounts**

Calendar Year	Appropriator's Production Right	Appropriator's Annual Production	Water Supply Deficit	Supplemental Water				Withdrawals from Storage	Ending Storage Account Balance
				SWP Water Recharge	Recycled Water Recharge	Local Imported Water Recharge	Stormwater Recharge		
<i>Beaumont Cherry Valley Water District - Authorized Storage Account: 80,000 ac-ft</i>									
2006	6,802.0	9,054.1	2,252.1	3,501.0	0.0	0.0	0.0	0.0	842.5
2007	8,302.0	11,383.3	3,081.3	4,501.0	0.0	0.0	0.0	0.0	2,262.2
2008	10,103.0	10,710.5	607.5	2,399.0	0.0	0.0	0.0	0.0	4,053.7
2009	10,958.8	10,133.9	0.0	2,741.2	0.0	0.0	0.0	0.0	7,619.8
2010	9,079.4	9,421.3	341.9	5,727.0	0.0	0.0	0.0	0.0	13,004.9
2011	12,450.1	9,431.3	0.0	7,979.0	0.0	0.0	0.0	0.0	24,002.8
2012	9,073.5	10,162.0	1,088.5	7,783.0	0.0	0.0	0.0	0.0	30,697.3
2013	5,857.4	11,097.4	5,240.0	7,403.0	0.0	0.0	0.0	0.0	32,860.3
2014	6,400.5	10,805.5	4,405.0	4,405.0	0.0	0.0	0.0	3,929.9	28,930.4
2015	6,199.8	8,972.8	2,773.0	2,773.0	0.0	0.0	0.0	3,362.8	25,567.6
2016	2,839.1	10,159.8	7,320.7	9,319.0	0.0	0.0	0.0	0.0	27,565.9
2017	2,790.6	11,650.7	8,860.1	13,590.0	0.0	0.0	0.0	0.0	32,295.8
2018	2,804.2	12,209.2	9,405.0	12,121.0	0.0	0.0	0.0	0.0	35,011.7
2019	1,904.9	11,140.9	9,236.0	13,645.0	0.0	0.0	0.0	0.0	39,420.8
2020	2,059.4	12,539.2	10,479.9	11,005.0	0.0	0.0	0.0	0.0	39,945.9
2021	10,141.5	12,609.5	2,468.0	2,468.0	0.0	0.0	0.0	7,619.4	32,326.5
2022	10,714.4	12,490.4	1,776.0	1,776.0	0.0	0.0	0.0	8,888.1	23,438.4
2023	1,904.2	10,213.3	8,309.0	18,000.0	0.0	0.0	0.0	0.0	33,129.4
2024	2,067.2	10,883.3	8,816.1	14,000.0	0.0	0.0	0.0	0.0	38,313.3
2025	1,952.8	10,996.0	9,043.2	16,200.0	0.0	0.0	0.0	0.0	45,470.0

**Table 3-9
Consolidation of Storage Accounts**

Calendar Year	Appropriator's Production Right	Appropriator's Annual Production	Water Supply Deficit	Supplemental Water				Withdrawals from Storage	Ending Storage Account Balance
				SWP Water Recharge	Recycled Water Recharge	Local Imported Water Recharge	Stormwater Recharge		
<i>Morongo Band of Mission Indians - Authorized Storage Account: 20,000 ac-ft</i>									
2013		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2014		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2015		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2016		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2017		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2018		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2019		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2020		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2021		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2022		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2023		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2024		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2025		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<i>San Gorgonio Pass Water Agency - Authorized Storage Account: 10,000 ac-ft</i>									
2018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2019	0.0	0.0	0.0	257.8	0.0	0.0	0.0	257.8	257.8
2020	0.0	0.0	0.0	214.0	0.0	0.0	0.0	214.0	471.8
2021	0.0	0.0	0.0	36.0	0.0	0.0	0.0	-471.8	0.0
2022	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.6
2023	0.0	0.0	0.0	893.0	0.0	0.0	0.0	0.0	893.6
2024	0.0	0.0	0.0	701.0	0.0	0.0	0.0	0.0	1,594.6
2025	0.0	0.0	0.0	924.0	0.0	0.0	0.0	0.0	2,518.6

**Table 3-9
Consolidation of Storage Accounts**

Calendar Year	Appropriator's Production Right	Appropriator's Annual Production	Water Supply Deficit	Supplemental Water				Withdrawals from Storage	Ending Storage Account Balance
				SWP Water Recharge	Recycled Water Recharge	Local Imported Water Recharge	Stormwater Recharge		
Totals - All Agencies with Storage Accounts									
2006	16,000.0	13,524.9	2,252.1	3,501.0	0.0	0.0	0.0	0.0	15,538.3
2007	17,669.8	16,504.6	3,081.3	4,501.0	0.0	0.0	0.0	1,669.8	19,534.8
2008	18,623.9	14,687.0	607.5	3,933.0	0.0	0.0	0.0	739.7	26,665.0
2009	21,073.7	13,115.6	0.0	5,482.4	0.0	0.0	0.0	0.0	40,105.6
2010	21,357.4	11,642.3	341.9	7,065.0	0.0	0.0	0.0	0.0	56,885.6
2011	22,346.5	11,727.0	0.0	8,779.0	0.0	0.0	0.0	1,293.3	74,990.9
2012	21,343.5	12,348.9	1,088.5	8,983.0	0.0	0.0	0.0	0.0	92,968.6
2013	13,778.4	14,537.2	5,240.0	8,603.0	0.0	0.0	0.0	0.0	100,812.7
2014	10,301.3	15,062.8	5,013.0	5,013.0	0.0	0.0	0.0	4,489.5	96,574.8
2015	10,036.4	11,087.4	2,773.0	3,467.0	0.0	0.0	0.0	3,362.8	95,628.0
2016	6,678.6	11,989.7	7,320.7	10,796.0	0.0	0.0	0.0	0.0	101,112.9
2017	6,564.6	13,462.4	8,860.1	14,940.0	0.0	0.0	0.0	0.0	109,155.0
2018	6,596.6	15,026.1	9,592.6	12,621.0	0.0	0.0	0.0	0.0	113,346.5
2019	5,007.9	14,121.5	9,486.0	14,152.8	0.0	0.0	0.0	720.7	117,922.8
2020	6,370.3	16,724.7	10,729.9	11,469.0	0.0	0.0	0.0	1,545.1	117,706.4
2021	15,647.1	17,972.1	2,468.0	2,504.0	0.0	0.0	0.0	9,421.1	107,484.6
2022	15,909.4	17,345.3	1,811.0	1,811.6	0.0	0.0	0.0	11,135.1	96,725.3
2023	4,957.8	12,709.1	8,309.0	20,393.0	0.0	0.0	0.0	0.0	109,366.9
2024	5,341.0	13,596.3	8,816.1	18,201.0	0.0	0.0	0.0	0.0	119,312.6
2025	5,072.0	14,800.7	10,143.6	18,874.0	0.0	0.0	0.0	0.0	128,457.9

Table 3-10

Imported Water Recharge by Location and Deliveries to Water Agencies during Water Year 2025

Description	2024			2025									Total Deliveries
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
Delivery Location													
Brookside East	860	739	495	10	397	724	572	126	1,056	922	820	885	7,606
Noble Creek Connection	646	797	1,504	43	637	1,582	1,401	1,389	996	867	1,312	1,573	12,747
Total:	1,506	1,536	1,999	53	1,034	2,306	1,973	1,515	2,052	1,789	2,132	2,458	20,353
Delivery to Agencies													
BCVWD	646	5,480	404	43	637	1,582	1,401	1,389	3,496	867	1,312	1,573	18,830
City of Banning		500							750				1,250
YVWD		1,000											1,000
TOTAL	646	6,980	404	43	637	1,582	1,401	1,389	4,246	867	1,312	1,573	21,080
SGPWA Storage Balance⁽¹⁾													
Storage Balance	5,444	-	1,595	1,605	2,002	2,726	3,298	3,424	1,230	2,152	2,972	3,857	

Section 4

Water Quality Conditions

The purpose of this section is to document the water quality conditions in the Beaumont Basin during the 2021-2025 reporting period. TDS and nitrate concentrations in the basin are compared against groundwater quality objectives for anti-degradation and maximum benefit as established by the Regional Board for TDS and Nitrate (as N) in the Beaumont Management Zone (BMZ). In addition, water quality concentrations for a number of compounds are compared against Federal and State Drinking Water Standards. Figure 4-1 depicts all the wells that have groundwater quality data for the reporting period.

There are two main sources of data used in the assessment of water quality conditions in the Beaumont Basin and nearby surroundings: namely, the California Department of Public Health database, as part of the Groundwater Ambient Monitoring and Assessment (GAMA) program, and the Beaumont Management Zone Maximum Benefit Monitoring Program. The GAMA database obtained from the State Water Resources Control Board focuses on drinking water sources; it contains 4,254 water quality results for the 2021-2025 reporting period. Water quality from the BMZ Maximum Benefit Monitoring Program was also available for the same period.

4.1 Comparison with Management Zone Objectives

Groundwater quality objectives for anti-degradation and maximum benefit have been established by the Regional Board for TDS and Nitrate (as N) in the BMZ, which encompasses portions of the Beaumont Basin, the Singleton and South Beaumont basins, and limited portions of Edgar Canyon above the Banning Fault as illustrated in Figure 4-1. The anti-degradation objectives are based on the historic ambient TDS and Nitrate (as N) concentration of 230 mg/L and 1.5 mg/L respectively.

Maximum benefit objectives were adopted by the Regional Board in 2004 at the request of STWMA and the City of Beaumont to allow for recharge of imported water and the reuse of recycled water. The maximum benefit objectives, set to 330 mg/L for TDS and 5.0 mg/L for Nitrate (as N), are relatively low compared to other basins and are protective of the beneficial uses of the Basin groundwater. According to the Basin Plan, salt mitigation will be required once the ambient TDS and Nitrate (as N) concentration exceeds the BMZ maximum benefit objectives.

4.1.1 Total Dissolved Solids

Figure 4-2 shows the maximum TDS concentrations for 59 wells measured within and in the vicinity of the Beaumont Basin. Concentrations used for most wells were based on the 2021-2025 reporting period; however, historical concentrations are used for a limited number of wells that did not have water quality information during this period. A total of 31 wells are located inside the Basin, 17 in the Singleton Basin / Edgar Canyon and the remaining 11 in the South Beaumont Basin.

TDS concentrations for wells owned by Appropriators within the basin ranged from 150 to 330 mg/L and averaged 224 mg/L while maximum concentrations average slightly higher at 231 mg/L. The average of maximum concentrations of all wells owned by Appropriators is 24 mg/L lower than the average maximum TDS concentration reported in the 2008-11 Engineering Report of 255 mg/L. Of the 12 overlying wells, TDS concentrations ranged from 100 to 400 mg/L and averaged 232 mg/L. Maximum concentrations averaged 247 mg/L, 16 mg/L higher than the average of maximum values for appropriator’s wells. There are four additional wells with reported water quality information in the Beaumont Basin; these wells have an average TDS concentration of 264 mg/L and an average maximum concentration of 278 mg/L. The average TDS for all 31 groundwater wells in the Beaumont Basin for the reporting period was 232 mg/l, four mg/L higher than the 2020-24 reporting period of 228 mg/L documented in the 2024 Consolidated Annual and Engineering Report.

In the Singleton Basin / Edgar Canyon area, TDS concentrations ranged from 220 to 410 mg/L and averaged 271 mg/L. Maximum concentrations averaged 279 mg/L. The average TDS concentration in the Singleton Basin was 39 mg/L higher than in the Beaumont Basin.

In the South Beaumont Basin, TDS concentrations ranged from 180 to 870 mg/L and averaged 442 mg/L. Maximum concentrations averaged 493 mg/L for all wells in this basin.

Average and maximum TDS concentrations for all sampled wells within the basin and surroundings are as follows:

Well Classification	Count	Samples	Average Concentration	Avg Max Concentration
Beaumont Groundwater Basin				
Appropriators	15	24	224	231
Overliers	12	38	232	247
Others	4	22	264	278
Total	31	84	232	243
Singleton Basin / Edgar Canyon Area				
All Wells	17	38	271	279
South Beaumont Basin				
All Wells	11	63	442	493

Of the 27 wells owned by Appropriators and overlayers, 14 wells had a maximum concentration at or below the anti-degradation objective of 230 mg/L, 11 wells were between the anti-degradation and at or below the maximum benefit objective of 330 mg/L. There were two wells above the maximum benefit objective: namely, SMHOA No. 1, SMHOA No. 2. BCVWD No. 16 was at the objective. None of the production wells samples exceeded the secondary

federal or state drinking water standard for TDS (500 mg/L). BCVWD wells along Edgar Canyon were not included in the analysis of domestic wells.

In the Singleton Basin / Edgar Canyon area, there is only one well with a maximum TDS concentration at or below the anti-degradation objective, 13 wells had maximum TDS concentrations between the anti-degradation and maximum benefit objective, and the two remaining wells exceeded the maximum objective, no wells exceeded the secondary MCL.

In the South Beaumont Basin, none of the wells had a maximum TDS concentration below the anti-degradation objective, three wells were below the maximum objective, and the remaining eight wells exceeded this objective. Four wells in this basin exceeded the Secondary MCL. Most of the wells with the highest TDS concentrations are located in the South Beaumont Basin.

4.1.2 Nitrate as N

Figure 4-3 shows the maximum Nitrate concentrations for 59 wells measured within and in the vicinity of the Beaumont Basin wells during the 2021-2025 reporting period. A total of 31 wells are located inside the basin, 17 wells in the Singleton Basin / Edgar Canyon and the remaining 11 in the South Beaumont Basin.

Average Nitrate concentrations for wells owned by Appropriators within the basin ranged 0.5 mg/L to 6.7 mg/L and averaged 2.01 mg/L. Maximum concentrations averaged 2.46 mg/L. Of the 11 overlying wells, average concentrations ranged from 0.25 mg/L to 6.90 mg/L and averaged 2.21 mg/L. Maximum concentrations for Overlying wells averaged 2.77 mg/L, 0.31 mg/L higher than Appropriator's wells. There are four additional wells with reported water quality information in the Beaumont Basin; these wells have an average Nitrate concentration of 1.11 mg/L and an average maximum concentration of 1.20 mg/L. The average Nitrate for all 31 groundwater wells in the Beaumont Basin for the reporting period was 2.19 mg/l while the average maximum Nitrate concentration was 2.61 mg/L.

In the Singleton Basin / Edgar Canyon area, Nitrate concentrations ranged from 0.61 mg/L to 15.0 mg/L and averaged 3.18 mg/L. Average maximum concentrations for all wells was 4.07 mg/L.

In the South Beaumont Basin, Nitrate concentrations ranged from 3.1 to 22.0 mg/L and averaged 9.58 mg/L. Maximum concentrations for all wells in this basin averaged 10.68 mg/L.

Of the 27 wells owned by Appropriators and overlies, six wells had a maximum concentration below the anti-degradation objective of 1.5 mg/L, 16 wells were between this objective and maximum benefit objective of 5.0 mg/L; five wells exceeded the maximum benefit objective for the BMZ. None of the production wells sampled exceeded the primary federal or state drinking water standard for Nitrate of 10 mg/L.

In the Singleton Basin / Edgar Canyon area, three wells had a maximum concentration below the anti-degradation objective, another eight wells had concentrations between the anti-

degradation and maximum objective while six wells exceeded the maximum benefit objective of 5.0 mg/L. Two wells exceeded drinking water standards.

In the South Beaumont Basin, five wells had a maximum concentration below the maximum objective while the remaining six exceeded the maximum objective and drinking water standards. There were no wells with nitrate concentrations below the anti-degradation limit.

Average and maximum Nitrate concentrations for all sampled wells within the Beaumont Basin area are as follows:

Well Classification	No. of Wells	Samples	Average Concentration	Avg Max Concentration
Beaumont Groundwater Basin				
Appropriators	17	199	2.01	2.46
Overliers	12	109	2.77	3.28
Other	4	22	1.10	2.20
Total	31	411	2.19	2.61
Singleton Basin / Edgar Canyon Area				
All Wells	17	71	3.18	4.07
South Beaumont Basin				
All Wells	11	63	9.58	10.68

4.1.3 Nitrate Studies in the Beaumont Management Zone

Rising nitrate concentrations observed in 2005 along the northern portion of the Basin prompted STWMA to launch an investigation in 2006 to determine the potential impact on groundwater quality from on-site waste disposal systems (OSWDS) commonly used in the Cherry Valley Community of Interest (CVCOI). STWMA retained the services of Wildermuth Environmental Inc. (WEI) to conduct this study.

The results of this study were disputed by the Beaumont Board of Supervisors' Groundwater Quality Evaluation Committee (GQEC) as they identified potential shortcomings in sampling design and project execution. The GQEC recommended that an independent assessment be conducted. They recommended that the second study should expand the study area, consider reasonable build-out projections and other sources of groundwater contamination. This independent study was conducted by scientist at the University of California, Riverside and funded as a Supplemental Environmental Project by the State Water Resources Control Board. The results of this study were published in early 2012. A brief summary and their findings are presented below for information purposes only.

4.1.3.1 Summary of Wildermuth Environmental Inc. Study

This study is titled: “*Water Quality Impacts from On-Site Waste Disposal Systems in the Cherry Valley Community of Interest*” (WEI, 2007). The bases for this study include the following:

- ✓ A review of scientific literature,
- ✓ A field study to estimate nitrogen concentrations in soil water below selected OSWDS,
- ✓ A tracer study of nitrogen isotope and pharmaceutical and personal care products (PPCP) to confirm the presence of effluent from OSWDS,
- ✓ An estimation of current and future discharge from OSWDS to groundwater,
- ✓ A planning-level evaluation of basin impacts using the groundwater flow and nitrate transport model, and
- ✓ A review of the threshold used in California to compel sewerage when OSWDS contaminate or threaten to contaminate groundwater

The results of the investigation are summarized as follows:

- ✓ Parcel density in the CVCOI violates the minimum half-acre parcel size requirement of the Regional Board to be on a septic system.
- ✓ Water produced from high nitrate wells in the area has a nitrogen isotopic signature and contain PPCPs consistent with discharge from OSWDS.
- ✓ Present contribution of OSWDS discharges is estimated at 665 ac-ft/yr.; this represents about five percent of total recharge to the BMZ. At ultimate buildout, there will be between 4,900 to 8,800 OSWDS in the CVCOI. Discharge contribution from these OSWDS is estimated between 1,700 and 3,100 ac-ft/yr. representing 13 to 21 percent of total recharge to the BMZ.
- ✓ At 4,900 lots, the contributions from OSWDS will significantly impact water quality to the point that well head treatment will be required at certain well locations in order to meet drinking water standards. At 8,800 lots, the contributions from OSWDS will rendered the entire BMZ non-potable.
- ✓ Left unmitigated, OSWDS discharges will contribute enough nitrate to exceed the Basin Plan objectives for the BMZ.
- ✓ There is sufficient evidence of groundwater contamination by OSWDS to warrant the Regional Board to issue a prohibition on new OSWDS in the CVCOI.

According to WEI, as a result of this investigation, the County of Riverside issued a moratorium, followed by a permanent prohibition on the installation of septic systems in Cherry Valley unless the septic system is designed to remove at least 50 percent of the nitrogen in the wastewater. In 2009, the County passed a new ordinance that removed the prohibition on conventional OSWDS. WEI further indicates that the Regional Board initiated a process in

2009 that may lead to amending the Basin Plan prohibiting conventional OSWDS and regulating the discharges to meet antidegradation objectives.

4.1.3.2 Summary of University of California, Riverside Study

This study is titled: *“Water Quality Assessment of the Beaumont Management Zone: Identifying Sources of Groundwater Contamination Using Chemical and Isotopic Tracers” (UCR, 2012).*

The study divides the BMZ into four distinct zones; their location is depicted in Figure 2 of the UCR report (not included here). A brief description of the zones is as follows:

Zone 1 – Region Influenced by Wastewater Treatment Plant Effluent. This zone occupies the southernmost area of the BMZ. Water quality in this zone is influenced by effluent from the City of Beaumont wastewater treatment plant.

Zone 2 – Wildland and Low-Density Septic Disposal Region. This zone is defined as the area uphill of Edgar Canyon to the north of Cherry Valley. Water quality in this area had low to moderate concentrations of TDS and nitrate.

Zone 3 – Urban Region with On-site Septic Disposal Systems. This zone overlies the Cherry Valley area including the area around the Noble Creek and Little San Gorgonio Spreading Ponds. Human waste from homes and business in this zone is primarily disposed of in on-site waste disposal systems.

Zone 4 – Urban Region with Consolidate Sewer System. Zone 4 comprises those portions of the City of Beaumont utilizing a municipal wastewater system.

The UCR report attempted to answer a series of questions; the questions and a summary of their response is provided below. It is our understanding that this report was received and filed with no further action considered at the time of completion.

1.- Can different groundwater regions within the BMZ be defined using isotope, PPCP, and general chemical parameters?

According to the study,

- ✓ Zone 1 was characterized by relatively high levels of PPCPs and it has the highest likelihood for nitrate contamination from human waste.
- ✓ Zone 2 had detectable levels of some PPCPs. Septic contributions to groundwater are relatively minor.
- ✓ Zone 3 had several wells with clear signs of contamination by septic systems. Groundwater in the central portion of Cherry Valley appeared to be more strongly affected by septic systems than on the periphery of Cherry Valley.
- ✓ Zone 4 shows the fewest signs of human waste as most homes are served by consolidated sewer systems.

1A.- Do areas with septic systems have different chemistry than areas with sewers?

The report indicates that there are statistically significant differences between groundwater in areas with septic systems and groundwater where sewer service is available. The concentrations of PPCPs, TDS, Nitrate-N, the sum of base cations, Boron, and Isotopes of Nitrate were all significantly higher in areas with septic systems than in areas with sewer service.

1B.- Do areas where groundwater recharge with water from the State Water Project or wastewater treatment plant effluent have different chemistry from other areas?

Strong evidence of nitrate deriving from human waste was detected in Zone 1 as well as strong biological attenuation of nitrate transported in groundwater.

2.- What sources contribute nitrate to groundwater of the BMZ?

The report indicates that in Zone 1 the isotopes of nitrate values overlap those expected for human or animal waste. Similarly, in Zone 3 the isotopic composition of water suggests a high probability of inputs of nitrate from human or animal waste. The presence of PPCPs in most samples indicates the possibility that septic systems are contaminating groundwater within the central part of Cherry Valley.

3.- How much nitrate from human waste is making its way into the groundwater of the BMZ?

The report documents the following findings:

- ✓ Mixing models suggest that between 18 to 30 percent of the nitrate in central Cherry Valley groundwater is derived from septic systems.
- ✓ If septic systems were completely phased out, nitrate concentrations in central Cherry Valley groundwater could decline by 30 percent once a steady state condition is achieved. The time to reach a steady state is anticipated to be shorter than in other portions of the BMZ due to relatively high rates of recharge in Zone 3.
- ✓ Mass balance calculations show that nitrate-nitrogen inputs from septic systems is one of the largest inputs of nitrogen to groundwater in the BMZ.
- ✓ If the waste from septic tanks were to be conveyed to the City of Beaumont WWTP, about 30 percent of the current input of nitrate from human waste to groundwater would be removed.

4.2 Comparison with Federal and State Drinking Water Standards

The California Department of Health Services (CDPH) maintains an active water quality database of all public and private drinking water wells throughout the state. This database was recently incorporated into the Groundwater Ambient Monitoring and Assessment (GAMA) program. The GAMA program is California's comprehensive groundwater quality monitoring program that was created by the State Water Resources Control Board in 2000. The program was later expanded by Assembly Bill 559, also known as the Groundwater Quality Monitoring Act of 2001.

Chemical information for drinking water sources is grouped in the GAMA program in various databases depending on the year(s) of information desired. This annual report documents water quality conditions for the 2021-25 period. To gather pertinent information, the 2018-22 and 2023-Present databases in the State of California Water Resources Control Board website were accessed. Accessing the water quality information in the GAMA program has been significantly enhanced compared to previous databases run through the CDPH website; it is better organized and easier to access and compile. The 2020 and earlier annual reports documented water quality information using databases from the CDPH website.

The objective of this water quality analysis was to determine whether any of the potable wells in the Beaumont Basin exceeded the Primary or Secondary Federal and State standards or the Notification Levels (NL) set by the state. Federal standards are set by the United States Environmental Protection Agency (USEPA). These standards determine the maximum concentration allowable for a specific contaminant in drinking water. States have the option to adopt more stringent standards or develop standards regulations for contaminants that the federal government has not acted on. In California the State Water Resources Control Board's Division of Drinking Water is responsible for regulated public water systems that provide drinking water across the State and for establishing drinking water standards for contaminants that threaten our water supply.

Primary standards at the federal and state level are enforceable criteria that have been established to protect the public against consumption of drinking water contaminants that present a risk to human health. Secondary standards are not enforceable; they have been established for aesthetic qualities of water, such as taste, color, and others. Contaminants with secondary MCL are not considered to present a risk to human health at the established maximum level. Notification levels are not enforceable standards; however, they require that municipal water suppliers notify the public if the NL for a chemical has been exceeded.

A total of 4,254 water quality results were extracted from the GAMA database for all domestic production wells in the Beaumont Basin. Results were obtained for 31 minerals and inorganic chemicals and over 108 organic compounds sampled between 2021 and 2025. The results of the analysis indicate that not a single well exceeded the primary Federal MCL for any of the analytes tested. However, the State MCL for Hexavalent Chromium has been exceeded by several wells (See discussion later in this section).

Appendix G contains summary statistics of the analytical results for the 2021-2025 period for selected chemicals that have a federal or state drinking water standard as reported in the GAMA database.

4.2.1 Nitrate (as NO₃) and Total Dissolved Solids (TDS)

A total of 303 samples were collected and analyzed for Nitrate; 78 of these samples were also analyzed for TDS. The current primary MCL for Nitrate (as NO₃) is 45 ppm (mg/L); the secondary MCL for TDS is 500 mg/L. Table 4-1 presents a summary of Nitrate and TDS concentration for all 22 domestic wells in the Beaumont Basin and the two wells owned and operated by the Oak Valley Golf Course.

**Table 4-1
Nitrate (NO₃) and TDS Summary for Domestic Wells (2020-24)**

Agency/ Well No.	Nitrate as NO ₃			Total Dissolved Solids (TDS)		
	Count	Avg	Max	Count	Ave	Max
City of Banning						
Well C-2A	6	8.1	9.0	1	210	210
Well C-3	5	8.0	9.0	1	180	180
Well C-4	5	6.1	6.8	1	180	180
Well M-3	6	10.6	12.2	2	260	260
Beaumont Cherry Valley Water District						
Well 03	3	3.6	4.4	1	180	180
Well 16	55	21.9	30.2	1	330	330
Well 21	51	11.3	14.9	2	290	320
Well 22	5	7.2	9.0	2	215	230
Well 23	5	7.9	9.9	2	255	270
Well 24	5	8.6	9.5	2	200	200
Well 25	5	5.7	6.3	3	226	230
Well 26	4	5.0	9.5			
Well 29	6	8.7	12.6	2	205	210
South Mesa Water Company						
Well 4	6	13.4	14.0	2	185	220
Yucaipa Valley Water District						
Well 48	32	10.3	14.0	32	228	310
Overlying Users						
Sharondale 1	20	22.0	34.2	2	365	400
Sharondale 2	20	25.8	27.9	2	345	350
Plantation 1	5	8.7	9.5	1	280	280
RCMHP 1	13	22.1	24.3	1	250	250
RCMHP 2	20	22.8	27.5	1	250	250
Tukwet A	8	7.3	8.1	8	183	230
Tukwet D	9	10.0	11.7	9	201	250
Oak Valley 1	3	6.8	7.7	3	190	210
Oak Valley 2	6	10.7	12.6	3	190	210

The above table indicates that none of the domestic wells in the Beaumont Basin are near the MCL or the notification level of 80 percent MCL for Nitrate; however, there is one well, Sharondale MHOA No. 1 at 400 mg/L for TDS. Highest NO₃ concentration during the reporting period was recorded at Sharondale MHOA No. 1 at 34.2 mg/L and BCVWD Well No. 16 at 30.2 mg/L for Nitrates. Sharondale No. 1 and No. 2 at 400 mg/L and 350 mg/L respectively had the highest concentrations for total dissolved solids.

4.2.2 Trace Metals

As indicated earlier, not a single domestic well exceeded the primary federal standards during the reporting period; however, the state standard for Hexavalent Chromium (Chromium-6) has been exceeded by a number of wells in the Basin. While Chromium-6 is an issue, there has been a significant improvement for other trace metals over previous reporting periods when several wells exceeded the MCL in the 2004-2008 initial reporting five-year period. Trace metals are briefly discussed here and compared to previous reporting periods.

Aluminum. There were 28 water samples taken during the reporting period and tested for aluminum. Aluminum concentration at all wells was below the reporting level of 50 ug/L and significantly below the secondary MCL of 200 ug/L. Aluminum above the MCL can add color to water. Compared to the FY 2004-08 initial reporting period, one well exceeded the MCL at that time.

Arsenic. The current MCL for Arsenic has been set at 10 ug/L. There were 30 water samples collected and tested for arsenic during the reporting period with most wells reporting under the reporting level of 2.0 ug/L. There were two wells with arsenic concentration above the reporting level with the highest arsenic concentration observed at Tukwet Well A at 6.4 ug/L. Arsenic concentration at SMWC's Well No. 4 was 4.4 ug/L. The rise in arsenic concentration at Tukwet's A from 3.7 ug/L in June 2017 to 6.4 in August 2023 is relatively a new event. Arsenic at SMWC's 4 has increased from 4.2 ug/L in 2009, to 4.6 ug/L in 2012, to the highest value of 5.2 ug/L in April 2013. Samples taken at this well (SMWC's 4) in April 2019 indicated a concentration of 3.8 ug/L, lower than previous samplings; however, in April of 2022, it reported a concentration of 4.4 ug/L, closer to the range of historical readings. YVWD reported a concentration of 2.5 ug/L in July 2017 at Well No. 48; however, the latest analysis (Jul 2020) below the reporting level. Based on the latest values reported, arsenic continues to be a non-issue in the Beaumont basin.

Iron. A total of 36 water samples were taken during the reporting period and tested for iron. With the exception of one sample, iron concentration in all others was below the reporting level of 100 ug/L, which is significantly below the current secondary MCL of 300 ug/L. However, in August 2016, BCVWD Well No. 3 showed a concentration of 450 ug/L, exceeding the secondary MCL. Iron concentration at this well was below 100 ug/L in December 2020, increasing slightly to 110 ug/L in the latest sample taken (Dec 2023). Iron at a concentration above the MCL can impact color, odor, and taste in water. Five wells exceeded the secondary MCL during the FY 2004-08 reporting period.

Lead. There were 28 water samples collected and tested for lead during the reporting period. Lead concentrations were all below the reporting level of 0.005 mg/L (5 ppb), which is well below the current primary MCL of 0.015 mg/L (15 ppb). Slightly higher concentrations were reported before in 2014 at BCVWD Well No. 25 (0.0065 mg/L) and at Rancho Calimesa Mobile Home Park (RCMHP) Well No. 1 (0.0058 mg/L). Lead concentration at these two wells was below the reporting level from the latest sample available. One well exceeded the MCL during the FY 2004-08 reporting period.

Manganese. There were 29 water samples taken during the reporting period and tested for Manganese. Manganese concentration at most wells was below the notification level of 20 ug/L, significantly below the secondary MCL of 50 ug/L. A concentration of 24ug/L (Dec 2023) was reported at BCVWD Well No. 3. Manganese can significantly impact color and taste in water at concentrations above the MCL. One monitoring well exceeded the secondary MCL during the FY 2004-08 reporting period.

Total Chromium. A total of 28 water samples were taken during the reporting period and tested for total chromium. The highest reported concentrations of total chromium during the reporting period were observed in August 2023 at Tukwet A and in April 2023 at Banning C-4 at 13 ug/L and 12 ug/L respectively. These values are significantly below the current state primary MCL of 50 ug/L. One well exceeded the state primary MCL during the FY 2004-08 reporting period.

Hexavalent Chromium. The federal drinking water standard for Hexavalent (Chromium-6) is 100 ug/L, established in 1991. However, effective October 1, 2024, the California MCL has been set at 10 ug/L. This maximum concentration has a significant impact on groundwater wells in the Beaumont Basin. During this reporting period, a total of 35 groundwater samples were tested for Hexavalent Chromium. Of the samples taken, 16 had concentrations exceeding the California MCL. Three of the four domestic wells owned and operated by the city of Banning in the basin exceed the current MCL while the latest sample in the fourth well is above 80 percent of the California MCL. In addition, BCVWD No. 25 and No. 26 and Rancho Calimesa MHP No. 2 exceed the current MCL during the reporting period while there are other wells approaching the MCL. The compliance date for agencies serving over 10,000 customers has been set for October 2026.

Of note, BCVWD recently replaced production well No. 3. Hexavalent Chromium concentration from water samples collected at this well between 2014 and 2017 ranged from 7.3 ug/L (8/2016) to 12.0 ug/L (12/2014). Latest water sample from this well, collected in Jan 2017, reported a concentration of 9.2 ug/L.

Vanadium. Two water samples were tested for vanadium during the reporting period from SMWC's Well 4. Vanadium at SMWC Well 4 has been consistently above the state Notification Level of 50 ug/L; latest test indicates a concentration of 81 ug/L (March 2025) with previously reported at 93 ug/L (April 2022). Vanadium concentration at YVWD No. 48 was 25 ug/L in 2014, increasing to 90 ug/L in the summer of 2017. Latest concentration was down to 22 ug/L (Jul 2020).

Copper. There were 28 water samples collected and tested for copper during the reporting period. None of the wells tested exceeded the detection limit of 50 ug/L. This concentration is

significantly below the state secondary MCL of 1,000 ug/L. This is consistent with previous reporting periods.

Zinc. There were 28 water samples collected and tested for zinc during the reporting period. Zinc concentrations in all wells were below the reporting limit of 50 ug/L (ppb), which is significantly lower than the current secondary MCL of 5.0 mg/l (ppm). Highest concentration reported was at RCMHP No. 1 at 17 ug/L (March 2024).

4.2.3 Organic Compounds

There were over 2,900 lab results for 158 organic compounds during the reporting period. Concentrations of these compounds in most cases were below the detection limit for purpose of reporting or just above it. Compounds of special concern include the following:

- ✓ TCE – Trichloroethylene (TCE) – 30 samples collected all reported below the reporting level of 0.5 ug/L. Current MCL is 5 ug/L.
- ✓ Tetrachloroethylene (PCE) - 30 samples collected all reported below the reporting level of 0.5 ug/L. Current MCL is 5 ug/L.
- ✓ Dibromo-chloropropane (DBCP) - 34 samples collected with most below the reporting level of detection limit of 0.01 ug/L. Three samples were reported above the reporting level at BCVWD 23; the highest concentration was reported at 0.033 ug/L in June 2022 while the latest concentration was 0.028 ug/L in December 2022. These concentrations are significantly below the current MCL of 0.2 ug/L.

4.2.4 pH

There are two secondary standards for pH, a lower limit of 6.5 and an upper limit of 8.5. There were two wells exceeding the upper MCL for pH during the reporting period, SMWC No. 4 at 8.8 in April 2022 and again at 9.2 in March 2025. Tukwet well A also exceeded the upper limit for pH at 8.7 in August 2023. YVWD 48, previously reported at 8.7 (Jul 2017) is now below the upper limit at 8.1 (Jul 2020). In addition, there are a number of wells with pH in the 8.0 to 8.4 range including Banning M-3, BCVWD No. 3, BCVWD No. 22, BCVWD No. 23, BCVWD No. 24, BCVWD No. 25, BCVWD No. 29. Both wells owned by Sharondale Mesa HOA are currently at 8.0. The lowest pH was reported from Plantation No. 1 at 7.7 (Mar 2023). Four wells in the basin exceeded the upper limit for pH during the FY 2004-08 reporting period.

4.2.5 Turbidity

Turbidity is a measure of the cloudiness of water and is used to indicate water quality and filtration effectiveness. Previous annual reports reported that all production wells in the Basin tested for turbidity none exceeded the primary federal and state MCL of 5 NTU. During the 2021-2025 reporting period, most wells had turbidity levels below 0.5 NTU. Banning M-3's BCVWD 3's turbidity was reported at 4.0 NTU in February 2021 and Plantation at 5.0 in December 2022.

4.3 Historical TDS Concentrations for Selected Wells in the Beaumont, Singleton, and South Beaumont Basins

Historical water quality records since 1974 from The California Department of Health Services GAMA database and water quality collected as part of the Beaumont Management Zone Maximum Benefit Monitoring Program were combined to develop historical TDS concentrations. The following figures illustrate historical TDS for selected wells around the basin.

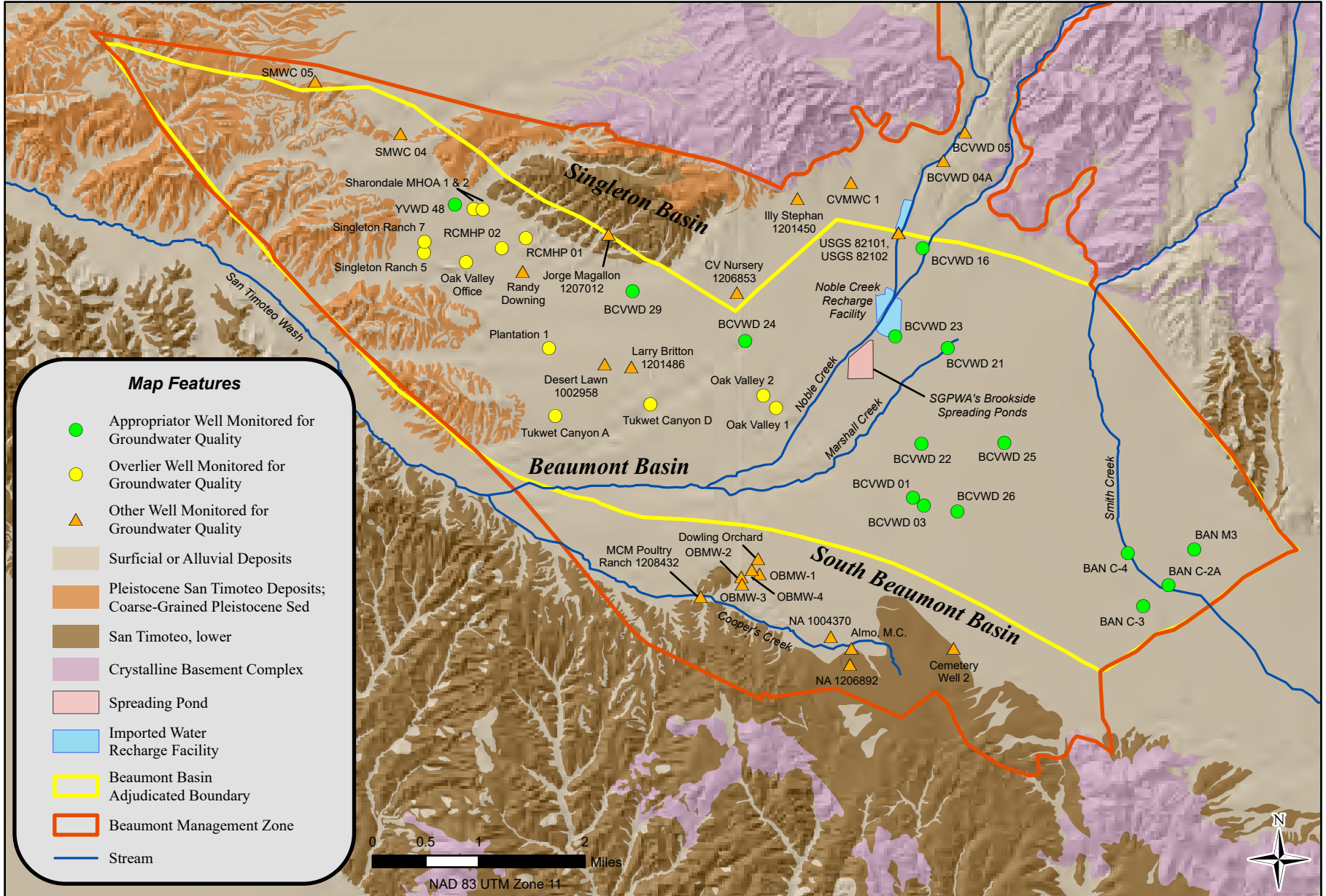
- ✓ Figure 4-4 – Noble Creek Area
- ✓ Figure 4-5 – East of Marshall Creek
- ✓ Figure 4-6 – Banning Area
- ✓ Figure 4-7 – West of Noble Creek
- ✓ Figure 4-8 – Northwest Area
- ✓ Figure 4-9 – Singleton Basin
- ✓ Figure 4-10 – South Beaumont Basin

4.4 Historical Nitrate (as N) Concentrations for Selected Wells in the Beaumont, Singleton, and South Beaumont Basins

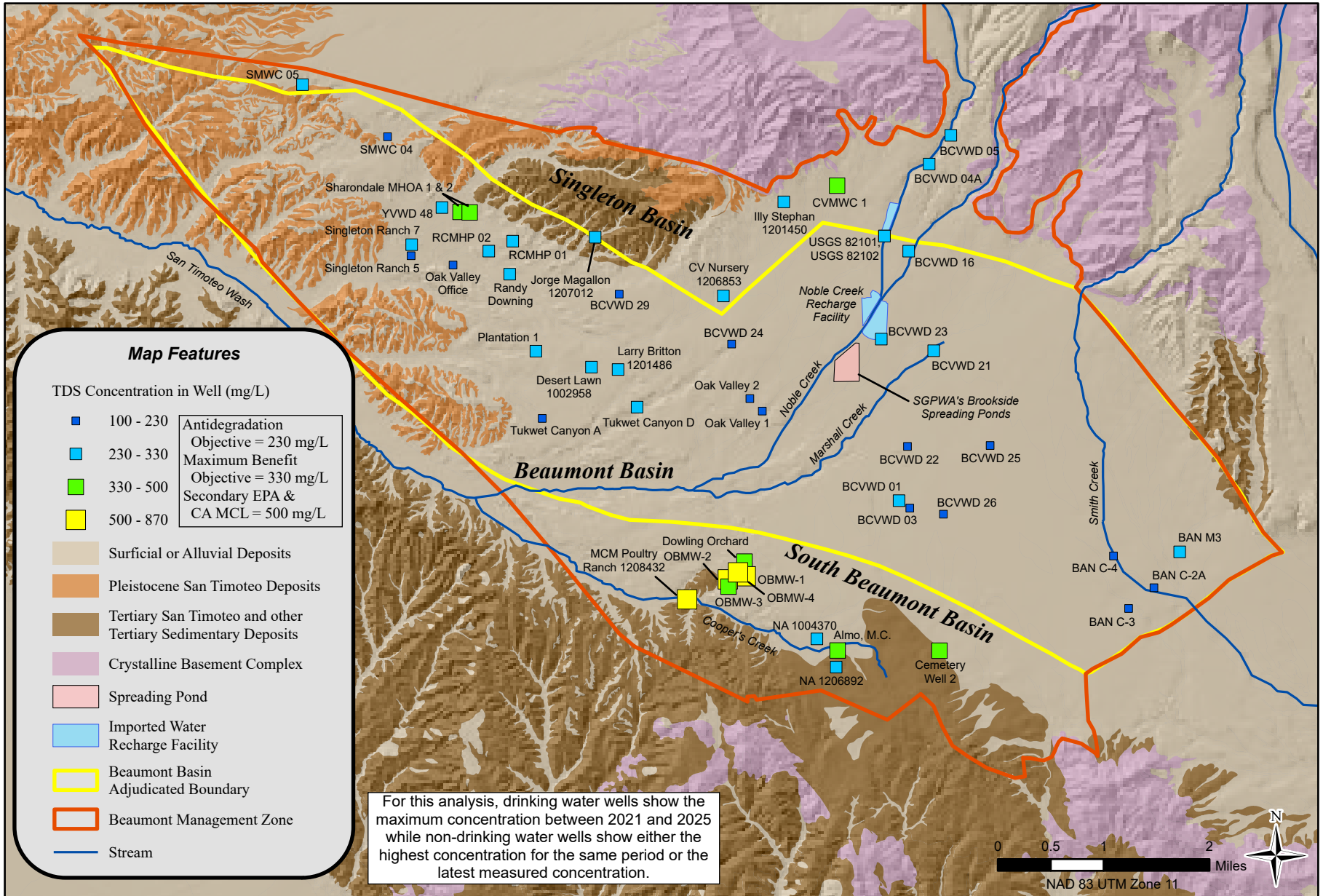
Similarly, the figures below illustrate historical nitrate (as N) concentrations for selected wells around the basin.

- ✓ Figure 4-11 – Noble Creek Area
- ✓ Figure 4-12 – East of Marshall Creek
- ✓ Figure 4-13 – Banning Area
- ✓ Figure 4-14 – West of Noble Creek
- ✓ Figure 4-15 – Northwest Area
- ✓ Figure 4-16 – Singleton Basin
- ✓ Figure 4-17 – South Beaumont Basin

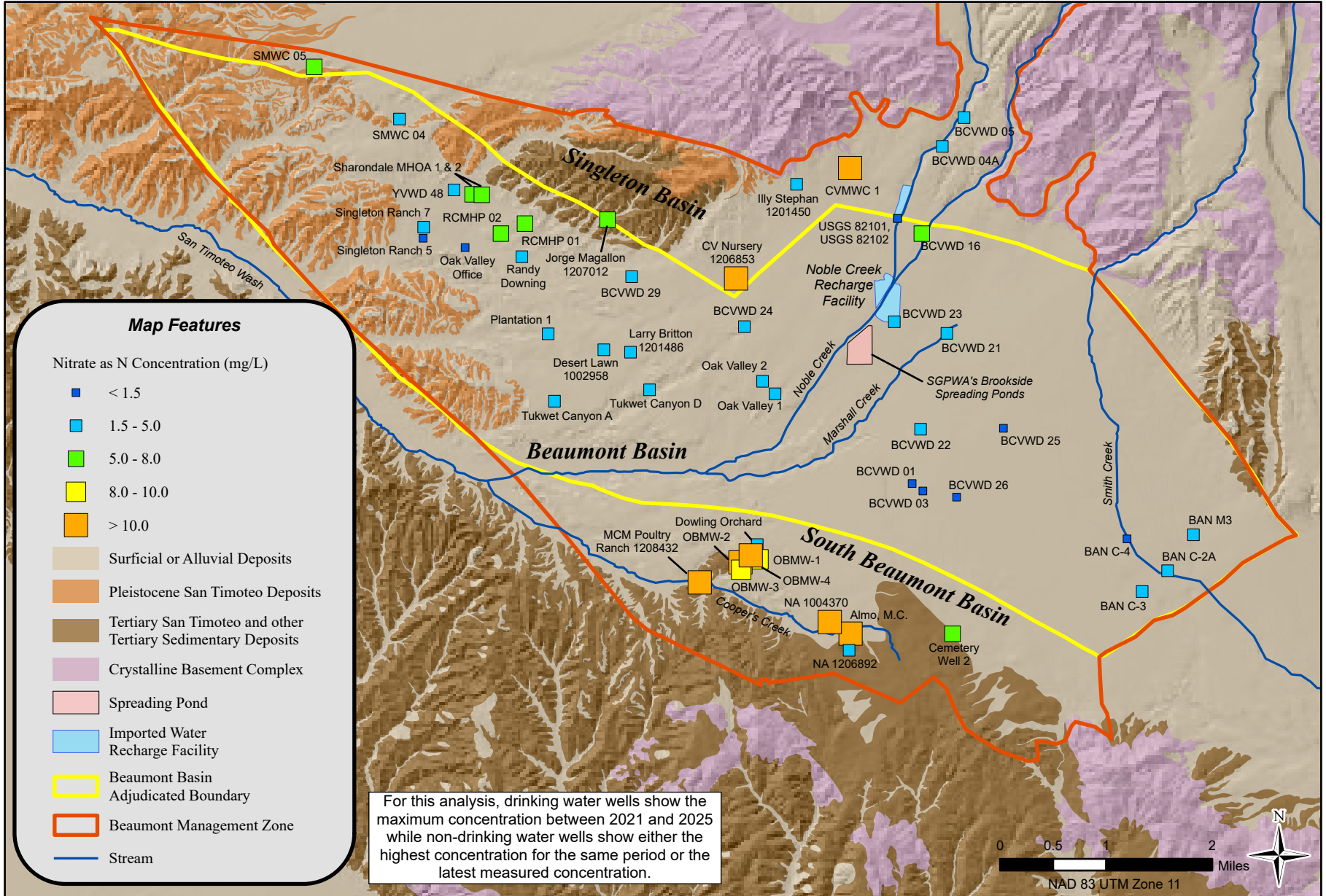
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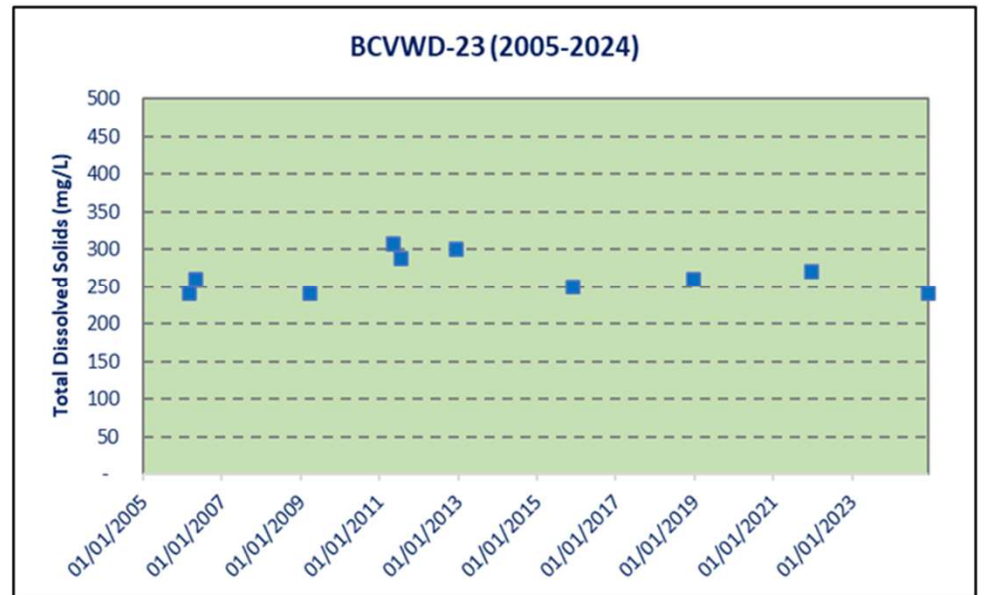
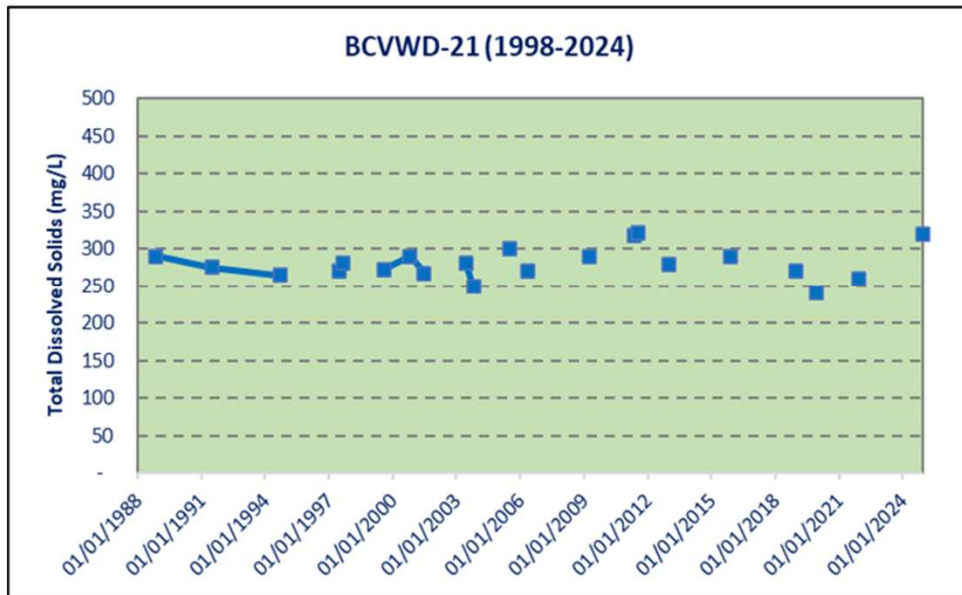
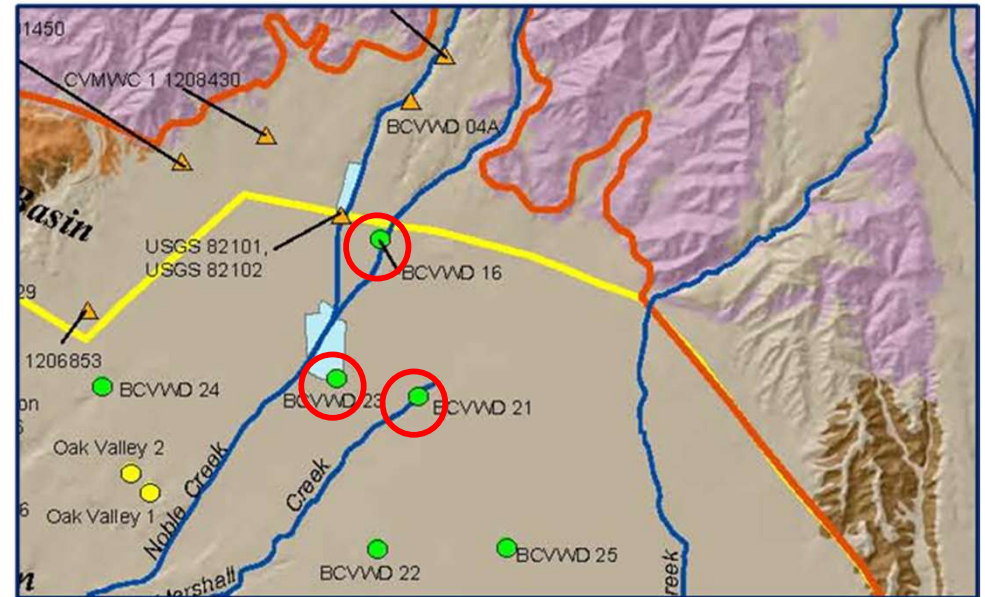
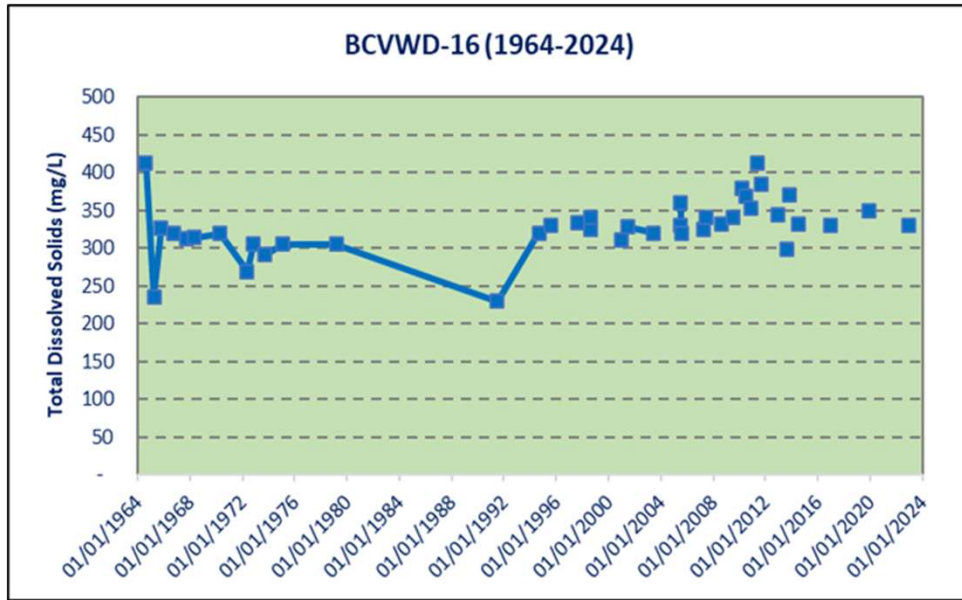


Figure 4-4
Noble Creek Area – Historical Total Dissolved Solids Concentration

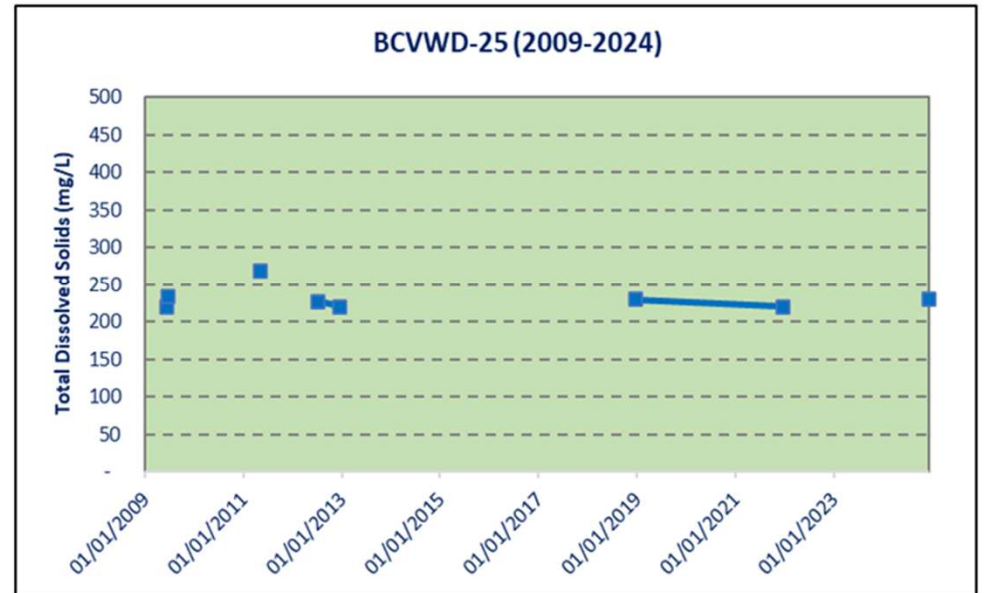
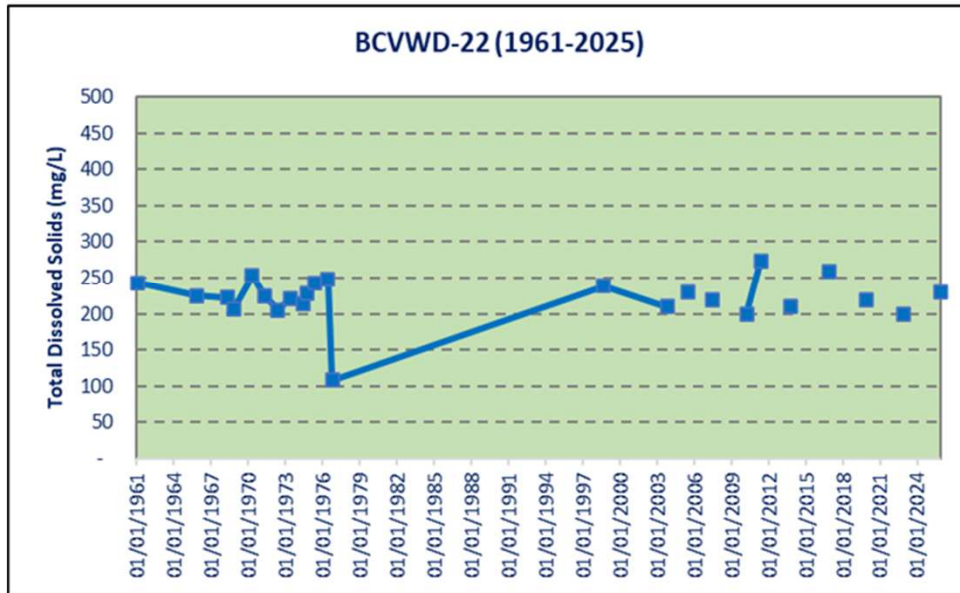
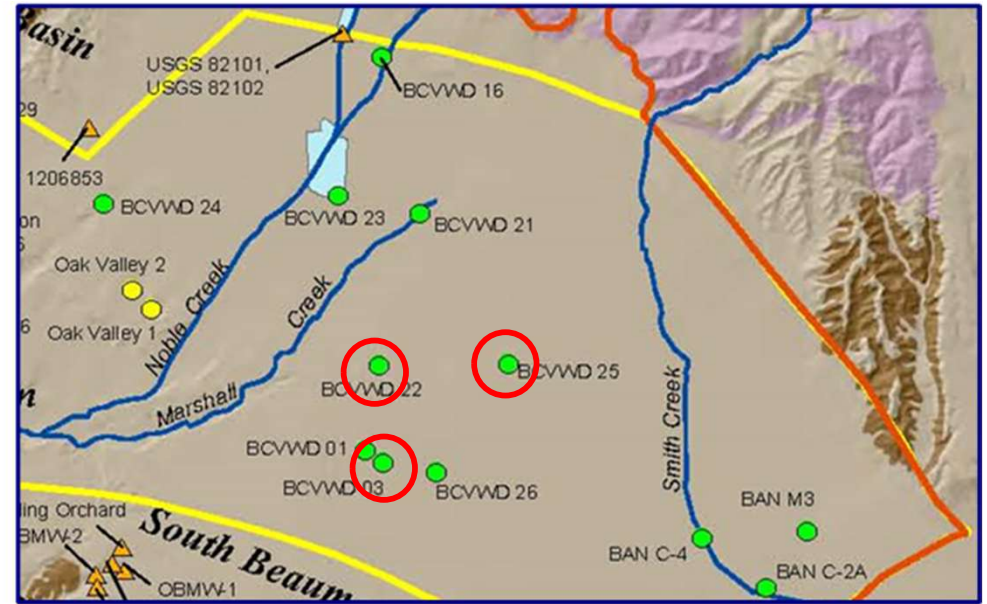
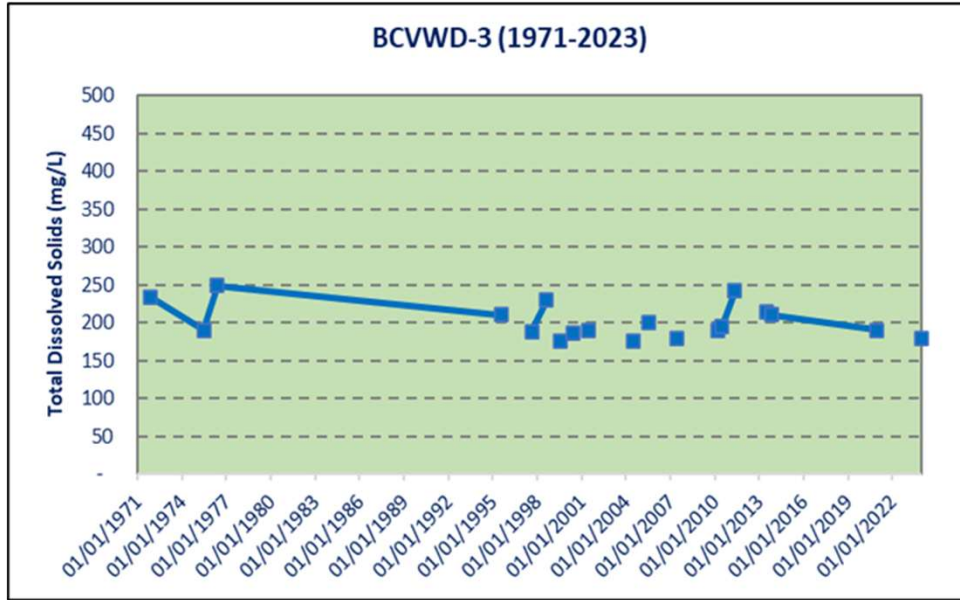


Figure 4-5
East of Marshall Creek – Historical Total Dissolved Solids Concentration

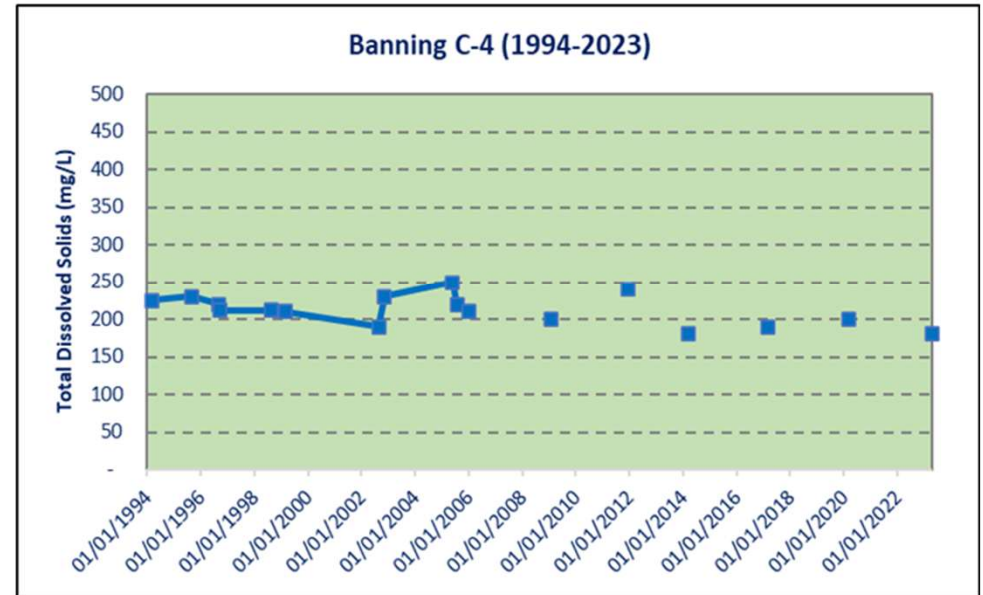
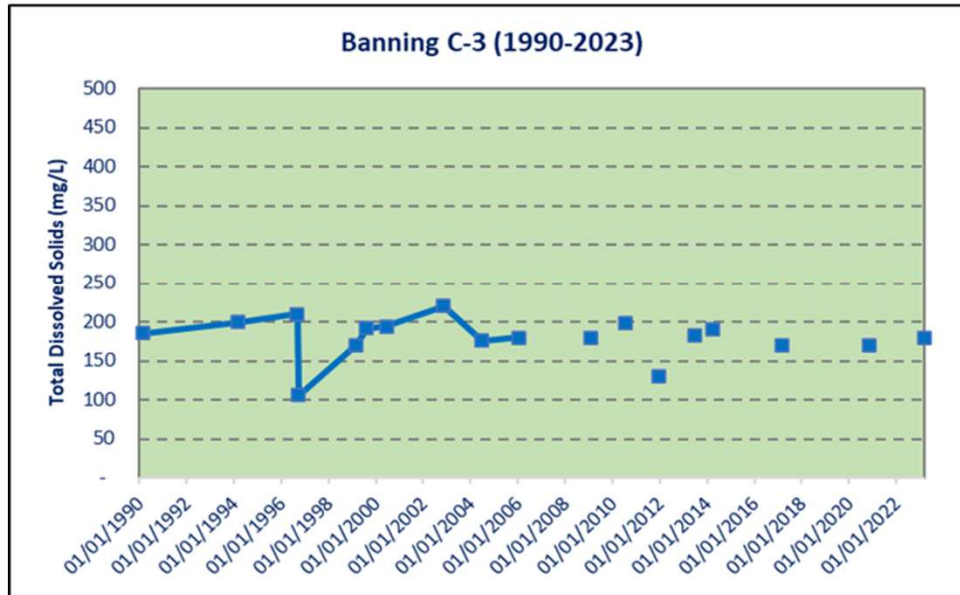
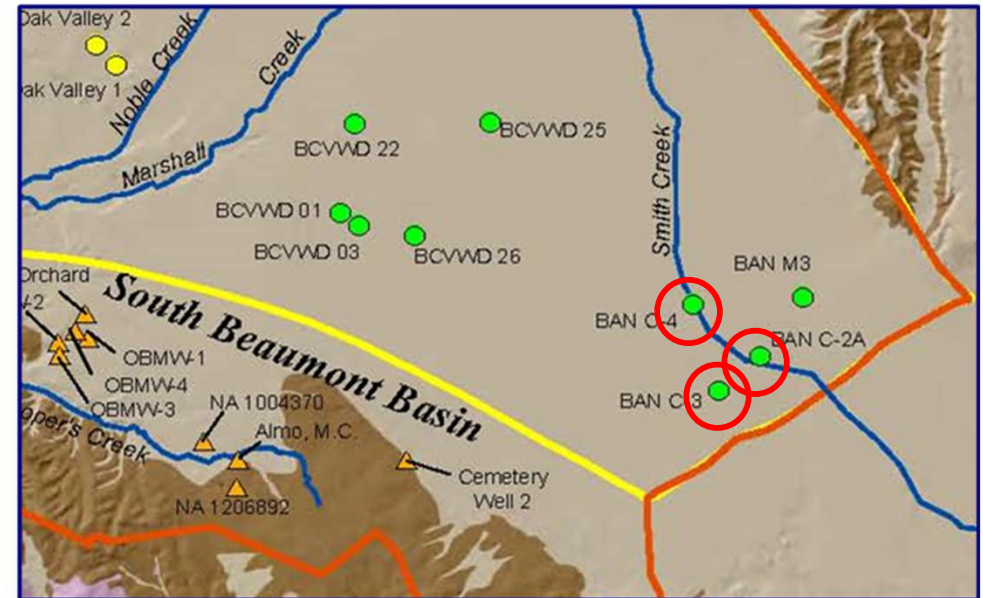
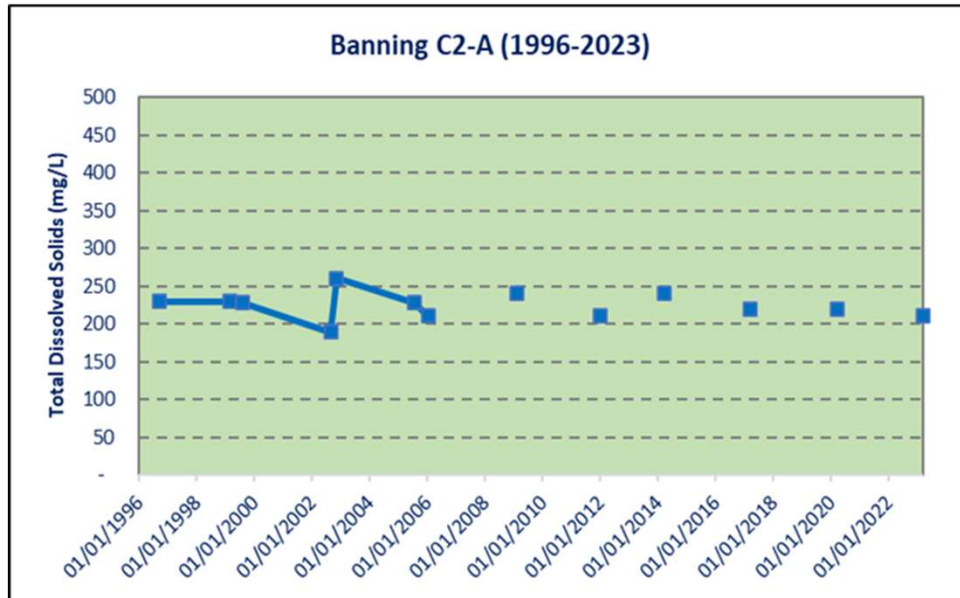


Figure 4-6
Banning Area – Historical Total Dissolved Solids Concentration

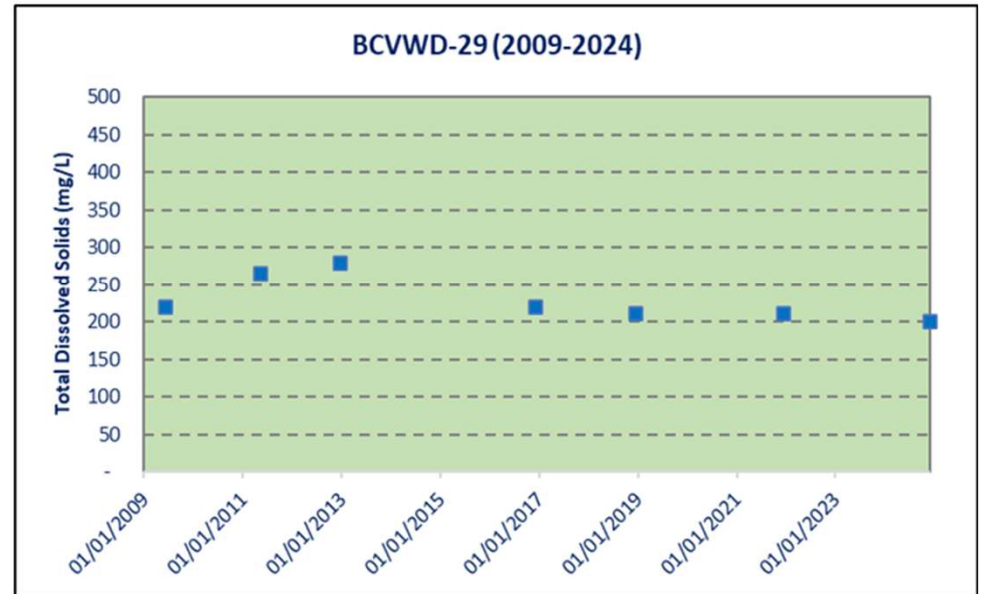
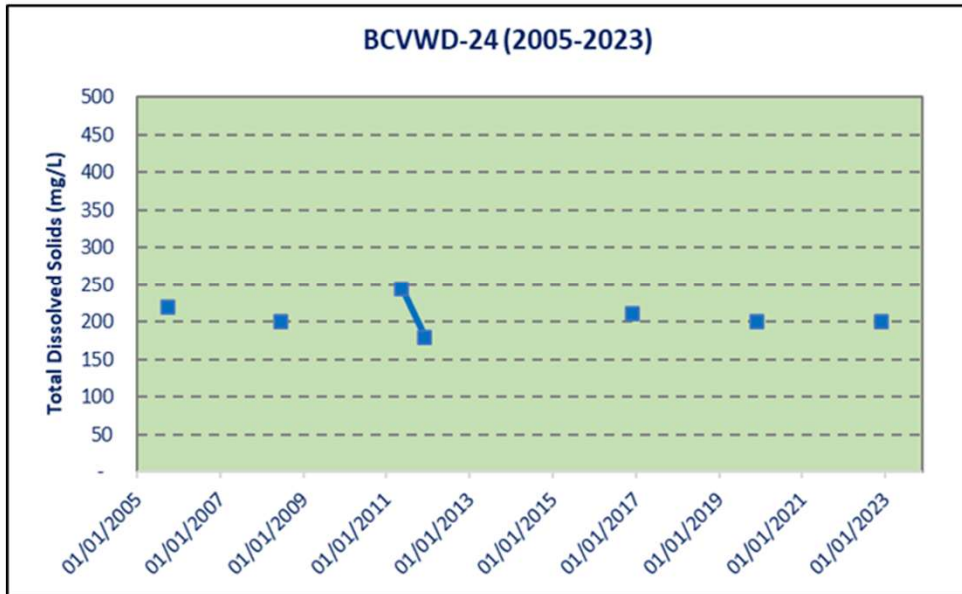
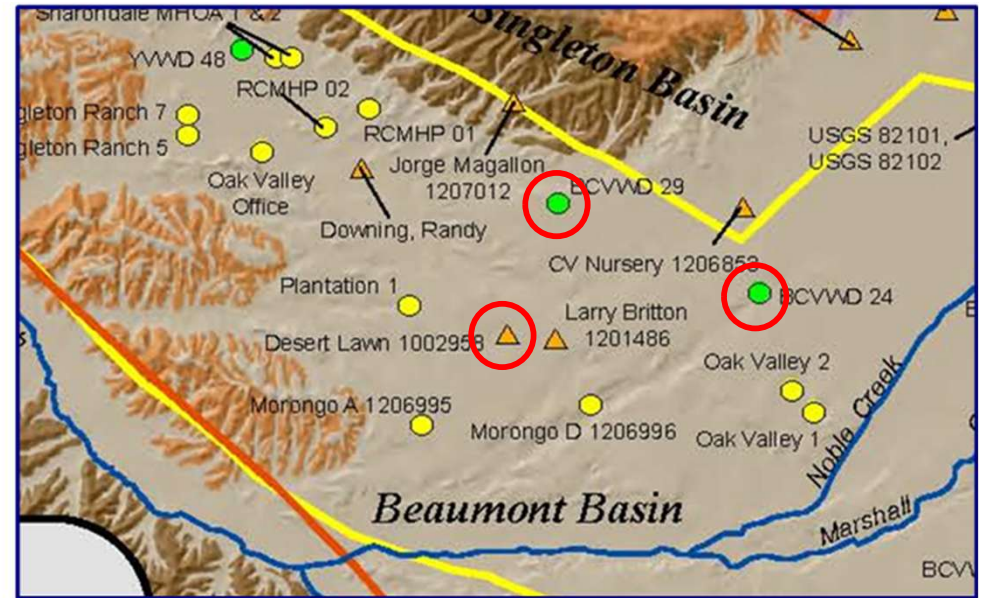


Figure 4-7
West of Noble Creek – Historical Total Dissolved Solids Concentration

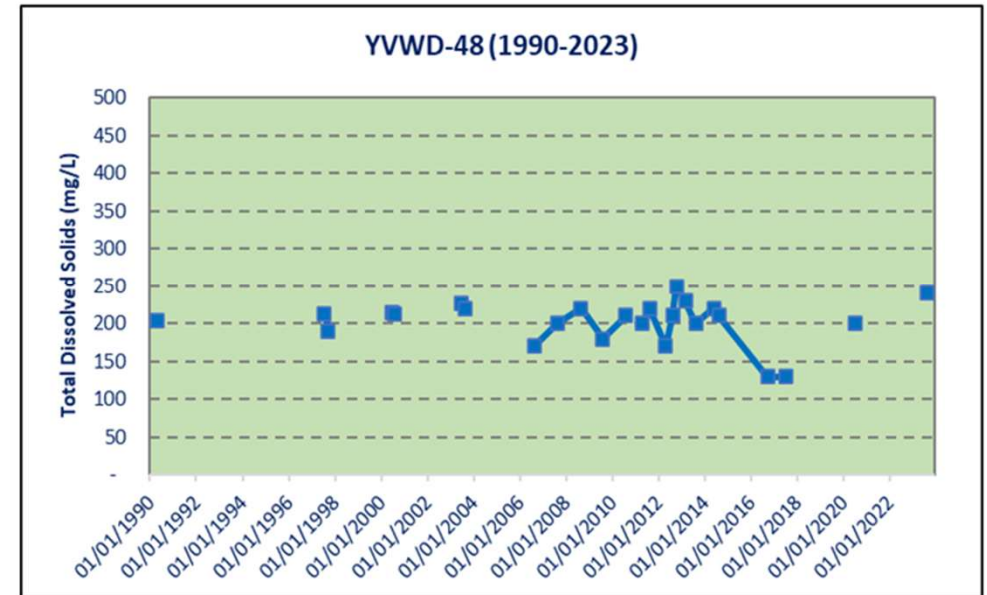
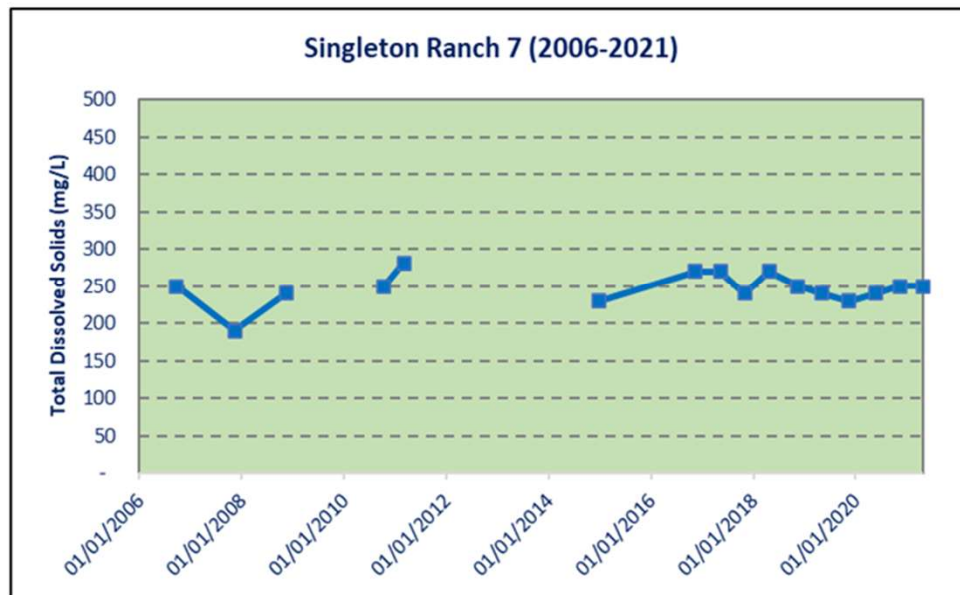
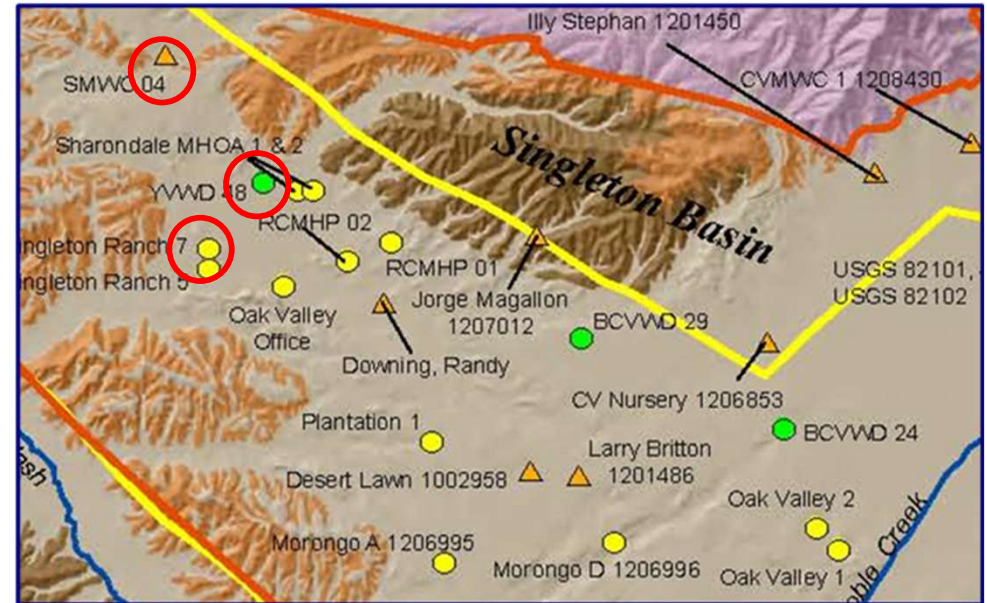
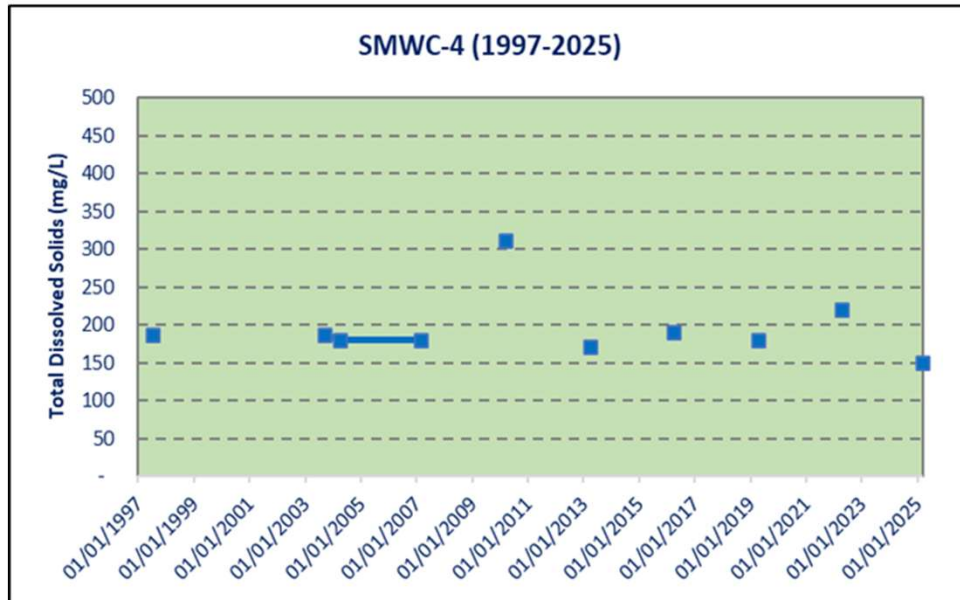


Figure 4-8
Northwest Area – Historical Total Dissolved Solids Concentration

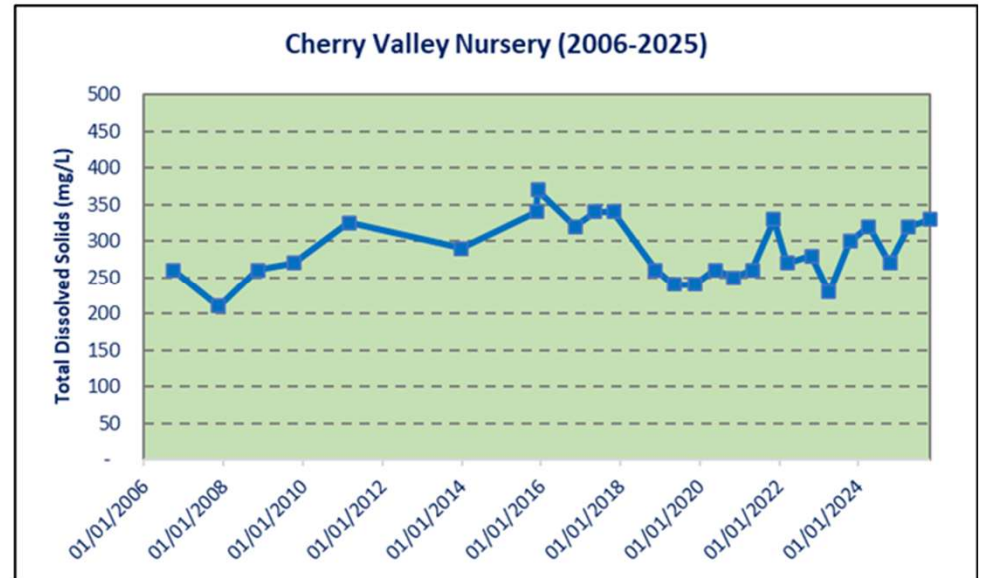
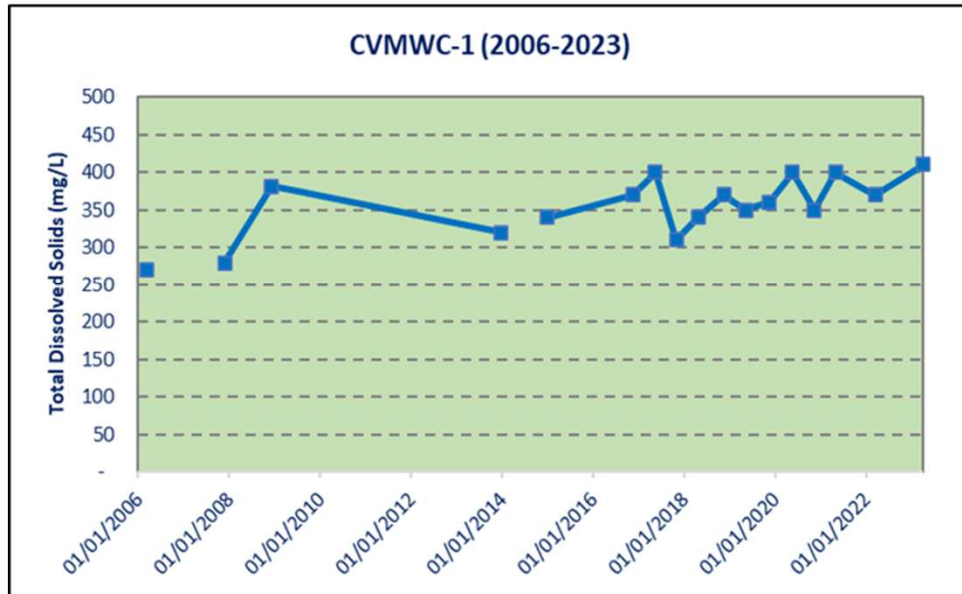
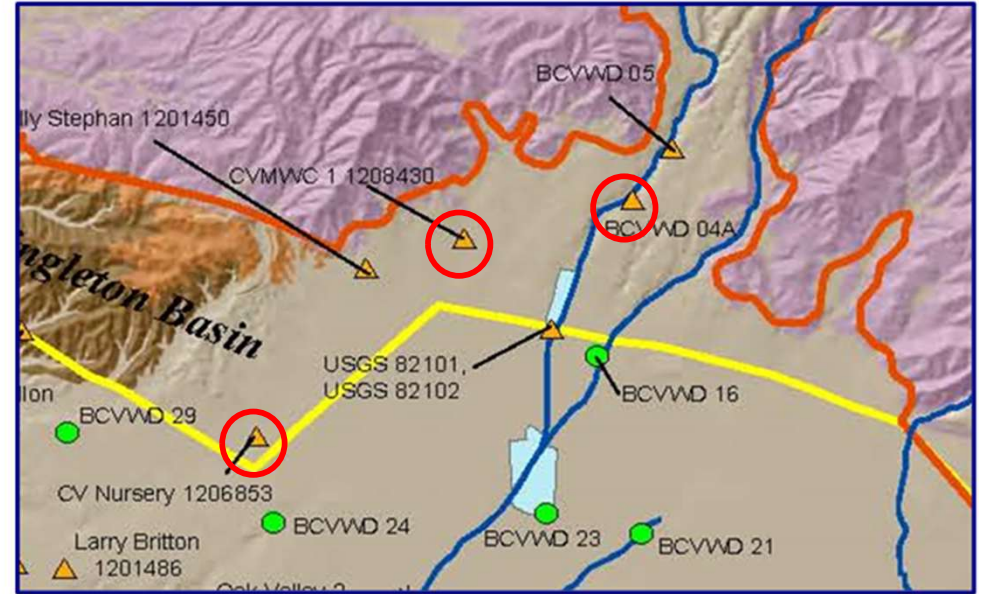
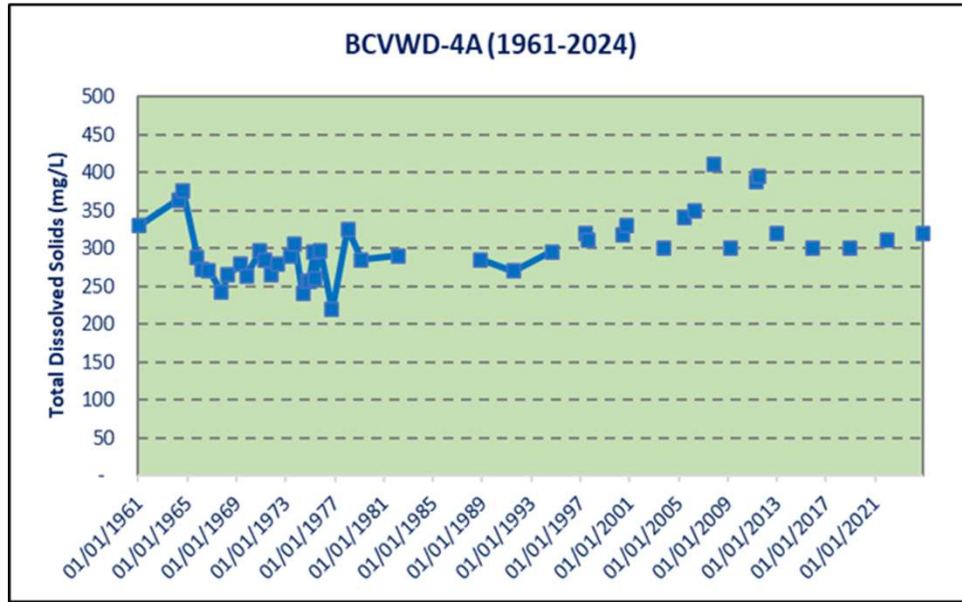


Figure 4-9
Singleton Basin – Historical Total Dissolved Solids Concentration

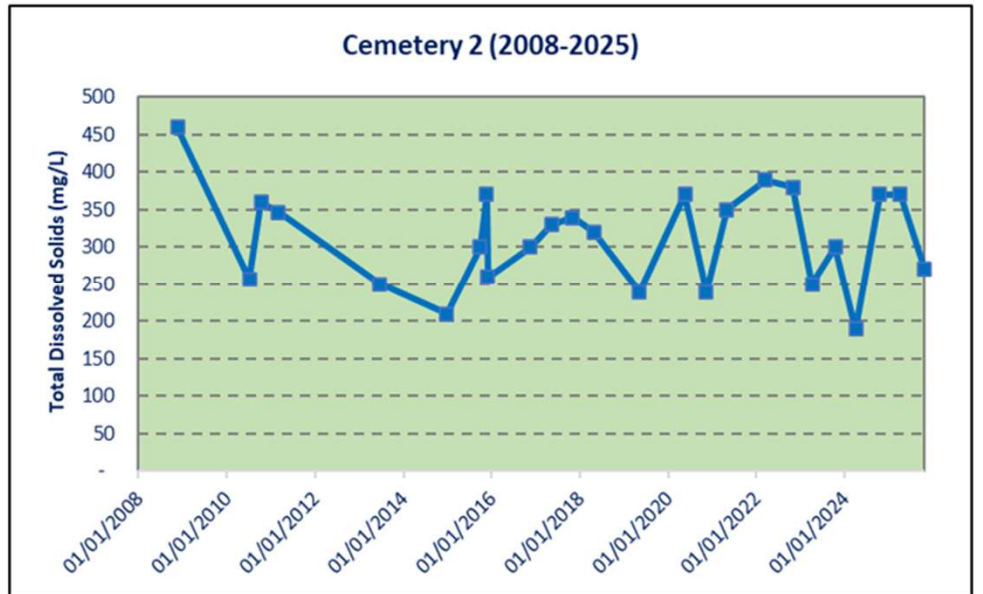
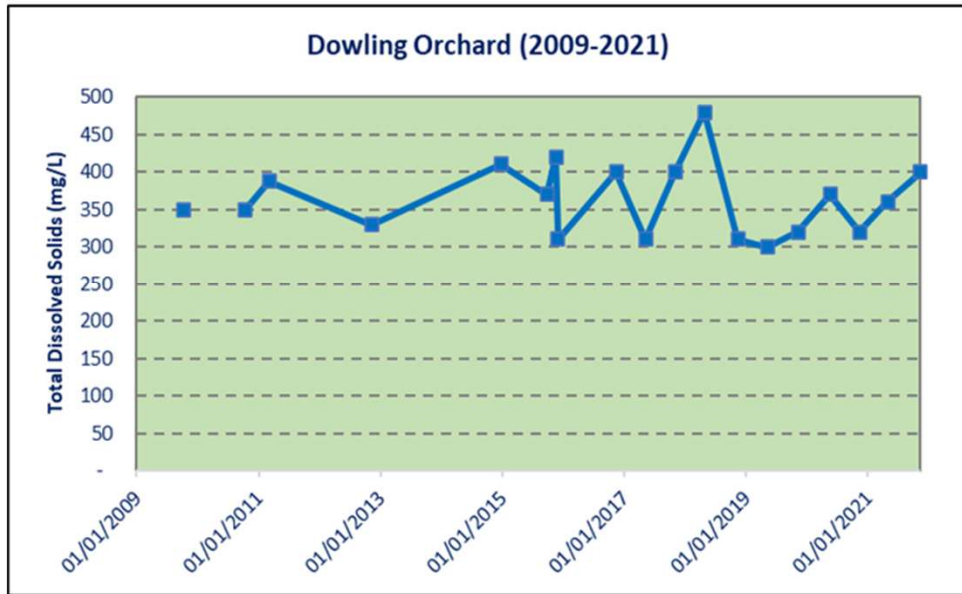
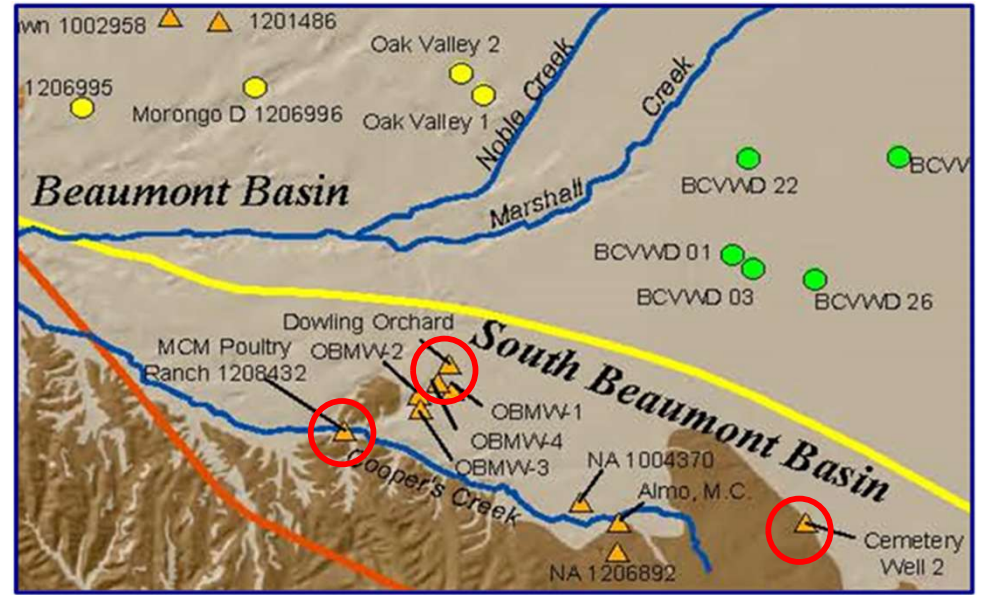
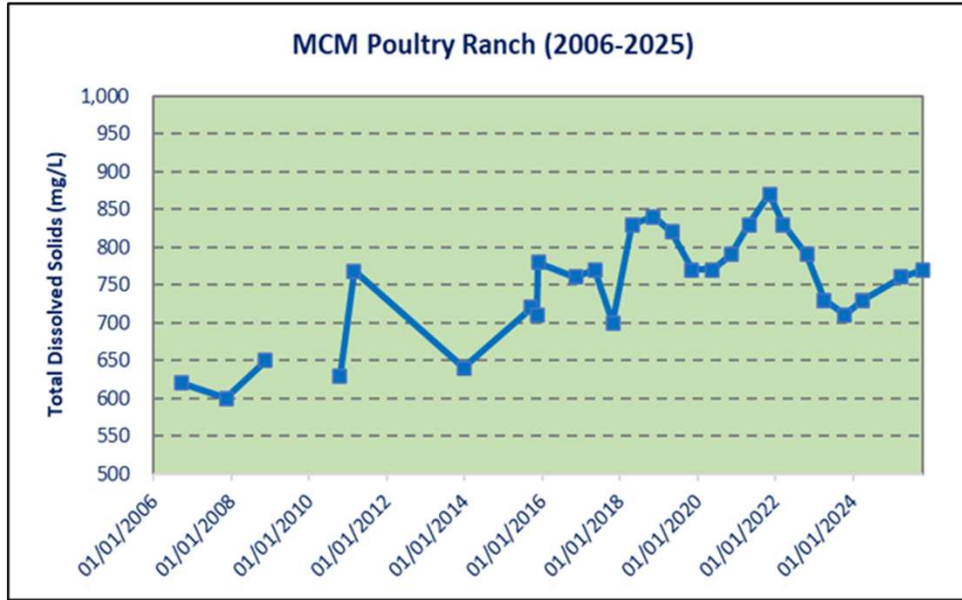


Figure 4-10
South Beaumont Basin – Historical Total Dissolved Solids Concentration

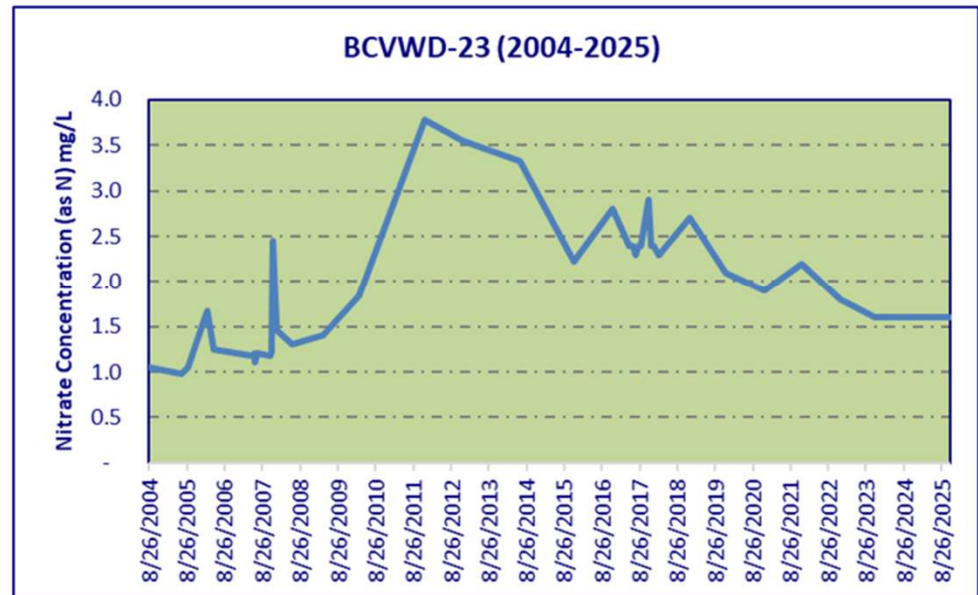
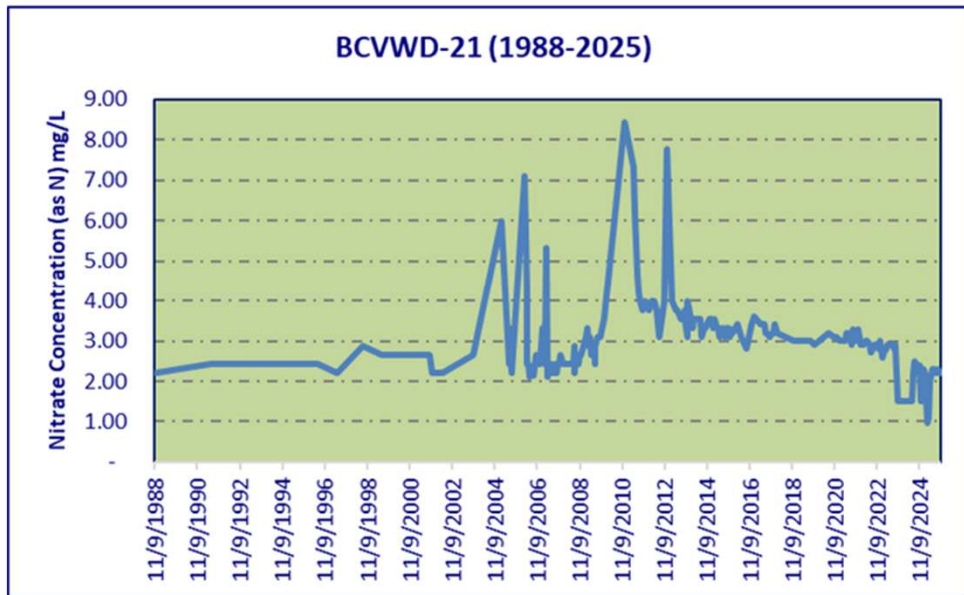
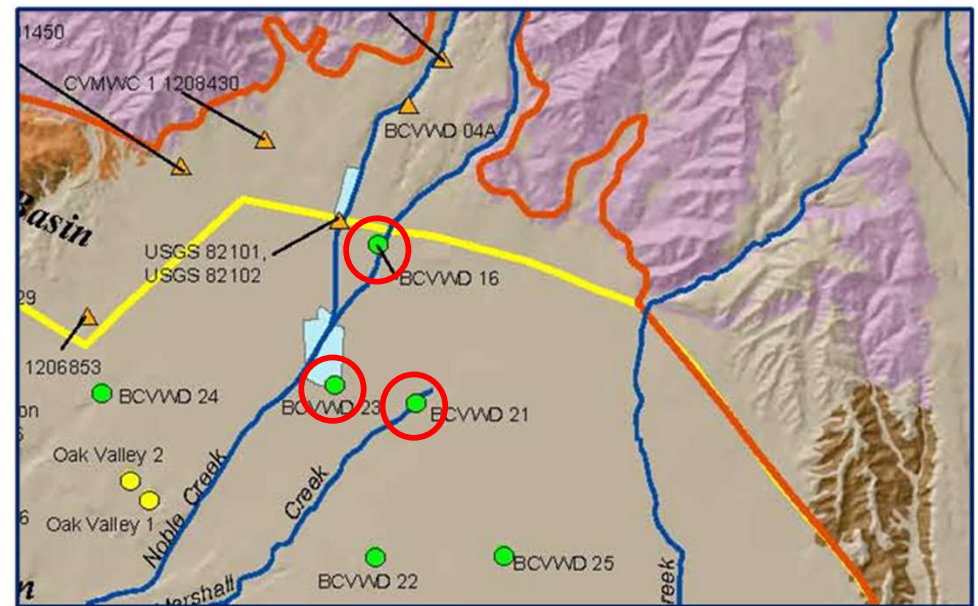
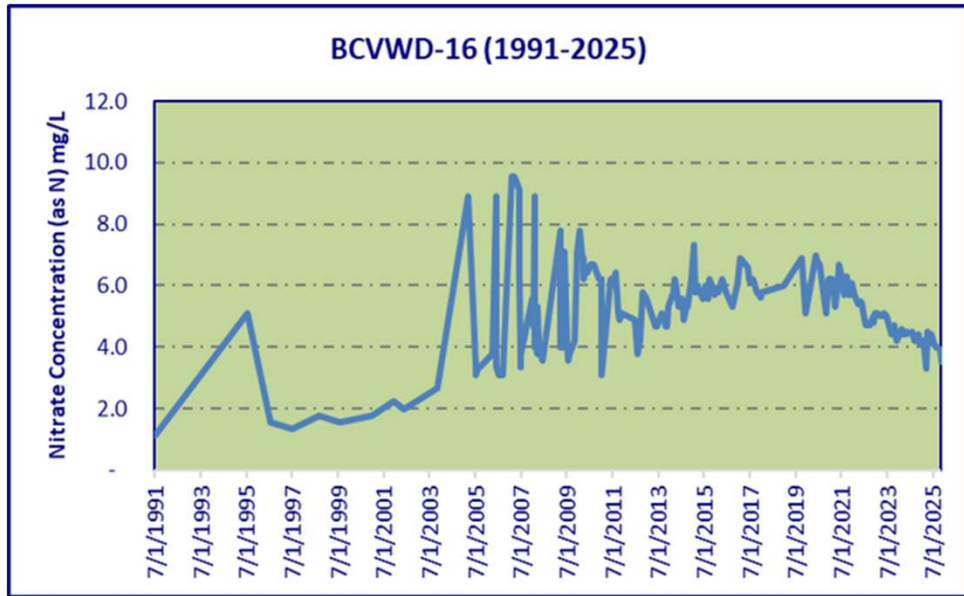


Figure 4-11
Noble Creek Area – Historical Nitrate Concentration

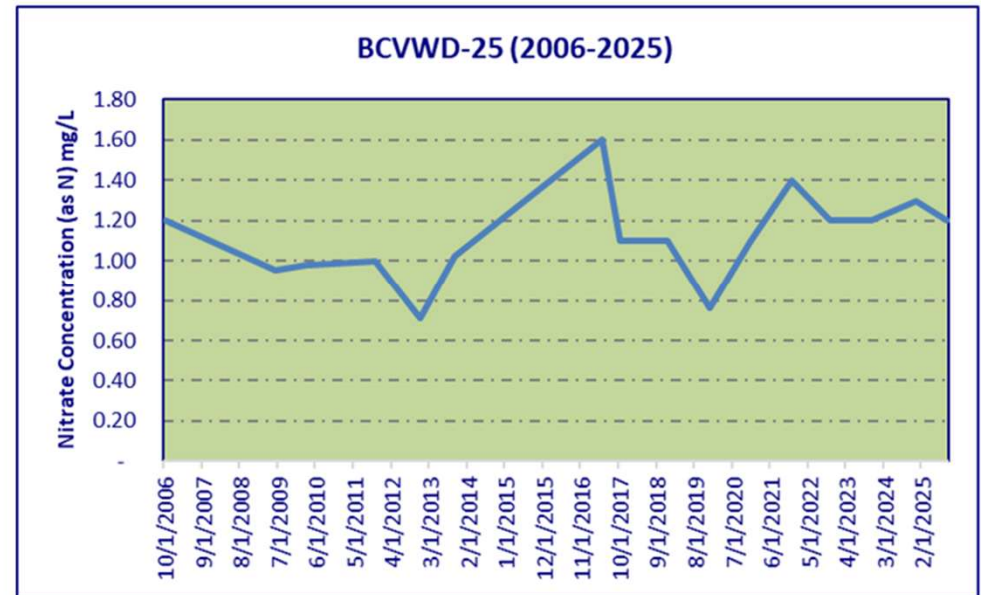
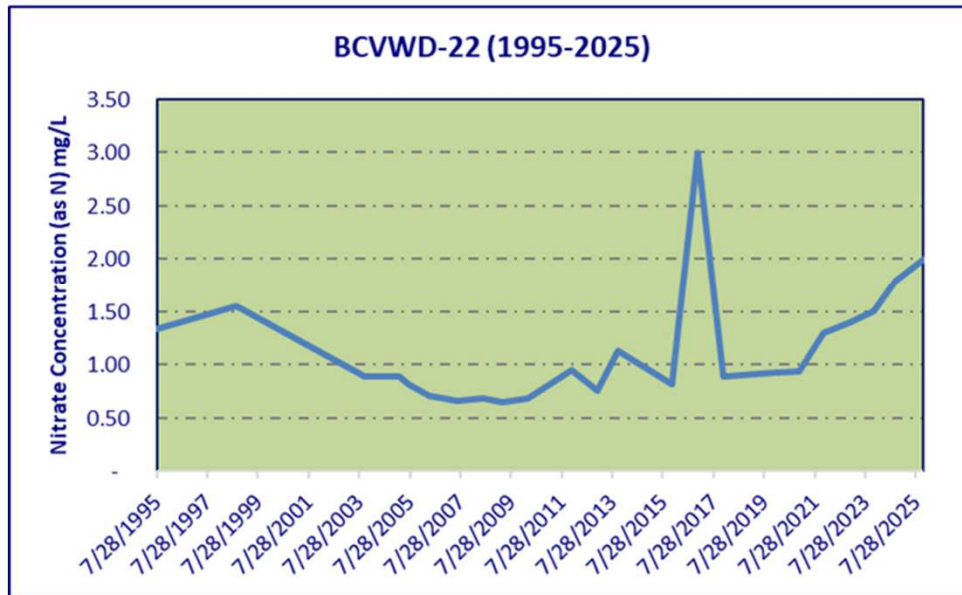
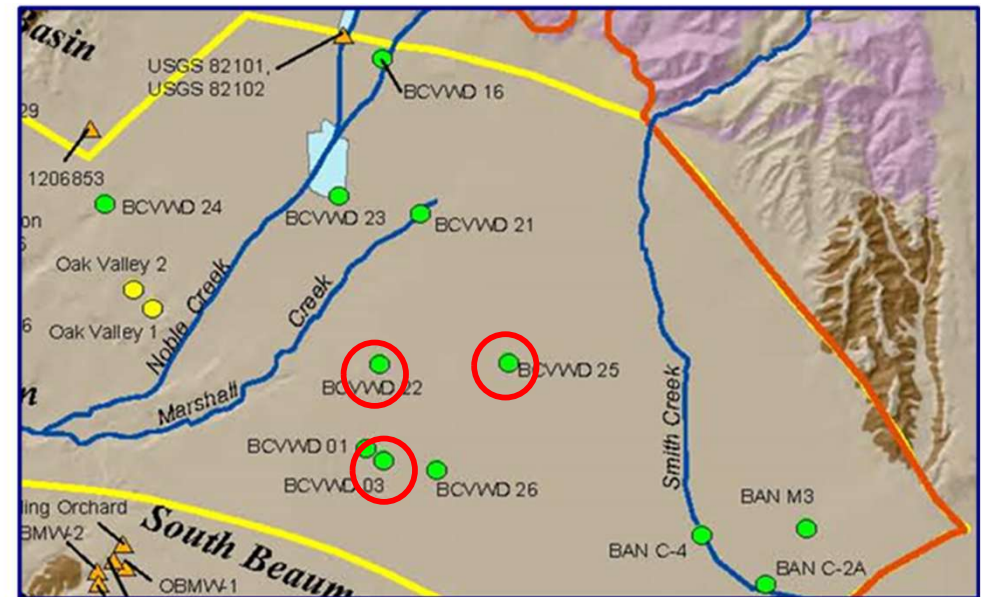
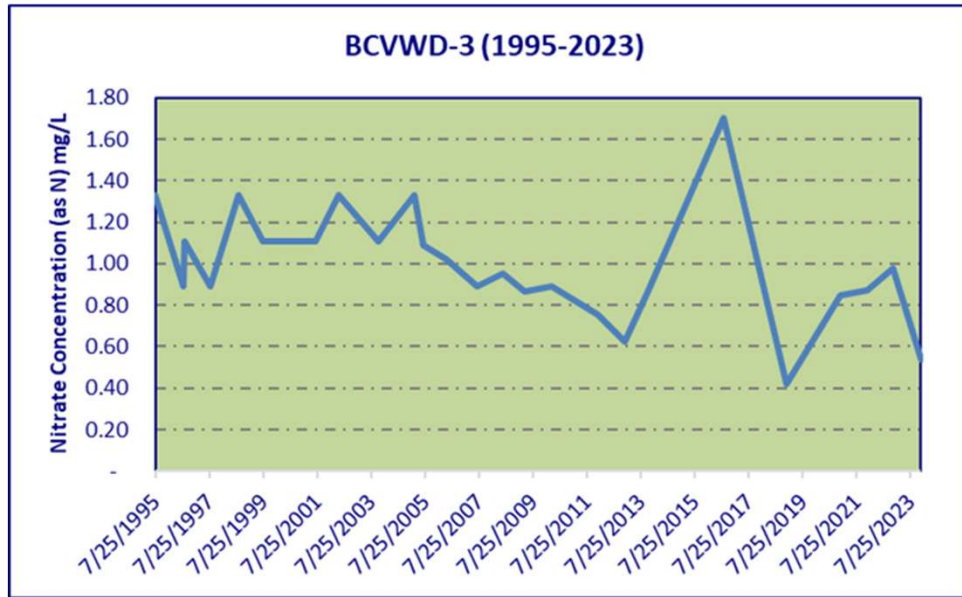


Figure 4-12
East of Marshall Creek – Historical Nitrate Concentration

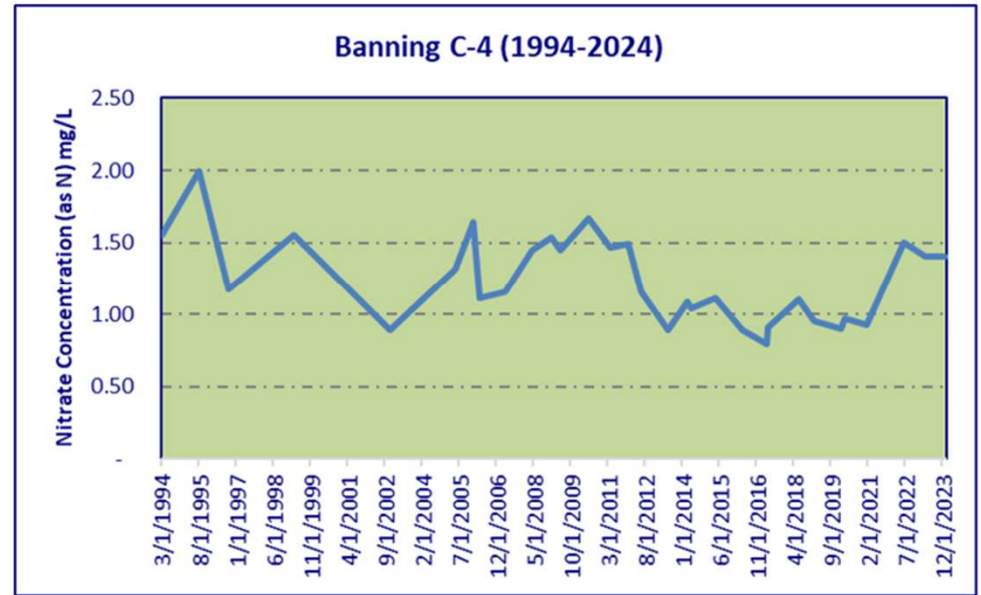
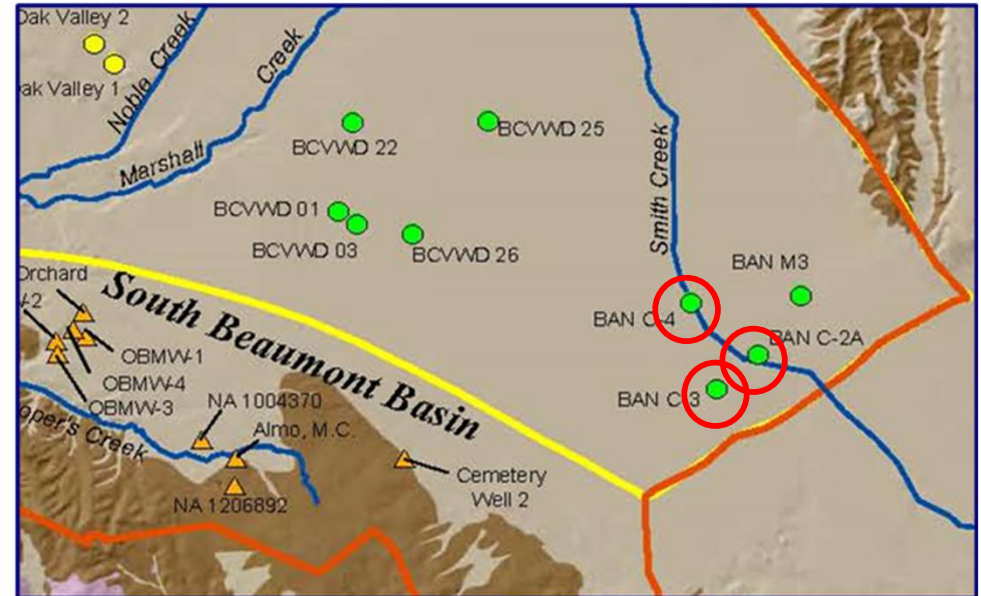
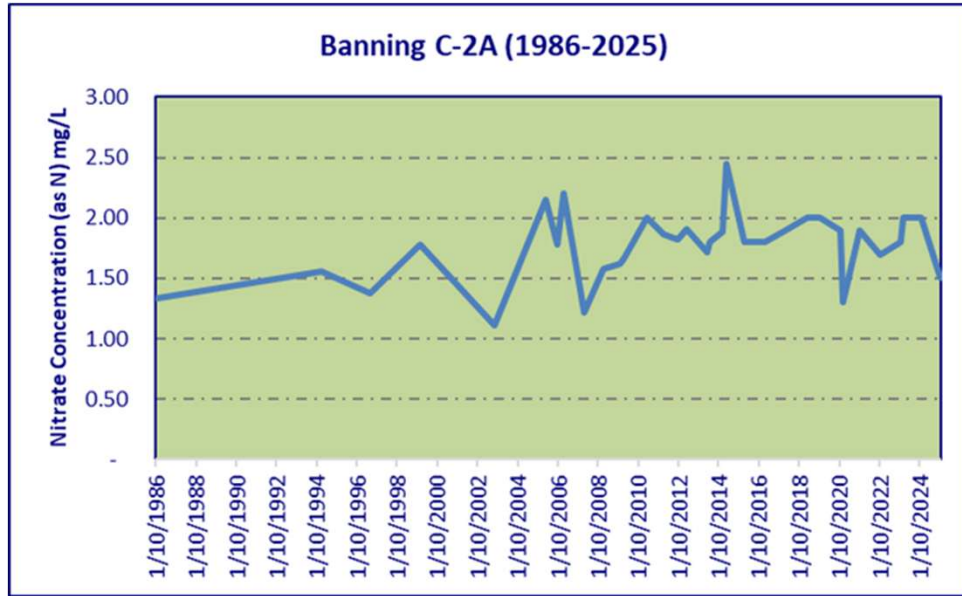


Figure 4-13
Banning Area – Historical Nitrate Concentration

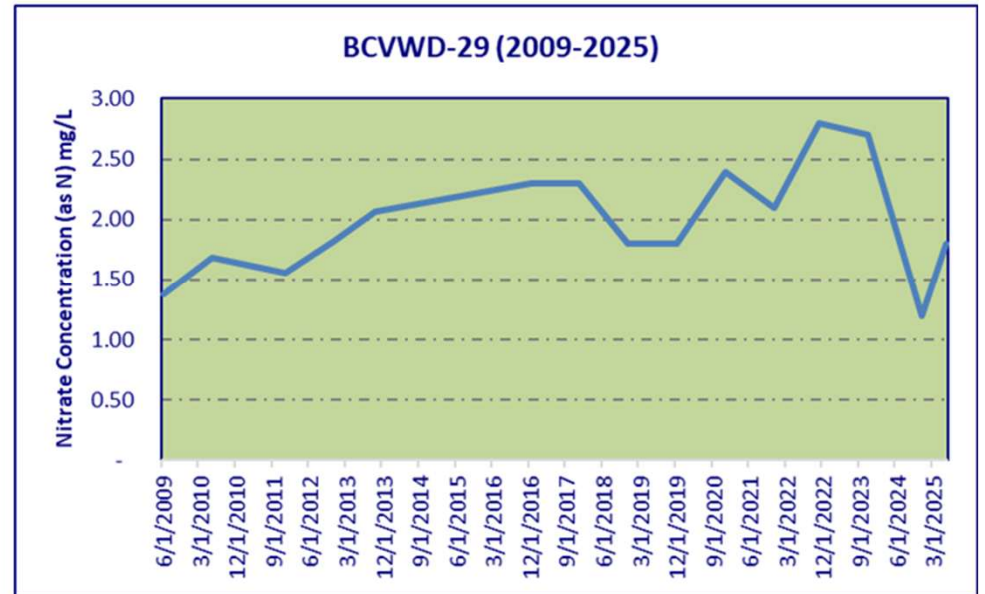
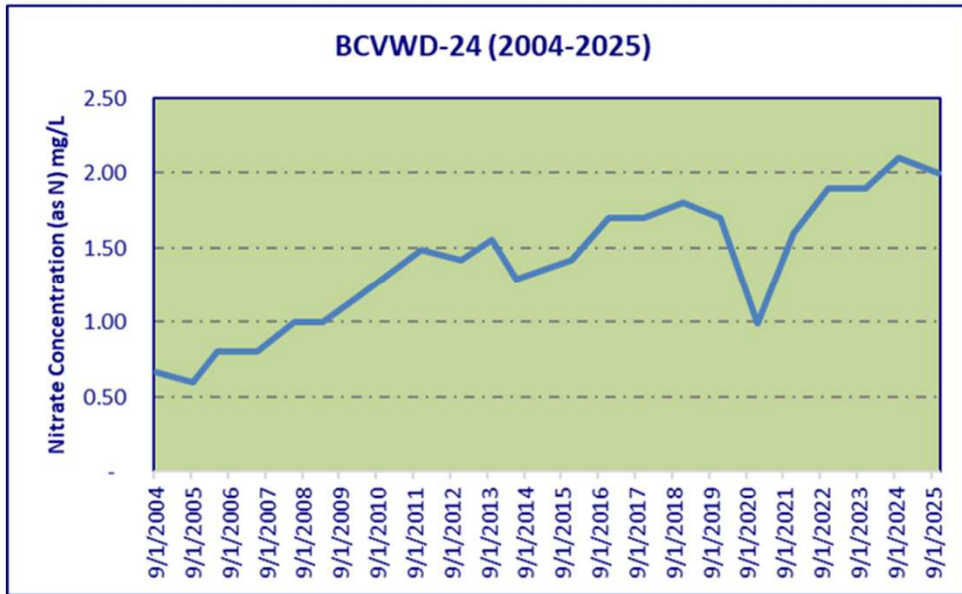
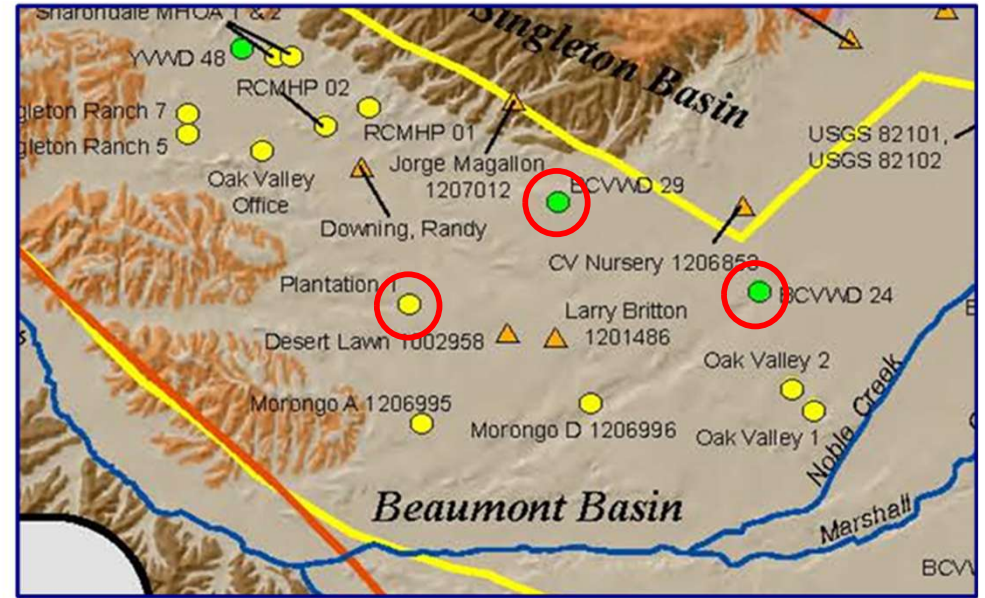
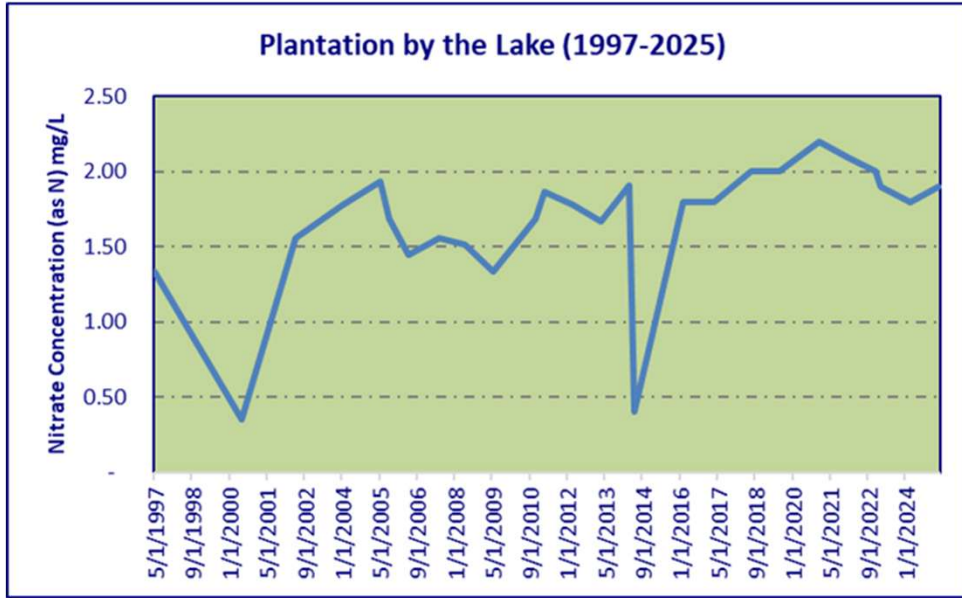


Figure 4-14
West of Noble Creek – Historical Nitrate Concentration

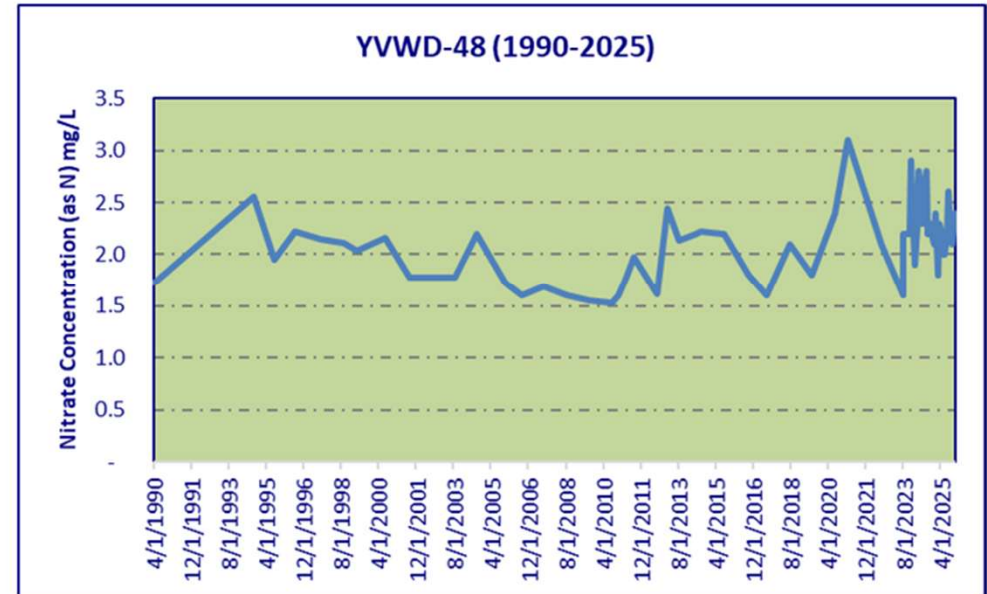
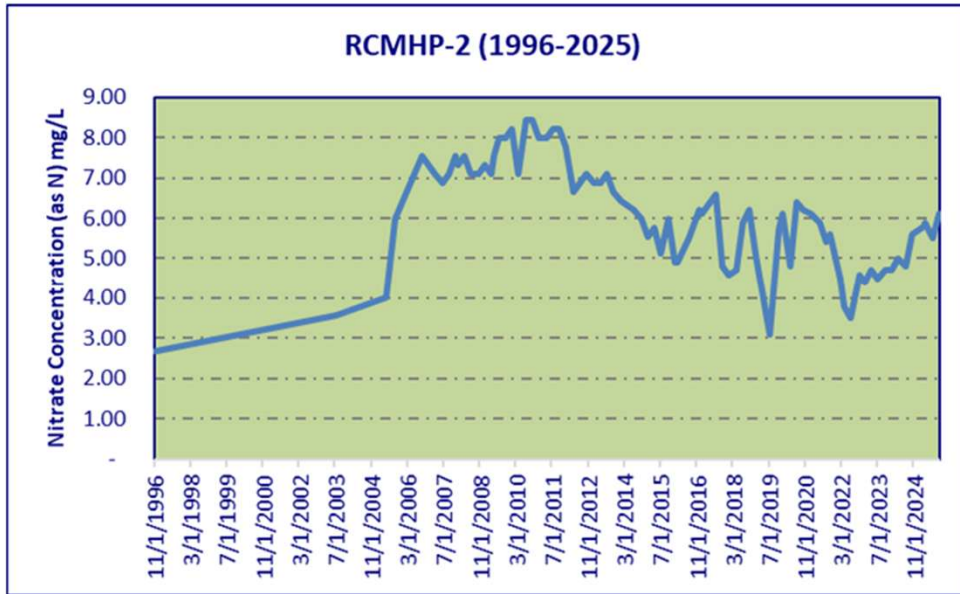
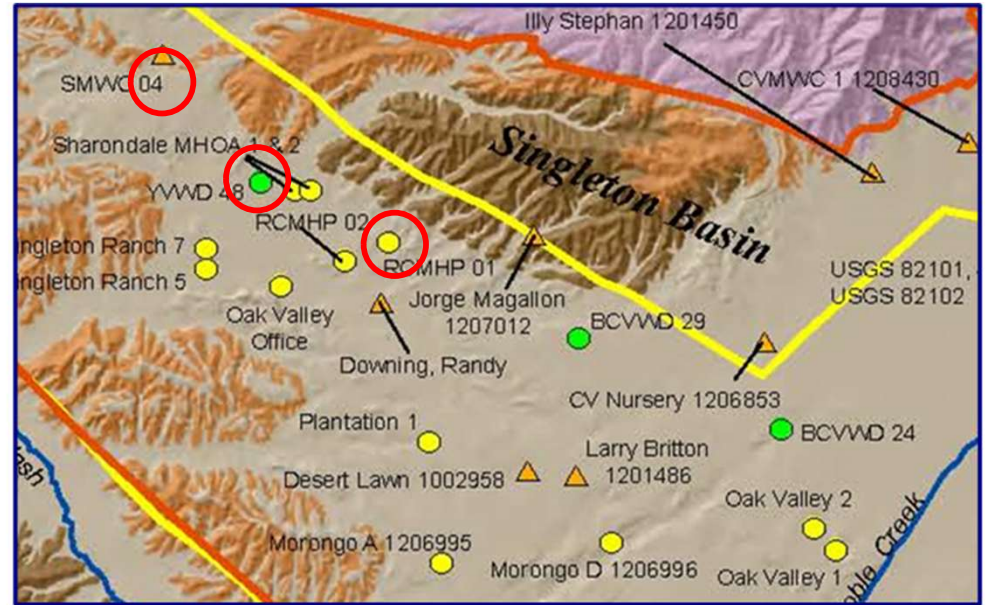
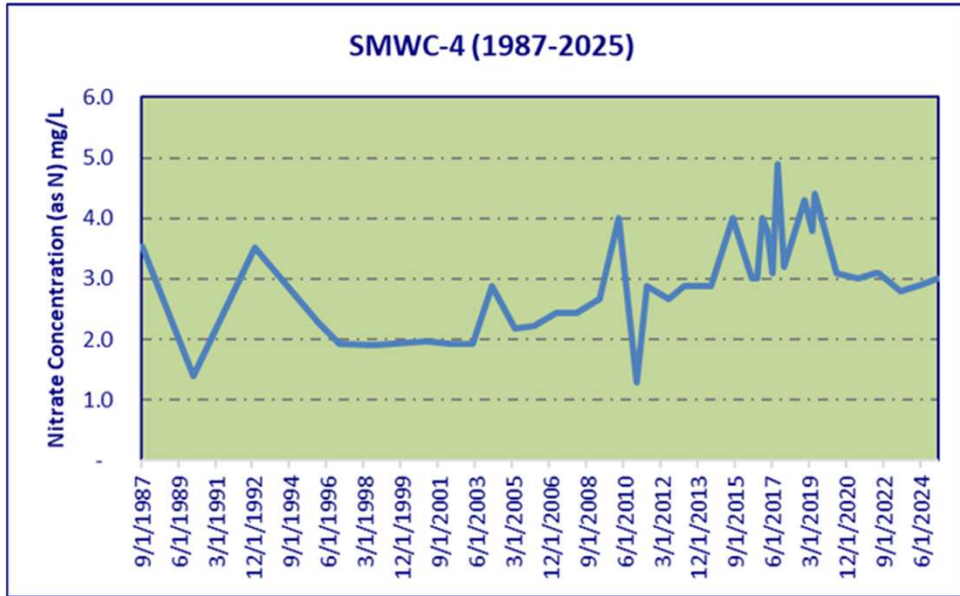


Figure 4-15
Northwest Area – Historical Nitrate Concentration

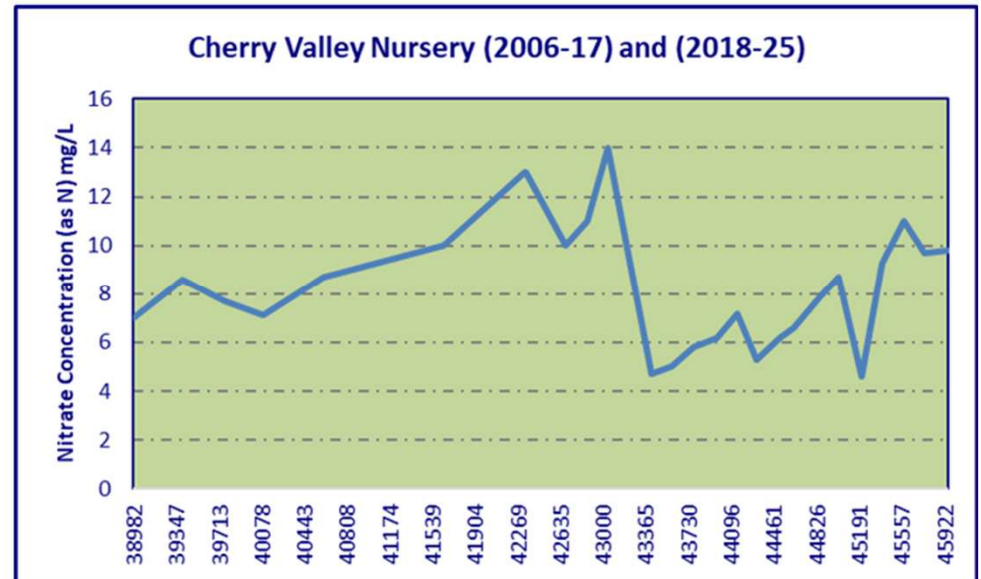
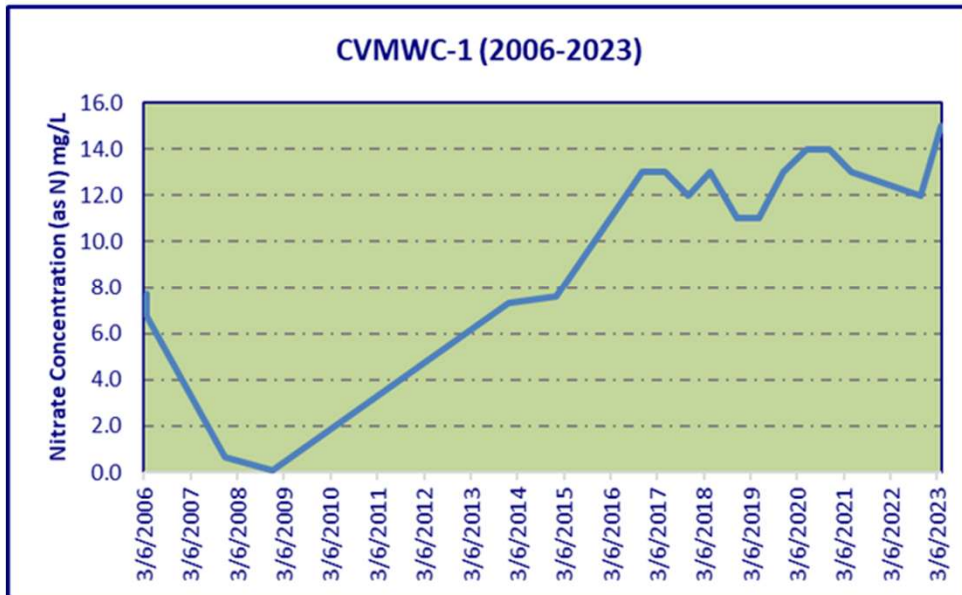
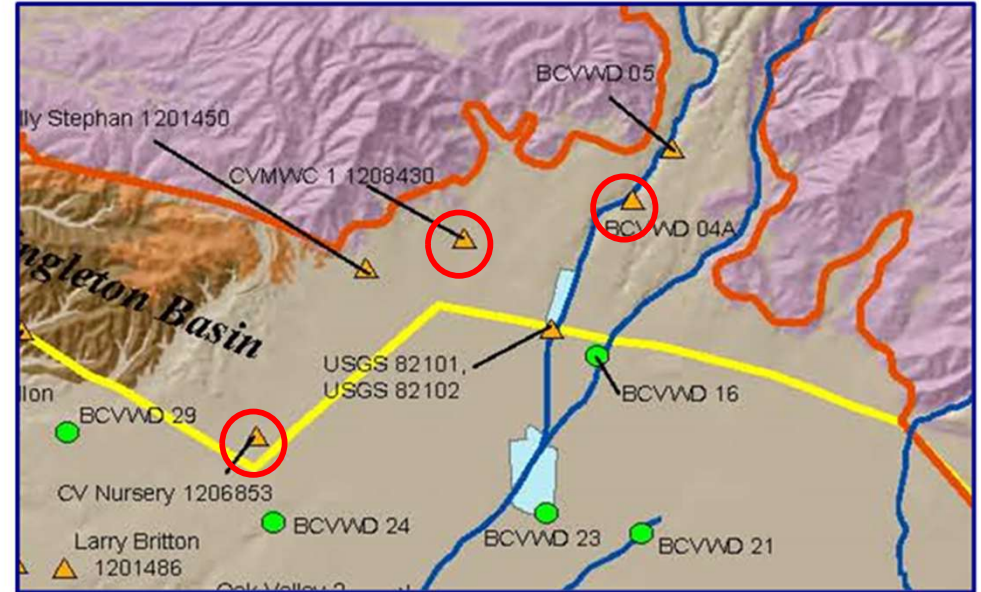
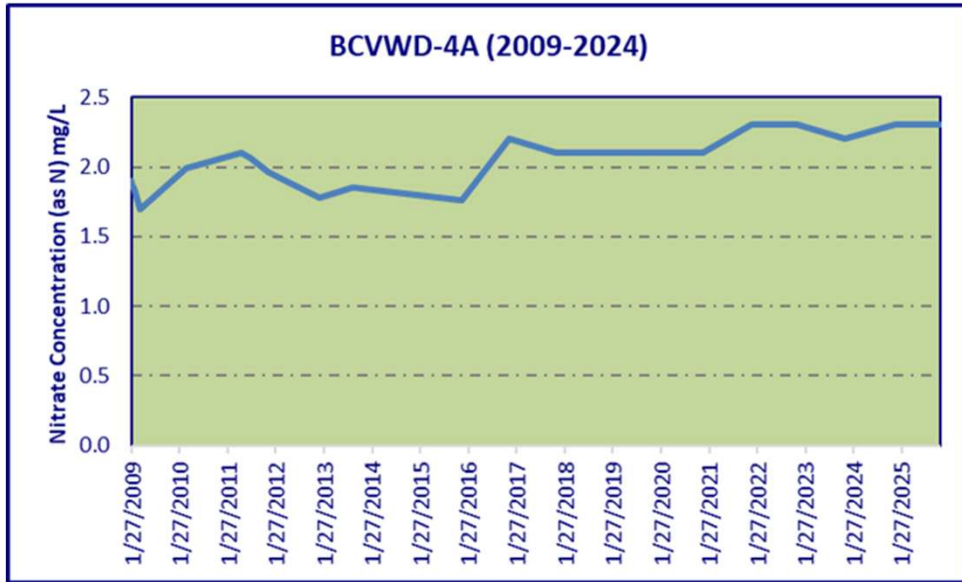


Figure 4-16
Singleton Basin – Historical Nitrate Concentration

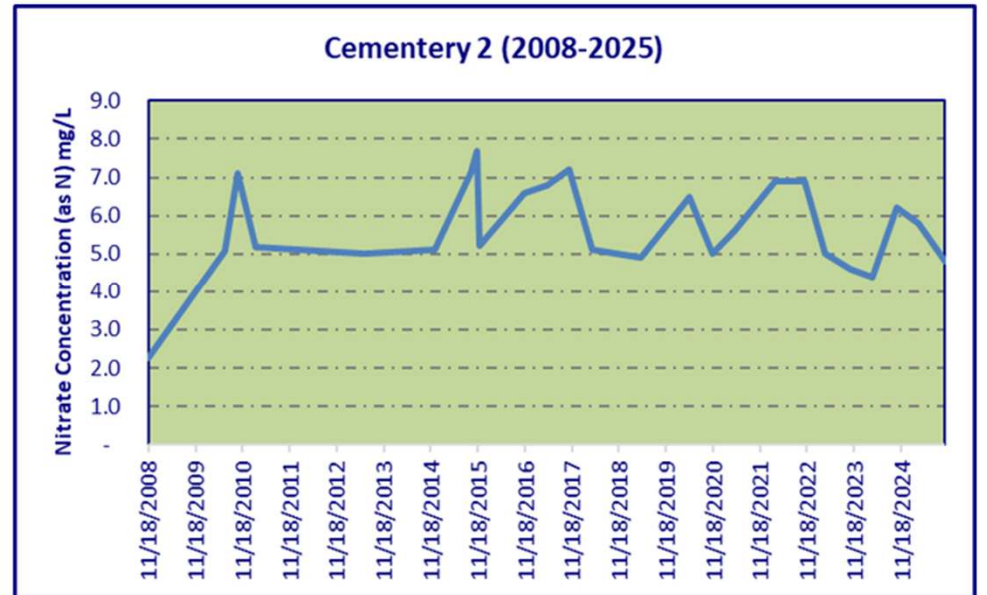
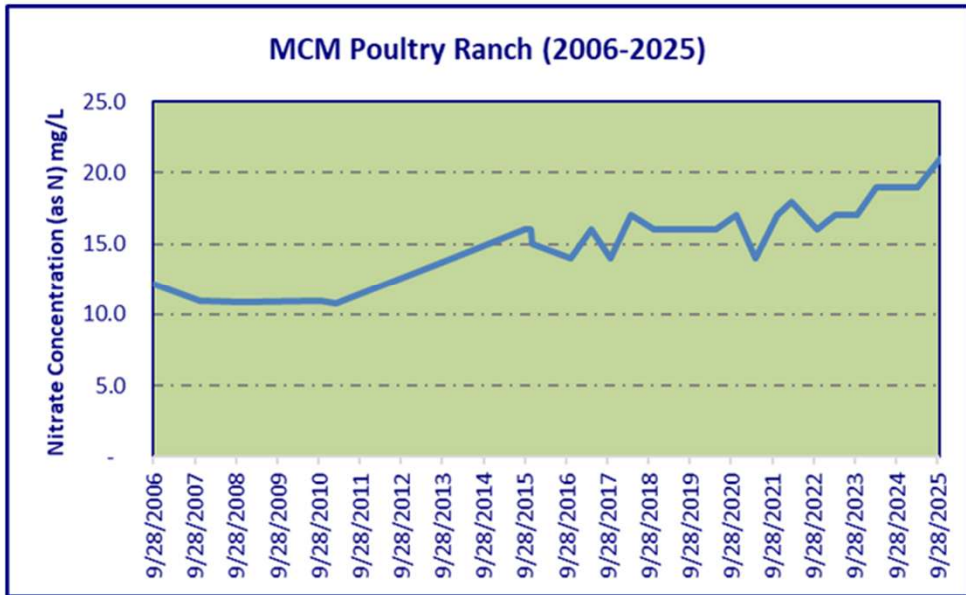
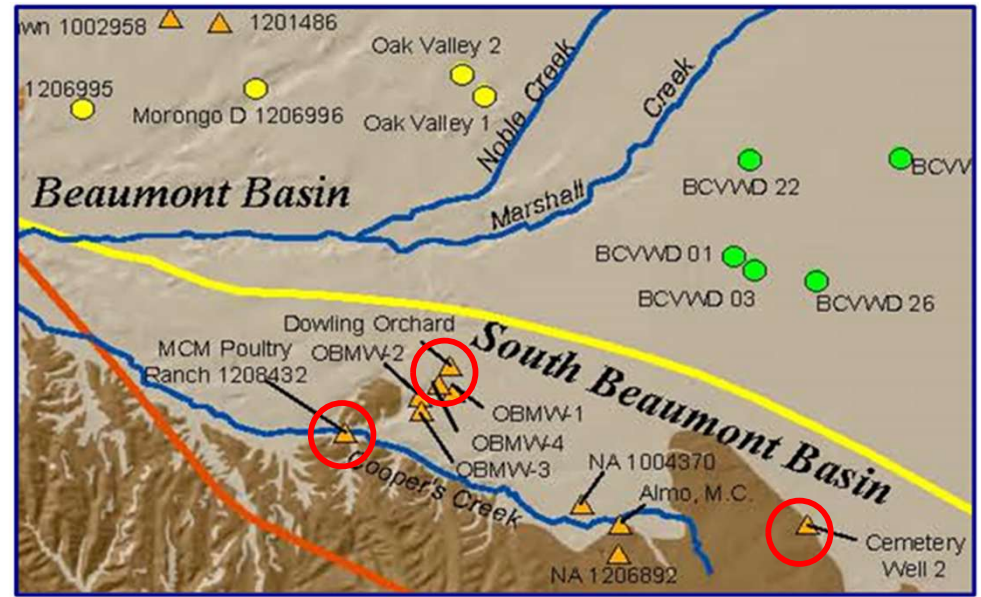
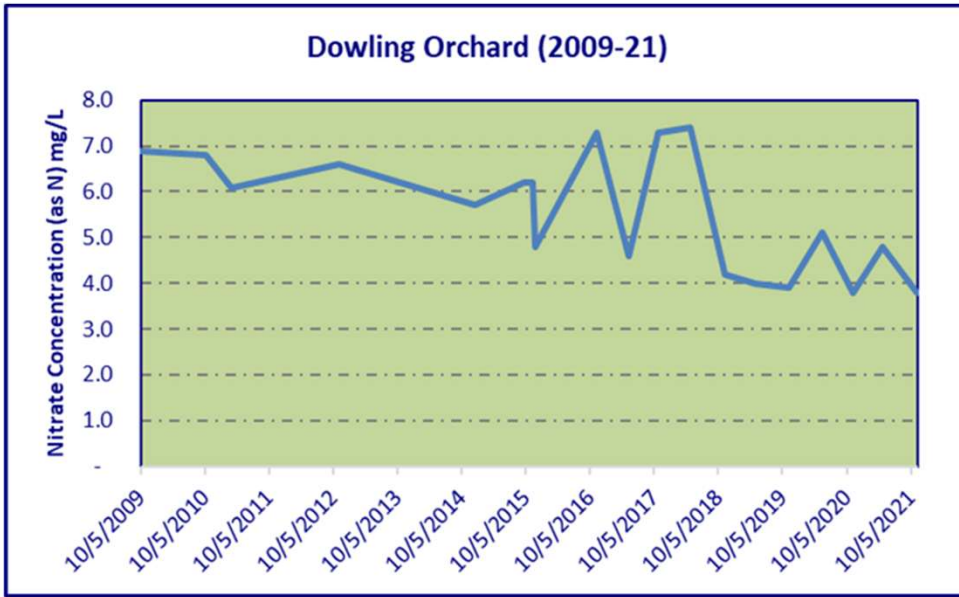


Figure 4-17
South Beaumont Basin – Historical Nitrate Concentration

Section 5

Land Subsidence

In the first ten years of operations under the Judgment, a temporary surplus was established that allows up to 160,000 ac-ft of overdraft within the Basin. The purpose of the temporary surplus was to create room for the safe storage of supplemental water and to reduce losses from the basin. A major concern is that overdraft of the groundwater basin may lead to the lowering of groundwater levels and, subsequently, to land subsidence and ground fissuring. To proactively address this concern, the STWMA and the Watermaster developed a monitoring program specifically to assess the occurrence of subsidence from past groundwater pumping and future pumping. To implement this program, the STWMA, on behalf of the Watermaster, successfully applied for an AB303 Grant from the California Department of Water Resources (DWR).

The Subsidence Monitoring Program was established in 2005. Initially, ground level information for the 1928 to 2000 period was analyzed. In mid to late 2006, 72 benchmark monuments were installed across the Basin and in nearby basins and an initial ground-level survey conducted to establish the initial elevations of all benchmarks. A second survey was conducted in 2007. A comparison analysis of the two surveying efforts reveals little vertical change; in addition, this minimum subsidence was evenly distributed across the Basin. According to the program, the ground level survey of all benchmarks was to be conducted on a tri-annual basis with the next round of survey scheduled for the spring of 2009. The 2009 survey was not conducted by Watermaster since it was determined that the level of subsidence was minimal. No additional surveys are scheduled at this time.

Appendix A

Minutes for the Regular and Special Committee Meetings held in 2025

**Record of the Minutes of the
Beaumont Basin Committee Meeting of the
Beaumont Basin Watermaster
Regular Meeting
Wednesday, February 5, 2025**

Meeting Location: Beaumont-Cherry Valley Water District
560 Magnolia Ave., Beaumont, CA 92223

I. Call to Order

Chair Art Vela called the meeting to order at 11:03 a.m.

II. Roll Call

<i>City of Banning</i>	<i>Art Vela</i>	<i>Present</i>
<i>City of Beaumont</i>	<i>Robert Vestal</i>	<i>Present</i>
<i>Beaumont-Cherry Valley Water District</i>	<i>Dan Jagers</i>	<i>Present</i>
<i>South Mesa Water Company</i>	<i>David Armstrong</i>	<i>Present</i>
<i>Yucaipa Valley Water District</i>	<i>Joseph Zoba</i>	<i>Present</i>

Hannibal Blandon was present as engineer for the Beaumont Basin Watermaster (BBWM).

Thomas Harder was present as hydrogeologist for BBWM.

Thierry Montoya was present as BBWM legal counsel.

Steve Stuart of Dudek was present as BBWM administrator.

Members of the public who registered and / or attended:

Allison Edmisten, Yucaipa Valley Water District
Erin Anton, Yucaipa Valley Water District
Joyce McIntire, Yucaipa Valley Water District
Mike Kostelecky, Yucaipa Valley Water District
Micah Knox, Yucaipa Valley Water District
Mickey Valdivia, San Geronio Pass Water Agency
Matt Ford, Thomas Harder & Co.
Jim Van de Water, Thomas Harder & Co.
Mark Swanson, Beaumont-Cherry Valley Water District
Lauren Healey, Thomas Harder & Co.
Matt Howard, San Geronio Pass Water Agency
Lance Eckhart, San Geronio Pass Water Agency
Sarah Wargo, San Geronio Pass Water Agency
Larry Smith, San Geronio Pass Water Agency
Kevin Walton, San Geronio Pass Water Agency
Thaxton Van Belle, City of Beaumont
Shah Nawaz, City of Banning
Robert Rasha, Beaumont-Cherry Valley Water District
Lynda Kerney, Beaumont-Cherry Valley Water District
Sean Walls
D. Lee

III. Pledge of Allegiance

IV. Public Comments: None.

V. Consent Calendar

A. Meeting Minutes

The Special Meeting slated for January 15, 2025 was cancelled

a. December 4, 2024 Special Meeting

B. Status Report on Water Level Monitoring throughout the Beaumont Basin through January 19, 2025

C. A Comparison of Production Rights versus Production through December 2024

It was moved by Member Jaggars and seconded by Member Zoba to approve Consent Calendar items A, B and C.

AYES:	Armstrong, Jaggars, Vela, Vestal, Zoba
NOES:	None
ABSTAIN:	None
ABSENT:	None
STATUS:	Motion Approved 5-0

VI. Reports

A. Report from Engineering Consultant – Hannibal Blandon, ALDA Engineering

Mr. Blandon reported there were stuck probes at Banning M-8 and BCVWD 25 wells. He will attend to them after the meeting.

B. Report from Hydrogeological Consultant – Thomas Harder, Thomas Harder & Co. (THC) – No report.

C. Report from Administrative Consultant – No report.

D. Report from Legal Counsel – Thierry Montoya – Frost, Brown, Todd
Counsel Montoya reported that the BBWM was in compliance with the California Public Records Act and had provided the requested data to the City of Beaumont. There is no reason or obligation for the Watermaster to follow up on whether the documents have met the satisfaction of the City or its consultants.

VII. Discussion Items

- A. Reorganization of the Beaumont Basin Watermaster Committee - Chair, Vice Chair, Secretary and Treasurer

Recommendation: Either reaffirm the existing officers or conduct nominations for the appointment of new officers of the Beaumont Basin Watermaster

It was moved by Member Zoba and seconded by Member Vela to reaffirm the current slate of officers for 2025:

Chairperson	Art Vela	City of Banning
Vice Chair	David Armstrong	South Mesa Water Company
Secretary	Dan Jagers	Beaumont-Cherry Valley Water District
Treasurer	Joseph Zoba	Yucaipa Valley Water District

AYES: Armstrong, Jagers, Vela, Vestal, Zoba
NOES: None
ABSTAIN: None
ABSENT: None
STATUS: Motion Approved 5-0

- B. Update on City of Beaumont Request for Files related to the Beaumont Basin Numerical Model

Mr. Montoya had addressed this under Item VI – D, above. Member Jagers reiterated that the request had been fulfilled, and Member Vestal acknowledged that the information had been received.

- C. Update on Thomas Harder & Co. (THC) Investigation into Basin Losses

Mr. Harder reminded the Board of approval at the December meeting to begin the scope of work and reviewed the tasks.

Task 1 Quantification of subsurface outflow: Mr. Harder presented a map depicting inflow and outflow of the Basin. Major outflow is on the southeast at Banning, and on the southwest through San Timoteo. The same conditions occur whether or not there are managed recharge conditions in the Basin, the question is how much. He said he will have numbers at the next meeting.

Task 2 Develop Imported Water Forecasts: Mr. Harder provided a table of historical annual water deliveries through 2022 and shared an analysis and assumptions for forecasted imported water deliveries. Harder suggested using a greater range in State Water Project allocations in the analyses. He noted that THC met with the San

Gorgonio Pass Water Agency (SGPWA) to obtain input and is soliciting further input. The goal is to have scenarios at the March meeting.

Member Zoba pointed out the average wet years may be overstated and suggested a frequency analysis to come up with the range, such as 80 to 100 percent of the time, the State Water Project will deliver 70 percent. Mr. Harder said he will consult SGPWA to determine what is the best way to represent the forecast.

Committee members provided input and discussed the SGPWA water supply portfolio and data to be included. Mr. Harder acknowledged concern about overestimation of supply when estimating the Safe Yield and requested guidance. He assured the Committee that the data would be vetted and SGPWA would be consulted to develop alternative Imported Water Forecasts, three of which will be presented to the Committee at the March meeting.

Lance Eckhart, general manager of SGPWA, noted that everything has changed. The last three years are more indicative of how things will operate in the future. There is a Sustainable Groundwater Management Agency adjacent to the east, and Desert Water Agency (DWA) has asked about the underflow component to the lower desert. SGPWA will need to model and measure outflow and needs to know the underflow input to the San Gorgonio Pass Basin from the Beaumont Basin. He cautioned against misalignment with the other model, and encouraged not rushing in order to be in synch with the other model.

Mr. Eckhart also noted the additional water supply sources, meaning that lack of SWP water is as much of a reality moving forward. The management structure is of meeting annual obligations of the BBWM to get it back to zero and get the Basin to the point where there is three to five years of drought storage.

Mr. Eckhart also advised of fault lines in the Brookside area, which will affect where recharge water moves in the Basin and how pumping is managed.

Banning Heights Mutal Water Company and BCVWD have certain diversion rights that aggregate into the outflows, Jagers noted. He said this likely could have an impact on what is available to each District and recommended making sure DWA and others downstream are not counting water that could be diverted.

D. Discussion on Proposed Revisions to the BBWM Rules and Regulations

Mr. Stuart presented the redline document. The intent is to come back in March for consideration of adoption.

Stuart identified the sections that could impact the management of the Basin and groundwater resources: negative storage accounts and

accounting for Basin losses, which should be thoroughly discussed before inclusion. He noted proposed revisions to the forms.

Chair Vela noted the suggestions capture the intent of the Watermaster. Members will submit comments to Mr. Stuart for compilation and presentation at the March meeting.

E. Update on Development of Water Year Storage Change Estimates for the Beaumont Basin

Mr. Harder reminded that the Storage Change Estimates are based on the Water Year to align with the SGMA requirements. The report is due on April 1. He presented the draft September 2024 contour map but noted there are several wells for which data has not yet been received. Once that data is received, the information will be presented at the next meeting.

Mr. Jaggars confirmed that two or three of the missing wells are golf course wells (Tukwet Canyon) and suggested obtaining the data from the Morongo Tribe. The goal is to get the information by Feb. 12.

F. Consideration of Proposed Thomas Harder & Co. / Alda Engineering Task Order No. 10 for Groundwater Level Monitoring Services in 2025

Mr. Harder advised that this contract should have come to the Committee in December but was overlooked. It is for the annual work performed by Alda Engineering to prepare the annual groundwater monitoring and manage the transducers. It is identical to the prior year, he noted.

It was moved by Member Jaggars and seconded by Member Vela to Approve Task Order No. 10 with Thomas Harder & Co. and scope of services in an amount not to exceed \$28,120 and invoice each member of the Watermaster Committee for 20 percent of the amount payable.

AYES:	Armstrong, Jaggars, Vela, Vestal, Zoba
NOES:	None
ABSTAIN:	None
ABSENT:	None
STATUS:	Motion Approved 5-0

G. Evaluation, Discussion, and Determination of Future Agenda Items

Mr. Stuart guided a discussion of the topics, all of which are still relevant. Following thorough discussion, the Topics for Future Meetings table was updated as shown below in Item VIII.

VIII. Topics for Future Meetings

	Item	Date Listed
A	Development of a Recycled Water Policy including Incidental Discharge	3/27/2019
B	Development of a return flow accounting policy	3/27/2019
C	Monitoring of future west side well sites and methodologies, and potential collaboration with USGS	10/5/2022
D	Discussion on what to do when an Appropriator goes negative	10/4/2023 and 11/1/2023
E	Discussion on Policy to Document and Account for Emergency Potable Water Transfers from Appropriator to Overlying Party (Tabled from 4/17/24 meeting)	4/17/2024
F	Procurement Policy including thresholds for RFP process	8/17/2021

IX. Comments from the Watermaster Committee Members: None.

X. Announcements:

2025 Meeting Dates:

Wednesday, March 5 at 11 a.m.	Special Meeting
Wednesday, April 2 at 11 a.m.	Regular Meeting
Wednesday, June 4 at 11 a.m.	Regular Meeting
Wednesday, August 6 at 11 a.m.	Regular Meeting
Wednesday, October 1 at 11 a.m.	Regular Meeting
Wednesday, December 3 at 11 a.m.	Regular Meeting

XI. Adjournment: *Chair Vela adjourned the meeting at 12:19 p.m.*

Attest:

 Daniel Jagers, Secretary
 Beaumont Basin Watermaster

**Record of the Minutes of the
Beaumont Basin Committee Meeting of the
Beaumont Basin Watermaster
Special Meeting
Wednesday, March 5, 2025**

Meeting Location:

Beaumont-Cherry Valley Water District
560 Magnolia Ave., Beaumont, CA 92223

I. Call to Order

Chair Art Vela called the meeting to order at 11:00 a.m.

II. Roll Call

<i>City of Banning</i>	<i>Art Vela</i>	<i>Present</i>
<i>City of Beaumont</i>	<i>Robert Vestal</i>	<i>Present</i>
<i>Beaumont-Cherry Valley Water District</i>	<i>Dan Jagers</i>	<i>Present</i>
<i>South Mesa Water Company</i>	<i>David Armstrong</i>	<i>Present</i>
<i>Yucaipa Valley Water District</i>	<i>Joseph Zoba</i>	<i>Present</i>

Hannibal Blandon was present as engineer for the Beaumont Basin Watermaster (BBWM).

Thomas Harder was present as hydrogeologist for BBWM.

Thierry Montoya was present as BBWM legal counsel.

Steve Stuart of Dudek was present as BBWM administrator.

Members of the public who registered and / or attended:

Thaxton Van Belle, City of Beaumont
Allison Edmisten, Yucaipa Valley Water District
Erin Anton, Yucaipa Valley Water District
Jennier Ares, Yucaipa Valley Water District
Micha Knox, Yucaipa Valley Water District
Joyce McIntire, Yucaipa Valley Water District
Mickey Valdivia, San Gorgonio Pass Water Agency
Lance Eckhart, San Gorgonio Pass Water Agency
Emmett Campbell, San Gorgonio Pass Water Agency
Matt Howard, San Gorgonio Pass Water Agency
Sarah Wargo, San Gorgonio Pass Water Agency
Kevin Walton, San Gorgonio Pass Water Agency
Matt Ford, Thomas Harder & Co.
Jim Van de Water, Thomas Harder & Co.
Mark Swanson, Beaumont-Cherry Valley Water District
Lauren Healey, Thomas Harder & Co.
Yasmeen Nubani
Daniel Slawson, Beaumont-Cherry Valley Water District
Robert Rasha, Beaumont-Cherry Valley Water District
Lynda Kerney, Beaumont-Cherry Valley Water District

III. Pledge of Allegiance

IV. Public Comments: None.

V. Workshop / Discussion Items

A. Consideration of 2024 Water Year Annual Change in Storage for Sustainable Groundwater Management Act (SGMA) Reporting

Recommendation: Approve the October 2023 to September 2024 estimate of the change in groundwater storage

Tom Harder of Thomas Harder & Co. advised the Committee that the Sustainable Groundwater Management Act requests the change in storage in the Basin for the Water Year, October 1, 2023 through September 30, 2024 to be submitted to the Department of Water Resources (DWR). He presented the draft analysis.

Mr. Harder described the areas where groundwater levels declined or increased and calculated 312 acre-feet, which is less than had been anticipated. Year over year, the decrease cancels out the increase, he explained.

Chair Vela asked about the increase near the lower Basin, and Mr. Harder theorized that Tukwet Canyon had not been pumping as much as previously. He recalled prior conversation about the drop in levels on the west side.

Member Jaggars pointed to the decline around Well 29 and noted the transducer has been out: data has not been recorded. Mr. Blandon indicated manual measurements had been taken. Jaggars assured that Well 29 pumping had been managed and said he suspected that first year data may not be indicative of trends over time. Harder expressed confidence, but acknowledged that the data can be counterintuitive, and noted that recharge does not show up in the Basin for a length of time.

It was moved by Member Zoba and seconded by Member Jaggars to approve the October 2023 to September 2024 estimate of the change in groundwater storage.

AYES:	Armstrong, Jaggars, Vela, Vestal, Zoba
NOES:	None
ABSTAIN:	None
ABSENT:	None
STATUS:	Motion Approved 5-0

B. Discussion and Consideration of Proposed Scenarios to Evaluate Basin Losses

Mr. Harder provided three scenarios of forecasts for State Water Project (SWP) deliveries.

He explained communication with the San Geronio Pass Water Agency (SGPWA) and the determination to go back to the historic DWR allocations as a basis for wet/dry scenarios. He presented the basis of forecasts of imported water deliveries for 2024 forward, and three preliminary scenarios for Table A water. He noted limitations of the methodology, as the dry year allocation seemed low. In response to a question from Chair Vela, Harder stated he was open to conversation with SGPWA and inclusion of other sources in their water portfolio. SGPWA General Manager Lance Eckhart provided suggestions.

Harder advised that the infiltration rates of the basins offer more than enough capacity. If the detail is desired, it needs to be determined in which of the basins the water would be spread. Mr. Jagers acknowledged the information showed water in some basins but not others, when all are being exercised. Chair Vela asked about the use of basins on the west side and Harder said none were included. The YVWD ASR operation was discussed. Member Zoba stated it would not impact anything. Matthew Ford of THC and Co. indicated the ASR wells are included in the model beginning in 2026.

Member Jagers noted that the water supply portfolio is reasonably robust in the near term and pointed to the operations of the SGPWA on the water market. He said he liked the approach.

Chair Vela brought up the future Sites Reservoir and pointed out that it would impact deliveries only during the average and dry years. He noted the physical constraints to delivery in wet years.

Mr. Harder will revise the scenarios.

C. Discussion of Comments on Proposed Revisions to Watermaster Rules and Regulations

Steve Stuart of Dudek presented the comments received from Committee members.

Mr. Stuart explained that the annualized safe yield replaces the operating safe yield and is calculated with the same methodology as the

change in storage. It is not required by the judgment but is informative and can help guide understanding of the safe yield from year to year. The Committee can determine whether or not to leave it in the Rules. Chair Vela recalled the terminology in the judgment and Mr. Stuart acknowledged they are different, and the definition of annualized safe yield should be added.

Mr. Stuart highlighted the proposed introduction of a new term, the overlying appropriative right to track water transferred from an overlying party to an appropriator, which is subject to adjustment upon redetermination of the safe yield.

Mr. Stuart discussed the question of return flow constituting supplemental water in the new yield and suggested going through the process of quantifying that water and determining how to account for and categorize it. Member Jagers pointed to the assessment of the unused overlier reallocation and need for balance. If not balanced, over time, the overlies are allocated more water, Jagers stated. Return flow is included in the numerical model, Stuart noted.

The Committee discussed a proposed new assessment of 1.5 times the current SGPWA supplemental water purchase for the depletion of a storage account. Funds would be divided equally between appropriators as an annual "rental." Chair Vela called for a more focused discussion prior to considering adding the suggested rule.

Mr. Stuart requested feedback from other Committee members for further discussion and to continue the process.

Member Jagers pointed to the suggestions related to water level monitoring procedures and noted that individual agencies should consider them best management practices. He also noted the section related maintenance of measuring devices and noted the BBWM is supposed to be performing the maintenance. He suggested the addition of language to assure responsibility for accuracy. Mr. Stuart suggested rather than responsibility, the Watermaster validate the accuracy through documentation.

VI. Topics for Future Meetings

	Item	Date Listed
A	Development of a Recycled Water Policy including Incidental Discharge	3/27/2019
B	Development of a return flow accounting policy	3/27/2019
C	Monitoring of future west side well sites and methodologies, and potential collaboration with USGS	10/5/2022

D	Discussion on what to do when an Appropriator goes negative	10/4/2023 and 11/1/2023
E	Discussion on Policy to Document and Account for Emergency Potable Water Transfers from Appropriator to Overlying Party (Tabled from 4/17/24 meeting)	4/17/2024
F	Procurement Policy including thresholds for RFP process	8/17/2021

VII. Comments from the Watermaster Committee Members:

Member Jagers pointed to communication from YVWD regarding Oak Valley Development Water Use; this should be memorialized. Member Zoba indicated it would be part of the annual report.

VIII. Announcements

Wednesday, April 2 at 11 a.m.	Regular Meeting
Wednesday, June 4 at 11 a.m.	Regular Meeting
Wednesday, August 6 at 11 a.m.	Regular Meeting
Wednesday, October 1 at 11 a.m.	Regular Meeting
Wednesday, December 3 at 11 a.m.	Regular Meeting

IX. Adjournment

Chair Vela adjourned the meeting at 12:07 p.m.

Attest:

 Daniel Jagers, Secretary
 Beaumont Basin Watermaster

**Record of the Minutes of the
Beaumont Basin Committee Meeting of the
Beaumont Basin Watermaster
Regular Meeting
Wednesday, April 2, 2025**

Meeting Location:

Beaumont-Cherry Valley Water District
560 Magnolia Ave., Beaumont, CA 92223

I. Call to Order

Chair Art Vela called the meeting to order at 11:00 a.m.

II. Roll Call

<i>City of Banning</i>	<i>Art Vela</i>	<i>Present</i>
<i>City of Beaumont</i>	<i>Robert Vestal</i>	<i>Present</i>
<i>Beaumont-Cherry Valley Water District</i>	<i>Dan Jagers</i>	<i>Present</i>
<i>South Mesa Water Company</i>	<i>David Armstrong</i>	<i>Present</i>
<i>Yucaipa Valley Water District</i>	<i>Joseph Zoba</i>	<i>Present</i>

Hannibal Blandon was present as engineer for the Beaumont Basin Watermaster (BBWM).

Thomas Harder was present as hydrogeologist for BBWM.

Thierry Montoya was present as BBWM legal counsel.

Members of the public who registered and / or attended:

Thaxton Van Belle, City of Beaumont
Allison Edmisten, Yucaipa Valley Water District
Erin Anton, Yucaipa Valley Water District
Jennifer Ares, Yucaipa Valley Water District
Micah Knox, Yucaipa Valley Water District
Joyce McIntire, Yucaipa Valley Water District
Nyles O’Harra, Yucaipa Valley Water District
Brett Granlund, Yucaipa Valley Water District
Brittany Lim, South Mesa Water Company
Lance Eckhart, San Gorgonio Pass Water Agency
Kevin Walton, San Gorgonio Pass Water Agency
Matthew Howard, San Gorgonio Pass Water Agency
Emmett Campbell, San Gorgonio Pass Water Agency
Shah Nawaz, City of Banning
Matt Ford, Thomas Harder & Co.
Jim Van de Water, Thomas Harder & Co.
Lauren Healey, Thomas Harder & Co.
Evan Ward, Beaumont-Cherry Valley Water District
Robert Rasha, Beaumont-Cherry Valley Water District
Lynda Kerney, Beaumont-Cherry Valley Water District
Wes Miliband, Miliband Water Law

III. Pledge of Allegiance

IV. Public Comments:

Attorney Wes Miliband, representing the Morongo Band of Mission Indians, provided written correspondence and requested the Committee agendaize a discussion on the transfer of overlying rights.

V. Consent Calendar

A. Meeting Minutes

- i. February 5, 2025 Regular Meeting
- ii. March 5, 2025 Special Meeting

B. Status Report on Water Level Monitoring throughout the Beaumont Basin through March 18, 2025

It was moved by Member Zoba and seconded by Member Jaggars to approve Consent Calendar items A and B

AYES: Armstrong, Jaggars, Vela, Zoba
NOES: None
ABSTAIN: None
ABSENT: Vestal
STATUS: Motion Approved 4-0

C. A Comparison of Production Rights versus Production through February 2025

It was moved by Member Jaggars and seconded by Member Zoba to approve Consent Calendar item C with correction to the Storage Account Balance table as of December 2024 (not 2023)

AYES: Armstrong, Jaggars, Vela, Zoba
NOES: None
ABSTAIN: None
ABSENT: Vestal
STATUS: Motion Approved 4-0

VI. Reports

A. Report from Engineering Consultant – Hannibal Blandon, ALDA Engineering

Mr. Blandon reported the problems at BCVWD well 25 have been solved and new probes will be installed. Banning M-8 continues to have problems and will be monitored on a monthly rather than hourly basis.

11:18 a.m. Committee Member Vestal arrived.

- B. Report from Hydrogeological Consultant – Thomas Harder, Thomas Harder & Co. (THC) – No report.
- C. Report from Legal Counsel – Thierry Montoya – Frost, Brown, Todd – No report.
- D. Financial Status Report – Period Ending February 28, 2025 – BBWM Treasurer Joe Zoba pointed to the report showing the fund balance status, budget status, and open and closed task orders. There were no questions.

VII. Workshop / Discussion Items

- A. Update on the Analysis of Losses in the Beaumont Basin - Thomas Harder & Co.

Recommendation: None. For information and discussion

Thomas Harder of Thomas Harder & Co. (TH&Co) presented an update on the progress of the Beaumont Basin loss analysis following the March Special Meeting. Harder recapped that the project is a forward-looking groundwater modeling effort intended to forecast potential basin losses under varying hydrological conditions. Since the March meeting, TH&Co engaged in detailed correspondence and a meeting with San Gorgonio Pass Water Agency (SGPWA) staff to refine imported water delivery scenarios.

Harder described the revised modeling approach based on three hydrologic scenarios: Baseline, Dry, and Wet. For each scenario, imported water deliveries were forecasted using historical Department of Water Resources (DWR) Table A allocation percentages corresponding to identified proxy periods. The Baseline scenario assumes an average hydrological period (2005–2014), Dry reflects about 10% below average conditions, and Wet reflects about 10% above average conditions. Detailed tables were shown to illustrate how these historical conditions and allocation percentages were used to generate assumptions about available imported water supplies and basin capacity over a 50-year forecast period.

The presentation detailed the model inputs, including the assumptions around the Brookside West Basins becoming operational in 2030, adjustments for basin capacity versus theoretical supply, and additional water sources such as Article 21, Nickel, Yuba, and Sites Reservoir supplies. Harder noted that under long-term average conditions, the basin would receive approximately 13,792 acre-feet annually, with lower averages for Dry conditions (11,033 AF) and higher for Wet conditions (16,292 AF).

Importantly, supplies were capped at 27,000 AF in any given year to reflect physical limitations.

Committee members expressed appreciation for the thorough work and coordination. Jagers noted that the modeling effort appeared robust and provided a solid foundation for anticipating boundary conditions for future imported water supplies. In closing, Harder outlined the next steps: finalizing the historical model runs with/without managed recharge, setting up and analyzing the forecasted recharge scenarios, conducting particle tracking analyses, and preparing to present results at a proposed July 2025 workshop.

B. Certification of Groundwater Production, Imported Water Spreading, and Change in Storage in the Beaumont Groundwater Basin in Water Year 2024

Recommendation: Certify groundwater production, imported water spreading, and change in storage in the Beaumont Basin in Water Year 2024

Anibal Blandon of ALDA presented the annual report of amount of production, groundwater production, the amount of important water deliveries and the changing groundwater storage done on a water year basis and reported to the DWR by April 1. He reviewed the figures in the report (water year):

- *Total production: 14,650 acre-feet (af)*
- *Metered production: 14,637 af (exceeding 99 percent of total production)*
- *State Water Project deliveries: 15,387 af*
- *Total water use: 14,650 af*
- *2024 change in storage for the water year: +312 af*

Blandon said this information was submitted to the BBWM Committee on March 20 and he understood it had been submitted to the DWR website. A copy of the final annual report will be submitted, also.

The Committee took no action: there was no vote to certify the report.

C. Independent Accountant's Financial Report of Agreed-Upon Procedures for the Beaumont Basin Watermaster

Recommendation: Receive and file the Independent Accountant's Financial Report for the period ending June 30, 2024

Treasurer Zoba presented the Report: Beginning the 2023-2024 fiscal year, the BBWM had an unrestricted fund balance of \$324,597. During

the year, the Watermaster collected \$197,730 in revenues and expended \$462,303 as contracts out with consultants. As of June 30 on 2024 the water master had an unrestricted net position of \$60,024.

It was moved by Member Jaggars and seconded by Member Armstrong to receive and file the Independent Accountant's Financial Report for the period ending June 30, 2024

AYES: Armstrong, Jaggars, Vela, Vestal, Zoba
NOES: None
ABSTAIN: None
ABSENT: None
STATUS: Motion Approved 5-0

D. Consideration of the Watermaster Budget for Fiscal Year 2025-26

Recommendation: Approve the Budget for Fiscal Year 2025-26 and invoice each Committee member for administrative expenses

Treasurer Joe Zoba reminded that costs are usually split between the five Committee member agencies. The Watermaster has not, however, recently been invoicing for administrative costs, which has tended to drive down the fund balance for legal fees which are not collected on a regular basis. This year's budget includes \$27,500 for legal expenses, reserve funding of \$20,000, and the annual audit for \$2,250. The recommended budget would necessitate invoicing each member for \$9,935 for routine administrative expenses.

Member Jaggars pointed out that the ESRI data management cost is recurring annually, and Member Zoba noted that it was a task order expense but could be included as an administrative cost. For the current contract year, the expense will come from reserves and will be addressed in next year's budget.

It was moved by Member Jaggars and seconded by Member Zoba to Approve the Budget for Fiscal Year 2025-26 and invoice each Committee member for administrative expenses

AYES: Armstrong, Jaggars, Vela, Vestal, Zoba
NOES: None
ABSTAIN: None
ABSENT: None
STATUS: Motion Approved 5-0

E. Presentation of Draft 2024 Consolidated Annual Report and Engineering Report

Recommendation: None. Presentation only; no action required

Hannibal Blandon of ALDA, Inc., in association with Thomas Harder & Company, presented the Draft 2024 Consolidated Annual Report and Engineering Report to the Committee. He highlighted key sections of the report, including resolutions, groundwater production, financials, basin conditions, water transfers, spreading, and water quality for the 2024 calendar year . The presentation also reviewed the Operating Safe Yield (OSY) estimates and provided a comparison of groundwater production trends among agencies and overlayers.

Member Armstrong questioned the Watermaster's engineering costs of \$375,000, noting a concern that basin studies have been ongoing since the 1930s. He recommended reducing redundant expenditures. Blandon clarified that the high cost was primarily due to the legally required ten-year Safe Yield re-evaluation, along with support work such as the basin loss analysis.

Committee members engaged in detailed discussions regarding precipitation trends, groundwater production fluctuations, and the impact of mass grading projects on production numbers. Jagers remarked that peak production figures could reflect construction cycles and encouraged a holistic view of production trends. Blandon acknowledged the value of including broader context in future reports, such as production compared to total water supply sources.

In reviewing groundwater storage accounting and flow directions, Tom Harder pointed out the Annual Report's section on the Operating Safe Yield (OSY) may no longer be meaningful due to inconsistencies in interpreting losses and changes in storage. Harder acknowledged that the OSY is not mentioned in the Judgement and is not informative for the Watermaster. Harder proposed removing the OSY section from the annual report. Member Zoba recommended retaining the OSY section but supplementing it with a historical table to monitor trends and better understand anomalies.

Chair Vela and Member Jagers agreed that while the OSY should be maintained for consistency and continuity, it must be accompanied by clear narrative explanations to prevent misinterpretation, especially when negative OSY values appear. Jagers further suggested that any perceived losses of water from the basin could be addressed in the future through physical recovery and redelivery efforts, highlighting potential operational strategies.

Based on the consensus of the Committee, the consultant was directed to retain the OSY section, provide historical data in tabular form, and add narrative language to explain and qualify results where necessary. Harder and Bandon confirmed they would implement these changes in the next draft.

Bandon provided a summary of groundwater quality observed from 2020 to 2024 at wells owned by the appropriators and overlayers. Chair Vela inquired about the status of new Chromium-6 regulations effective October 2024. Bandon confirmed that data reflecting the new standards were not yet available but agreed to add a note acknowledging this fact in the final report. Additionally, Committee members requested that the missing 2024 wastewater recharge data from the City of Beaumont be obtained and included in the final report. Bandon agreed to forward the outstanding data request to City representatives and coordinate follow-up.

Regarding next steps, Bandon requested formal written comments from the Committee members by May 16, 2025, to allow incorporation of edits before the June 4, 2025 regular meeting. Bandon committed to issuing reminders and providing an updated draft ahead of the meeting to facilitate Committee review and potential approval. There was also agreement that, if necessary, a second draft could be circulated in June, with final approval delayed until August.

VIII. Topics for Future Meetings

	Item	Date Listed
A	Development of a Recycled Water Policy including Incidental Discharge	3/27/2019
B	Development of a return flow accounting policy	3/27/2019
C	Monitoring of future west side well sites and methodologies, and potential collaboration with USGS	10/5/2022
D	Discussion on what to do when an Appropriator goes negative	10/4/2023 and 11/1/2023
E	Discussion on Policy to Document and Account for Emergency Potable Water Transfers from Appropriator to Overlying Party (Tabled from 4/17/24 meeting)	4/17/2024
F	Procurement Policy including thresholds for RFP process	8/17/2021

IX. Comments from the Watermaster Committee Members: None.

X. Announcements

Wednesday, June 4 at 11 a.m.	Regular Meeting
Wednesday, August 6 at 11 a.m.	Regular Meeting
Wednesday, October 1 at 11 a.m.	Regular Meeting
Wednesday, December 3 at 11 a.m.	Regular Meeting

XI. Adjournment

Chair Vela adjourned the meeting at 12:28 p.m.

Attest:



Daniel Jagers, Secretary
Beaumont Basin Watermaster

**Record of the Minutes of the
Beaumont Basin Committee Meeting of the
Beaumont Basin Watermaster
Special Meeting
Wednesday, June 11, 2025**

Meeting Location:

Beaumont-Cherry Valley Water District
560 Magnolia Ave., Beaumont, CA 92223

I. Call to Order

Chair Art Vela called the meeting to order at 11:03 a.m.

II. Roll Call

<i>City of Banning</i>	<i>Art Vela</i>	<i>Present</i>
<i>City of Beaumont</i>	<i>Dustin Christensen</i>	<i>Present</i>
<i>Beaumont-Cherry Valley Water District</i>	<i>Dan Jagers</i>	<i>Present</i>
<i>South Mesa Water Company</i>	<i>David Armstrong</i>	<i>Present</i>
<i>Yucaipa Valley Water District</i>	<i>Joseph Zoba (until 12:20 p.m.)</i>	<i>Present</i>
<i>Yucaipa Valley Water District</i>	<i>Jennifer Ares (after 12:20 p.m.)</i>	<i>Present</i>

Hannibal Blandon was present as engineer for the Beaumont Basin Watermaster (BBWM).

Thomas Harder was present as hydrogeologist for BBWM.

Thierry Montoya was present as BBWM legal counsel.

Steve Stuart was present as Administrator of the BBWM.

Members of the public who registered and / or attended:

Thaxton Van Belle, City of Beaumont
Erin Anton, Yucaipa Valley Water District
Jennifer Ares, Yucaipa Valley Water District
Joyce McIntire, Yucaipa Valley Water District
Mike Kostelecky, Yucaipa Valley Water District
Lance Eckhart, San Gorgonio Pass Water Agency
Sarah Wargo, San Gorgonio Pass Water Agency
Kevin Walton, San Gorgonio Pass Water Agency
Larry Smith, San Gorgonio Pass Water Agency
Blair Ball, San Gorgonio Pass Water Agency
Matthew Howard, San Gorgonio Pass Water Agency
Mickey Valdivia, San Gorgonio Pass Water Agency
Matt Ford, Thomas Harder & Co.
Lauren Healey, Thomas Harder & Co.
Daniel Slawson Beaumont-Cherry Valley Water District
Mark Swanson, Beaumont-Cherry Valley Water District
Robert Rasha, Beaumont-Cherry Valley Water District

Lynda Kerney, Beaumont-Cherry Valley Water District
Wes Miliband, Miliband Water Law
D. Lee
Anthony Mendoza

III. Pledge of Allegiance

IV. Public Comments: None.

V. Consent Calendar

A. Meeting Minutes

- i. April 2, 2025 Regular Meeting

B. Status Report on Water Level Monitoring throughout the Beaumont Basin through May 28, 2025

C. A Comparison of Production Rights versus Production through April 2025

It was moved by Member Zoba and seconded by Member Jagers to approve the Consent Calendar items:

AYES:	Armstrong, Christensen, Jagers, Vela, Zoba
NOES:	None
ABSTAIN:	None
ABSENT:	None
STATUS:	Motion Approved 5-0

VI. Reports

A. Report from Engineering Consultant – Hannibal Blandon, ALDA Engineering

Mr. Blandon reported some inconsistency issues at Yucaipa Well 34. He will investigate after the meeting.

B. Report from Hydrogeological Consultant – Thomas Harder, Thomas Harder & Co. (THC) – No report

C. Report from Administrative Consultant – Steve Stuart, Dudek

Mr. Stuart reminded everyone to use the microphones in order to be heard on the meeting recording.

D. Report from Legal Counsel – Thierry Montoya – Frost, Brown, Todd – No report.

11:06 a.m. City of Beaumont Alternate Member Christensen joined the meeting.

VII. Discussion Items

- A. Consideration of a request from the Morongo Band of Mission Indians (MBMI) to further amend the Beaumont Basin Judgment to authorize the transfer of overlying groundwater rights to other parties, including appropriators. The proposal would remove existing limitations that tie overlying rights to appurtenant land

Recommendation: Discussion only; no action

Legal Counsel Thierry Montoya summarized a request submitted by the Morongo Band of Mission Indians (MBMI) seeking to amend the Beaumont Basin Judgment to permit the transfer of overlying groundwater rights to third parties.

Mr. Montoya explained that the requested amendment would authorize unrestricted transfers of overlying rights, thereby establishing a private groundwater market and decoupling the rights from the land. He stated that such a change would be inconsistent with California water law, under which overlying rights are inherently appurtenant to the land. He explained that the amended judgment already allows for limited transfers under specific conditions, citing sections 3.3(b), 3.3(e), Rule 6.5, and Form 5.

Mr. Montoya also noted that the proposed amendment would undermine the current mechanism that returns unused overlying rights to the appropriative pool, thereby weakening appropriators' access to reserves and complicating long term management. He concluded that the Tribe had not demonstrated a sufficient legal ground to modify the judgment, and recommended that the Watermaster decline to advance the proposed amendment.

Watermaster administrator Steve Stuart supported counsel's position and elaborated on the only two existing mechanisms in the Judgment that allow for transfer of overlying rights:

- 1. When an appropriator provides potable water service to an overlier, the volume transferred compensates for the service.*
- 2. When an appropriator provides recycled water service to an overlier, the transfer is temporary and contingent on continued recycled water delivery.*

Mr. Wes Miliband, representing the Morongo Band of Mission Indians (MBMI), suggested Watermaster legal counsel's memorandum was based on inaccurate assumptions about the Tribe's request. He emphasized that the Tribe's April 1 letter was intended to initiate dialogue on a possible amendment to the Beaumont Basin Judgment—not to present a fully formed legal proposal. He stated that his expectation was for a process to begin, potentially through the formation of an ad hoc committee, a meaningful dialog between the Watermaster and the Tribe.

Miliband clarified that the Tribe's goal is to enable transferability of overlying rights. He stressed that the proposal is consistent with California water law, and noted that other groundwater basins and adjudicated judgments in California permit this type of flexibility.

He explained that the current Judgment is a forbearance judgment (an uncommon structure) which limits water use options by overlying right holders. This limitation, he argued, not only affects the Tribe but also impacts appropriators and Watermaster operations. Miliband cited a 2021 court ruling by Judge Asbury that acknowledged this restriction and reinforced the view that the Judgment, as written, constrains beneficial use.

Miliband expressed desire to engage the Watermaster legal counsel in meaningful academic discussion. He said he intended to provide more robust documentation.

Public Comment: Mr. Mickey Valdivia, General Manager of the Beaumont-Cherry Valley Recreation and Park District, advised that the BCVRPD is also an overlying party (approximately 233 acre-feet). He said he would like to be included in the discussion with Mr. Miliband.

Member Armstrong reminded the Committee this topic had been previously covered in depth, but said he is willing to listen.

Chair Vela called for comment from the Committee, and Member Jagers expressed openness to discussion but emphasized the need for a more clearly defined written proposal before considering next steps. He noted BCVWD's historical and ongoing management of the Basin through development and return flows, pointing out that BCVWD delivers water to some developments that did not supply water rights, as they were moved around to parcels within the specific plans. Jagers stated that, absent scientific or technical justification, an ad hoc committee was premature and recommended that initial discussion take place in a public engineering workshop format.

Chair Vela stressed the potential complications to the Watermaster, and pushed back on the idea that the water is not being put to beneficial use. He said he was open to suggestion as to how to continue the dialogue and recommended further information could be brought forward by the Tribe before additional discussion.

Mr. Miliband noted the comment provided by Member Armstrong was related to Rule 7.3 and did not address the judgment topic itself. He also clarified that there is not a maximization of the beneficial use of water, and that is what the Tribe is seeking to move forward. He noted there appeared to be a lack of interest on the part of the Committee and legal counsel to engage, and noted

if there was no change, it would be taken under consideration for the next step.

The Committee took no action.

B. Update on Thomas Harder & Co. Study on Basin Losses

Recommendation: None. Presentation only

Thomas Harder presented the preliminary results of Task 1 of the Basin Losses Study initiated under the scope of work submitted in November 2024. The analysis aimed to evaluate the impacts of managed recharge on subsurface inflow and outflow patterns in the Beaumont Basin, comparing conditions before (1978–2006) and after (2006–2022) the implementation of managed recharge. Using the basin’s numerical groundwater model, Harder assessed changes in flow dynamics and conducted particle tracking simulations to evaluate travel paths and residence times of recharged water.

Key findings included:

- Managed recharge has not altered the general flow directions into and out of the basin.*
- The West Beaumont area showed increased net inflow, primarily attributed to BCVWD’s Well 29 pumping, which induces a local groundwater depression.*
- In the East Beaumont area, managed recharge increased outflow at the Banning fault and reduced inflow from Cherry Valley due to changes in hydraulic gradients.*
- Particle tracking simulations indicated that managed recharge water remains in the basin as of December 2022 and has not exited the adjudicated area.*

Mr. Harder clarified that these results represent one element of the broader water budget and are distinct from safe yield determinations. He concluded by outlining next steps, including analysis of three future recharge scenarios in coordination with San Gorgonio Pass Water Agency (SGPWA).

Member Jagers discussed the mechanical operation of the Basin, and emphasized the value of strategically placed wells around recharge facilities to hydraulically control groundwater mounding. He noted that northward extraction could help restore inflow balance, and stressed the importance of mechanically operating the Basin in conjunction with hydrogeological considerations. Jagers also pointed out potential influences from return flows not fully represented in the model.

Lance Eckhart commended the study and advocated for regional coordination to manage mounding and distribute imported water more effectively. He noted

that such hydraulic controls could bring water quality and cost benefits. Eckhart also highlighted SGPWA budget allocations for a basin master planning effort, which would build on the findings presented.

C. Update on Draft 2024 Consolidated Annual Report and Engineering Report

Recommendation: Approve the 2024 Annual Report

Engineer Hannibal Blandon presented the most recent comments and technical updates to the draft Annual Report and noted that information on the operating safe yield and changes in groundwater levels had become available and was now included.

Three major content areas had been incomplete in the draft presented in April but were now fully developed and discussed:

- Treated Wastewater Discharge: The report's terminology was clarified to refer to "treated wastewater discharge" rather than "recharge," to reflect the fact that not all effluent is recharged to the Basin. Updated data from the City of Beaumont Wastewater Treatment Plant indicated an average discharge of 3.51 MGD in 2024, equating to approximately 3,958 acre-feet annually. Table 3-5 in the report was revised accordingly.*
- Chromium-6 (Cr-6) Update: A discussion of the new California Maximum Contaminant Level (MCL) for Hexavalent Chromium (10 µg/L effective October 1, 2024, with compliance due by October 1, 2026 for agencies serving more than 10,000 people) was included. Multiple wells in the basin exceeded or approached this limit, notably BCVWD Wells 25 and 26. Member Jagers noted that BCVWD Well 3, which is currently offline, also exceeds the MCL. He offered to provide data for inclusion in the final report.*
- Operating Safe Yield (OSY) for 2024: The OSY was calculated using updated production, recharge, and groundwater storage data. A storage increase of 839 acre-feet was noted from winter 2023 to winter 2024; however, due to substantial recharge volumes, the OSY was negative (-1,910 acre-feet). This figure reflects a short-term condition rather than a shift in long-term basin sustainability. Mr. Blandon explained that discrepancies in OSY values (-1,910 vs. -1,959 acre-feet) stemmed from updated production data submitted by the City of Banning after the draft report was circulated.*

Member Armstrong requested that Aquifer Storage and Recovery (ASR) activities on the western side of the Basin be brought forward for discussion in a future Watermaster meeting. Mr. Blandon clarified that ASR has not been agendized to date, and suggested it be formally proposed for future inclusion. Mr. Armstrong expressed interest due to the proximity of his own well to the ASR project and concerns about potential impacts on local groundwater conditions. Member Zoba noted that the required forms would be filed with the BBWM by YVWD, and that would be the time to provide an overview.

It was moved by Member Jagers and seconded by Member Armstrong to approve the 2024 Consolidated Annual Report and Engineering Report as presented with revisions as discussed.

AYES: Armstrong, Christensen, Jagers, Vela, Zoba
NOES: None
ABSTAIN: None
ABSENT: None
STATUS: Motion Approved 5-0

- D. Update on Proposed Revisions to Watermaster Rules and Regulations
Recommendation: None. Presentation only; no action required

Administrator Steve Stuart provided an update on the proposed revisions to the BBWM Rules and Regulations, last discussed at the March 5, 2025 Special Meeting. He pointed to a summary of committee comments and highlighted key areas of focus based on prior feedback from the City of Banning and Yucaipa Valley Water District.

Two primary topics were emphasized:

- 1. Return Flows: Mr. Stuart described the need to develop a methodology for quantifying return flows and determining how they should be credited in storage accounting. He referenced earlier work by Thomas Harder in April 2022 and stated his intention to bring forward a proposal at a future meeting to address both calculation and ownership attribution for return flows.*
- 2. Depletion of Appropriator Storage Accounts: The issue of appropriator accounts going negative was raised as a priority concern. Mr. Stuart noted that options under consideration include levying replenishment fees, implementing transfer mechanisms between parties, and creating procedures for addressing deficits through temporary water transfers or other accounting methods. He committed to presenting draft methodologies for discussion at the next meeting.*

Mr. Stuart also requested written comments from the agencies that had not already done so to complete the current phase of revisions and move toward formal consideration and adoption.

Member Jagers advocated for exploring strategic use of SGPWA storage accounts as a regional buffer against future overdraft. He suggested the SGPWA maintain a reserve within the Beaumont Basin that could be accessed in times of drought or when appropriators approach negative storage. Mr.

Jaggers proposed leveraging existing reserves (approximately 1,500 acre-feet locally and an additional 3,200 acre-feet stored externally) and encouraged integration of SGPWA into contingency planning. He emphasized that such an approach could provide regional flexibility and promote fairness, particularly for agencies with high usage levels.

Member Zoba acknowledged the value of the discussion but expressed concern over the possibility of broadly subsidizing deficits across agencies. He advocated for investment in regional water supply development—such as recycled water and local recharge projects—over reliance on imported water contracts that divert funds outside the region. Mr. Zoba urged a proactive strategy to strengthen basin resilience and reduce dependence on external sources.

Mr. Stuart indicated the discussion provided sufficient input and that no further guidance was required at this time. He will bring forward proposals at a future meeting addressing both return flow accounting and negative storage account management.

E. Proposed Schedule for Future Special Meetings of the Watermaster

Recommendation: Consider meeting dates and direct staff as desired

Mr. Stuart presented two proposed special meeting dates. Member Zoba expressed concern about the added \$12,000 cost to hold the extra meetings. Vela and Jaggers acknowledged potential loss of Committee momentum, but consensus was to stay with the existing schedule.

Chair Vela tabled this item. No added dates were set.

F. Thomas Harder & Co. Proposal to Participate in Future Special Meetings

Recommendation: Approve the proposal for future meeting support

Chair Vela tabled this item.

G. Certification of Groundwater Production, Imported Water Spreading, and Change in Storage in the Beaumont Groundwater Basin in Water Year 2024

Recommendation: Certify groundwater production, imported water spreading, and change in storage in the Beaumont Basin in Water Year 2024

Mr. Blandon advised that some of the groundwater production numbers require reconciliation. Chair Vela tabled this item.

VIII. Topics for Future Meetings

Item G was added at the request of Member Armstrong:

	Item	Date Listed
A	Development of a Recycled Water Policy including Incidental Discharge	3/27/2019
B	Development of a return flow accounting policy	3/27/2019
C	Monitoring of future west side well sites and methodologies, and potential collaboration with USGS	10/5/2022
D	Discussion on what to do when an Appropriator goes negative	10/4/2023 and 11/1/2023
E	Discussion on Policy to Document and Account for Emergency Potable Water Transfers from Appropriator to Overlying Party (Tabled from 4/17/24 meeting)	4/17/2024
F	Procurement Policy including thresholds for RFP process	8/17/2021
G	YVWD Aquifer Storage and Recovery (ASR) project	6/11/2025

IX. Comments from the Watermaster Committee Members: None.

X. Announcements

Wednesday, August 6 at 11 a.m.	Regular Meeting
Wednesday, October 1 at 11 a.m.	Regular Meeting
Wednesday, December 3 at 11 a.m.	Regular Meeting

XI. Adjournment

Chair Vela adjourned the meeting at 12:27 p.m.

Attest:


 Daniel Jagers, Secretary
 Beaumont Basin Watermaster

**Record of the Minutes of the
Beaumont Basin Committee Meeting of the
Beaumont Basin Watermaster
Special Meeting
Wednesday, August 6, 2025**

Meeting Location:

Beaumont-Cherry Valley Water District
560 Magnolia Ave., Beaumont, CA 92223

I. Call to Order

Chair Art Vela called the meeting to order at 11:02 a.m.

II. Roll Call

<i>City of Banning</i>	<i>Art Vela</i>	<i>Present</i>
<i>City of Beaumont</i>	<i>Dustin Christensen</i>	<i>Present</i>
<i>Beaumont-Cherry Valley Water District</i>	<i>Dan Jaggars</i>	<i>Present</i>
<i>South Mesa Water Company</i>	<i>David Armstrong</i>	<i>Present</i>
<i>Yucaipa Valley Water District</i>	<i>Joseph Zoba</i>	<i>Present</i>

Hannibal Blandon attended via teleconference as engineer for the Beaumont Basin Watermaster (BBWM).

Thomas Harder was present as hydrogeologist for BBWM.

Thierry Montoya was present as BBWM legal counsel.

Steve Stuart was present as Administrator of the BBWM.

Members of the public who registered and / or attended:

Thaxton Van Belle, City of Beaumont

Shah Nawaz, City of Banning

Erin Anton, Yucaipa Valley Water District

Jennifer Ares, Yucaipa Valley Water District

Joyce McIntire, Yucaipa Valley Water District

Mike Kostelecky, Yucaipa Valley Water District

Allison Edmisten, Yucaipa Valley Water District

Brett Granlund, Yucaipa Valley Water District

Lance Eckhart, San Gorgonio Pass Water Agency

Larry Smith, San Gorgonio Pass Water Agency

Emmett Campbell, San Gorgonio Pass Water Agency

Michael Plinski, San Bernardino Valley Municipal Water District

Jenny Savron, West Valley Water District

Matt Ford, Thomas Harder & Co.

Lauren Healey, Thomas Harder & Co.

Mark Swanson, Beaumont-Cherry Valley Water District

Lynda Kerney, Beaumont-Cherry Valley Water District

D. Lee

Erik M.

Travis Van Ligten

Jessica Wright
Anthony Mendoza

III. Pledge of Allegiance

IV. Public Comments: None.

V. Consent Calendar

- A. Meeting Minutes
 - i. June 11, 2025 Special Meeting
- B. Status Report on Water Level Monitoring throughout the Beaumont Basin through July 27, 2025
- C. A Comparison of Production Rights versus Production through June 2025
- D. City of Banning: Notification of New Well C8 within the Beaumont Basin

It was moved by Member Zoba and seconded by Member Jagers to approve the Consent Calendar items:

AYES:	Armstrong, Christensen, Jagers, Vela, Zoba
NOES:	None
ABSTAIN:	None
ABSENT:	None
STATUS:	Motion Approved 5-0

VI. Reports

- A. Report from Engineering Consultant – Hannibal Blandon, ALDA Engineering
Mr. Blandon advised that the completed 2024 Final Annual Consolidated Engineering Report should be posted in the next day or two.
- B. Report from Hydrogeological Consultant – Thomas Harder, Thomas Harder & Co. (THC) – No report
- C. Report from Administrative Consultant – Steve Stuart, Dudek – No report
- D. Report from Legal Counsel – Thierry Montoya – Frost, Brown, Todd – *Mr. Montoya reported that staff is responding to a Public Records Act request from the Morongo Band of Mission Indians.*

Montoya advised the Committee that no action could be taken during a Special Meeting.

VII. Discussion Items

- A. Update on Analysis of Losses in the Beaumont Basin - Thomas Harder & Co.

Recommendation: Discussion only; no action

Consultant Tom Harder of Thomas Harder & Company (TH&Co) provided an update on the ongoing modeling effort to evaluate changes in subsurface outflow under varying hydrologic conditions. He explained that three imported water delivery future scenarios—dry, baseline, and wet—were analyzed to assess how recharge affects basin underflow. Average deliveries over the 50-year forecast period ranged from about 11,000 acre-feet under dry conditions to about 16,000 acre-feet under wet conditions.

Harder reviewed model output comparing inflow and outflow across the basin boundaries. The West Study Area showed little change between the scenarios, with net underflow remaining near 5,500 acre-feet annually. The analysis showed that with managed recharge in the east side during a wet scenario there will be some increase in underflow to the west, but it's very minor. The East Study Area, however, displayed greater variability: under baseline conditions, net outflow was about 2,700 acre-feet per year; wet conditions increased that loss, while dry conditions reduced it. Harder emphasized that this portion of the analysis is limited to underflow and does not represent the full basin water balance or safe yield.

Harder then described particle tracking simulations from the Noble Creek and Brookside recharge sites. The results suggested that most recharge water remains within the basin during the 50-year model period, with only limited movement toward the southeastern boundary. Sensitivity runs using different porosity values indicated that the distance traveled by water molecules could vary, but the general pattern remained the same.

During discussion, Member Dan Jagers asked whether water quality implications, such as dilution of chromium-6, could be evaluated. Harder noted that such questions could be considered in the future. Chairman Vela inquired about the porosity assumptions, and Harder explained they were drawn from published values and varied across the model. Jagers also confirmed with Harder that, under the model assumptions, recharge water remains in the basin and is not lost to outside areas within the 50-year forecast period. He observed that particle tracking may differ across the Beaumont Plains fault.

In conclusion, Harder stated that preliminary results show little change in the West Basin, greater variability in the East Basin, and that underflow changes are largely due to pressure differences created by managed recharge. Particle tracking analysis suggests that most imported water does not leave the basin in the 50-year forecast period. He added that a technical memorandum is being

prepared to summarize the analysis and outline potential policy considerations for future discussion.

Public Comment – Lance Eckhart (San Geronio Pass Water Agency): Mr. Eckhart remarked that while the modeling is valuable, assumptions such as porosity are highly sensitive and should be treated cautiously. He suggested examining a “no pumping” scenario and emphasized coordination with neighboring Groundwater Sustainability Agencies (GSAs) to ensure consistent assumptions about water moving east into Cabazon and the Coachella Valley.

He noted that groundwater basins “breathe” during wet and dry cycles, complicating comparisons between short-term modeling and long-term safe yield. Eckhart encouraged continued investment in monitoring programs to provide empirical data on basin conditions, supported mound control as a management tool, and cautioned against policies that might discourage local storage of imported water. He also observed that recycled water and other new sources will play a role in basin management moving forward.

B. Update on Proposed Revisions to the BBWM Rules and Regulations

BBWM Administrator Steve Stuart reminded the Committee about the presentation of the proposed revisions and ongoing discussion. He stated he had received comments / feedback from two of the five member agencies and is seeking comment from the others by September 15. Comments would be incorporated into the revision and presented at the December meeting for consideration of adoption. He will send reminder emails.

C. Consideration to Retain Dudek to Evaluate and Develop Management Strategies for when Groundwater Storage Accounts are Negative

Recommendation: Enter into agreement with Dudek to evaluate and develop management strategies for negative groundwater storage accounts for a sum of \$29,780 and send invoices to each Watermaster Committee member for 20% of the approved amount

BBWM Administrator Steve Stuart noted that the Stipulated Judgment and Watermaster Rules and Regulations establish groundwater storage accounts for Appropriators and Storage Parties. He reminded that questions have been raised about how to address situations where an account becomes negative, either due to water availability or financial circumstances. He proposed Dudek research other agencies’ practices, assess management strategies, and recommend actions the Watermaster could adopt to prevent or remedy negative storage accounts. The proposed contract amount was \$29,780.

Committee members offered several perspectives. Member Jagers observed that BCVWD is the largest extractor in the basin and therefore has the greatest risk of being in deficit. He pointed out that a negative balance could arise for

different reasons: either the water was unavailable due to drought or system interruption, or the agency lacked funds to purchase supplemental water. Jagers described BCVWD's current pass-through funding mechanism, which collects money at the time of water sale to pay for imported water, and noted that this approach has kept the District's accounts in balance. He suggested the Committee consider developing rules that identify triggering events—such as drought or State Water Project interruptions—that could prompt collective action by the Watermaster.

Member Zoba expressed uncertainty about the need for an outside study. He commented that Watermaster members already understand the basic strategies to avoid going negative, and that self-management by the agencies could be more effective than relying on an engineering study. Zoba suggested that instead, the Committee could focus on developing a policy statement within the ongoing Rules and Regulations update. He acknowledged, however, that the Watermaster must still prepare for "what if" scenarios and define its responsibilities should a member agency's account go negative.

In response, Stuart noted that the Judgment already provides mechanisms for water transfers that could restore an account to balance. He added that Dudek's proposal was intended to gather and organize management options into a framework, but if the Committee preferred to frame a policy statement internally, that approach would also be workable.

Chair Art Vela recalled that the discussion originated with questions about the Watermaster's role if an agency goes negative. He stated that the ultimate goal was to avoid simply requiring the Watermaster to acquire water on behalf of an agency that fell short. Vela emphasized that a policy should include consequences or deterrents to discourage agencies from relying on the Watermaster to remedy their deficits, while still providing a clear plan of action.

Further discussion addressed potential supplemental sources of water, such as recycled water and return flows, which could provide more reliable options in the future. Jagers added that past droughts had demonstrated the need for flexible management and that off-site storage agreements and regional partnerships have strengthened reliability. He reiterated that advance planning and early recognition of triggering events would allow the Watermaster to convene and respond before a negative balance occurred.

After extended discussion, Zoba suggested tabling the item and rolling the matter into the Rules and Regulations update. He proposed that once policies addressing negative storage accounts are incorporated there, the Committee could reconsider whether additional technical work was necessary.

It was moved by Member Zoba and seconded by Member Jagers to continue this item to a later meeting.

AYES: Armstrong, Christensen, Jagers, Vela, Zoba
NOES: None
ABSTAIN: None
ABSENT: None
STATUS: Motion Approved 5-0

D. Consideration to Retain Dudek to Evaluate and Develop a Policy to Account for Return Flows in the Beaumont Basin

Recommendation: That the Watermaster Committee enter into agreement with Dudek to evaluate and develop a policy to account for return flows in the Beaumont Basin for a sum of \$27,400 and send invoices to each Watermaster Committee member for 20% of the approved amount

Steve Stuart explained that the proposal was a follow-up to a 2022 technical memorandum prepared by TH& Co. that estimated the volume of return flows to the Beaumont Basin. He noted that while the earlier work quantified return flows, the next step was to address ownership and accounting. Specifically, the study would confirm the legality of Appropriators claiming rights to return flows, review methodologies used elsewhere and develop a framework to incorporate return flows into groundwater storage accounts. Stuart emphasized that state precedent supports the right of purveyors to reuse their return flows, but clear policy was needed to formalize the process.

The proposal called for Dudek to conduct literature review and research, and then develop an approach for how return flows could be quantified and credited back to the agencies that generated them. Questions such as where water was applied, how it returned to the basin, and how much could properly be credited would be part of the evaluation. The contract amount was proposed at \$27,400, to be shared equally among the Watermaster members.

Committee members raised questions and observations. Member Armstrong observed that since SMWC had little or no services within the Beaumont Basin it may be exempt from participation. Stuart responded that rights to return flows would likely depend on where water was applied and whether it returned to the basin, suggesting that there could be cases where certain agencies would have no claim to return flows. Armstrong clarified that while South Mesa had limited involvement in return flows, his agency remained a team player and supported participating.

Member Jagers commented that the issue was particularly relevant to agencies overlying the basin. He observed that return flows contribute to the basin's average annual yield and therefore have long-term implications for basin management and the ten-year reevaluation. Jagers noted that return flows may vary by land use, citing older neighborhoods with irrigated turf and parks, compared to newer developments with less irrigation. He also cautioned

that state legislation promoting water conservation could reduce return flows over time, decreasing the benefit available for basin recharge.

Member Zoba emphasized the importance of considering not only the benefits of return flows but also their potential negative effects on water quality. He recommended that salt loading be included in the evaluation and stressed that agencies such as BCVWD and YVWD bear responsibility for salt management. Stuart confirmed that Dudek could incorporate water quality considerations into the study.

Chair Art Vela added that while some agencies, such as SMWC, may see little direct benefit, there could be indirect benefits across the basin. For example, if additional return flows are credited to Banning’s account, that might reduce the amount of imported water the city needs to purchase, leaving more water available to others. He cautioned against excluding agencies from participation, noting that proportionality arguments could complicate basin governance. Vela concluded that the proposal had potential basin-wide value and supported moving forward if the Committee was committed to developing a policy.

Several members indicated support for the proposal and agreed that the discussion was valuable. The Committee concurred on bringing the item back at the next regular meeting for action.

E. Consideration of Special Meetings / Workshops in 2025

Recommendation: Consider setting a schedule for special meetings / workshops in 2025

The Committee declined to add special meetings.

VIII. Topics for Future Meetings

	Item	Date Listed
A	Development of a Recycled Water Policy including Incidental Discharge	3/27/2019
B	Development of a return flow accounting policy	3/27/2019
C	Monitoring of future west side well sites and methodologies, and potential collaboration with USGS	10/5/2022
D	Discussion on what to do when an Appropriator goes negative	10/4/2023 and 11/1/2023
E	Discussion on Policy to Document and Account for Emergency Potable Water Transfers from Appropriator to Overlying Party (Tabled from 4/17/24 meeting)	4/17/2024
F	Procurement Policy including thresholds for RFP process	8/17/2021
G	YVWD Aquifer Storage and Recovery (ASR) project	6/11/2025

IX. Comments from the Watermaster Committee Members:

Member Armstrong pointed to Item VIII-G (above) and requested that the Yucaipa Valley Water District Aquifer Storage and Recovery (ASR) project be placed on a future agenda for Watermaster discussion, noting the importance of reviewing such projects at the Committee level. Member Zoba responded that information on the project is still being developed and stated that YVWD intends to bring a full report to the Watermaster once testing and data are available. The Committee agreed that the matter could be agendized for discussion at a future meeting.

Member Jagers reported that the City of Beaumont is making progress on their recycled water Adaptive Management Plan, leading toward better management of the Basin.

X. Announcements

2025 Meeting Dates:

Wednesday, October 1 at 11 a.m.	Regular Meeting
Wednesday, December 3 at 11 a.m.	Regular Meeting

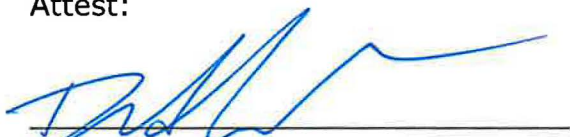
2026 Meeting Dates:

Wednesday, February 4 at 11 a.m.	Regular Meeting
Wednesday, April 1 at 11 a.m.	Regular Meeting
Wednesday, June 3 at 11 a.m.	Regular Meeting
Wednesday, August 5 at 11 a.m.	Regular Meeting
Wednesday, October 7 at 11 a.m.	Regular Meeting
Wednesday, December 2 at 11 a.m.	Regular Meeting

XI. Adjournment

Chair Vela adjourned the meeting at 12:08 p.m.

Attest:



Daniel Jagers, Secretary
Beaumont Basin Watermaster

**Record of the Minutes of the
Beaumont Basin Committee Meeting of the
Beaumont Basin Watermaster
Regular Meeting
Wednesday, October 1, 2025**

Meeting Location:

Beaumont-Cherry Valley Water District
560 Magnolia Ave., Beaumont, CA 92223

I. Call to Order

Chair Art Vela called the meeting to order at 11:04 a.m.

II. Roll Call

<i>City of Banning</i>	<i>Art Vela</i>	<i>Present</i>
<i>City of Beaumont</i>	<i>Dustin Christensen</i>	<i>Present</i>
<i>Beaumont-Cherry Valley Water District</i>	<i>Dan Jagers</i>	<i>Present</i>
<i>South Mesa Water Company</i>	<i>David Armstrong</i>	<i>Present</i>
<i>Yucaipa Valley Water District</i>	<i>Jennifer Ares</i>	<i>Present</i>

Hannibal Blandon was present as engineer for the Beaumont Basin Watermaster (BBWM).

Thomas Harder was present as hydrogeologist for BBWM.

Thierry Montoya was present as BBWM legal counsel.

Steve Stuart was present as Administrator of the BBWM.

Members of the public who registered and / or attended:

Thaxton Van Belle, City of Beaumont

Shah Nawaz, City of Banning

Erin Anton, Yucaipa Valley Water District

Mike Kostelecky, Yucaipa Valley Water District

Allison Edmisten, Yucaipa Valley Water District

Brett Granlund, Yucaipa Valley Water District

Brittney Lim, South Mesa Water Company

Lance Eckhart, San Geronio Pass Water Agency

Kevin Walton, San Geronio Pass Water Agency

Sarah Wargo, San Geronio Pass Water Agency

John Covington, Morongo Band of Mission Indians

Lauren Healey, Thomas Harder & Co.

Mark Swanson, Beaumont-Cherry Valley Water District

James Bean, Beaumont-Cherry Valley Water District

Cenica Smith, Beaumont-Cherry Valley Water District

Lynda Kerney, Beaumont-Cherry Valley Water District

Robert Rasha, Beaumont-Cherry Valley Water District

Stetson Engineering

D. Lee

III. Pledge of Allegiance

IV. Public Comments: None.

V. Consent Calendar

A. Meeting Minutes

- i. August 6, 2025 Special Meeting

B. Status Report on Water Level Monitoring throughout the Beaumont Basin through September 15, 2025

C. A Comparison of Production Rights versus Production through August 2025

D. Beaumont Basin Watermaster Committee 2026 Meeting Schedule

It was moved by Member Armstrong and seconded by Member Jagers to approve the Consent Calendar items:

AYES:	Armstrong, Ares, Christensen, Jagers, Vela
NOES:	None
ABSTAIN:	None
ABSENT:	None
STATUS:	Motion Approved 5-0

VI. Reports

A. Report from Engineering Consultant – Hannibal Blandon, ALDA Engineering

Mr. Blandon reported that September 30 was the end of the 2024-25 water year. Data is being collected to present to the Committee in February a draft of the required letter to the State with the conditions of the Basin.

B. Report from Hydrogeological Consultant – Thomas Harder, Thomas Harder & Co. (THC) – No report

C. Report from Administrative Consultant – Steve Stuart, Dudek – No report

D. Report from Legal Counsel – Thierry Montoya – Frost, Brown, Todd – *Mr. Montoya reminded that he was asked by Chair Vela to look at the issue of whether injection wells installed in the Basin raise a Watermaster oversight issue. With no information on particular wells or specific water quality issues, Mr. Montoya generally examined the amended judgement and identified provisions that could impose BBWM oversight in a general sense. More information would be needed on wells and water quality.*

VII. Discussion and Possible Action Items

Chair Vela called Item D out of order.

- D. Discussion of Beaumont Basin Watermaster Responsibilities, Powers, and Duties regarding Basin Oversight related to proposed recycled water recharge projects and Yucaipa Valley Water District and the City of Beaumont

Recommendation: None. Information / discussion only

Member Jagers explained that he placed the item on the agenda due to increasing activity by the Yucaipa Valley Water District (YVWD) and the City of Beaumont related to proposed recharge and Aquifer Storage and Recovery (ASR) wells. He stated that the Beaumont-Cherry Valley Water District (BCVWD) overlies most of the basin and that advancing projects in the basin warranted a presentation to the Watermaster. Jagers noted that YVWD had been asked to provide a discussion of its ASR wells but had not yet done so. He described reviewing recent YVWD staff reports and CEQA materials and expressed concern that recent project actions appeared to differ from what was described in earlier CEQA documents.

Jagers summarized his understanding of YVWD's recent board actions, stating that wells released for construction in 2024 and 2025 appeared to exceed the scope of the original Phase One CEQA plan, which anticipated one test injection well and one monitoring well. He observed that three injection wells were constructed, and additional extraction wells were being pursued. Jagers stated his interest in receiving updated information explaining the changes and allowing others an opportunity to comment. He also referenced elements from YVWD's August board agenda, including actions related to the "Calimesa Crystal Vault" and bond authorizations.

Jagers emphasized the BBWM responsibility to provide basin management. He stated that advanced treated recycled water projects represented significant financial investments and that basin health must be maintained for future generations. He described BCVWD's long history in the basin and noted interest in the City of Beaumont's recharge activities as well. All such activities should occur transparently and within public forums.

Jagers reviewed Watermaster responsibilities including basin administration, approval of producer activities, water quality and supply management, well policy, replenishment, monitoring, and groundwater storage agreements. He identified storage agreements as a central concern and stated that BCVWD and the City of Beaumont have storage agreements with recharge provisions, whereas YVWD's agreement does not have the recharge box checked. Jagers stated that, based on his reading of the judgment and Rules and Regulations, YVWD would need to apply for a modification to its storage agreement if it intends to conduct recharge.

Jaggers expressed concern that construction and bidding activities were moving forward without prior Watermaster review or application submission. Allowing projects to proceed without Watermaster oversight could limit the Watermaster's ability to manage the basin. He also stated that overlies and nearby well owners, such as golf courses and existing water systems, may be affected and ought to have an opportunity to understand the potential impacts.

Jaggers further noted that BCVWD had notified the Watermaster in October 2023 regarding its own work on two wells, citing that transparency is essential for all agencies. He reiterated that CEQA documentation for YVWD's project appeared to rely on categorical exemptions that may not reflect current project activities. He asserted that these issues warranted open discussion and early involvement by the Watermaster.

In closing, Jaggers stated that he was not opposed to recharge or ASR projects but wanted to ensure that basin health, regulatory compliance, and fair treatment of all basin parties, including overlies, were maintained. He emphasized constructive input, early coordination, and a clear understanding of proposed activities before major investments are finalized.

Member Armstrong stated that he shared Jaggers' concerns and noted that, as a well owner, he could be directly affected. He described contacting the State Water Resources Control Board regarding YVWD's project and receiving conflicting information about whether recycled water or potable water would be injected. Armstrong agreed that the Watermaster had a responsibility to seek information and ensure no adverse impacts occur.

Committee members, including Chair Vela, emphasized that Watermaster responsibilities include receiving applications for recharge of supplemental water and that early information could help alleviate uncertainties. Vela stated that while a complete data set may not yet be available, an initial presentation from YVWD would still be beneficial to the Watermaster and the public.

Public comment: John Covington, representing the Morongo Band of Mission Indians, pointed out that overlies lack representation on the Watermaster Committee and have historically experienced a lack of transparency. He described past interactions with the Watermaster related to an overlie project and expressed concern that current recharge discussions again appeared to move forward without adequate inclusion of overlies.

Public comment: YVWD Board Member Brett Granlund responded that YVWD holds transparent board meetings and that its general manager takes direction from the YVWD Board rather than the Watermaster. He stated that YVWD would provide information and presentations once necessary data and finalized project details are available. Granlund remarked that no Watermaster Committee members had previously requested meetings with him directly.

Legal counsel Thierry Montoya advised that questions regarding CEQA compliance should be addressed carefully and urged YVWD to present information clarifying the project and resolving concerns. He also noted that allegations of CEQA deficiencies should be verified and addressed as needed.

Member Jennifer Ares stated that YVWD cannot yet provide the information being requested because testing and consultant data are still pending, and that a full report will be brought to the Watermaster once that information becomes available. She emphasized that the project is subject to required approvals and multiple checks and balances, and that YVWD maintains transparency through its public meetings.

Participants expressed a desire for future presentations and discussions to ensure basin oversight responsibilities are met and that all basin stakeholders have adequate information about potential recharge activities.

Member Jaggars moved that the Watermaster Committee formally request the Yucaipa Valley Water District:

- Submit an application for groundwater recharge, utilizing the recycled water in accordance with Beaumont Basin Watermaster rules and regulations section five: Recharge as they stand now
- Provide a presentation on the subject project at the next regularly scheduled meeting or a special meeting

Member Armstrong seconded.

Member Ares pointed out that the recommendation on the item is for discussion only and posited that there can be no motion. Legal Counsel Montoya concurred. Jaggars informally requested this item be brought back in 30 days.

No action was taken. A legal update was requested for the next meeting and was placed on the Topics for Future Meetings list.

- A. Update on Analysis of Losses in the Beaumont Basin - Thomas Harder & Co.

Recommendation: None. Information / discussion only

Consultant Tom Harder of Thomas Harder & Company (TH&Co) provided an update on the ongoing analyses. He stated the technical memorandum is complete except for the policies, which warrant review by Engineer Blandon and Administrator Stuart. He said it is expected the draft policy will be presented at the December meeting.

- B. Update on Proposed Revisions to the BBWM Rules and Regulations

BBWM Administrator Steve Stuart reminded the Committee about progress on the revisions. Rules, terminology, and forms needed updating, to bring those up to speed with everything that the Watermaster Committee has been talking

about and deliberating on for the last couple of years. Revisions were presented last year, and comments have been received from members except the City of Beaumont. Some comments were contradictory or in conflict, he noted. Once received, the comments will be compiled into a redline version for discussion. Member Christensen indicated he would follow up.

C. Consideration to Retain Dudek to Evaluate and Develop Management Strategies for when Groundwater Storage Accounts are Negative

Recommendation: Enter into agreement with Dudek to evaluate and develop a policy to account for return flows in the Beaumont Basin for a sum of \$27,400 and send invoices to each Watermaster Committee member for 20% of the approved amount

BBWM Administrator Steve Stuart reminded about discussion of this item at the previous meeting when the Committee was unable to take action. He described the proposal:

- Revisit the methodology of calculating return flows back to the basin and expanding more on that.*
- Examine legal precedent for the appropriateness to take a claim to the return flows*
- Capture of water accounting for it in storage accounts*
- Further updating the information from the 2019 and 2022 Thomas Harder studies on return flows into the basin*
- Preparing a technical memorandum that lays out how to move forward*

Stuart estimated the time frame for completion to be from six to nine months.

Member Jagers indicated support and pointed out this is to help understand the health of the Basin over time, taking into consideration the new Making Conservation a California Way of Life reductions.

It was moved by Member Jagers and seconded by Member Vela to enter into agreement with Dudek to evaluate and develop a policy to account for return flows in the Beaumont Basin for a sum of \$27,400 and send invoices to each Watermaster Committee member for 20% of the approved amount.

AYES:	Ares, Armstrong, Christensen, Jagers, Vela
NOES:	None
ABSTAIN:	None
ABSENT:	None
STATUS:	Motion Approved 5-0

D. *Item D was heard earlier in the meeting.*

VIII. Topics for Future Meetings

	Item	Date Listed
A	Development of a Recycled Water Policy including Incidental Discharge	3/27/2019
B	Monitoring of future west side well sites and methodologies, and potential collaboration with USGS	10/5/2022
C	Discussion on what to do when an Appropriator goes negative	10/4/2023 and 11/1/2023
D	Discussion on Policy to Document and Account for Emergency Potable Water Transfers from Appropriator to Overlying Party	Tabled 4/17/2024
E	Procurement Policy including thresholds for RFP process	8/17/2021
F	Presentation on YVWD Aquifer Storage and Recovery (ASR) project (discussed 10/1/2025 / requested for 12/3/25 / to be presented February 2026)	6/11/2025
G	Legal Counsel update / opinion on the YVWD Aquifer Storage and Recovery (ASR) project	10/1/2025

IX. Comments from the Watermaster Committee Members: None.

Chair Vela said he would provide legal counsel with a request for the appointment of Shah Nawaz as the City of Banning’s alternate, replacing Nate Smith.

X. Announcements

A special meeting in November 2025 was considered but not calendared.

2025 Meeting Dates:

Wednesday, December 3 at 11 a.m. Regular Meeting

2026 Meeting Dates:

Wednesday, February 4 at 11 a.m. Regular Meeting

Wednesday, April 1 at 11 a.m. Regular Meeting

Wednesday, June 3 at 11 a.m. Regular Meeting

Wednesday, August 5 at 11 a.m. Regular Meeting

Wednesday, October 7 at 11 a.m. Regular Meeting

Wednesday, December 2 at 11 a.m. Regular Meeting

XI. Adjournment

Chair Vela adjourned the meeting at 12:07 p.m.

Attest:



Daniel Jagers, Secretary
Beaumont Basin Watermaster

**Record of the Minutes of the
Beaumont Basin Committee Meeting of the
Beaumont Basin Watermaster
Regular Meeting
Wednesday, December 3, 2025**

Meeting Location:

Beaumont-Cherry Valley Water District
560 Magnolia Ave., Beaumont, CA 92223

I. Call to Order

Chair Art Vela called the meeting to order at 11:00 a.m.

II. Roll Call

<i>City of Banning</i>	<i>Art Vela</i>	<i>Present</i>
<i>City of Beaumont</i>	<i>Robert Vestal</i>	<i>Present</i>
<i>Beaumont-Cherry Valley Water District</i>	<i>Mark Swanson</i>	<i>Present</i>
<i>South Mesa Water Company</i>	<i>David Armstrong</i>	<i>Present</i>
<i>Yucaipa Valley Water District</i>	<i>Joe Zoba</i>	<i>Present</i>

Hannibal Blandon was present as engineer for the Beaumont Basin Watermaster (BBWM).

Thomas Harder was present as hydrogeologist for BBWM.

Thierry Montoya was present as BBWM legal counsel.

Steve Stuart was present as Administrator of the BBWM.

Members of the public who registered and / or attended:

Thaxton Van Belle, City of Beaumont

Shah Nawaz, City of Banning

T. Milford Harrison, San Bernardino Valley Municipal Water District

Paul R. Kielhold, San Bernardino Valley Municipal Water District

Michael Plinski, San Bernardino Valley Municipal Water District

Erin Anton, Yucaipa Valley Water District

Mike Kostelecky, Yucaipa Valley Water District

Allison Edmisten, Yucaipa Valley Water District

Brett Granlund, Yucaipa Valley Water District

Joyce McIntire, Yucaipa Valley Water District

Jennifer Ares, Yucaipa Valley Water District

Anthony Mendoza, Eastern Municipal Water District

Brittney Lim, South Mesa Water Company

Matt Ford, Thomas Harder & Co.

Dan Jagers, Beaumont-Cherry Valley Water District (as a member of the public)

Lynda Kerney, Beaumont-Cherry Valley Water District

Robert Rasha, Beaumont-Cherry Valley Water District

III. Pledge of Allegiance

IV. Public Comments: None.

V. Consent Calendar

A. Meeting Minutes

- i. October 1, 2025 Special Meeting

B. Status Report on Water Level Monitoring throughout the Beaumont Basin through November 12, 2025

C. A Comparison of Production Rights versus Production through October 2025

D. Receive and File Proposed Order for Substitution of City of Banning's Alternate Watermaster Representative (Shah Nawaz)

It was moved by Member Zoba and seconded by Member Vestal to approve the Consent Calendar items:

AYES:	Armstrong, Swanson, Vela, Vestal, Zoba
NOES:	None
ABSTAIN:	None
ABSENT:	None
STATUS:	Motion Approved 5-0

VI. Reports

A. Report from Engineering Consultant – Hannibal Blandon, ALDA Engineering

Mr. Blandon advised that he would be making repairs to groundwater monitoring equipment after the meeting.

B. Report from Hydrogeological Consultant – Thomas Harder, Thomas Harder & Co. (THC)

Mr. Harder reported on recent coordination efforts with the San Geronio Pass Water Agency regarding groundwater modeling. The agencies discussed aligning their respective groundwater models for the Cabazon–Beaumont area to ensure consistency between BCVWD's modeled outflows and SGPWA's modeled inflows for GSA purposes. SGPWA will make a formal data request for BCVWD's updated model files and related information, and staff anticipates coordinating closely on this effort.

Harder also noted progress on regional monitoring infrastructure. A first SGPWA monitoring well has been installed near the boundary between the Beaumont Basin and the Banning Basin, with a second well either already underway or expected to be drilled shortly. Data from these wells will provide valuable information for groundwater management and model calibration.

Harder clarified for the group that the SGPWA did not provide funding for BCVWD's model development. However, BCVWD had previously shared an older version of its model with SGPWA for use in developing their own. He added that BCVWD's updated model differs significantly, including a revised layer structure, which is the primary reason the SGPWA is seeking alignment.

Chair Vela commented that the SGPWA had developed a model in the past to support IRWM or SGMA-related efforts. Mr. Zoba suggested BCVWD consider inviting the SGPWA to participate as a funding partner in future model-related work, creating a shared, open-source model for mutual use.

- C. Report from Administrative Consultant – Steve Stuart, Dudek – No report
- D. Report from Legal Counsel – Thierry Montoya – Frost, Brown, Todd

Thierry Montoya provided an update on his review of potential Watermaster concerns related to Yucaipa Valley Water District's proposed injection of recycled water into the basin. He stated that, at the Board's request, he evaluated whether the entitlement phase of the project posed any issues for the Watermaster. His review of the CEQA process found no irregularities, noting that YVWD's reliance on a small equipment categorical exemption was consistent with statutory exemptions and applicable case law.

The entitlement phase itself does not create any harm or risk to the Watermaster. The only potential concern would arise if water were injected without an approved storage account, in which case the Watermaster would have authority under the judgment to take action, including seeking an injunction, to protect water quality. However, he stated that this scenario is not anticipated, as YVWD does not intend to inject water without proper authorization.

Mr. Montoya reported that, based on discussions with Joe Zoba, YVWD plans to complete its entitlement process, compile water quality data, and then formally request a storage account. He recommended that, when the District is ready, staff circulate the request to the Committee and coordinate with Mr. Stuart to complete the appropriate forms, at which point information regarding the quantity of water, water quality, and number of wells would be available for consideration.

Chair Vela asked whether the proposed injection would involve an amendment to YVWD's existing storage account or a new account. Montoya responded that it was unclear and would depend on how YVWD elects to proceed. Dan Jagers commented that, based on his review of existing storage account records, the current YVWD storage account did

not indicate recharge of new or supplemental water, suggesting that the matter would still need to be addressed through the Watermaster process. Jagers also stated that BCVWD would be interested in evaluating groundwater modeling impacts related to existing and planned master wells that have been documented since 2015.

VII. Discussion and Possible Action Items

A. Update on Analysis of Losses in the Beaumont Basin - Thomas Harder & Co.

Consultant Tom Harder of Thomas Harder & Company (TH&Co) explained that the analysis of losses in the Beaumont Basin is intended to evaluate whether supplemental water recharged into the Basin contributes to subsurface outflow and how this affects storage accounts. He reviewed the scope of work completed to date, including historical analysis of subsurface outflow, coordination with SGPWA on imported water forecasts, preparation of model input files, and presented preliminary findings.

Harder summarized results from particle-tracking analyses, noting that recharged water introduced into the Basin is not predicted to physically leave the basin over a 25-year period. However, recharge creates groundwater mounding that increases hydraulic pressure, which can force additional native groundwater out of the Basin. As a result, changes in recharge rates can affect the volume of underflow leaving the basin, even if the recharged water itself remains within Basin boundaries.

Harder reviewed historical trends comparing storage accounts and modeled physical storage from 2014 to 2024. During that period, storage accounts increased by approximately 22,000 acre-feet, while physical storage in the basin declined by approximately 9,700 acre-feet. He noted that this divergence indicates a growing discrepancy between paper storage accounts and actual basin conditions. While the long-term trends generally track together, he expressed concern that continued divergence could pose issues if projected forward.

Turning to forecast conditions, Harder explained that under the baseline scenario storage accounts are projected to decline faster than physical storage. He attributed this outcome primarily to significantly higher groundwater pumping rates assumed in the forecast compared to historical conditions. He noted that increased pumping may reduce basin losses by capturing water that would otherwise leave the Basin, but would also accelerate drawdown of both storage accounts and physical storage.

BCVWD representative Mark Swanson commented that the BCVWD pumping projections used in the analysis are largely based on the 2020 Urban Water Management Plan and may no longer reflect current conditions. He stated that

BCVWD has refined its understanding of existing development, planned projects, and future land use, and emphasized that recent conservation requirements, including reductions in per-capita indoor water use, are already affecting demand. Updated projections will be developed as part of the 2025 Urban Water Management Plan, expected to be completed in mid-2026.

Public comment: Dan Jagers advised that BCVWD's actual groundwater production over the past several years has averaged approximately 13,500 acre-feet per year, which is lower than the forecasted pumping shown in the analysis. He stated that conservation measures could significantly reduce future demand and that BCVWD has already adjusted projections. He indicated that updated demand data is undergoing final validation and is intended to align with information to be provided to the Urban Water Management Plan consultant.

Chair Vela commented that similar updates to demand projections are anticipated for all appropriators as they begin preparation of their 2025 Urban Water Management Plans. He suggested that it may be appropriate to wait for updated projections before finalizing the basin loss analysis, so that modeling reflects the most current and realistic assumptions for all parties.

Harder presented a comparison showing that if future groundwater production were held at the ten-year historical average, storage account declines would be substantially less than under the baseline forecast. He recommended reevaluating the baseline, dry, and wet scenarios once updated pumping projections are available, and stated that if the current projections are ultimately considered realistic, the technical analysis would be finalized based on those assumptions.

B. Update on Proposed Revisions to the BBWM Rules and Regulations

BBWM Administrator Steve Stuart provided an update on the proposed revisions to the Rules and Regulations and summarized comments received from four of the five Committee members (the City of Beaumont provided no comments). The purpose of the discussion was to review key areas requiring clarification, resolve outstanding issues, and provide direction to finalize a revised version of the Rules and Regulations and a draft resolution for consideration at the February 2026 regular meeting.

Final Determinations and Direction on Rule Revisions

- **Salt Credits**
 - *The Committee reached consensus to remove references to Salt Credits from the Rules and Regulations.*
 - *The Committee agreed not to add Salt Debts at this time.*
 - *Members concluded that salt management is already addressed through other regulatory programs and that the existing language was incomplete and could create unnecessary complexity.*

- *Any future consideration of salt accounting would be addressed through a separate, comprehensive policy if needed.*
- *Stored Water Definition*
 - *The Committee agreed to retain and revise the definition of Stored Water to include both Supplemental Water and New Yield Water.*
 - *Members confirmed that Supplemental Water and New Yield Water remain distinct categories but may both be tracked within storage accounts.*
 - *The Committee acknowledged that irrigation return flows are not Supplemental Water or New Yield Water and may require future methodological development as a separate accounting category.*
- *Definitions Repeated from the Judgment*
 - *While some comments suggested deleting definitions already contained in the Judgment, the Committee generally supported retaining key definitions in the Rules and Regulations for clarity and ease of reference, provided they remain consistent with the Judgment.*
- *Assessments and Notice of Pending Applications*
 - *The Committee did not designate a specific Watermaster officer to issue invoices or collect payments within the Rules and Regulations.*
 - *Members expressed preference for addressing invoicing procedures, deposits, and cost recovery through separate resolutions or administrative practices, rather than embedding rigid requirements in the Rules and Regulations.*
 - *The Committee supported the concept that applicants should bear the costs associated with application review.*
- *Annualized Safe Yield*
 - *The Committee directed that the Rules and Regulations not specify detailed components of the Annualized Safe Yield calculation.*
 - *Members agreed that the language should retain flexibility to allow consultants to apply professional judgment and adapt methodologies over time, while maintaining consistency and reproducibility.*
- *Overlying Water Rights and Redetermination of Safe Yield*
 - *The Committee agreed on a methodology that ties future adjustments to the original 2004 overlying water right allocations, using proportional percentages to account for transfers and subsequent redeterminations of safe yield.*
 - *Members supported revising language to ensure clarity that transfers are based on quantities at the time of transfer, while proportional percentages govern future reallocations.*

- *The Committee acknowledged that additional refinement to forms and language may be necessary to clearly reflect percentage-based tracking.*

Committee discussion emphasized the importance of flexibility, clarity, and administrative practicality in revising the Rules and Regulations. At the conclusion of discussion, the Committee confirmed that Mr. Stuart had sufficient guidance to finalize a clean and redlined version of the Rules and Regulations, along with a draft resolution, for presentation at the February 2026 Beaumont Basin Watermaster regular meeting.

C. Reformation of Ad Hoc Committee to develop procurement policy

BBWM Administrator Steve Stuart reminded that former Committee member Jeff Hart had been previously assigned to the ad hoc Procurement Policy Committee and asked if the Committee desired to proceed with policy development. Committee members indicated support for a brief and efficient policy. Member Zoba pointed out that, as Treasurer, there are few checks issued each month and noted the Committee does not actually procure much. Mr. Stuart will present the process at the February meeting.

D. Modification of frequency of Beaumont Watermaster Committee meetings from bimonthly to quarterly

BBWM Administrator Steve Stuart broached the possibility of changing the current bi-monthly meeting schedule to quarterly (February, May, August, November) and offered to draft a resolution for consideration at the February 2026 meeting. Special meetings can be called when warranted. Mr. Swanson pointed out that contracts denoting the number of meetings for attendance would have to be addressed. Member Zoba pointed out the annual business items required including SGMA reporting.

E. Consideration of an Agreement to Retain Dudek to Provide Administrative and Technical Support Services in Calendar Year 2026

BBWM Administrator Steve Stuart introduced the proposal to continue providing the same administrative and technical services in calendar year 2026. Mr. Swanson noted the need to adjust the number of meetings if the schedule changes, but suggested leaving it at 10 meetings per year.

It was moved by Member Zoba and seconded by Member Vela to extend the contract with Dudek for Professional Administrative and Technical Support Services for the 2026 calendar year for a sum of \$84,240 and send invoices to each Watermaster Committee member for 20% of the approved amount.

AYES: Armstrong, Swanson, Vela, Vestal, Zoba
NOES: None
ABSTAIN: None
ABSENT: None
STATUS: Motion Approved 5-0

- F. Consideration of an Agreement to Retain Thomas Harder & Company to Provide Hydrogeological and Engineering Services and Preparation of the 2025 Annual Report (Task Order No. 11)

Consultant Tom Harder introduced the proposal for providing the same scope of services for calendar year 2026, including data collection, preparation of the 2025 annual report, determination of annualized safe yield, change in storage, support for rules and regulations, and meeting attendance. There has been a slight increase in rates, he noted.

It was moved by Member Zoba and seconded by Member Swanson to approve Task Order No. 11 to Retain Thomas Harder & Company to Provide Hydrogeological and Engineering Services and Preparation of the 2025 Annual Report for a sum not to exceed \$122,810.00.

AYES: Armstrong, Swanson, Vela, Vestal, Zoba
NOES: None
ABSTAIN: None
ABSENT: None
STATUS: Motion Approved 5-0

- G. Consideration of proposed Thomas Harder & Company/Alda Engineering Task Order No. 12 for Groundwater Level Monitoring Services in 2026

Consultant Tom Harder introduced the proposal for continuing the same scope of services for groundwater level monitoring.

It was moved by Member Zoba and seconded by Member Swanson to approve Thomas Harder & Company/Alda Engineering Task Order No. 12 for Groundwater Level Monitoring Services in 2026 sum not to exceed \$34,070.00.

AYES: Armstrong, Swanson, Vela, Vestal, Zoba
NOES: None
ABSTAIN: None
ABSENT: None
STATUS: Motion Approved 5-0

VIII. Topics for Future Meetings

	Item	Date Listed
A	Development of a Recycled Water Policy including Incidental Discharge	3/27/2019
B	Monitoring of future west side well sites and methodologies, and potential collaboration with USGS	10/5/2022
C	Discussion on what to do when an Appropriator goes negative	10/4/2023 and 11/1/2023
D	Discussion on Policy to Document and Account for Emergency Potable Water Transfers from Appropriator to Overlying Party	Tabled 4/17/2024
E	Presentation on YVWD Aquifer Storage and Recovery (ASR) project (discussed 10/1/2025 / to be presented February 2026)	6/11/2025

IX. Comments from the Watermaster Committee Members: None.

Chair Vela introduced Shah Nawaz, who is pending appointment as the City of Banning’s alternate, replacing Nate Smith.

X. Announcements

Subject to change if the Meeting Schedule is altered by the Committee

2026 Meeting Dates:

- Wednesday, February 4 at 11 a.m. Regular Meeting
- Wednesday, April 1 at 11 a.m. Regular Meeting
- Wednesday, June 3 at 11 a.m. Regular Meeting
- Wednesday, August 5 at 11 a.m. Regular Meeting
- Wednesday, October 7 at 11 a.m. Regular Meeting
- Wednesday, December 2 at 11 a.m. Regular Meeting

XI. Adjournment

Chair Vela adjourned the meeting at 12:16 p.m.

Attest:



Daniel Jagers, Secretary
Beaumont Basin Watermaster

Appendix B

Active and Interested Party List

Beaumont Basin - 2025 Active and Interested Party List

City of Banning

Arturo Vela - Director of Public Works / City Eng.
99 E. Ramsey Street
Banning, CA 92220
avela@ci.banning.ca.us

Beaumont-Cherry Valley Water District

Dan Jagers, General Manager
560 Magnolia Avenue
Beaumont, CA 92223
dan.jagers@bcvwd.org

South Mesa Mutual Water Company

Dave Armstrong
Post Office Box 458
Calimesa, CA 92320
darmstrongsmwc@yahoo.com

San Bernardino Valley MWD

Douglas Headrick
380 East Vanderbilt Way
San Bernardino, CA 92408

California Oak Valley Golf and Resort, LLC.

Ron Sullivan
27710 Jefferson Avenue, Suite 301
Temecula, CA 92590

Albor Properties

Eric Borstein
12301 Wilshire Boulevard, Suite 302
Los Angeles, CA 90025

Plantation on the Lake

James Krueger
10961 Desert Lawn Drive
Calimesa, CA 92320
jimk@mrc1.com

Robert C. Newman

29455 Live Oak Canyon Road
Redlands, CA 92373
newman4governor@aol.com

Yucaipa Valley Water District

Joseph Zoba, General Manager
12770 Second Street
Yucaipa, CA 92399
jzoba@yvwd.dst.ca.us

City of Beaumont

Robert Vestal, Principal Engineer
550 East Sixth Street
Beaumont, CA 92223
rvestal@beaumontca.gov

San Geronio Pass Water Agency

Lance Eckhart, General Manager
1210 Beaumont Avenue
Beaumont, CA 92223
Leckhart@sgpwa.com

Oak Valley Partners, LP.

John Ohanian
Post Office Box 645
10410 Roberts Road
Calimesa, CA 92320

Sharondale Mesa Owners Association

Ira Pace
9525 Sharon Way
Calimesa, CA 92320
rbnib@msn.com

Merlin Properties, LLC.

Fred and Richard Reidman
6475 East Pacific Coast Highway, Suite 399
Long Beach, CA 90803
riedman@gte.net

Manheim, Manheim, and Berman

Steve Anderson, Esq.
Best, Best and Krieger
3750 University Avenue, Suite 400
Riverside, CA 92501

Niki Magee

38455 Vineland Street
Cherry Valley, CA 92223

Beaumont Basin - 2025 Active and Interested Party List

Judy Bingham

115 Viele Avenue
Beaumont, CA 92223

Robert Hawkins, Esq.

14 Corporate Plaza
Ste 120
Newport Beach, CA 92660

Thomas Harder and Company

Thomas Harder
1260 N. Hancock, Suite 109
Anaheim, CA 92807
tharder@thomashardercompany.com
714.792.3875

Latham and Watkins, LLP.

Paul Singarella, Esq.
650 Town Center Drive, 20th Floor
Costa Mesa, CA 92626-1925

Alda, Inc.

Anibal Blandon
5928 Vineyard Avenue
Rancho Cucamonga, CA 91701
blandona@aldaengineering.com
909.587.9916

Appendix C

Fiscal Year 2023-24 Audit Letter

**BEAUMONT BASIN WATERMASTER
INDEPENDENT ACCOUNTANT'S REPORT ON APPLYING
AGREED-UPON PROCEDURES
ON THE BEAUMONT BASIN WATERMASTER SCHEDULES**

JUNE 30, 2024



ROGERS, ANDERSON, MALODY & SCOTT, LLP
CERTIFIED PUBLIC ACCOUNTANTS, SINCE 1948

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Bradford A. Welebir, CPA, MBA, CGMA
Jenny W. Liu, CPA, MST
Gardenya Duran, CPA, CGMA
Brianna Schultz, CPA, CGMA
Brenda L. Odle, CPA, MST (Partner Emeritus)
Terry P. Shea, CPA (Partner Emeritus)

Independent Accountant's Report

Yucaipa Valley Water District as Treasurer
of the Beaumont Basin Watermaster
Yucaipa, California

We have performed the procedures enumerated below on the Watermaster Schedules (Schedules), attached as Exhibit A and Exhibit B, on the full accrual basis of accounting as of June 30, 2024, and for the year then ended. Yucaipa Valley Water District (the District) management, as treasurer of the Beaumont Basin Watermaster (the Watermaster), is responsible for the Schedules as of June 30, 2024.

MANAGERS / STAFF

Seong-Hyea Lee, CPA, MBA
Evelyn Morentin-Barcena, CPA
Veronica Hernandez, CPA
Laura Arvizu, CPA
John Maldonado, CPA, MSA
Julia Rodriguez Fuentes, CPA, MSA
Demi Hite, CPA
Jeffrey McKenna, CPA
Monica Wysocki, CPA

The Watermaster, the District and its member agencies have agreed to and acknowledged that the procedures performed are appropriate to meet the intended purpose of evaluating certain amounts reported in the Schedules, attached as Exhibit A and Exhibit B, on the full accrual basis of accounting as of June 30, 2024, and for the year then ended and its compliance with the Rules and Regulations regarding assessments and expenses. This report may not be suitable for any other purpose. The Watermaster has agreed to and acknowledged that the procedures performed are appropriate to meet their purposes. The procedures performed may not address all the items of interest to a user of this report and may not meet the needs of all users of this report and, as such, users are responsible for determining whether the procedures performed are appropriate for their purposes.

MEMBERS

American Institute of
Certified Public Accountants

*PCPS The AICPA Alliance
for CPA Firms*

*Governmental Audit
Quality Center*

California Society of
Certified Public Accountants

The procedures and the associated findings are as follows:

1. Procedure

Agree the unrestricted net position, beginning of year amount on the Schedule of Revenues and Expenses (Exhibit B) to the unrestricted net position, end of year amount noted on the trial balance for the fiscal year ended June 30, 2023.

Finding

No exceptions were noted as a result of applying the procedure.



2. Procedure

Agree the cash balance reported on Exhibit A to the bank reconciliation, bank statement and trial balance. Select all of the deposits in transit and outstanding checks and trace their clearing to the subsequent month's bank statement.

Finding

No exceptions were noted as a result of applying the procedure.

3. Procedure

Trace all member agency assessments recorded in the Schedule of Revenues and Expenses (Exhibit B) to the invoices and the bank statements.

Finding

No exceptions were noted as a result of applying the procedure.

4. Procedure

Compare the ending check number for the fiscal year ended June 30, 2023 to the beginning check number for the period beginning on July 1, 2023. Note any breaks in check sequence for the period of July 1, 2023 through June 30, 2024.

Finding

No exceptions were noted as a result of applying the procedure.

5. Procedure

Based on the population of checks issued during July 1, 2023 through June 30, 2024, select all payments and trace the check to supporting invoice noting whether the activity pertains to the Watermaster. Agree the dollar amount and vendor on the invoice to the check for accuracy.

Finding

No exceptions were noted as a result of applying the procedure.

6. Procedure

Obtain the general ledger detail for the period of July 1, 2023 to June 30, 2024. Select all journal entries and trace the transaction to an approved journal entry and documentation supporting the nature and rationale of the journal entry.

Finding

No exceptions were noted as a result of applying the procedure.

We were engaged by the Watermaster, the District, and its member agencies to perform this agreed-upon procedures engagement and conducted our engagement in accordance with attestation standards established by the AICPA. We were not engaged to and did not conduct an examination or review, the objective of which would be the expression of an opinion or conclusion, respectively, on the schedule of assets, liabilities and net position (Exhibit A) and the schedule revenues and expenses (Exhibit B). Accordingly, we do not express such an opinion or conclusion. Had we performed additional procedures, other matters might have come to our attention that would have been reported to you.

We are required to be independent of the Watermaster, the District, and its member agencies and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements related to our agreed-upon procedures engagement.

This report is intended solely for the information and use of the Watermaster, the District, and its member agencies and is not intended to be and should not be used by anyone other than the specified parties.

Rogers, Anderson, Malody & Scott, LLP.

August 7, 2024
San Bernardino, California

Exhibit A

**Beaumont Basin Watermaster
Schedule of Assets, Liabilities and Net Position
(Unaudited)
June 30, 2024**

Assets	
Cash and cash equivalents	<u>\$ 60,024</u>
Total assets	<u>60,024</u>
Liabilities	
Accounts payable	<u>-</u>
Net position	
Unrestricted	<u><u>\$ 60,024</u></u>

Exhibit B

**Beaumont Basin Watermaster
Schedule of Revenues and Expenses
(Unaudited)
For the year ended June 30, 2024**

Revenues	
Assessments	\$ 197,665
Interest	<u>65</u>
Total revenues	<u>197,730</u>
Expenses	
Special projects	
Engineering	375,190
Monitoring and data acquisition	44,768
Administrative	
Meetings and miscellaneous	17,260
Legal and professional	25,066
Bank charges	<u>19</u>
Total expenses	<u>462,303</u>
Change in net position	(264,573)
Unrestricted net position, beginning of year	<u>324,597</u>
Unrestricted net position, end of year	<u><u>\$ 60,024</u></u>

Appendix D

Production Estimation Methods for Unmetered Overlying Producers

University of California Riverside - CIMIS Station 44
Monthly Evapotranspiration Values - 2003 through 2024

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2003	3.05	2.57	4.61	5.00	5.65	5.16	7.05	7.46	5.54	4.08	2.23	2.07	54.47
2004	2.49	2.76	4.81	5.90	7.10	6.50	7.55	6.81	5.83	3.39	2.44	2.30	57.88
2005	2.02	2.21	3.93	5.41	6.47	6.49	7.28	6.68	5.32	3.65	2.84	2.15	54.45
2006	2.92	3.35	3.42	4.26	6.02	7.16	7.73	7.20	5.70	3.95	3.14	2.94	57.79
2007	3.28	2.91	5.02	5.04	6.47	7.16	7.57	7.09	5.44	4.34	2.81	2.24	59.37
2008	1.69	2.31	5.30	6.04	6.28	7.59	7.53	7.23	5.79	5.02	3.14	1.89	59.81
2009	3.32	2.41	4.62	5.58	6.32	5.37	7.60	6.68	5.89	4.40	3.18	2.08	57.45
2010	2.35	2.44	4.67	5.11	6.18	6.25	6.57	6.99	5.45	2.10	3.22	1.78	53.11
2011	2.91	2.91	4.22	5.57	6.67	6.95	7.76	7.65	5.47	4.03	2.45	2.82	59.41
2012	3.02	3.41	4.51	5.85	7.00	7.62	7.93	7.84	6.44	4.38	2.72	1.70	62.42
2013	2.72	3.18	4.80	5.71	7.01	7.36	7.13	7.37	6.14	4.27	2.76	2.80	61.25
2014	3.27	3.03	4.95	6.52	7.65	7.61	7.77	7.29	6.19	4.52	3.21	2.01	64.02
2015	2.84	3.32	5.85	6.28	5.37	7.46	6.75	7.66	5.81	4.22	2.77	2.35	60.68
2016	2.09	4.29	4.92	6.04	6.21	7.21	7.74	6.88	5.30	3.87	3.18	1.99	59.72
2017	1.81	2.08	5.01	6.13	5.95	6.98	7.11	6.40	4.92	4.54	2.35	3.09	56.37
2018	2.41	3.17	3.81	5.69	5.57	7.61	8.04	7.35	5.86	4.30	3.13	2.24	59.18
2019	2.29	2.37	4.36	5.90	4.95	6.49	8.03	7.68	5.76	5.11	3.05	1.81	57.80
2020	2.65	3.71	3.66	4.83	7.25	6.42	8.17	7.74	6.33	4.81	3.22	2.70	61.49
2021	2.98	3.51	4.66	5.87	6.45	7.41	8.10	7.14	5.86	4.03	3.31	1.52	60.84
2022	3.01	3.96	5.39	6.05	6.54	7.96	8.15	7.86	5.74	3.87	2.97	1.77	63.27
2023	2.21	2.85	3.29	5.73	5.54	5.91	8.51	7.47	4.95	4.70	3.41	2.29	56.86
2024	2.30	2.16	4.03	5.36	5.76	6.91	8.05	7.62	5.49	4.45	3.10	2.31	57.54
2025	3.17	3.10	3.89	4.96	6.04	6.99	7.63	7.36	5.48	3.99	2.49	2.37	57.47

Crop Coefficient (Warm Season Bermuda Grass)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Kc	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7

Indoor Water Use: 0.35 ac-ft/yr/du

Irrigation Efficient 70%

Estimated Pumping - All Unmetered Accounts

Year	Total Use
2004	466.11
2005	443.64
2006	81.28
2007	12.23
2008	13.78
2009	13.47
2010	11.85
2011	12.67

Year	Total Use
2012	13.07
2013	12.91
2014	13.28
2015	12.84
2016	12.71
2017	12.28
2018	12.64
2019	12.46

Year	Total Use
2020	12.94
2021	12.86
2022	13.18
2023	12.34
2024	12.43
2025	12.42

Monthly Water Requirements (inches)

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
2004	1.74	1.93	3.37	4.13	4.97	4.55	5.29	4.77	4.08	2.37	1.71	1.61	40.52
2005	1.41	1.55	2.75	3.79	4.53	4.54	5.10	4.68	3.72	2.56	1.99	1.51	38.12
2006	2.04	2.35	2.39	2.98	4.21	5.01	5.41	5.04	3.99	2.77	2.20	2.06	40.45
2007	2.30	2.04	3.51	3.53	4.53	5.01	5.30	4.96	3.81	3.04	1.97	1.57	41.56
2008	1.18	1.62	3.71	4.23	4.40	5.31	5.27	5.06	4.05	3.51	2.20	1.32	41.87
2009	2.32	1.69	3.23	3.91	4.42	3.76	5.32	4.68	4.12	3.08	2.23	1.46	40.22
2010	1.65	1.71	3.27	3.58	4.33	4.38	4.60	4.89	3.82	1.47	2.25	1.25	37.18
2011	2.04	2.04	2.95	3.90	4.67	4.87	5.43	5.36	3.83	2.82	1.72	1.97	41.59
2012	2.11	2.39	3.16	4.10	4.90	5.33	5.55	5.49	4.51	3.07	1.90	1.19	43.69
2013	1.90	2.23	3.36	4.00	4.91	5.15	4.99	5.16	4.30	2.99	1.93	1.96	42.88
2014	2.29	2.12	3.47	4.56	5.36	5.33	5.44	5.10	4.33	3.16	2.25	1.41	44.81
2015	1.99	2.32	4.10	4.40	3.76	5.22	4.73	5.36	4.07	2.95	1.94	1.65	42.48
2016	1.46	3.00	3.44	4.23	4.35	5.05	5.42	4.82	3.71	2.71	2.23	1.39	41.80
2017	1.27	1.46	3.51	4.29	4.17	4.89	4.98	4.48	3.44	3.18	1.65	2.16	39.46
2018	1.69	2.22	2.67	3.98	3.90	5.33	5.63	5.15	4.10	3.01	2.19	1.57	41.43
2019	1.60	1.66	3.05	4.13	3.47	4.54	5.62	5.38	4.03	3.58	2.14	1.27	40.46
2020	1.86	2.60	2.56	3.38	5.08	4.49	5.72	5.42	4.43	3.37	2.25	1.89	43.04
2021	2.09	2.46	3.26	4.11	4.52	5.19	5.67	5.00	4.10	2.82	2.32	1.06	42.59
2022	2.11	2.77	3.77	4.24	4.58	5.57	5.71	5.50	4.02	2.71	2.08	1.24	44.29
2023	1.55	2.00	2.30	4.01	3.88	4.14	5.96	5.23	3.47	3.29	2.39	1.60	39.80
2024	1.61	1.51	2.82	3.75	4.03	4.84	5.64	5.33	3.84	3.12	2.17	1.62	40.28
2025	2.22	2.17	2.72	3.47	4.23	4.89	5.34	5.15	3.84	2.79	1.74	1.66	40.23

Estimated Pumping by Merlin Properties

Year	Parcel Size (acres)	D.U.	Indoor Water Use (ac-ft/yr)	Irrigated Acres	Irrigation Requirement (ac-ft/yr)	Outdoor Water Use (ac-ft/yr)	Total Use (ac-ft/yr)
2004	48	3	1.05	0.11	0.37	0.53	1.58
2005	48	3	1.05	0.11	0.35	0.50	1.55
2006	48	3	1.05	0.11	0.37	0.53	1.58
2007	48	3	1.05	0.11	0.38	0.54	1.59
2008	48	3	1.05	0.11	0.38	0.55	1.60
2009	48	3	1.05	0.11	0.37	0.53	1.58
2010	48	3	1.05	0.11	0.34	0.49	1.54
2011	48	3	1.05	0.11	0.38	0.54	1.59
2012	48	3	1.05	0.11	0.40	0.57	1.62
2013	48	3	1.05	0.11	0.39	0.56	1.61
2014	48	3	1.05	0.11	0.41	0.59	1.64
2015	48	3	1.05	0.11	0.39	0.56	1.61
2016	48	3	1.05	0.11	0.38	0.55	1.60
2017	48	3	1.05	0.11	0.36	0.52	1.57
2018	48	3	1.05	0.11	0.38	0.54	1.59
2019	48	3	1.05	0.11	0.37	0.53	1.58
2020	48	3	1.05	0.11	0.39	0.56	1.61
2021	48	3	1.05	0.11	0.39	0.56	1.61
2022	48	3	1.05	0.11	0.41	0.58	1.63
2023	48	3	1.05	0.11	0.36	0.52	1.57
2024	48	3	1.05	0.11	0.37	0.53	1.58
2025	48	3	1.05	0.11	0.37	0.53	1.58

Estimated Pumping by Roman Catholic Bishop of San Bernardino

Year	Parcel Size (acres)	D.U.	Indoor Water Use (ac-ft/yr)	Irrigated Acres	Irrigation Requirement (ac-ft/yr)	Outdoor Water Use (ac-ft/yr)	Total Use (ac-ft/yr)
2004	34	2	0.70	12.10	40.85	58.36	59.06
2005	34	2	0.70	12.10	38.43	54.90	55.60
2006	34	2	0.70	12.10	40.79	58.27	58.97
2007	34	2	0.70	0.00	0.00	0.00	0.70
2008	34	2	0.70	0.00	0.00	0.00	0.70
2009	34	2	0.70	0.00	0.00	0.00	0.70
2010	34	0	0.00	0.00	0.00	0.00	0.00
2011	34	0	0.00	0.00	0.00	0.00	0.00
2012	34	0	0.00	0.00	0.00	0.00	0.00
2013	34	0	0.00	0.00	0.00	0.00	0.00
2014	34	0	0.00	0.00	0.00	0.00	0.00
2015	34	0	0.00	0.00	0.00	0.00	0.00
2016	34	0	0.00	0.00	0.00	0.00	0.00
2017	34	0	0.00	0.00	0.00	0.00	0.00
2018	34	0	0.00	0.00	0.00	0.00	0.00
2019	34	0	0.00	0.00	0.00	0.00	0.00
2020	34	0	0.00	0.00	0.00	0.00	0.00
2021	34	0	0.00	0.00	0.00	0.00	0.00
2022	34	0	0.00	0.00	0.00	0.00	0.00
2023	34	0	0.00	0.00	0.00	0.00	0.00
2024	34	0	0.00	0.00	0.00	0.00	0.00
2025	34	0	0.00	0.00	0.00	0.00	0.00

Estimated Pumping by Leonard Stearns

Year	Parcel Size (acres)	D.U.	Indoor Water Use (ac-ft/yr)	Irrigated Acres	Irrigation Requirement (ac-ft/yr)	Outdoor Water Use (ac-ft/yr)	Total Use (ac-ft/yr)
2004	91	3	1.05	0.00	0.00	0.00	1.05
2005	91	3	1.05	0.00	0.00	0.00	1.05
2006	91	3	1.05	0.00	0.00	0.00	1.05
2007	91	3	1.05	0.00	0.00	0.00	1.05
2008	91	3	1.05	0.00	0.00	0.00	1.05
2009	91	3	1.05	0.00	0.00	0.00	1.05
2010	91	2	0.70	0.00	0.00	0.00	0.70
2011	91	2	0.70	0.00	0.00	0.00	0.70
2012	91	2	0.70	0.00	0.00	0.00	0.70
2013	91	2	0.70	0.00	0.00	0.00	0.70
2014	91	2	0.70	0.00	0.00	0.00	0.70
2015	91	2	0.70	0.00	0.00	0.00	0.70
2016	91	2	0.70	0.00	0.00	0.00	0.70
2017	91	2	0.70	0.00	0.00	0.00	0.70
2018	91	2	0.70	0.00	0.00	0.00	0.70
2019	91	2	0.70	0.00	0.00	0.00	0.70
2020	91	2	0.70	0.00	0.00	0.00	0.70
2021	91	2	0.70	0.00	0.00	0.00	0.70
2022	91	2	0.70	0.00	0.00	0.00	0.70
2023	91	2	0.70	0.00	0.00	0.00	0.70
2024	91	2	0.70	0.00	0.00	0.00	0.70
2025	91	2	0.70	0.00	0.00	0.00	0.70

Estimated Pumping by Sunny Cal

Year	Parcel Size (acres)	D.U.	Indoor Water Use (ac-ft/yr)	Number of Chickens	Chicken Water Use (ac-ft/yr)	Irrigated Acres	Irrigation Requirement (ac-ft/yr)	Outdoor Water Use (ac-ft/yr)	Total Use (ac-ft/yr)
2004	200	10	3.50	1,200,000	80.65	66.40	224.19	320.27	404.42
2005	200	10	3.50	1,200,000	80.65	66.40	210.90	301.29	385.44
2006	185	2	0.70	0.00	0.00	0.40	1.35	1.93	2.63
2007	185	2	0.70	0.00	0.00	0.40	1.39	1.98	2.68
2008	185	2	0.70	0.00	0.00	0.70	2.44	3.49	4.19
2009	185	2	0.70	0.00	0.00	0.70	2.35	3.35	4.05
2010	185	2	0.70	0.00	0.00	0.70	2.17	3.10	3.80
2011	185	2	0.70	0.00	0.00	0.70	2.43	3.47	4.17
2012	185	2	0.70	0.00	0.00	0.70	2.55	3.64	4.34
2013	185	2	0.70	0.00	0.00	0.70	2.50	3.57	4.27
2014	185	2	0.70	0.00	0.00	0.70	2.61	3.73	4.43
2015	185	2	0.70	0.00	0.00	0.70	2.48	3.54	4.24
2016	185	2	0.70	0.00	0.00	0.70	2.44	3.48	4.18
2017	185	2	0.70	0.00	0.00	0.70	2.30	3.29	3.99
2018	185	2	0.70	0.00	0.00	0.70	2.42	3.45	4.15
2019	185	2	0.70	0.00	0.00	0.70	2.36	3.37	4.07
2020	185	2	0.70	0.00	0.00	0.70	2.51	3.59	4.29
2021	185	2	0.70	0.00	0.00	0.70	2.48	3.55	4.25
2022	185	2	0.70	0.00	0.00	0.70	2.58	3.69	4.39
2023	185	2	0.70	0.00	0.00	0.70	2.32	3.32	4.02
2024	185	2	0.70	0.00	0.00	0.70	2.35	3.36	4.06
2025	185	2	0.70	0.00	0.00	0.70	2.35	3.35	4.05

Water consumption per chicken estimated at 6.0 gal/100 chickens

Estimated Pumping by Albor Properties

Year	Parcel Size (acres)	D.U.	Indoor Water Use (ac-ft/yr)	Irrigated Acres	Irrigation Requirement (ac-ft/yr)	Outdoor Water Use (ac-ft/yr)	Total Use (ac-ft/yr)
2004	0	0	0.00	0.00	0.00	0.00	0.00
2005	0	0	0.00	0.00	0.00	0.00	0.00
2006	122	2	0.70	2.60	8.76	12.52	13.22
2007	122	1	0.35	0.40	1.39	1.98	2.33
2008	122	1	0.35	0.40	1.40	1.99	2.34
2009	122	1	0.35	0.40	1.34	1.92	2.27
2010	122	1	0.35	0.40	1.24	1.77	2.12
2011	122	1	0.35	0.40	1.39	1.98	2.33
2012	122	1	0.35	0.40	1.46	2.08	2.43
2013	122	1	0.35	0.40	1.43	2.04	2.39
2014	122	1	0.35	0.40	1.49	2.13	2.48
2015	122	1	0.35	0.40	1.42	2.02	2.37
2016	122	1	0.35	0.40	1.39	1.99	2.34
2017	122	1	0.35	0.40	1.32	1.88	2.23
2018	122	1	0.35	0.40	1.38	1.97	2.32
2019	122	1	0.35	0.40	1.35	1.93	2.28
2020	122	1	0.35	0.40	1.43	2.05	2.40
2021	122	1	0.35	0.40	1.42	2.03	2.38
2022	122	1	0.35	0.40	1.48	2.11	2.46
2023	122	1	0.35	0.40	1.33	1.90	2.25
2024	122	1	0.35	0.40	1.34	1.92	2.27
2025	122	1	0.35	0.40	1.34	1.92	2.27

Estimated Pumping by Nikodinov

Year	Parcel Size (acres)	D.U.	Indoor Water Use (ac-ft/yr)	Irrigated Acres	Irrigation Requirement (ac-ft/yr)	Outdoor Water Use (ac-ft/yr)	Total Use (ac-ft/yr)
2004	0	0	0.00	0.00	0.00	0.00	0.00
2005	0	0	0.00	0.00	0.00	0.00	0.00
2006	10	1	0.35	0.08	0.27	0.39	0.74
2007	10	1	0.35	0.08	0.28	0.40	0.75
2008	10	1	0.35	0.08	0.28	0.40	0.75
2009	10	1	0.35	0.08	0.27	0.38	0.73
2010	10	1	0.35	0.08	0.25	0.35	0.70
2011	10	1	0.35	0.08	0.28	0.40	0.75
2012	10	1	0.35	0.08	0.29	0.42	0.77
2013	10	1	0.35	0.08	0.29	0.41	0.76
2014	10	1	0.35	0.08	0.30	0.43	0.78
2015	10	1	0.35	0.08	0.28	0.40	0.75
2016	10	1	0.35	0.08	0.28	0.40	0.75
2017	10	1	0.35	0.08	0.26	0.38	0.73
2018	10	1	0.35	0.08	0.28	0.39	0.74
2019	10	1	0.35	0.08	0.27	0.39	0.74
2020	10	1	0.35	0.08	0.29	0.41	0.76
2021	10	1	0.35	0.08	0.28	0.41	0.76
2022	10	1	0.35	0.08	0.30	0.42	0.77
2023	10	1	0.35	0.08	0.27	0.38	0.73
2024	10	1	0.35	0.08	0.27	0.38	0.73
2025	10	1	0.35	0.08	0.27	0.38	0.73

Estimated Pumping by McAmis

Year	Parcel Size (acres)	D.U.	Indoor Water Use (ac-ft/yr)	Irrigated Acres	Irrigation Requirement (ac-ft/yr)	Outdoor Water Use (ac-ft/yr)	Total Use (ac-ft/yr)
2004	0	0	0.00	0.00	0.00	0.00	0.00
2005	0	0	0.00	0.00	0.00	0.00	0.00
2006	0.9	1	0.35	0.04	0.13	0.19	0.54
2007	0.9	1	0.35	0.04	0.14	0.20	0.55
2008	0.9	1	0.35	0.04	0.14	0.20	0.55
2009	0.9	1	0.35	0.04	0.13	0.19	0.54
2010	0.9	1	0.35	0.04	0.12	0.18	0.53
2011	0.9	1	0.35	0.04	0.14	0.20	0.55
2012	0.9	1	0.35	0.04	0.15	0.21	0.56
2013	0.9	1	0.35	0.04	0.14	0.20	0.55
2014	0.9	1	0.35	0.04	0.15	0.21	0.56
2015	0.9	1	0.35	0.04	0.14	0.20	0.55
2016	0.9	1	0.35	0.04	0.14	0.20	0.55
2017	0.9	1	0.35	0.04	0.13	0.19	0.54
2018	0.9	1	0.35	0.04	0.14	0.20	0.55
2019	0.9	1	0.35	0.04	0.13	0.19	0.54
2020	0.9	1	0.35	0.04	0.14	0.20	0.55
2021	0.9	1	0.35	0.04	0.14	0.20	0.55
2022	0.9	1	0.35	0.04	0.15	0.21	0.56
2023	0.9	1	0.35	0.04	0.13	0.19	0.54
2024	0.9	1	0.35	0.04	0.13	0.19	0.54
2025	0.9	1	0.35	0.04	0.13	0.19	0.54

Estimated Pumping by Aldama

Year	Parcel Size (acres)	D.U.	Indoor Water Use (ac-ft/yr)	Irrigated Acres	Irrigation Requirement (ac-ft/yr)	Outdoor Water Use (ac-ft/yr)	Total Use (ac-ft/yr)
2004	0	0	0.00	0.00	0.00	0.00	0.00
2005	0	0	0.00	0.00	0.00	0.00	0.00
2006	1.4	1	0.35	0.10	0.34	0.48	0.83
2007	1.4	1	0.35	0.10	0.35	0.49	0.84
2008	1.4	1	0.35	0.10	0.35	0.50	0.85
2009	1.4	1	0.35	0.10	0.34	0.48	0.83
2010	1.4	1	0.35	0.10	0.31	0.44	0.79
2011	1.4	1	0.35	0.10	0.35	0.50	0.85
2012	1.4	1	0.35	0.10	0.36	0.52	0.87
2013	1.4	1	0.35	0.10	0.36	0.51	0.86
2014	1.4	1	0.35	0.10	0.37	0.53	0.88
2015	1.4	1	0.35	0.10	0.35	0.51	0.86
2016	1.4	1	0.35	0.10	0.35	0.50	0.85
2017	1.4	1	0.35	0.10	0.33	0.47	0.82
2018	1.4	1	0.35	0.10	0.35	0.49	0.84
2019	1.4	1	0.35	0.10	0.34	0.48	0.83
2020	1.4	1	0.35	0.10	0.36	0.51	0.86
2021	1.4	1	0.35	0.10	0.35	0.51	0.86
2022	1.4	1	0.35	0.10	0.37	0.53	0.88
2023	1.4	1	0.35	0.10	0.33	0.47	0.82
2024	1.4	1	0.35	0.10	0.34	0.48	0.83
2025	1.4	1	0.35	0.10	0.34	0.48	0.83

Estimated Pumping by Gutierrez

Year	Parcel Size (acres)	D.U.	Indoor Water Use (ac-ft/yr)	Irrigated Acres	Irrigation Requirement (ac-ft/yr)	Outdoor Water Use (ac-ft/yr)	Total Use (ac-ft/yr)
2004	0	0	0.00	0.00	0.00	0.00	0.00
2005	0	0	0.00	0.00	0.00	0.00	0.00
2006	2	2	0.70	0.14	0.47	0.67	1.37
2007	2	2	0.70	0.14	0.48	0.69	1.39
2008	2	2	0.70	0.14	0.49	0.70	1.40
2009	2	2	0.70	0.14	0.47	0.67	1.37
2010	2	2	0.70	0.14	0.43	0.62	1.32
2011	2	2	0.70	0.14	0.49	0.69	1.39
2012	2	2	0.70	0.14	0.51	0.73	1.43
2013	2	2	0.70	0.14	0.50	0.71	1.41
2014	2	2	0.70	0.14	0.52	0.75	1.45
2015	2	2	0.70	0.14	0.50	0.71	1.41
2016	2	2	0.70	0.14	0.49	0.70	1.40
2017	2	2	0.70	0.14	0.46	0.66	1.36
2018	2	2	0.70	0.14	0.48	0.69	1.39
2019	2	2	0.70	0.14	0.47	0.67	1.37
2020	2	2	0.70	0.14	0.50	0.72	1.42
2021	2	2	0.70	0.14	0.50	0.71	1.41
2022	2	2	0.70	0.14	0.52	0.74	1.44
2023	2	2	0.70	0.14	0.46	0.66	1.36
2024	2	2	0.70	0.14	0.47	0.67	1.37
2025	2	2	0.70	0.14	0.47	0.67	1.37

Estimated Pumping by Damont

Year	Parcel Size (acres)	D.U.	Indoor Water Use (ac-ft/yr)	Irrigated Acres	Irrigation Requirement (ac-ft/yr)	Outdoor Water Use (ac-ft/yr)	Total Use (ac-ft/yr)
2004	0	0	0.00	0.00	0.00	0.00	0.00
2005	0	0	0.00	0.00	0.00	0.00	0.00
2006	0.5	1	0.35	0.00	0.00	0.00	0.35
2007	0.5	1	0.35	0.00	0.00	0.00	0.35
2008	0.5	1	0.35	0.00	0.00	0.00	0.35
2009	0.5	1	0.35	0.00	0.00	0.00	0.35
2010	0.5	1	0.35	0.00	0.00	0.00	0.35
2011	0.5	1	0.35	0.00	0.00	0.00	0.35
2012	0.5	1	0.35	0.00	0.00	0.00	0.35
2013	0.5	1	0.35	0.00	0.00	0.00	0.35
2014	0.5	1	0.35	0.00	0.00	0.00	0.35
2015	0.5	1	0.35	0.00	0.00	0.00	0.35
2016	0.5	1	0.35	0.00	0.00	0.00	0.35
2017	0.5	1	0.35	0.00	0.00	0.00	0.35
2018	0.5	1	0.35	0.00	0.00	0.00	0.35
2019	0.5	1	0.35	0.00	0.00	0.00	0.35
2020	0.5	1	0.35	0.00	0.00	0.00	0.35
2021	0.5	1	0.35	0.00	0.00	0.00	0.35
2022	0.5	1	0.35	0.00	0.00	0.00	0.35
2023	0.5	1	0.35	0.00	0.00	0.00	0.35
2024	0.5	1	0.35	0.00	0.00	0.00	0.35
2025	0.5	1	0.35	0.00	0.00	0.00	0.35

Appendix E

Supporting Documentation to be Provided by YVWD as part of the Transfer of Overlying Rights from OVP to YVWD for CY 2025

For Inclusion into the Final Report

Appendix F

Evaluation of Groundwater Conditions and Operating Safe Yield of the Beaumont Basin - 2025

DRAFT Technical Memorandum



To: Mr. Hannibal Blandon
Alda, Inc.

From: Thomas Harder, P.G., CH.G.
Lauren Healey, P.G.
Thomas Harder & Co.

Date: 18-Mar-26

Re: Evaluation of Groundwater Conditions and Operating Safe Yield for the Beaumont Basin – Calendar Year 2025

1 Introduction

This Technical Memorandum (TM) summarizes an evaluation of groundwater level trends, change in groundwater storage, and operating safe yield for the Beaumont Basin for the 2025 calendar year. Data summarized in this TM is for use in the Beaumont Basin Watermaster 2025 Annual Report. Groundwater level changes were evaluated at both the local level (as measured in key monitoring wells across the basin) and on a basin-wide basis.

Basin-wide changes in groundwater levels reflect the overall water balance of the basin. Rising groundwater levels in any given time period indicate that recharge from all sources (e.g. areal recharge, return flow, artificial recharge, etc.) is exceeding discharge from all sources (e.g. pumping, underflow out, evapotranspiration, etc.) and the volume of groundwater in storage increases. Declining groundwater levels indicate the opposite. Regional changes in groundwater levels were used as a basis for estimating the change in groundwater storage of the Beaumont Basin. The change in storage estimate was used to evaluate the operating safe yield (OSY) of the basin for calendar year 2025.



2 Sources and Types of Data

All data summarized in this TM were provided by the appropriators and overlyers within the Beaumont Basin through Alda, Inc. Other sources of information included:

- The Beaumont Basin Watermaster website
- San Gorgonio Pass Water Agency (SGPWA)
- United States Geological Survey (USGS)

The types of data compiled and reviewed for this TM included:

- Groundwater production data from appropriators and overlyers
- Groundwater recharge data
- Groundwater levels
- Well locations

A well map showing Appropriator and Overlyer wells is provided on **Figure 2-1**. The ten wells used in the hydrograph analysis of groundwater level trends are also shown on **Figure 2-1**.

3 Analysis of Groundwater Flow and Changes in Groundwater Levels

Changes in groundwater flow and groundwater levels between 2024 and 2025 were evaluated based on measured data in monitoring wells located throughout the Beaumont Basin (**Figures 3-1 and 3-2**). Separate groundwater level contour maps were created for Winter 2024 (i.e., using groundwater levels from October, November, and December 2024 as available) and Winter 2025 (i.e., using groundwater levels from October, November, and December 2025 as available) to evaluate changes in groundwater flow patterns and basin-wide changes in groundwater levels over the time period. It is noted that the majority of groundwater levels used for the Winter 2024 contour map were from November and December 2024; an October 2024 groundwater level was used at the USGS Highland Well (02S/01W-35J03) since that is the last available 2024 groundwater level. Additionally, the majority of groundwater levels used for the Winter 2025 contour map were from December 2025, with two groundwater levels used from November 2025 and one groundwater level used from October 2025.

Groundwater flow direction and gradient within the Beaumont Basin varies depending on location (**Figures 3-1 and 3-2**). In the west central portion of the basin (immediately west of the Beaumont Plains Fault Zone), groundwater generally flows to the north from the lowest reach of Noble Creek. Further to the west near Calimesa, the groundwater flow direction becomes westerly and then southwesterly toward San Timoteo Wash. In the eastern part of the basin, groundwater flows to the



southeast towards the City of Banning. The groundwater flow directions did not change significantly between 2024 and 2025.

Basin-wide groundwater level trends in the Beaumont Basin were evaluated based on hydrographs from ten key wells (**Figure 3-3**) and the groundwater level change map developed by subtracting the 2024 groundwater surface from the 2025 groundwater surface (**Figure 3-4**). In the west central portion of the basin (near Beaumont-Cherry Valley Water District (BCVWD) Well 29), groundwater levels showed some seasonal variability in 2025 and increased by approximately 1 foot between December 2024 and December 2025 (**Figure 3-3**).

In the northwest portion of the basin at Yucaipa Valley Water District (YVWD) Well 34, groundwater levels have shown a downward trend since approximately 2020 but were relatively stable between December 2024 and December 2025. At this well, groundwater levels increased by approximately four feet between December 2024 and December 2025 (**Figure 3-3**). At Moreno Well 6, groundwater levels steadily dropped from 2003 to 2022 at which time they became relatively stable. Between November 2024 and December 2025, groundwater levels at this well declined by approximately 2 feet. At Tukwet Canyon Golf Club B, groundwater levels were relatively stable in 2025 and decreased by approximately 1 foot between December 2024 and December 2025.

In the central portion of the basin, groundwater levels at Oak Valley No. 1 are highly variable and likely influenced by groundwater pumping. As judged by the highest peaks in the hydrograph, the overall groundwater level trend at this well has been relatively stable in 2025 (**Figure 3-3**).

In the northern part of the basin, a groundwater mound developed at the BCVWD Noble Creek recharge site with as much as approximately 23 feet of rise between December 2024 and December 2025 (**Figure 3-3**). The rise in groundwater elevation is correlated with an increase in managed recharge at the facility in 2025 (12,227 acre-ft), 2024 (10,417 acre-ft), and 2023 (11,172 acre-ft) relative to 2022 (1,812 acre-ft) and 2021 (2,504 acre-ft). In 2025, an additional 6,647 acre-ft of water was delivered to the SGPWA spreading grounds south of Brookside Drive, which also contributed to the groundwater level rise in the area (**Table 3-1**).

In the south-central portion of the basin, groundwater levels at BCVWD Well No. 2 showed some seasonal variability during 2025 and increased by approximately 10 feet between December 2024 and December 2025. At Banning Well C-4 (southeast Beaumont Basin), static groundwater levels were not available for Winter 2025. Groundwater levels in other southeast area wells declined between December 2024 and December 2025 by as much as approximately 19 feet (**Figure 3-3**).

Groundwater levels in the northeast portion of the basin (near USGS Highland Springs Monitoring Well) increased by approximately 15 feet between December 2024 and December 2025 (**Figure 3-3**). However, it is noted that Winter 2025 static groundwater levels were not available for the USGS Highland Springs Monitoring Well.



4 Analysis of Change in Groundwater Storage

Basin-wide change in groundwater storage between Winter 2024 and Winter 2025 was analyzed as a function of the difference in groundwater levels across the basin and the specific yield of the aquifer sediments. Specific yield values were obtained from the calibrated groundwater flow model of the Beaumont Basin used in the 2023 Reevaluation of the Beaumont Basin Safe Yield (TH&Co, 2024). Groundwater level change across the basin was analyzed using the following procedure:

1. The Winter 2024 and Winter 2025 hand-generated groundwater contour maps were each converted into three-dimensional raster surfaces.
2. The basin was discretized into 100-foot by 100-foot grid cells.
3. Attributes were assigned to each saturated grid cell including groundwater level change and specific yield.
4. The resulting attribute table was processed in a Geographic Information System (GIS) for calculating the change in storage.

Results of the analysis show an overall increase in groundwater storage within the adjudicated basin of approximately 1,451 acre-ft between Winter 2024 and Winter 2025. This increase is associated with an increase in imported deliveries to the Noble Creek Recharge Facilities and the SGPWA spreading grounds south of Brookside Drive, relative to previous years.

5 Operating Safe Yield

For purposes of this TM, the annual operating safe yield (OSY) describes the net infiltration to the adjudicated groundwater basin (not including artificial recharge) for any given year. It is noted that the OSY is different than the Operating Yield, which is a function of the unused overlyer production (Appropriative Water) and Temporary Surplus, as described in the Beaumont Basin Judgment (San Timoteo Management Authority v. Banning et al., 2004).

Operating safe yield is estimated based on the following equation:

$$OSY = \frac{\sum P + \Delta S - \sum AR}{\Delta T}$$



where: ΣP = The sum of groundwater production (acre-ft)
 ΔS = The change in groundwater storage (acre-ft)
 ΣAR = The sum of artificial recharge of imported water (acre-ft)
 ΔT = The time over which the OSY is estimated (years)

Total Beaumont Basin groundwater production in calendar year 2025 was 16,778 acre-ft (**Table 5-1**). Total artificial recharge in calendar year 2025 was 18,874 acre-ft (**Table 3-1**). It is noted that only recharge at the Noble Creek Recharge Facility and SGPWA recharge facilities south of Brookside Avenue was used in the analysis of OSY (recharge at the Little San Gorgonio Creek facility is not included because it is outside the adjudicated area). The change in groundwater storage estimate is based on the analysis of groundwater levels described earlier in this TM. The period of time over which the OSY is evaluated is one year. The resulting OSY for 2025 is estimated as:

$$OSY = \frac{16,778 + 1,451 - 18,874}{1} = -645 \text{ acre-ft}$$

The OSY for 2025 is not representative of the long-term Safe Yield of the Beaumont Basin. The negative OSY value is likely a function of underestimated positive storage change resulting from groundwater level data gaps at the SGPWA Brookside East recharge basins and other areas downgradient of the Noble Creek recharge basins. The storage change estimated from the available data is significantly lower than volume of water known to have been spread at the recharge basins. While some of the discrepancy may be explained through increased flow out of the basin, it is believed that most of the imported recharge water is still in the basin but cannot be estimated based on the available groundwater level data. Comparison of the 2025 OSY with historical OSY values since 2011 is presented in **Table 5-2**.

6 References

San Timoteo Management Authority vs. Banning et al., 2004. Judgment Pursuant to Stipulation Adjudicating Groundwater Rights in the Beaumont Basin. Case No. RIC 389197. Filed February 4, 2004.

Thomas Harder & Co., 2024. 2023 Reevaluation of the Beaumont Basin Safe Yield. December 4, 2024.



Delivered Water by Imported Water Recharge Facility in 2025 (acre-ft)

Month-Year	Brookside East Turnout ¹	Noble Creek Turnout	Total ²
Jan-25	10	43	53
Feb-25	397	637	1,034
Mar-25	724	1,582	2,306
Apr-25	572	1,401	1,973
May-25	126	1,389	1,515
Jun-25	1,056	996	2,052
Jul-25	922	867	1,789
Aug-25	820	1,312	2,132
Sep-25	885	1,573	2,458
Oct-25	633	1,393	2,026
Nov-25	489	1,004	1,493
Dec-25	13	30	43
Total	6,647	12,227	18,874

Notes:

¹ In previous annual reports, Brookside East Turnout was listed as Mountain View Turnout as reported by the San Geronio Pass Water Agency.

² Total monthly delivered water spread on behalf of Beaumont-Cherry Valley Water District and the City of Banning.

**Beaumont Basin Watermaster
Evaluation of Groundwater Conditions and
Operating Safe Yield of the Beaumont Basin - 2025**

**DRAFT
Table 5-1**

Water Production by Appropriator Producer in 2025 (acre-ft) ¹

Appropriator	Well Name	January	February	March	April	May	June	July	August	September	October	November	December	Total
Banning, City of	Well C2-A	82.4	52.6	65.8	53.3	14.9	36.6	81.3	84.8	89.1	91.6	85.1	74.2	811.7
	Well C3	22.1	14.4	17.4	53.2	84.4	98.4	107.9	101.5	81.8	83.1	36.0	2.4	702.6
	Well C4	2.7	0.7	1.1	63.1	145.9	139.7	10.0	0.0	0.0	0.0	0.0	0.0	363.2
	Well M3	0.7	0.3	0.4	25.1	57.7	57.1	69.4	69.8	67.8	62.9	23.6	58.8	493.7
	Well M9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	From BCVWD ²	67.9	7.5	4.4	12.9	15.3	12.9	9.2	7.2	37.4	33.7	14.2	10.8	233.4
	Subtotal	176.0	75.5	89.1	207.5	318.1	344.8	277.8	263.3	276.1	271.2	158.9	146.2	2,604.6
Beaumont-Cherry Valley Water District	Well 1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Well 2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Well 3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Well 16	39.0	8.7	0.7	19.6	11.6	72.8	74.4	76.6	64.2	68.4	51.1	33.3	520.5
	Well 21	89.1	70.1	72.2	78.3	119.5	157.1	173.1	165.8	162.1	172.4	89.7	110.8	1,460.0
	Well 22	89.5	59.7	35.8	97.0	93.2	126.1	139.1	137.8	133.6	140.9	84.0	86.5	1,223.3
	Well 23	221.4	92.8	79.4	199.1	192.1	263.2	269.6	267.8	255.7	251.8	239.1	244.6	2,576.7
	Well 24	181.0	198.3	166.5	109.7	218.1	216.4	198.1	230.1	214.1	160.7	191.0	181.8	2,265.8
	Well 25	145.6	92.8	174.6	241.9	267.1	293.1	301.2	267.8	30.4	21.0	11.6	9.8	1,856.9
	Well 26	0.0	0.0	0.0	0.0	0.0	0.0	58.3	118.8	131.5	66.8	36.2	32.1	443.7
	Well 29	2.1	2.3	0.0	13.6	6.2	57.6	156.2	158.6	194.4	109.1	76.5	45.6	822.1
	To Banning ²	-67.9	-7.5	-4.4	-12.9	-15.3	-12.9	-9.2	-7.2	-37.4	-33.7	-14.2	-10.8	-233.4
		Subtotal	699.8	517.3	524.8	746.3	892.6	1,173.3	1,360.7	1,416.1	1,148.6	957.3	765.1	733.6
South Mesa Water Company	3rd No. 4 Well	26.4	18.8	14.0	17.7	21.4	11.4	0.9	34.0	42.0	33.9	21.9	20.3	262.6
	Subtotal	26.4	18.8	14.0	17.7	21.4	11.4	0.9	34.0	42.0	33.9	21.9	20.3	262.6
Yucaipa Valley Water District	Well 35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Well 48	127.1	67.6	35.8	72.3	66.9	89.6	130.6	138.5	111.0	94.0	64.3	0.0	997.8
	I-10 Logistics	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Subtotal	127.1	67.6	35.8	72.3	66.9	89.6	130.6	138.5	111.0	94.0	64.3	0.0	997.8
Total		1,029.3	679.1	663.7	1,043.9	1,299.1	1,619.1	1,770.1	1,851.9	1,577.8	1,356.4	1,010.2	900.2	14,800.7

**Beaumont Basin Watermaster
Evaluation of Groundwater Conditions and
Operating Safe Yield of the Beaumont Basin - 2025**

**DRAFT
Table 5-1**

Water Production by Overlying Parties in 2025 (acre-ft) ¹

Overlying Party	Well Name	January	February	March	April	May	June	July	August	September	October	November	December	Total
Beckman, Walter M ³	-	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9
California Oak Valley Golf and Resort LLC ⁴	Oak Valley #1	4.2	2.3	10.2	40.6	34.3	80.1	72.2	80.5	84.7	50.8	25.1	0.0	485.0
	Oak Valley #2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.8
Merlin Properties ⁵	-	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.6
Oak Valley Partners ⁶	Singleton Ranch #5	-	-	-	-	-	-	-	-	-	-	-	-	-
	Singleton Ranch #7	-	-	-	-	-	-	-	-	-	-	-	-	-
	Irrigation Stokes	-	-	-	-	-	-	-	-	-	-	-	-	-
Plantation on the Lake LLC	-	21.2	16.0	19.9	23.6	30.4	35.6	39.3	44.2	31.6	29.8	26.1	19.9	337.5
Rancho Calimesa	Well 1	3.0	2.5	1.9	2.5	2.7	2.7	2.7	3.4	2.6	2.9	2.4	2.6	31.8
Mobile Home Park ⁷	Well 2	0.3	0.1	0.2	0.1	0.1	0.1	0.4	0.4	0.0	0.0	0.0	0.2	2.0
Roman Catholic Bishop of San Bernardino ⁵	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Sharondale Mesa Owners Association ⁷	Well 1	2.6	2.3	1.6	3.6	4.6	6.8	8.9	8.3	10.7	5.2	2.7	2.3	59.6
	Well 2	2.7	2.2	1.6	3.1	3.5	3.5	6.1	2.8	3.8	4.1	2.4	2.4	38.2
Tukwet Canyon Golf Course ⁸	A	0.0	0.0	0.0	0.0	21.8	1.2	0.7	0.7	0.7	1.4	0.7	1.7	28.9
	C	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	D	58.4	28.6	32.1	67.1	75.1	133.8	150.3	153.1	119.1	80.1	38.6	43.6	979.8
Stearns, Leonard M. and Dorothy D. ⁵	-	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.7
Sunny Cal ⁵	-	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	4.1
Albor Properties III, LP ⁵	-	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	2.3
Nikodinov, Nick ⁵	-	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.7
McAmis, Ronald L. ⁵	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
Aldama, Nicolas and Amalia ⁵	-	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.8
Gutierrez, Hector, et. al. ⁵	-	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	1.4
Darmont, Boris and Miriam ⁵	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
	Total	93.3	55.9	68.5	141.8	173.6	264.7	281.7	294.4	254.2	176.1	99.0	73.7	1,976.9
	Basin Total	1,122.6	734.9	732.2	1,185.7	1,472.7	1,883.9	2,051.8	2,146.3	1,832.0	1,532.5	1,109.2	973.9	16,777.6

**Beaumont Basin Watermaster
Evaluation of Groundwater Conditions and
Operating Safe Yield of the Beaumont Basin - 2025**

**DRAFT
Table 5-1**

Notes:

- ¹ All values rounded and subject to revision based on receipt of more accurate information.
- ² Pursuant to Part I, Paragraph 3B of the Judgment, and a separate Agreement (a copy of which is on file with the Watermaster). A portion of the production from certain wells, operated by BCVWD and co-owned by the City of Banning and BCVWD, is delivered to the City of Banning at two connections, Sun Lakes and Highland Springs where flow meters are read.
- ³ Mr. Beckman has not provided production information since 2014.
- ⁴ Monthly production provided by BCVWD.
- ⁵ Not metered; water duty method used to estimate annual production. Production estimated in all months based on annual total.
- ⁶ Wells are abandoned and are no longer used for production.
- ⁷ Monthly production since 2011 provided by Clearwater Solutions for Sharondale Mesa Owner Association and since 2014 for Rancho Calimesa Mobile Home Park.
- ⁸ Monthly production provided by the Morongo Band of Mission Indians.

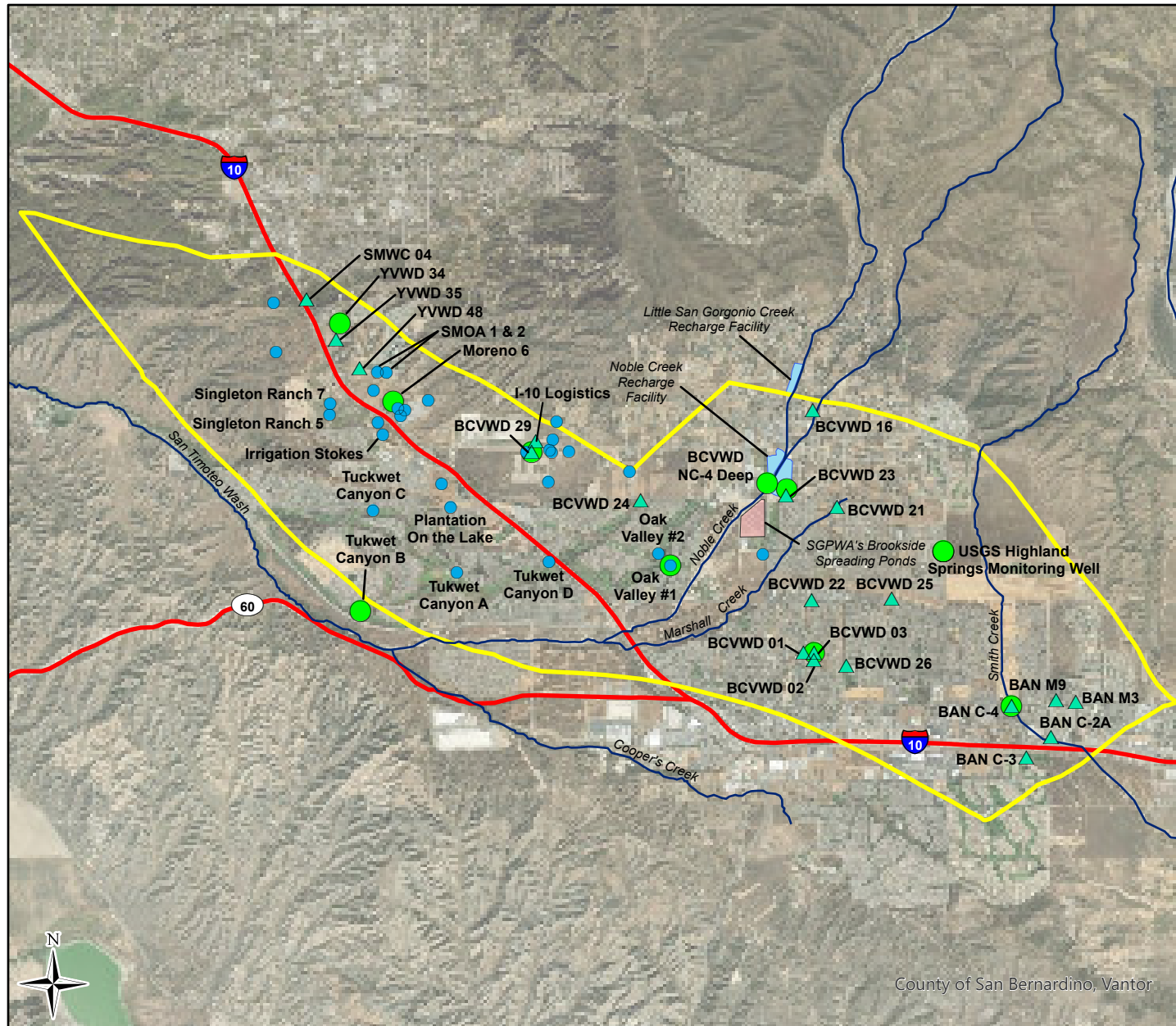
Summary of Historical Operating Safe Yield for the Beaumont Basin

Calendar Year	Groundwater Production	Change in Groundwater Storage	Artificial Recharge of Imported Water	Operating Safe Yield ¹
2011	13,986	2,560	8,779	7,767
2012	14,710	1,770	8,983	7,497
2013	17,114	-783	9,485	6,846
2014	16,985	-4,475	5,013	7,497
2015	12,926	-1,679	3,476	7,771
2016	13,777	1,279	10,796	4,260
2017	15,867	1,362	14,940	2,289
2018	17,279	173	12,621	4,831
2019	15,895	2,268	14,153	4,010
2020	18,636	-5,577	11,469	1,590
2021	20,006	-9,522	2,504	7,980
2022	19,480	-10,601	1,812	7,067
2023	14,227	11,462	20,392	5,297
2024	15,452	839	18,202	-1,911
2025	16,778	1,451	18,874	-645

Note:

¹ Operating Safe Yield = Groundwater Production + Change in Groundwater Storage - Artificial Recharge of Imported Water

Beaumont Basin Watermaster



Map Features

- ▲ Appropriator Party
- Overlying Party
- Well Used in Hydrograph Analysis
- Stream
- Freeway/Highway
- Spreading Pond
- Imported Water Recharge Facility
- Beaumont Basin Adjudicated Boundary

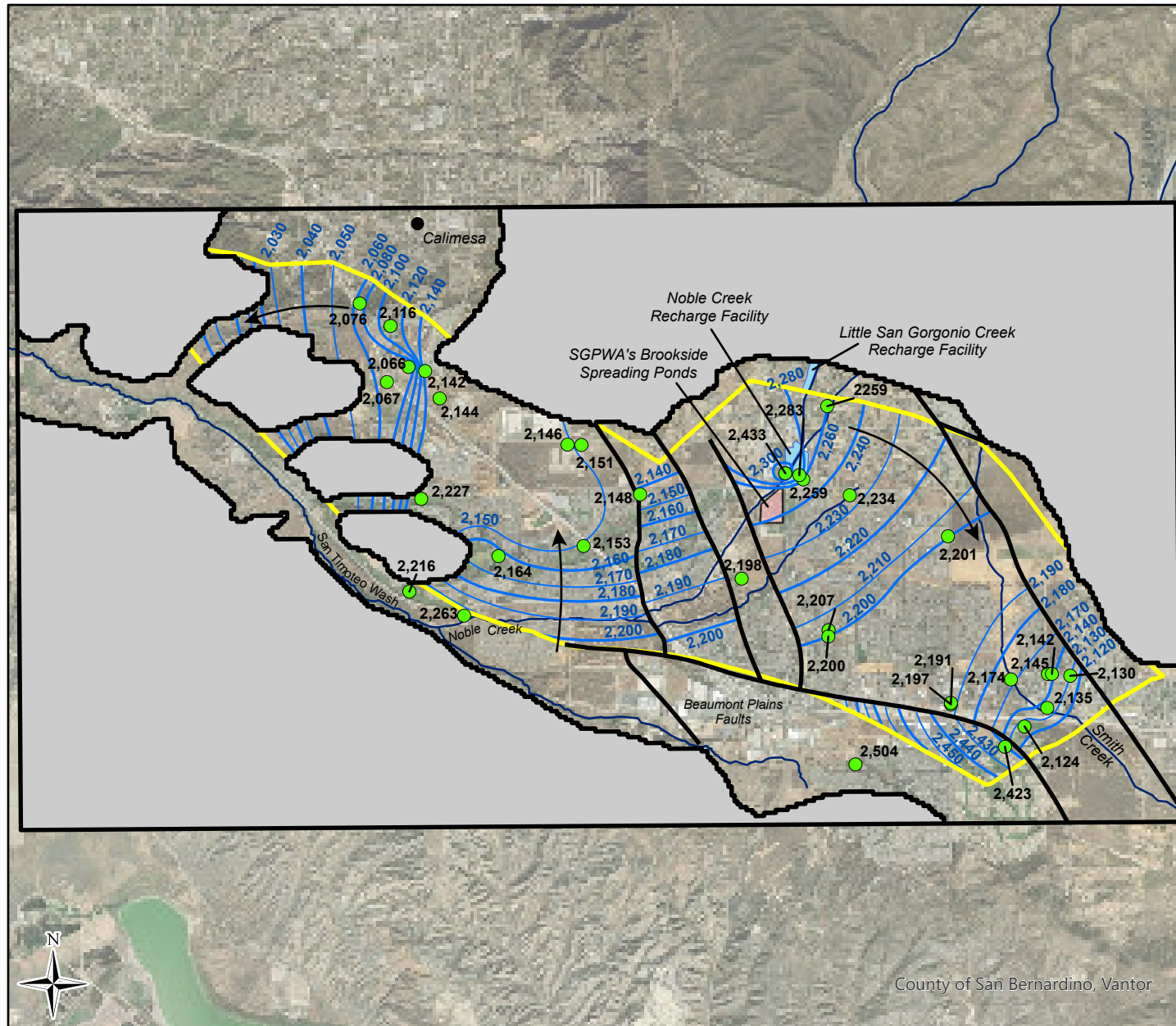


County of San Bernardino, Vantor



Well Locations in the Beaumont Basin

Beaumont Basin Watermaster

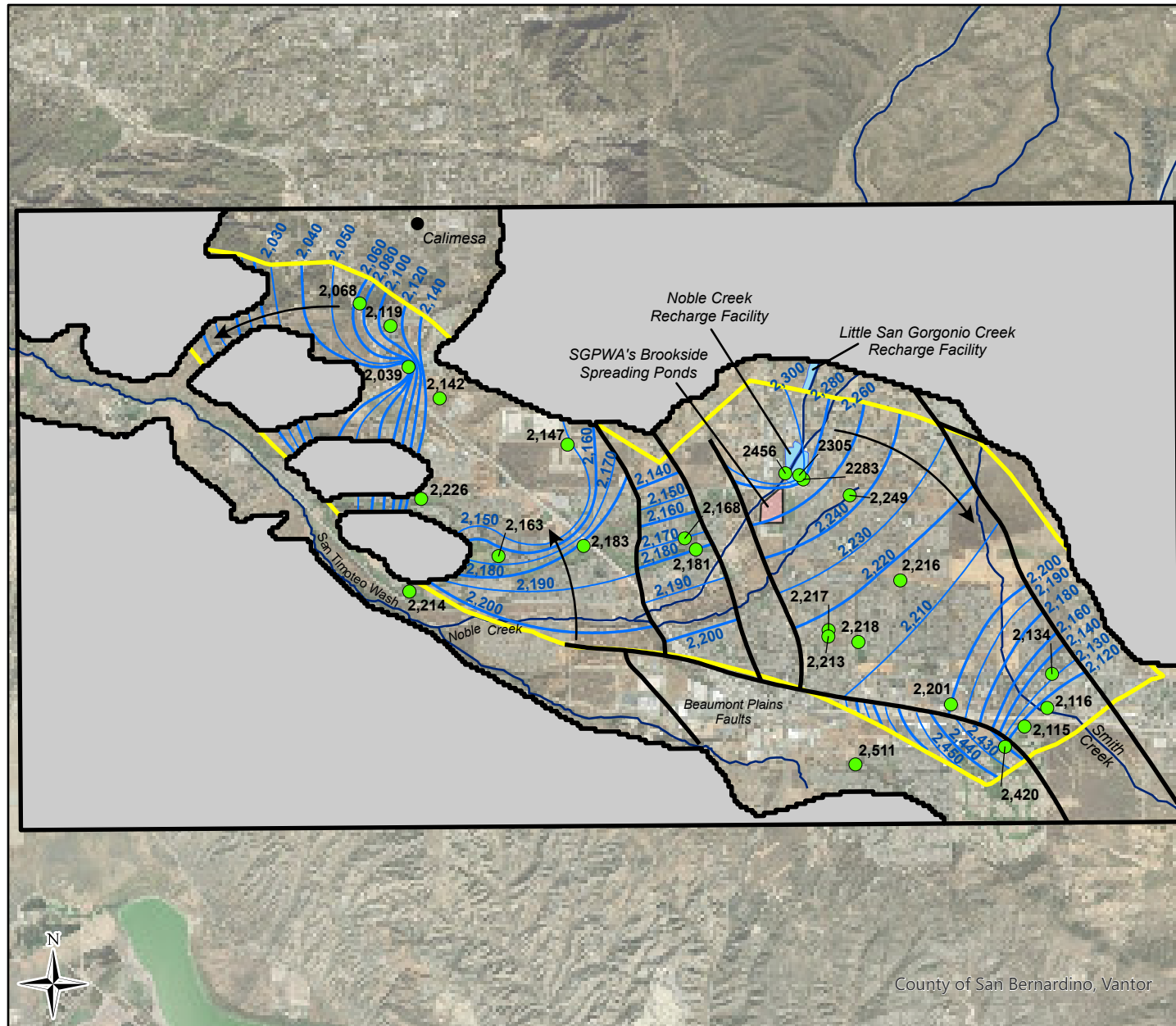


Map Features

- Well with Groundwater Elevation (ft amsl)
- Groundwater Elevation Contour (ft amsl)
 - 10-ft interval
 - 20-ft interval
- Groundwater Flow Direction
- Stream
- Fault
- Active Model Zone
- Inactive Model Zone
- Spreading Pond
- Imported Water Recharge Facility
- Beaumont Basin Adjudicated Boundary

Groundwater Contours in the Beaumont Basin - Winter 2024

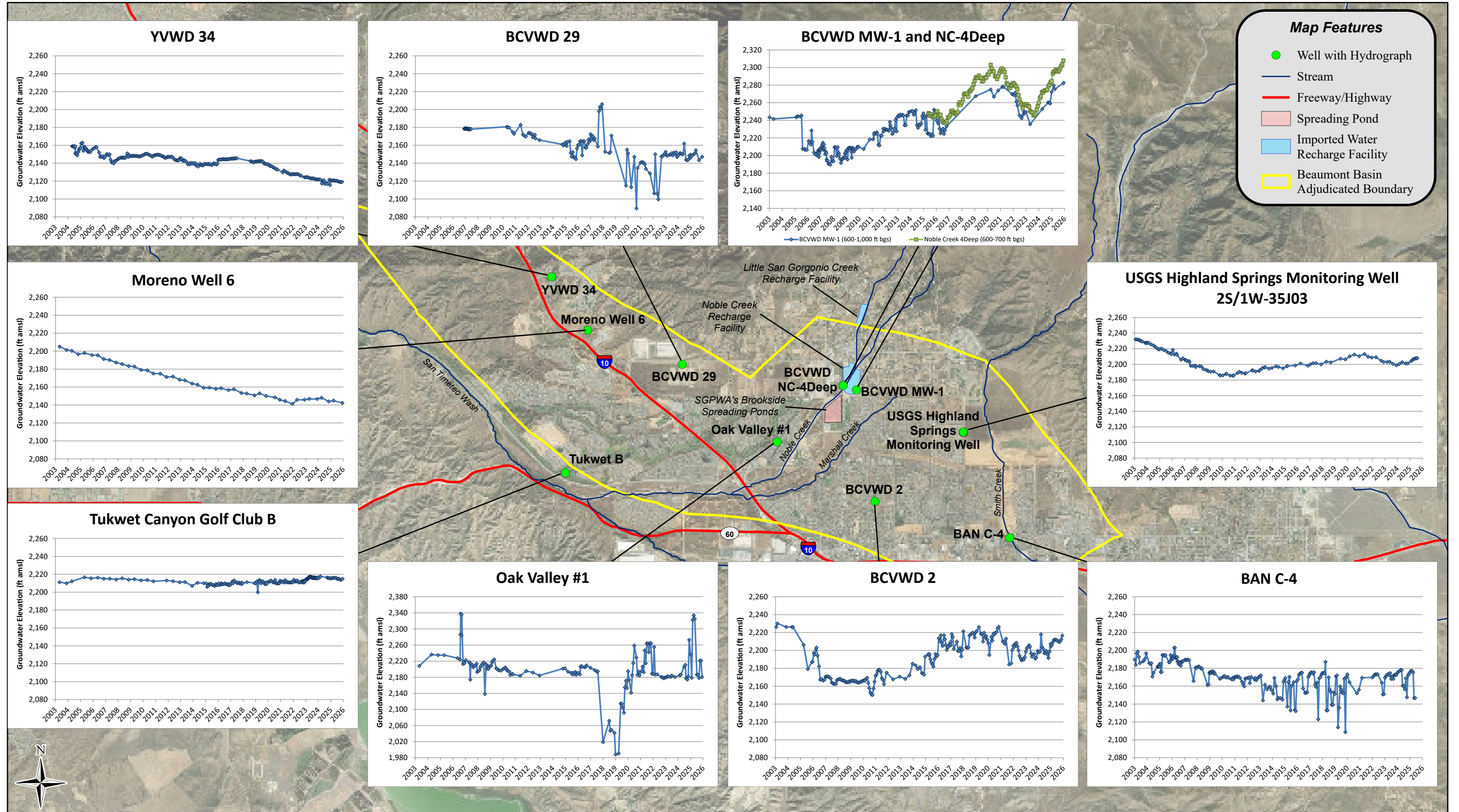
Beaumont Basin Watermaster



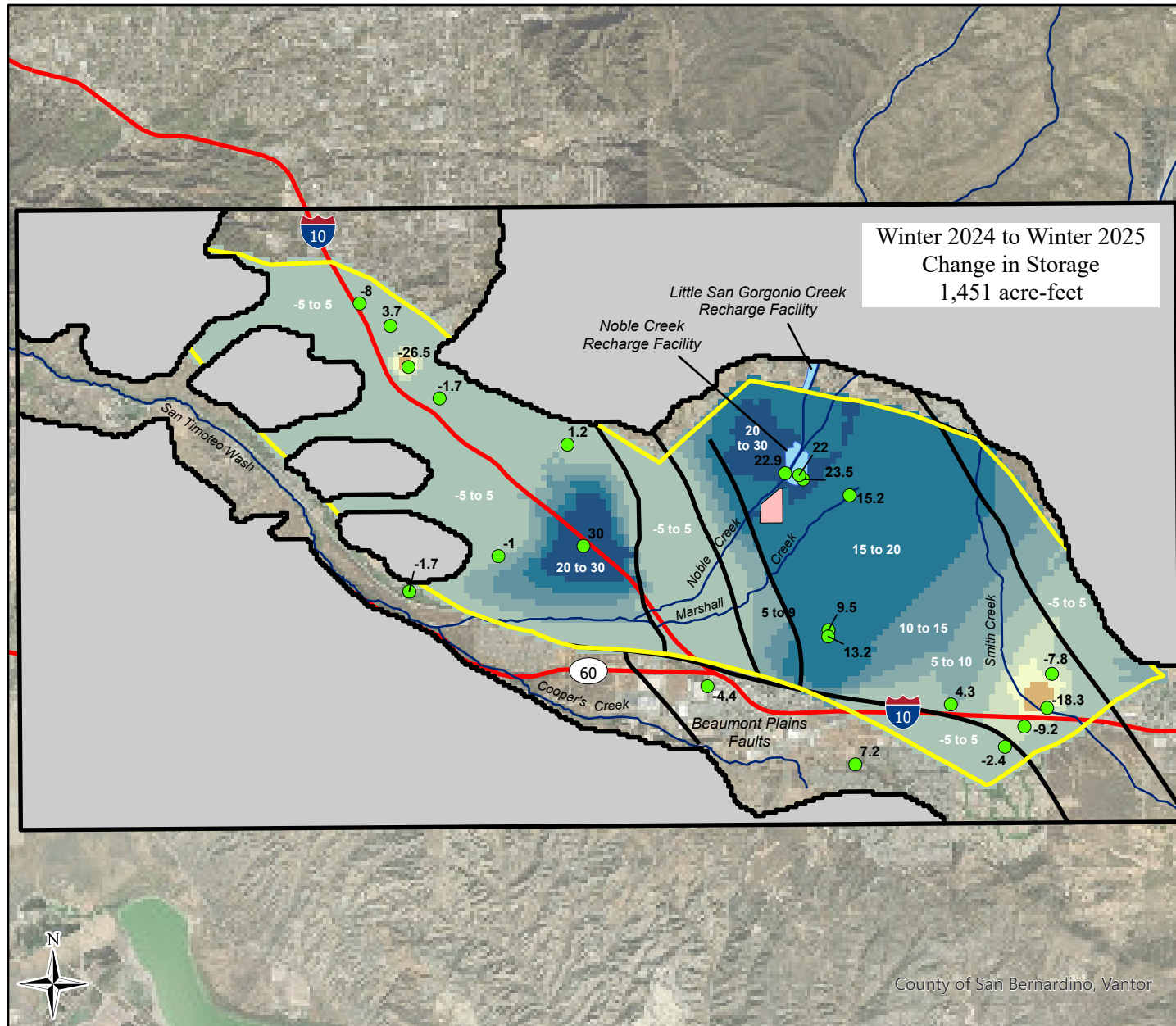
Map Features

- Well with Groundwater Elevation (ft amsl)
- Groundwater Elevation Contour (ft amsl)
 - 10-ft interval
 - 20-ft interval
- Groundwater Flow Direction
- Stream
- Fault
- Active Model Zone
- Inactive Model Zone
- Spreading Pond
- Imported Water Recharge Facility
- Beaumont Basin Adjudicated Boundary

Groundwater Contours in the Beaumont Basin - Winter 2025



Beaumont Basin Watermaster



Map Features

2024 to 2025 Groundwater Elevation Change (ft)

- 20 to 30
- 15 to 20
- 10 to 15
- 5 to 10
- -5 to 5
- -5 to -10
- -10 to -15
- -15 to -26
- Well with Groundwater Elevation Change (ft)
- Stream
- Fault
- Freeway/Highway
- Spreading Pond
- Imported Water Recharge Facility
- Beaumont Basin Adjudicated Boundary

**Change in Groundwater Elevation
Winter 2024 to Winter 2025**

Appendix G

GAMA Water Quality Analysis Summary (2021-2025) for Drinking Water Production Wells

GAMA Water Quality for the 2021-2025 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
Banning - C2A	9/5/2024	1,2-DIBROMO-3-CHLOROPROPANE		UG/L
Banning - C2A	12/4/2024	1,2-DIBROMO-3-CHLOROPROPANE		UG/L
Banning - C2A	3/9/2023	ASBESTOS		MFL
Banning - C2A	3/24/2025	CHROMIUM, HEX	16	UG/L
Banning - C2A	6/17/2025	CHROMIUM, HEX	16	UG/L
Banning - C2A	9/25/2025	CHROMIUM, HEX	16	UG/L
Banning - C2A	12/10/2025	CHROMIUM, HEX	16	UG/L
Banning - C2A	3/10/2022	COMBINED URANIUM		PCI/L
Banning - C2A	5/23/2022	COMBINED URANIUM		PCI/L
Banning - C2A	8/11/2022	COMBINED URANIUM		PCI/L
Banning - C2A	11/14/2022	COMBINED URANIUM		PCI/L
Banning - C2A	1/6/2021	NITRATE	1.9	MG/L
Banning - C2A	1/6/2021	NITRATE	1.9	MG/L
Banning - C2A	1/19/2022	NITRATE	1.7	MG/L
Banning - C2A	1/18/2023	NITRATE	1.8	MG/L
Banning - C2A	1/25/2024	NITRATE	2.0	MG/L
Banning - C2A	1/29/2025	NITRATE	1.5	MG/L
Banning - C2A	1/6/2021	NITRITE		MG/L
Banning - C2A	1/6/2021	NITRITE		MG/L
Banning - C2A	1/19/2022	NITRITE		MG/L
Banning - C2A	1/18/2023	NITRITE		MG/L
Banning - C2A	1/25/2024	NITRITE		MG/L
Banning - C2A	1/29/2025	NITRITE		MG/L
Banning - C3	9/5/2024	1,2-DIBROMO-3-CHLOROPROPANE		UG/L
Banning - C3	12/4/2024	1,2-DIBROMO-3-CHLOROPROPANE		UG/L
Banning - C3	3/8/2023	ASBESTOS		MFL
Banning - C3	3/27/2025	CHROMIUM, HEX	14	UG/L
Banning - C3	6/18/2025	CHROMIUM, HEX	13	UG/L
Banning - C3	9/25/2025	CHROMIUM, HEX	13	UG/L
Banning - C3	12/10/2025	CHROMIUM, HEX	15	UG/L
Banning - C3	3/10/2022	COMBINED URANIUM		PCI/L
Banning - C3	5/23/2022	COMBINED URANIUM		PCI/L
Banning - C3	8/11/2022	COMBINED URANIUM		PCI/L
Banning - C3	11/15/2022	COMBINED URANIUM		PCI/L
Banning - C3	1/19/2022	NITRATE	2.0	MG/L
Banning - C3	1/18/2023	NITRATE	1.6	MG/L
Banning - C3	1/30/2024	NITRATE	1.7	MG/L
Banning - C3	1/29/2025	NITRATE	2.0	MG/L
Banning - C3	1/19/2022	NITRITE		MG/L
Banning - C3	1/18/2023	NITRITE		MG/L
Banning - C3	1/30/2024	NITRITE		MG/L
Banning - C3	1/29/2025	NITRITE		MG/L

GAMA Water Quality for the 2021-2025 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
Banning - C4	4/17/2023	1,2-DIBROMO-3-CHLOROPROPANE		UG/L
Banning - C4	4/17/2023	ALKALINITY, BICARBONATE	150	MG/L
Banning - C4	4/17/2023	ALKALINITY, TOTAL	150	MG/L
Banning - C4	4/17/2023	ALUMINUM		UG/L
Banning - C4	4/17/2023	ANTIMONY, TOTAL		UG/L
Banning - C4	4/17/2023	ARSENIC		UG/L
Banning - C4	4/17/2023	ASBESTOS		MFL
Banning - C4	4/17/2023	BARIUM		UG/L
Banning - C4	4/17/2023	BERYLLIUM, TOTAL		UG/L
Banning - C4	4/17/2023	CADMIUM		UG/L
Banning - C4	4/17/2023	CALCIUM	26	MG/L
Banning - C4	4/17/2023	CHLORIDE	10	MG/L
Banning - C4	4/17/2023	CHROMIUM	12	UG/L
Banning - C4	3/24/2025	CHROMIUM, HEX	12	UG/L
Banning - C4	6/17/2025	CHROMIUM, HEX	15	UG/L
Banning - C4	9/25/2025	CHROMIUM, HEX	4.2	UG/L
Banning - C4	12/10/2025	CHROMIUM, HEX	6.8	UG/L
Banning - C4	6/28/2022	COMBINED URANIUM		PCI/L
Banning - C4	8/11/2022	COMBINED URANIUM		PCI/L
Banning - C4	11/14/2022	COMBINED URANIUM		PCI/L
Banning - C4	4/17/2023	COMBINED URANIUM		PCI/L
Banning - C4	4/17/2023	COPPER, FREE		UG/L
Banning - C4	4/17/2023	CYANIDE		UG/L
Banning - C4	4/17/2023	FLUORIDE	0.41	MG/L
Banning - C4	4/17/2023	HARDNESS, TOTAL (AS CaCO3)	90	MG/L
Banning - C4	4/17/2023	IRON		UG/L
Banning - C4	4/17/2023	LEAD		UG/L
Banning - C4	4/17/2023	MAGNESIUM	6.0	MG/L
Banning - C4	4/17/2023	MANGANESE		UG/L
Banning - C4	4/17/2023	MERCURY		UG/L
Banning - C4	4/17/2023	NICKEL		UG/L
Banning - C4	1/6/2021	NITRATE	0.93	MG/L
Banning - C4	1/6/2021	NITRATE	0.93	MG/L
Banning - C4	6/28/2022	NITRATE	1.5	MG/L
Banning - C4	4/17/2023	NITRATE	1.4	MG/L
Banning - C4	1/25/2024	NITRATE	1.4	MG/L
Banning - C4	1/29/2025	NITRATE	1.5	MG/L
Banning - C4	1/6/2021	NITRITE		MG/L
Banning - C4	1/6/2021	NITRITE		MG/L
Banning - C4	6/28/2022	NITRITE		MG/L
Banning - C4	4/17/2023	NITRITE		MG/L
Banning - C4	1/25/2024	NITRITE		MG/L

GAMA Water Quality for the 2021-2025 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
Banning - C4	1/29/2025	NITRITE		MG/L
Banning - C4	4/17/2023	PERCHLORATE		UG/L
Banning - C4	4/17/2023	PH	8.0	PH
Banning - C4	4/17/2023	POTASSIUM	1.1	MG/L
Banning - C4	4/17/2023	SELENIUM		UG/L
Banning - C4	4/17/2023	SILVER		UG/L
Banning - C4	4/17/2023	SODIUM	32	MG/L
Banning - C4	4/17/2023	SULFATE	14	MG/L
Banning - C4	4/17/2023	TDS	180	MG/L
Banning - C4	4/17/2023	TETRACHLOROETHYLENE		UG/L
Banning - C4	4/17/2023	THALLIUM, TOTAL		UG/L
Banning - C4	4/17/2023	TRICHLOROETHYLENE		UG/L
Banning - C4	4/17/2023	ZINC		UG/L
Banning - M3	2/11/2021	1,2-DIBROMO-3-CHLOROPROPANE		UG/L
Banning - M3	1/25/2024	1,2-DIBROMO-3-CHLOROPROPANE		UG/L
Banning - M3	9/5/2024	1,2-DIBROMO-3-CHLOROPROPANE		UG/L
Banning - M3	12/4/2024	1,2-DIBROMO-3-CHLOROPROPANE		UG/L
Banning - M3	2/11/2021	ALKALINITY, BICARBONATE	170	MG/L
Banning - M3	1/25/2024	ALKALINITY, BICARBONATE	190	MG/L
Banning - M3	2/11/2021	ALKALINITY, TOTAL	170	MG/L
Banning - M3	1/25/2024	ALKALINITY, TOTAL	190	MG/L
Banning - M3	2/11/2021	ALUMINUM		UG/L
Banning - M3	1/25/2024	ALUMINUM		UG/L
Banning - M3	2/11/2021	ANTIMONY, TOTAL		UG/L
Banning - M3	1/25/2024	ANTIMONY, TOTAL		UG/L
Banning - M3	2/11/2021	ARSENIC		UG/L
Banning - M3	1/25/2024	ARSENIC		UG/L
Banning - M3	2/11/2021	ASBESTOS		MFL
Banning - M3	1/25/2024	ASBESTOS		MFL
Banning - M3	2/11/2021	BARIUM		UG/L
Banning - M3	1/25/2024	BARIUM		UG/L
Banning - M3	2/11/2021	BERYLLIUM, TOTAL		UG/L
Banning - M3	1/25/2024	BERYLLIUM, TOTAL		UG/L
Banning - M3	2/11/2021	CADMIUM		UG/L
Banning - M3	1/25/2024	CADMIUM		UG/L
Banning - M3	2/11/2021	CALCIUM	37	MG/L
Banning - M3	1/25/2024	CALCIUM	38	MG/L
Banning - M3	2/11/2021	CHLORIDE	16	MG/L
Banning - M3	1/25/2024	CHLORIDE	15	MG/L
Banning - M3	2/11/2021	CHROMIUM		UG/L
Banning - M3	1/25/2024	CHROMIUM		UG/L
Banning - M3	3/24/2025	CHROMIUM, HEX	8.3	UG/L

GAMA Water Quality for the 2021-2025 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
Banning - M3	3/10/2022	COMBINED URANIUM		PCI/L
Banning - M3	5/23/2022	COMBINED URANIUM		PCI/L
Banning - M3	8/11/2022	COMBINED URANIUM		PCI/L
Banning - M3	11/14/2022	COMBINED URANIUM		PCI/L
Banning - M3	2/11/2021	COPPER, FREE		UG/L
Banning - M3	1/25/2024	COPPER, FREE		UG/L
Banning - M3	2/11/2021	CYANIDE		UG/L
Banning - M3	1/25/2024	CYANIDE		UG/L
Banning - M3	2/11/2021	FLUORIDE	0.3	MG/L
Banning - M3	1/25/2024	FLUORIDE	0.35	MG/L
Banning - M3	2/11/2021	HARDNESS, TOTAL (AS CaCO3)	150	MG/L
Banning - M3	1/25/2024	HARDNESS, TOTAL (AS CaCO3)	150	MG/L
Banning - M3	2/11/2021	IRON		UG/L
Banning - M3	1/25/2024	IRON		UG/L
Banning - M3	2/11/2021	LEAD		UG/L
Banning - M3	1/25/2024	LEAD		UG/L
Banning - M3	2/11/2021	MAGNESIUM	13	MG/L
Banning - M3	1/25/2024	MAGNESIUM	13	MG/L
Banning - M3	2/11/2021	MANGANESE		UG/L
Banning - M3	1/25/2024	MANGANESE		UG/L
Banning - M3	2/11/2021	MERCURY		UG/L
Banning - M3	1/25/2024	MERCURY		UG/L
Banning - M3	2/11/2021	NICKEL		UG/L
Banning - M3	1/25/2024	NICKEL		UG/L
Banning - M3	1/6/2021	NITRATE	2.1	MG/L
Banning - M3	1/6/2021	NITRATE	2.1	MG/L
Banning - M3	2/11/2021	NITRATE	2.3	MG/L
Banning - M3	1/19/2022	NITRATE	2.3	MG/L
Banning - M3	1/18/2023	NITRATE	2.1	MG/L
Banning - M3	1/25/2024	NITRATE	2.7	MG/L
Banning - M3	1/25/2024	NITRATE	2.7	MG/L
Banning - M3	1/6/2021	NITRITE		MG/L
Banning - M3	1/6/2021	NITRITE		MG/L
Banning - M3	2/11/2021	NITRITE		MG/L
Banning - M3	1/19/2022	NITRITE		MG/L
Banning - M3	1/18/2023	NITRITE		MG/L
Banning - M3	1/25/2024	NITRITE		MG/L
Banning - M3	1/25/2024	NITRITE		MG/L
Banning - M3	2/11/2021	PERCHLORATE		UG/L
Banning - M3	1/25/2024	PERCHLORATE		UG/L
Banning - M3	2/11/2021	PH	8.1	PH
Banning - M3	1/25/2024	PH	8.1	PH

GAMA Water Quality for the 2021-2025 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
Banning - M3	2/11/2021	POTASSIUM	2.2	MG/L
Banning - M3	1/25/2024	POTASSIUM	1.8	MG/L
Banning - M3	2/11/2021	SELENIUM		UG/L
Banning - M3	1/25/2024	SELENIUM		UG/L
Banning - M3	2/11/2021	SILVER		UG/L
Banning - M3	1/25/2024	SILVER		UG/L
Banning - M3	2/11/2021	SODIUM	39	MG/L
Banning - M3	1/25/2024	SODIUM	34	MG/L
Banning - M3	2/11/2021	SULFATE	33	MG/L
Banning - M3	1/25/2024	SULFATE	24	MG/L
Banning - M3	2/11/2021	TDS	260	MG/L
Banning - M3	1/25/2024	TDS	260	MG/L
Banning - M3	2/11/2021	TETRACHLOROETHYLENE		UG/L
Banning - M3	1/25/2024	TETRACHLOROETHYLENE		UG/L
Banning - M3	2/11/2021	THALLIUM, TOTAL		UG/L
Banning - M3	1/25/2024	THALLIUM, TOTAL		UG/L
Banning - M3	2/11/2021	TRICHLOROETHYLENE		UG/L
Banning - M3	1/25/2024	TRICHLOROETHYLENE		UG/L
Banning - M3	2/11/2021	ZINC		UG/L
Banning - M3	1/25/2024	ZINC		UG/L
Banning - M4	1/29/2025	NITRATE	2.6	MG/L
Banning - M5	1/29/2025	NITRITE		MG/L
BCVWD - 03	3/22/2022	1,2-DIBROMO-3-CHLOROPROPANE		UG/L
BCVWD - 03	9/28/2022	1,2-DIBROMO-3-CHLOROPROPANE		UG/L
BCVWD - 03	12/13/2023	ALKALINITY, BICARBONATE	140	MG/L
BCVWD - 03	12/13/2023	ALKALINITY, TOTAL	140	MG/L
BCVWD - 03	12/13/2023	ALUMINUM		UG/L
BCVWD - 03	12/13/2023	ANTIMONY, TOTAL		UG/L
BCVWD - 03	12/13/2023	ARSENIC		UG/L
BCVWD - 03	12/13/2023	BARIUM		UG/L
BCVWD - 03	12/13/2023	BERYLLIUM, TOTAL		UG/L
BCVWD - 03	12/13/2023	CADMIUM		UG/L
BCVWD - 03	12/13/2023	CALCIUM	32	MG/L
BCVWD - 03	12/13/2023	CHLORIDE	6.6	MG/L
BCVWD - 03	12/13/2023	CHROMIUM	11	UG/L
BCVWD - 03	9/14/2021	COMBINED URANIUM	1.1	PCI/L
BCVWD - 03	12/13/2023	COPPER, FREE		UG/L
BCVWD - 03	12/13/2023	CYANIDE		UG/L
BCVWD - 03	12/13/2023	FLUORIDE	0.28	MG/L
BCVWD - 03	12/13/2023	HARDNESS, TOTAL (AS CaCO3)	110	MG/L
BCVWD - 03	12/13/2023	IRON	110	UG/L
BCVWD - 03	12/13/2023	LEAD		UG/L

GAMA Water Quality for the 2021-2025 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
BCVWD - 03	12/13/2023	MAGNESIUM	6.7	MG/L
BCVWD - 03	12/13/2023	MANGANESE	24	UG/L
BCVWD - 03	12/13/2023	MERCURY		UG/L
BCVWD - 03	12/13/2023	NICKEL		UG/L
BCVWD - 03	12/9/2021	NITRATE	0.87	MG/L
BCVWD - 03	11/30/2022	NITRATE	0.98	MG/L
BCVWD - 03	12/13/2023	NITRATE	0.54	MG/L
BCVWD - 03	12/13/2023	NITRITE		MG/L
BCVWD - 03	12/13/2023	PERCHLORATE		UG/L
BCVWD - 03	12/13/2023	PH	8.1	PH
BCVWD - 03	12/13/2023	POTASSIUM	1.8	MG/L
BCVWD - 03	12/13/2023	SELENIUM		UG/L
BCVWD - 03	12/13/2023	SILVER		UG/L
BCVWD - 03	12/13/2023	SODIUM	30	MG/L
BCVWD - 03	12/13/2023	SULFATE	12	MG/L
BCVWD - 03	12/13/2023	TDS	180	MG/L
BCVWD - 03	12/13/2023	TETRACHLOROETHYLENE		UG/L
BCVWD - 03	12/13/2023	THALLIUM, TOTAL		UG/L
BCVWD - 03	12/13/2023	TRICHLOROETHYLENE		UG/L
BCVWD - 03	12/3/2024	ZINC		UG/L
BCVWD - 16	3/22/2022	1,2-DIBROMO-3-CHLOROPROPANE		UG/L
BCVWD - 16	9/28/2022	1,2-DIBROMO-3-CHLOROPROPANE		UG/L
BCVWD - 16	11/30/2022	ALKALINITY, BICARBONATE	190	MG/L
BCVWD - 16	11/30/2022	ALKALINITY, TOTAL	190	MG/L
BCVWD - 16	11/30/2022	ALUMINUM		UG/L
BCVWD - 16	11/30/2022	ANTIMONY, TOTAL		UG/L
BCVWD - 16	11/30/2022	ARSENIC		UG/L
BCVWD - 16	11/30/2022	BARIUM		UG/L
BCVWD - 16	11/30/2022	BERYLLIUM, TOTAL		UG/L
BCVWD - 16	11/30/2022	CADMIUM		UG/L
BCVWD - 16	11/30/2022	CALCIUM	53	MG/L
BCVWD - 16	11/30/2022	CHLORIDE	34	MG/L
BCVWD - 16	11/30/2022	CHROMIUM		UG/L
BCVWD - 16	5/7/2024	CHROMIUM, HEX	3.2	UG/L
BCVWD - 16	11/30/2022	COPPER, FREE		UG/L
BCVWD - 16	11/30/2022	CYANIDE		UG/L
BCVWD - 16	11/30/2022	FLUORIDE	0.64	MG/L
BCVWD - 16	11/30/2022	HARDNESS, TOTAL (AS CaCO3)	210	MG/L
BCVWD - 16	11/30/2022	IRON		UG/L
BCVWD - 16	11/30/2022	LEAD		UG/L
BCVWD - 16	11/30/2022	MAGNESIUM	19	MG/L
BCVWD - 16	11/30/2022	MANGANESE		UG/L

GAMA Water Quality for the 2021-2025 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
BCVWD - 16	11/30/2022	MERCURY		UG/L
BCVWD - 16	11/30/2022	NICKEL		UG/L
BCVWD - 16	2/9/2021	NITRATE	6.2	MG/L
BCVWD - 16	3/23/2021	NITRATE	5.3	MG/L
BCVWD - 16	4/29/2021	NITRATE	6.0	MG/L
BCVWD - 16	5/26/2021	NITRATE	6.7	MG/L
BCVWD - 16	6/29/2021	NITRATE	6.3	MG/L
BCVWD - 16	7/28/2021	NITRATE	6.1	MG/L
BCVWD - 16	8/23/2021	NITRATE	5.7	MG/L
BCVWD - 16	9/21/2021	NITRATE	6.3	MG/L
BCVWD - 16	10/28/2021	NITRATE	5.7	MG/L
BCVWD - 16	11/23/2021	NITRATE	5.7	MG/L
BCVWD - 16	12/9/2021	NITRATE	6.1	MG/L
BCVWD - 16	1/26/2022	NITRATE	5.7	MG/L
BCVWD - 16	2/23/2022	NITRATE	5.6	MG/L
BCVWD - 16	3/23/2022	NITRATE	5.4	MG/L
BCVWD - 16	4/28/2022	NITRATE	5.5	MG/L
BCVWD - 16	5/24/2022	NITRATE	5.4	MG/L
BCVWD - 16	6/22/2022	NITRATE	5.1	MG/L
BCVWD - 16	7/28/2022	NITRATE	4.7	MG/L
BCVWD - 16	9/22/2022	NITRATE	4.7	MG/L
BCVWD - 16	10/25/2022	NITRATE	4.8	MG/L
BCVWD - 16	11/28/2022	NITRATE	5.0	MG/L
BCVWD - 16	11/30/2022	NITRATE	4.8	MG/L
BCVWD - 16	12/20/2022	NITRATE	5.1	MG/L
BCVWD - 16	2/1/2023	NITRATE	5.1	MG/L
BCVWD - 16	3/7/2023	NITRATE	5.0	MG/L
BCVWD - 16	4/25/2023	NITRATE	5.0	MG/L
BCVWD - 16	5/16/2023	NITRATE	5.1	MG/L
BCVWD - 16	6/21/2023	NITRATE	5.0	MG/L
BCVWD - 16	7/26/2023	NITRATE	4.7	MG/L
BCVWD - 16	8/31/2023	NITRATE	4.4	MG/L
BCVWD - 16	9/19/2023	NITRATE	4.6	MG/L
BCVWD - 16	10/23/2023	NITRATE	4.7	MG/L
BCVWD - 16	11/22/2023	NITRATE	4.2	MG/L
BCVWD - 16	2/26/2024	NITRATE	4.6	MG/L
BCVWD - 16	3/18/2024	NITRATE	4.4	MG/L
BCVWD - 16	4/15/2024	NITRATE	4.4	MG/L
BCVWD - 16	5/20/2024	NITRATE	4.5	MG/L
BCVWD - 16	7/29/2024	NITRATE	4.4	MG/L
BCVWD - 16	8/12/2024	NITRATE	4.5	MG/L
BCVWD - 16	9/23/2024	NITRATE	4.2	MG/L

GAMA Water Quality for the 2021-2025 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
BCVWD - 16	10/24/2024	NITRATE	4.2	MG/L
BCVWD - 16	11/12/2024	NITRATE	4.4	MG/L
BCVWD - 16	12/4/2024	NITRATE	4.1	MG/L
BCVWD - 16	1/13/2025	NITRATE	4.2	MG/L
BCVWD - 16	2/4/2025	NITRATE	4.2	MG/L
BCVWD - 16	3/17/2025	NITRATE	3.3	MG/L
BCVWD - 16	4/14/2025	NITRATE	4.5	MG/L
BCVWD - 16	5/12/2025	NITRATE	4.1	MG/L
BCVWD - 16	6/12/2025	NITRATE	4.4	MG/L
BCVWD - 16	7/10/2025	NITRATE	4.1	MG/L
BCVWD - 16	8/21/2025	NITRATE	4.0	MG/L
BCVWD - 16	9/17/2025	NITRATE	4.0	MG/L
BCVWD - 16	10/21/2025	NITRATE	3.9	MG/L
BCVWD - 16	11/12/2025	NITRATE	3.5	MG/L
BCVWD - 16	12/15/2025	NITRATE	4.0	MG/L
BCVWD - 16	11/30/2022	NITRITE		MG/L
BCVWD - 16	11/30/2022	PERCHLORATE		UG/L
BCVWD - 16	11/30/2022	PH	7.9	PH
BCVWD - 16	11/30/2022	POTASSIUM	1.4	MG/L
BCVWD - 16	11/30/2022	SELENIUM		UG/L
BCVWD - 16	11/30/2022	SILVER		UG/L
BCVWD - 16	11/30/2022	SODIUM	37	MG/L
BCVWD - 16	11/30/2022	SULFATE	48	MG/L
BCVWD - 16	11/30/2022	TDS	330	MG/L
BCVWD - 16	11/30/2022	TETRACHLOROETHYLENE		UG/L
BCVWD - 16	11/24/2025	TETRACHLOROETHYLENE		UG/L
BCVWD - 16	11/30/2022	THALLIUM, TOTAL		UG/L
BCVWD - 16	11/30/2022	TRICHLOROETHYLENE		UG/L
BCVWD - 16	11/24/2025	TRICHLOROETHYLENE		UG/L
BCVWD - 16	12/13/2023	ZINC		UG/L
BCVWD - 21	3/22/2022	1,2-DIBROMO-3-CHLOROPROPANE		UG/L
BCVWD - 21	9/28/2022	1,2-DIBROMO-3-CHLOROPROPANE		UG/L
BCVWD - 21	12/9/2021	ALKALINITY, BICARBONATE	170	MG/L
BCVWD - 21	12/4/2024	ALKALINITY, BICARBONATE	130	MG/L
BCVWD - 21	12/9/2021	ALKALINITY, TOTAL	170	MG/L
BCVWD - 21	12/4/2024	ALKALINITY, TOTAL	130	MG/L
BCVWD - 21	12/9/2021	ALUMINUM		UG/L
BCVWD - 21	12/4/2024	ALUMINUM		UG/L
BCVWD - 21	12/9/2021	ANTIMONY, TOTAL		UG/L
BCVWD - 21	12/4/2024	ANTIMONY, TOTAL		UG/L
BCVWD - 21	12/9/2021	ARSENIC		UG/L
BCVWD - 21	12/4/2024	ARSENIC		UG/L

GAMA Water Quality for the 2021-2025 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
BCVWD - 21	12/9/2021	BARIUM	22	UG/L
BCVWD - 21	12/4/2024	BARIUM	22	UG/L
BCVWD - 21	12/9/2021	BERYLLIUM, TOTAL		UG/L
BCVWD - 21	12/4/2024	BERYLLIUM, TOTAL		UG/L
BCVWD - 21	12/9/2021	CADMIUM		UG/L
BCVWD - 21	12/4/2024	CADMIUM		UG/L
BCVWD - 21	12/9/2021	CALCIUM	53	MG/L
BCVWD - 21	12/4/2024	CALCIUM	51	MG/L
BCVWD - 21	12/9/2021	CHLORIDE	32	MG/L
BCVWD - 21	12/4/2024	CHLORIDE	56	MG/L
BCVWD - 21	12/9/2021	CHROMIUM	1.5	UG/L
BCVWD - 21	12/4/2024	CHROMIUM	7.7	UG/L
BCVWD - 21	10/24/2024	CHROMIUM, HEX	7.6	UG/L
BCVWD - 21	12/9/2021	COPPER, FREE		UG/L
BCVWD - 21	12/4/2024	COPPER, FREE		UG/L
BCVWD - 21	12/9/2021	CYANIDE		UG/L
BCVWD - 21	12/4/2024	CYANIDE		UG/L
BCVWD - 21	12/9/2021	FLUORIDE	0.49	MG/L
BCVWD - 21	12/4/2024	FLUORIDE	0.54	MG/L
BCVWD - 21	12/9/2021	HARDNESS, TOTAL (AS CaCO3)	210	MG/L
BCVWD - 21	12/4/2024	HARDNESS, TOTAL (AS CaCO3)	200	MG/L
BCVWD - 21	12/9/2021	IRON		UG/L
BCVWD - 21	12/4/2024	IRON		UG/L
BCVWD - 21	12/9/2021	LEAD		UG/L
BCVWD - 21	12/4/2024	LEAD		UG/L
BCVWD - 21	12/9/2021	MAGNESIUM	19	MG/L
BCVWD - 21	12/4/2024	MAGNESIUM	18	MG/L
BCVWD - 21	12/9/2021	MANGANESE		UG/L
BCVWD - 21	12/4/2024	MANGANESE		UG/L
BCVWD - 21	12/9/2021	MERCURY		UG/L
BCVWD - 21	12/4/2024	MERCURY		UG/L
BCVWD - 21	12/9/2021	NICKEL		UG/L
BCVWD - 21	12/4/2024	NICKEL		UG/L
BCVWD - 21	2/9/2021	NITRATE	3.0	MG/L
BCVWD - 21	3/23/2021	NITRATE	3.0	MG/L
BCVWD - 21	4/29/2021	NITRATE	3.0	MG/L
BCVWD - 21	5/26/2021	NITRATE	3.2	MG/L
BCVWD - 21	6/29/2021	NITRATE	3.2	MG/L
BCVWD - 21	7/28/2021	NITRATE	3.1	MG/L
BCVWD - 21	8/23/2021	NITRATE	2.9	MG/L
BCVWD - 21	9/21/2021	NITRATE	3.3	MG/L
BCVWD - 21	10/28/2021	NITRATE	3.0	MG/L

GAMA Water Quality for the 2021-2025 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
BCVWD - 21	11/23/2021	NITRATE	3.1	MG/L
BCVWD - 21	12/9/2021	NITRATE	3.3	MG/L
BCVWD - 21	1/26/2022	NITRATE	2.9	MG/L
BCVWD - 21	2/23/2022	NITRATE	2.9	MG/L
BCVWD - 21	3/23/2022	NITRATE	2.9	MG/L
BCVWD - 21	4/28/2022	NITRATE	3.0	MG/L
BCVWD - 21	5/24/2022	NITRATE	3.0	MG/L
BCVWD - 21	6/22/2022	NITRATE	2.9	MG/L
BCVWD - 21	7/28/2022	NITRATE	2.7	MG/L
BCVWD - 21	9/22/2022	NITRATE	2.9	MG/L
BCVWD - 21	10/25/2022	NITRATE	2.9	MG/L
BCVWD - 21	11/28/2022	NITRATE	2.9	MG/L
BCVWD - 21	11/30/2022	NITRATE	2.8	MG/L
BCVWD - 21	12/20/2022	NITRATE	3.0	MG/L
BCVWD - 21	2/1/2023	NITRATE	2.6	MG/L
BCVWD - 21	3/7/2023	NITRATE	2.7	MG/L
BCVWD - 21	4/25/2023	NITRATE	2.8	MG/L
BCVWD - 21	5/16/2023	NITRATE	2.9	MG/L
BCVWD - 21	6/21/2023	NITRATE	2.9	MG/L
BCVWD - 21	7/26/2023	NITRATE	2.9	MG/L
BCVWD - 21	8/31/2023	NITRATE	2.8	MG/L
BCVWD - 21	9/19/2023	NITRATE	2.9	MG/L
BCVWD - 21	10/23/2023	NITRATE	1.5	MG/L
BCVWD - 21	6/24/2024	NITRATE	1.5	MG/L
BCVWD - 21	7/29/2024	NITRATE	2.2	MG/L
BCVWD - 21	8/12/2024	NITRATE	2.5	MG/L
BCVWD - 21	9/23/2024	NITRATE	2.4	MG/L
BCVWD - 21	10/24/2024	NITRATE	2.2	MG/L
BCVWD - 21	11/12/2024	NITRATE	2.4	MG/L
BCVWD - 21	12/4/2024	NITRATE	1.5	MG/L
BCVWD - 21	1/13/2025	NITRATE	2.3	MG/L
BCVWD - 21	2/4/2025	NITRATE	2.2	MG/L
BCVWD - 21	3/17/2025	NITRATE	0.96	MG/L
BCVWD - 21	4/14/2025	NITRATE	1.1	MG/L
BCVWD - 21	5/12/2025	NITRATE	2.0	MG/L
BCVWD - 21	6/12/2025	NITRATE	2.3	MG/L
BCVWD - 21	7/10/2025	NITRATE	2.3	MG/L
BCVWD - 21	8/21/2025	NITRATE	2.2	MG/L
BCVWD - 21	9/17/2025	NITRATE	2.3	MG/L
BCVWD - 21	10/21/2025	NITRATE	2.2	MG/L
BCVWD - 21	11/12/2025	NITRATE	2.2	MG/L
BCVWD - 21	12/15/2025	NITRATE	2.2	MG/L

GAMA Water Quality for the 2021-2025 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
BCVWD - 21	12/9/2021	NITRITE		MG/L
BCVWD - 21	12/4/2024	NITRITE		MG/L
BCVWD - 21	12/9/2021	PERCHLORATE		UG/L
BCVWD - 21	12/4/2024	PERCHLORATE		UG/L
BCVWD - 21	12/9/2021	PH	8.1	PH
BCVWD - 21	12/4/2024	PH	7.8	PH
BCVWD - 21	12/9/2021	POTASSIUM	1.8	MG/L
BCVWD - 21	12/4/2024	POTASSIUM	1.7	MG/L
BCVWD - 21	12/9/2021	SELENIUM		UG/L
BCVWD - 21	12/4/2024	SELENIUM		UG/L
BCVWD - 21	12/9/2021	SILVER		UG/L
BCVWD - 21	12/4/2024	SILVER		UG/L
BCVWD - 21	12/9/2021	SODIUM	25	MG/L
BCVWD - 21	12/4/2024	SODIUM	23	MG/L
BCVWD - 21	12/9/2021	SULFATE	31	MG/L
BCVWD - 21	12/4/2024	SULFATE	35	MG/L
BCVWD - 21	12/9/2021	TDS	260	MG/L
BCVWD - 21	12/4/2024	TDS	320	MG/L
BCVWD - 21	11/30/2022	TETRACHLOROETHYLENE		UG/L
BCVWD - 21	11/24/2025	TETRACHLOROETHYLENE		UG/L
BCVWD - 21	12/9/2021	THALLIUM, TOTAL		UG/L
BCVWD - 21	12/4/2024	THALLIUM, TOTAL		UG/L
BCVWD - 21	11/30/2022	TRICHLOROETHYLENE		UG/L
BCVWD - 21	11/24/2025	TRICHLOROETHYLENE		UG/L
BCVWD - 21	12/9/2021	ZINC		UG/L
BCVWD - 21	11/30/2022	ZINC		UG/L
BCVWD - 22	3/22/2022	1,2-DIBROMO-3-CHLOROPROPANE		UG/L
BCVWD - 22	9/28/2022	1,2-DIBROMO-3-CHLOROPROPANE		UG/L
BCVWD - 22	11/30/2022	ALKALINITY, BICARBONATE	200	MG/L
BCVWD - 22	11/13/2025	ALKALINITY, BICARBONATE	180	MG/L
BCVWD - 22	11/13/2025	ALKALINITY, CARBONATE		MG/L
BCVWD - 22	11/30/2022	ALKALINITY, TOTAL	200	MG/L
BCVWD - 22	11/13/2025	ALKALINITY, TOTAL	180	MG/L
BCVWD - 22	11/30/2022	ALUMINUM		UG/L
BCVWD - 22	11/13/2025	ALUMINUM		UG/L
BCVWD - 22	11/30/2022	ANTIMONY, TOTAL		UG/L
BCVWD - 22	11/13/2025	ANTIMONY, TOTAL		UG/L
BCVWD - 22	11/30/2022	ARSENIC		UG/L
BCVWD - 22	11/13/2025	ARSENIC		UG/L
BCVWD - 22	11/30/2022	BARIUM		UG/L
BCVWD - 22	11/13/2025	BARIUM	16	UG/L
BCVWD - 22	11/30/2022	BERYLLIUM, TOTAL		UG/L

GAMA Water Quality for the 2021-2025 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
BCVWD - 22	11/13/2025	BERYLLIUM, TOTAL		UG/L
BCVWD - 22	11/30/2022	CADMIUM		UG/L
BCVWD - 22	11/13/2025	CADMIUM		UG/L
BCVWD - 22	11/30/2022	CALCIUM	40	MG/L
BCVWD - 22	11/13/2025	CALCIUM	42	MG/L
BCVWD - 22	11/30/2022	CHLORIDE	8.1	MG/L
BCVWD - 22	11/13/2025	CHLORIDE	8.6	MG/L
BCVWD - 22	11/30/2022	CHROMIUM		UG/L
BCVWD - 22	11/13/2025	CHROMIUM	7.3	UG/L
BCVWD - 22	5/7/2024	CHROMIUM, HEX	7.3	UG/L
BCVWD - 22	11/30/2022	COPPER, FREE		UG/L
BCVWD - 22	11/13/2025	COPPER, FREE		UG/L
BCVWD - 22	11/30/2022	CYANIDE		UG/L
BCVWD - 22	11/13/2025	CYANIDE		UG/L
BCVWD - 22	11/30/2022	FLUORIDE	0.32	MG/L
BCVWD - 22	11/13/2025	FLUORIDE	0.31	MG/L
BCVWD - 22	11/30/2022	HARDNESS, TOTAL (AS CaCO3)	170	MG/L
BCVWD - 22	11/13/2025	HARDNESS, TOTAL (AS CaCO3)	180	MG/L
BCVWD - 22	11/30/2022	IRON		UG/L
BCVWD - 22	11/13/2025	IRON		UG/L
BCVWD - 22	11/30/2022	LEAD		UG/L
BCVWD - 22	11/13/2025	LEAD		UG/L
BCVWD - 22	11/30/2022	MAGNESIUM	17	MG/L
BCVWD - 22	11/13/2025	MAGNESIUM	18	MG/L
BCVWD - 22	11/30/2022	MANGANESE		UG/L
BCVWD - 22	11/13/2025	MANGANESE		UG/L
BCVWD - 22	11/30/2022	MERCURY		UG/L
BCVWD - 22	11/13/2025	MERCURY		UG/L
BCVWD - 22	11/30/2022	NICKEL		UG/L
BCVWD - 22	11/13/2025	NICKEL		UG/L
BCVWD - 22	12/9/2021	NITRATE	1.3	MG/L
BCVWD - 22	11/30/2022	NITRATE	1.4	MG/L
BCVWD - 22	11/22/2023	NITRATE	1.5	MG/L
BCVWD - 22	10/3/2024	NITRATE	1.8	MG/L
BCVWD - 22	11/13/2025	NITRATE	2.0	MG/L
BCVWD - 22	11/30/2022	NITRITE		MG/L
BCVWD - 22	11/13/2025	NITRITE		MG/L
BCVWD - 22	11/30/2022	PERCHLORATE		UG/L
BCVWD - 22	11/13/2025	PERCHLORATE		UG/L
BCVWD - 22	11/30/2022	PH	8.0	PH
BCVWD - 22	11/13/2025	PH	8.0	PH
BCVWD - 22	11/30/2022	POTASSIUM	1.5	MG/L

GAMA Water Quality for the 2021-2025 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
BCVWD - 22	11/13/2025	POTASSIUM	1.4	MG/L
BCVWD - 22	11/30/2022	SELENIUM		UG/L
BCVWD - 22	11/13/2025	SELENIUM		UG/L
BCVWD - 22	11/30/2022	SILVER		UG/L
BCVWD - 22	11/13/2025	SILVER		UG/L
BCVWD - 22	11/30/2022	SODIUM	18	MG/L
BCVWD - 22	11/13/2025	SODIUM	19	MG/L
BCVWD - 22	11/30/2022	SULFATE	11	MG/L
BCVWD - 22	11/13/2025	SULFATE	12	MG/L
BCVWD - 22	11/30/2022	TDS	200	MG/L
BCVWD - 22	11/13/2025	TDS	230	MG/L
BCVWD - 22	11/30/2022	TETRACHLOROETHYLENE		UG/L
BCVWD - 22	11/24/2025	TETRACHLOROETHYLENE		UG/L
BCVWD - 22	11/30/2022	THALLIUM, TOTAL		UG/L
BCVWD - 22	11/13/2025	THALLIUM, TOTAL		UG/L
BCVWD - 22	11/30/2022	TRICHLOROETHYLENE		UG/L
BCVWD - 22	11/24/2025	TRICHLOROETHYLENE		UG/L
BCVWD - 22	12/4/2024	ZINC		UG/L
BCVWD - 22	11/13/2025	ZINC		UG/L
BCVWD - 23	12/15/2021	1,2-DIBROMO-3-CHLOROPROPANE	0.024	UG/L
BCVWD - 23	6/23/2022	1,2-DIBROMO-3-CHLOROPROPANE	0.033	UG/L
BCVWD - 23	12/22/2022	1,2-DIBROMO-3-CHLOROPROPANE	0.028	UG/L
BCVWD - 23	12/15/2021	ALKALINITY, BICARBONATE	150	MG/L
BCVWD - 23	12/3/2024	ALKALINITY, BICARBONATE	160	MG/L
BCVWD - 23	12/15/2021	ALKALINITY, TOTAL	150	MG/L
BCVWD - 23	12/3/2024	ALKALINITY, TOTAL	160	MG/L
BCVWD - 23	12/15/2021	ALUMINUM		UG/L
BCVWD - 23	12/3/2024	ALUMINUM		UG/L
BCVWD - 23	12/15/2021	ANTIMONY, TOTAL		UG/L
BCVWD - 23	12/3/2024	ANTIMONY, TOTAL		UG/L
BCVWD - 23	12/15/2021	ARSENIC		UG/L
BCVWD - 23	12/3/2024	ARSENIC		UG/L
BCVWD - 23	12/15/2021	BARIUM	27	UG/L
BCVWD - 23	12/3/2024	BARIUM	26	UG/L
BCVWD - 23	12/15/2021	BERYLLIUM, TOTAL		UG/L
BCVWD - 23	12/3/2024	BERYLLIUM, TOTAL		UG/L
BCVWD - 23	12/15/2021	CADMIUM		UG/L
BCVWD - 23	12/3/2024	CADMIUM		UG/L
BCVWD - 23	12/15/2021	CALCIUM	49	MG/L
BCVWD - 23	12/3/2024	CALCIUM	46	MG/L
BCVWD - 23	12/15/2021	CHLORIDE	46	MG/L
BCVWD - 23	12/3/2024	CHLORIDE	26	MG/L

GAMA Water Quality for the 2021-2025 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
BCVWD - 23	12/15/2021	CHROMIUM	5.3	UG/L
BCVWD - 23	12/3/2024	CHROMIUM	6.7	UG/L
BCVWD - 23	5/7/2024	CHROMIUM, HEX	6.9	UG/L
BCVWD - 23	12/15/2021	COPPER, FREE		UG/L
BCVWD - 23	12/3/2024	COPPER, FREE		UG/L
BCVWD - 23	12/15/2021	CYANIDE		UG/L
BCVWD - 23	12/3/2024	CYANIDE		UG/L
BCVWD - 23	12/15/2021	FLUORIDE	0.41	MG/L
BCVWD - 23	12/3/2024	FLUORIDE	0.32	MG/L
BCVWD - 23	12/15/2021	HARDNESS, TOTAL (AS CaCO3)	200	MG/L
BCVWD - 23	12/3/2024	HARDNESS, TOTAL (AS CaCO3)	170	MG/L
BCVWD - 23	12/15/2021	IRON		UG/L
BCVWD - 23	1/18/2024	IRON		UG/L
BCVWD - 23	4/17/2024	IRON		UG/L
BCVWD - 23	7/29/2024	IRON		UG/L
BCVWD - 23	10/17/2024	IRON		UG/L
BCVWD - 23	12/3/2024	IRON		UG/L
BCVWD - 23	1/22/2025	IRON		UG/L
BCVWD - 23	4/14/2025	IRON		UG/L
BCVWD - 23	7/10/2025	IRON		UG/L
BCVWD - 23	10/21/2025	IRON		UG/L
BCVWD - 23	12/15/2021	LEAD		UG/L
BCVWD - 23	12/3/2024	LEAD		UG/L
BCVWD - 23	12/15/2021	MAGNESIUM	18	MG/L
BCVWD - 23	12/3/2024	MAGNESIUM	13	MG/L
BCVWD - 23	12/15/2021	MANGANESE		UG/L
BCVWD - 23	12/3/2024	MANGANESE		UG/L
BCVWD - 23	12/15/2021	MERCURY		UG/L
BCVWD - 23	12/3/2024	MERCURY		UG/L
BCVWD - 23	12/15/2021	NICKEL		UG/L
BCVWD - 23	12/3/2024	NICKEL		UG/L
BCVWD - 23	12/15/2021	NITRATE	2.2	MG/L
BCVWD - 23	12/22/2022	NITRATE	1.8	MG/L
BCVWD - 23	11/22/2023	NITRATE	1.6	MG/L
BCVWD - 23	12/3/2024	NITRATE	1.6	MG/L
BCVWD - 23	11/12/2025	NITRATE	1.6	MG/L
BCVWD - 23	12/15/2021	NITRITE		MG/L
BCVWD - 23	12/3/2024	NITRITE		MG/L
BCVWD - 23	12/15/2021	PERCHLORATE		UG/L
BCVWD - 23	12/3/2024	PERCHLORATE		UG/L
BCVWD - 23	12/15/2021	PH	8.0	PH
BCVWD - 23	12/3/2024	PH	7.8	PH

GAMA Water Quality for the 2021-2025 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
BCVWD - 23	12/15/2021	POTASSIUM	1.5	MG/L
BCVWD - 23	12/3/2024	POTASSIUM	1.6	MG/L
BCVWD - 23	12/15/2021	SELENIUM		UG/L
BCVWD - 23	12/3/2024	SELENIUM		UG/L
BCVWD - 23	12/15/2021	SILVER		UG/L
BCVWD - 23	12/3/2024	SILVER		UG/L
BCVWD - 23	12/15/2021	SODIUM	20	MG/L
BCVWD - 23	12/3/2024	SODIUM	22	MG/L
BCVWD - 23	12/15/2021	SULFATE	25	MG/L
BCVWD - 23	12/3/2024	SULFATE	21	MG/L
BCVWD - 23	12/15/2021	TDS	270	MG/L
BCVWD - 23	12/3/2024	TDS	240	MG/L
BCVWD - 23	12/15/2021	TETRACHLOROETHYLENE		UG/L
BCVWD - 23	12/3/2024	TETRACHLOROETHYLENE		UG/L
BCVWD - 23	12/15/2021	THALLIUM, TOTAL		UG/L
BCVWD - 23	12/3/2024	THALLIUM, TOTAL		UG/L
BCVWD - 23	12/15/2021	TRICHLOROETHYLENE		UG/L
BCVWD - 23	12/3/2024	TRICHLOROETHYLENE		UG/L
BCVWD - 23	12/15/2021	ZINC		UG/L
BCVWD - 23	11/30/2022	ZINC		UG/L
BCVWD - 24	3/22/2022	1,2-DIBROMO-3-CHLOROPROPANE		UG/L
BCVWD - 24	9/28/2022	1,2-DIBROMO-3-CHLOROPROPANE		UG/L
BCVWD - 24	11/30/2022	ALKALINITY, BICARBONATE	170	MG/L
BCVWD - 24	11/13/2025	ALKALINITY, BICARBONATE	150	MG/L
BCVWD - 24	11/13/2025	ALKALINITY, CARBONATE		MG/L
BCVWD - 24	11/30/2022	ALKALINITY, TOTAL	170	MG/L
BCVWD - 24	11/13/2025	ALKALINITY, TOTAL	150	MG/L
BCVWD - 24	11/30/2022	ALUMINUM		UG/L
BCVWD - 24	11/13/2025	ALUMINUM		UG/L
BCVWD - 24	11/30/2022	ANTIMONY, TOTAL		UG/L
BCVWD - 24	11/13/2025	ANTIMONY, TOTAL		UG/L
BCVWD - 24	11/30/2022	ARSENIC		UG/L
BCVWD - 24	11/13/2025	ARSENIC		UG/L
BCVWD - 24	11/30/2022	BARIUM		UG/L
BCVWD - 24	11/13/2025	BARIUM	18	UG/L
BCVWD - 24	11/30/2022	BERYLLIUM, TOTAL		UG/L
BCVWD - 24	11/13/2025	BERYLLIUM, TOTAL		UG/L
BCVWD - 24	11/30/2022	CADMIUM		UG/L
BCVWD - 24	11/13/2025	CADMIUM		UG/L
BCVWD - 24	11/30/2022	CALCIUM	38	MG/L
BCVWD - 24	11/13/2025	CALCIUM	40	MG/L
BCVWD - 24	11/30/2022	CHLORIDE	6.7	MG/L

GAMA Water Quality for the 2021-2025 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
BCVWD - 24	11/13/2025	CHLORIDE	7.3	MG/L
BCVWD - 24	11/30/2022	CHROMIUM		UG/L
BCVWD - 24	11/13/2025	CHROMIUM	8.7	UG/L
BCVWD - 24	5/7/2024	CHROMIUM, HEX	8.6	UG/L
BCVWD - 24	11/30/2022	COPPER, FREE		UG/L
BCVWD - 24	11/13/2025	COPPER, FREE		UG/L
BCVWD - 24	11/30/2022	CYANIDE		UG/L
BCVWD - 24	11/13/2025	CYANIDE		UG/L
BCVWD - 24	11/30/2022	FLUORIDE	0.38	MG/L
BCVWD - 24	11/13/2025	FLUORIDE	0.36	MG/L
BCVWD - 24	11/30/2022	HARDNESS, TOTAL (AS CaCO3)	150	MG/L
BCVWD - 24	11/13/2025	HARDNESS, TOTAL (AS CaCO3)	150	MG/L
BCVWD - 24	11/30/2022	IRON		UG/L
BCVWD - 24	11/13/2025	IRON		UG/L
BCVWD - 24	11/30/2022	LEAD		UG/L
BCVWD - 24	11/13/2025	LEAD		UG/L
BCVWD - 24	11/30/2022	MAGNESIUM	13	MG/L
BCVWD - 24	11/13/2025	MAGNESIUM	13	MG/L
BCVWD - 24	11/30/2022	MANGANESE		UG/L
BCVWD - 24	11/13/2025	MANGANESE		UG/L
BCVWD - 24	11/30/2022	MERCURY		UG/L
BCVWD - 24	11/13/2025	MERCURY		UG/L
BCVWD - 24	11/30/2022	NICKEL		UG/L
BCVWD - 24	11/13/2025	NICKEL		UG/L
BCVWD - 24	12/9/2021	NITRATE	1.6	MG/L
BCVWD - 24	11/30/2022	NITRATE	1.9	MG/L
BCVWD - 24	11/22/2023	NITRATE	1.9	MG/L
BCVWD - 24	10/3/2024	NITRATE	2.1	MG/L
BCVWD - 24	11/13/2025	NITRATE	2.0	MG/L
BCVWD - 24	11/30/2022	NITRITE		MG/L
BCVWD - 24	11/13/2025	NITRITE		MG/L
BCVWD - 24	11/30/2022	PERCHLORATE		UG/L
BCVWD - 24	11/13/2025	PERCHLORATE		UG/L
BCVWD - 24	11/30/2022	PH	7.9	PH
BCVWD - 24	11/13/2025	PH	8.0	PH
BCVWD - 24	11/30/2022	POTASSIUM	1.6	MG/L
BCVWD - 24	11/13/2025	POTASSIUM	1.5	MG/L
BCVWD - 24	11/30/2022	SELENIUM		UG/L
BCVWD - 24	11/13/2025	SELENIUM		UG/L
BCVWD - 24	11/30/2022	SILVER		UG/L
BCVWD - 24	11/13/2025	SILVER		UG/L
BCVWD - 24	11/30/2022	SODIUM	19	MG/L

GAMA Water Quality for the 2021-2025 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
BCVWD - 24	11/13/2025	SODIUM	19	MG/L
BCVWD - 24	11/30/2022	SULFATE	11	MG/L
BCVWD - 24	11/13/2025	SULFATE	11	MG/L
BCVWD - 24	11/30/2022	TDS	200	MG/L
BCVWD - 24	11/13/2025	TDS	200	MG/L
BCVWD - 24	11/30/2022	TETRACHLOROETHYLENE		UG/L
BCVWD - 24	11/24/2025	TETRACHLOROETHYLENE		UG/L
BCVWD - 24	11/30/2022	THALLIUM, TOTAL		UG/L
BCVWD - 24	11/13/2025	THALLIUM, TOTAL		UG/L
BCVWD - 24	11/30/2022	TRICHLOROETHYLENE		UG/L
BCVWD - 24	11/24/2025	TRICHLOROETHYLENE		UG/L
BCVWD - 24	12/3/2024	ZINC		UG/L
BCVWD - 24	11/13/2025	ZINC		UG/L
BCVWD - 25	12/15/2021	1,2-DIBROMO-3-CHLOROPROPANE		UG/L
BCVWD - 25	3/22/2022	1,2-DIBROMO-3-CHLOROPROPANE		UG/L
BCVWD - 25	9/28/2022	1,2-DIBROMO-3-CHLOROPROPANE		UG/L
BCVWD - 25	12/15/2021	ALKALINITY, BICARBONATE	180	MG/L
BCVWD - 25	12/4/2024	ALKALINITY, BICARBONATE	180	MG/L
BCVWD - 25	12/15/2021	ALKALINITY, TOTAL	180	MG/L
BCVWD - 25	12/4/2024	ALKALINITY, TOTAL	180	MG/L
BCVWD - 25	12/15/2021	ALUMINUM		UG/L
BCVWD - 25	12/4/2024	ALUMINUM		UG/L
BCVWD - 25	12/15/2021	ANTIMONY, TOTAL		UG/L
BCVWD - 25	12/4/2024	ANTIMONY, TOTAL		UG/L
BCVWD - 25	12/15/2021	ARSENIC		UG/L
BCVWD - 25	12/4/2024	ARSENIC		UG/L
BCVWD - 25	12/15/2021	BARIUM		UG/L
BCVWD - 25	12/4/2024	BARIUM	14	UG/L
BCVWD - 25	12/15/2021	BERYLLIUM, TOTAL		UG/L
BCVWD - 25	12/4/2024	BERYLLIUM, TOTAL		UG/L
BCVWD - 25	12/15/2021	CADMIUM		UG/L
BCVWD - 25	12/4/2024	CADMIUM		UG/L
BCVWD - 25	12/15/2021	CALCIUM	43	MG/L
BCVWD - 25	12/4/2024	CALCIUM	46	MG/L
BCVWD - 25	12/15/2021	CHLORIDE	11	MG/L
BCVWD - 25	12/4/2024	CHLORIDE	11	MG/L
BCVWD - 25	12/15/2021	CHROMIUM	11	UG/L
BCVWD - 25	12/4/2024	CHROMIUM	11	UG/L
BCVWD - 25	5/7/2024	CHROMIUM, HEX	12	UG/L
BCVWD - 25	3/17/2025	CHROMIUM, HEX	11	UG/L
BCVWD - 25	6/12/2025	CHROMIUM, HEX	11	UG/L
BCVWD - 25	9/4/2025	CHROMIUM, HEX	11	UG/L

GAMA Water Quality for the 2021-2025 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
BCVWD - 25	12/15/2021	COPPER, FREE		UG/L
BCVWD - 25	12/4/2024	COPPER, FREE		UG/L
BCVWD - 25	12/15/2021	CYANIDE		UG/L
BCVWD - 25	12/4/2024	CYANIDE		UG/L
BCVWD - 25	12/15/2021	FLUORIDE	0.24	MG/L
BCVWD - 25	12/4/2024	FLUORIDE	0.23	MG/L
BCVWD - 25	12/15/2021	HARDNESS, TOTAL (AS CaCO3)	160	MG/L
BCVWD - 25	12/4/2024	HARDNESS, TOTAL (AS CaCO3)	170	MG/L
BCVWD - 25	12/15/2021	IRON		UG/L
BCVWD - 25	12/4/2024	IRON		UG/L
BCVWD - 25	12/15/2021	LEAD		UG/L
BCVWD - 25	12/4/2024	LEAD		UG/L
BCVWD - 25	12/15/2021	MAGNESIUM	13	MG/L
BCVWD - 25	12/4/2024	MAGNESIUM	14	MG/L
BCVWD - 25	12/15/2021	MANGANESE		UG/L
BCVWD - 25	12/4/2024	MANGANESE		UG/L
BCVWD - 25	12/15/2021	MERCURY		UG/L
BCVWD - 25	12/4/2024	MERCURY		UG/L
BCVWD - 25	12/15/2021	NICKEL		UG/L
BCVWD - 25	12/4/2024	NICKEL		UG/L
BCVWD - 25	12/15/2021	NITRATE	1.4	MG/L
BCVWD - 25	11/30/2022	NITRATE	1.2	MG/L
BCVWD - 25	11/22/2023	NITRATE	1.2	MG/L
BCVWD - 25	12/4/2024	NITRATE	1.3	MG/L
BCVWD - 25	9/4/2025	NITRATE	1.2	MG/L
BCVWD - 25	12/15/2021	NITRITE		MG/L
BCVWD - 25	12/4/2024	NITRITE		MG/L
BCVWD - 25	12/15/2021	PERCHLORATE		UG/L
BCVWD - 25	12/4/2024	PERCHLORATE		UG/L
BCVWD - 25	12/15/2021	PH	8.1	PH
BCVWD - 25	12/4/2024	PH	8.0	PH
BCVWD - 25	12/15/2021	POTASSIUM	1.6	MG/L
BCVWD - 25	12/4/2024	POTASSIUM	1.6	MG/L
BCVWD - 25	12/15/2021	SELENIUM		UG/L
BCVWD - 25	12/4/2024	SELENIUM		UG/L
BCVWD - 25	12/15/2021	SILVER		UG/L
BCVWD - 25	12/4/2024	SILVER		UG/L
BCVWD - 25	12/15/2021	SODIUM	21	MG/L
BCVWD - 25	12/4/2024	SODIUM	22	MG/L
BCVWD - 25	12/15/2021	SULFATE	16	MG/L
BCVWD - 25	12/4/2024	SULFATE	16	MG/L
BCVWD - 25	12/15/2021	TDS	220	MG/L

GAMA Water Quality for the 2021-2025 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
BCVWD - 25	12/4/2024	TDS	230	MG/L
BCVWD - 25	12/15/2021	TETRACHLOROETHYLENE		UG/L
BCVWD - 25	12/4/2024	TETRACHLOROETHYLENE		UG/L
BCVWD - 25	12/15/2021	THALLIUM, TOTAL		UG/L
BCVWD - 25	12/4/2024	THALLIUM, TOTAL		UG/L
BCVWD - 25	12/15/2021	TRICHLOROETHYLENE		UG/L
BCVWD - 25	12/4/2024	TRICHLOROETHYLENE		UG/L
BCVWD - 25	12/15/2021	ZINC		UG/L
BCVWD - 25	11/30/2022	ZINC		UG/L
BCVWD - 26	5/7/2024	CHROMIUM, HEX	14	UG/L
BCVWD - 26	11/30/2022	COMBINED URANIUM		PCI/L
BCVWD - 26	12/9/2021	NITRATE	0.74	MG/L
BCVWD - 26	11/30/2022	NITRATE	1.0	MG/L
BCVWD - 26	11/19/2025	NITRATE	0.79	MG/L
BCVWD - 26	12/4/2024	ZINC		UG/L
BCVWD - 29	12/15/2021	1,2-DIBROMO-3-CHLOROPROPANE		UG/L
BCVWD - 29	12/15/2021	ALKALINITY, BICARBONATE	160	MG/L
BCVWD - 29	12/3/2024	ALKALINITY, BICARBONATE	160	MG/L
BCVWD - 29	12/15/2021	ALKALINITY, TOTAL	160	MG/L
BCVWD - 29	12/3/2024	ALKALINITY, TOTAL	160	MG/L
BCVWD - 29	12/15/2021	ALUMINUM		UG/L
BCVWD - 29	12/3/2024	ALUMINUM		UG/L
BCVWD - 29	12/15/2021	ANTIMONY, TOTAL		UG/L
BCVWD - 29	12/3/2024	ANTIMONY, TOTAL		UG/L
BCVWD - 29	12/15/2021	ARSENIC		UG/L
BCVWD - 29	12/3/2024	ARSENIC		UG/L
BCVWD - 29	12/15/2021	BARIUM	20	UG/L
BCVWD - 29	12/3/2024	BARIUM	18	UG/L
BCVWD - 29	12/15/2021	BERYLLIUM, TOTAL		UG/L
BCVWD - 29	12/3/2024	BERYLLIUM, TOTAL		UG/L
BCVWD - 29	12/15/2021	CADMIUM		UG/L
BCVWD - 29	12/3/2024	CADMIUM		UG/L
BCVWD - 29	12/15/2021	CALCIUM	41	MG/L
BCVWD - 29	12/3/2024	CALCIUM	36	MG/L
BCVWD - 29	12/15/2021	CHLORIDE	15	MG/L
BCVWD - 29	12/3/2024	CHLORIDE	8.1	MG/L
BCVWD - 29	12/15/2021	CHROMIUM	7.6	UG/L
BCVWD - 29	12/3/2024	CHROMIUM	9.3	UG/L
BCVWD - 29	5/7/2024	CHROMIUM, HEX	3.7	UG/L
BCVWD - 29	12/15/2021	COPPER, FREE		UG/L
BCVWD - 29	12/3/2024	COPPER, FREE		UG/L
BCVWD - 29	12/15/2021	CYANIDE		UG/L

GAMA Water Quality for the 2021-2025 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
BCVWD - 29	12/3/2024	CYANIDE		UG/L
BCVWD - 29	12/15/2021	FLUORIDE	0.33	MG/L
BCVWD - 29	12/3/2024	FLUORIDE	0.30	MG/L
BCVWD - 29	12/15/2021	HARDNESS, TOTAL (AS CaCO3)	160	MG/L
BCVWD - 29	12/3/2024	HARDNESS, TOTAL (AS CaCO3)	140	MG/L
BCVWD - 29	12/15/2021	IRON		UG/L
BCVWD - 29	12/3/2024	IRON		UG/L
BCVWD - 29	12/15/2021	LEAD		UG/L
BCVWD - 29	12/3/2024	LEAD		UG/L
BCVWD - 29	12/15/2021	MAGNESIUM	14	MG/L
BCVWD - 29	12/3/2024	MAGNESIUM	12	MG/L
BCVWD - 29	12/15/2021	MANGANESE		UG/L
BCVWD - 29	12/3/2024	MANGANESE		UG/L
BCVWD - 29	12/15/2021	MERCURY		UG/L
BCVWD - 29	12/3/2024	MERCURY		UG/L
BCVWD - 29	12/15/2021	NICKEL		UG/L
BCVWD - 29	12/3/2024	NICKEL		UG/L
BCVWD - 29	12/15/2021	NITRATE	2.1	MG/L
BCVWD - 29	11/30/2022	NITRATE	2.8	MG/L
BCVWD - 29	11/22/2023	NITRATE	0.96	MG/L
BCVWD - 29	11/22/2023	NITRATE	2.7	MG/L
BCVWD - 29	12/3/2024	NITRATE	1.2	MG/L
BCVWD - 29	6/12/2025	NITRATE	1.8	MG/L
BCVWD - 29	12/15/2021	NITRITE		MG/L
BCVWD - 29	12/3/2024	NITRITE		MG/L
BCVWD - 29	12/15/2021	PERCHLORATE		UG/L
BCVWD - 29	12/3/2024	PERCHLORATE		UG/L
BCVWD - 29	12/15/2021	PH	8.1	PH
BCVWD - 29	12/3/2024	PH	8.0	PH
BCVWD - 29	12/15/2021	POTASSIUM	1.7	MG/L
BCVWD - 29	12/3/2024	POTASSIUM	1.6	MG/L
BCVWD - 29	12/15/2021	SELENIUM		UG/L
BCVWD - 29	12/3/2024	SELENIUM		UG/L
BCVWD - 29	12/15/2021	SILVER		UG/L
BCVWD - 29	12/3/2024	SILVER		UG/L
BCVWD - 29	12/15/2021	SODIUM	19	MG/L
BCVWD - 29	12/3/2024	SODIUM	18	MG/L
BCVWD - 29	12/15/2021	SULFATE	12	MG/L
BCVWD - 29	12/3/2024	SULFATE	11	MG/L
BCVWD - 29	12/15/2021	TDS	210	MG/L
BCVWD - 29	12/3/2024	TDS	200	MG/L
BCVWD - 29	12/15/2021	TETRACHLOROETHYLENE		UG/L

GAMA Water Quality for the 2021-2025 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
BCVWD - 29	12/3/2024	TETRACHLOROETHYLENE		UG/L
BCVWD - 29	12/15/2021	THALLIUM, TOTAL		UG/L
BCVWD - 29	12/3/2024	THALLIUM, TOTAL		UG/L
BCVWD - 29	12/15/2021	TRICHLOROETHYLENE		UG/L
BCVWD - 29	12/3/2024	TRICHLOROETHYLENE		UG/L
BCVWD - 29	12/15/2021	ZINC		UG/L
Plantation - 01	2/25/2025	1,2-DIBROMO-3-CHLOROPROPANE		UG/L
Plantation - 01	3/23/2023	ALKALINITY, BICARBONATE	240	MG/L
Plantation - 01	3/23/2023	ALKALINITY, TOTAL	200	MG/L
Plantation - 01	3/23/2023	ALUMINUM		UG/L
Plantation - 01	3/23/2023	ANTIMONY, TOTAL		UG/L
Plantation - 01	3/23/2023	ARSENIC		UG/L
Plantation - 01	3/23/2023	ASBESTOS		MFL
Plantation - 01	3/23/2023	BARIUM		UG/L
Plantation - 01	3/23/2023	BERYLLIUM, TOTAL		UG/L
Plantation - 01	3/23/2023	CADMIUM		UG/L
Plantation - 01	3/23/2023	CALCIUM	50	MG/L
Plantation - 01	3/23/2023	CHLORIDE	15	MG/L
Plantation - 01	3/23/2023	CHROMIUM		UG/L
Plantation - 01	2/25/2025	CHROMIUM, HEX	6.6	UG/L
Plantation - 01	3/23/2023	COPPER, FREE		UG/L
Plantation - 01	3/23/2023	CYANIDE		UG/L
Plantation - 01	3/23/2023	FLUORIDE	0.42	MG/L
Plantation - 01	3/23/2023	HARDNESS, TOTAL (AS CaCO3)	200	MG/L
Plantation - 01	3/23/2023	IRON		UG/L
Plantation - 01	3/23/2023	LEAD		UG/L
Plantation - 01	3/23/2023	MAGNESIUM	18	MG/L
Plantation - 01	3/3/2022	MANGANESE		UG/L
Plantation - 01	3/23/2023	MANGANESE		UG/L
Plantation - 01	3/23/2023	MERCURY		UG/L
Plantation - 01	3/23/2023	NICKEL		UG/L
Plantation - 01	12/20/2021	NITRATE	2.1	MG/L
Plantation - 01	12/21/2022	NITRATE	2.0	MG/L
Plantation - 01	3/23/2023	NITRATE	1.9	MG/L
Plantation - 01	3/25/2024	NITRATE	1.8	MG/L
Plantation - 01	3/24/2025	NITRATE	1.9	MG/L
Plantation - 01	3/23/2023	NITRATE-NITRITE	1.9	MG/L
Plantation - 01	3/23/2023	NITRITE		MG/L
Plantation - 01	3/23/2023	PERCHLORATE		UG/L
Plantation - 01	3/23/2023	PH	7.7	PH
Plantation - 01	3/23/2023	POTASSIUM		MG/L
Plantation - 01	3/23/2023	SELENIUM		UG/L

GAMA Water Quality for the 2021-2025 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
Plantation - 01	3/23/2023	SILVER		UG/L
Plantation - 01	3/23/2023	SODIUM	19	MG/L
Plantation - 01	3/23/2023	SULFATE	12	MG/L
Plantation - 01	3/23/2023	TDS	280	MG/L
Plantation - 01	2/25/2025	TETRACHLOROETHYLENE		UG/L
Plantation - 01	3/23/2023	THALLIUM, TOTAL		UG/L
Plantation - 01	2/25/2025	TRICHLOROETHYLENE		UG/L
Plantation - 01	3/23/2023	ZINC		UG/L
RCMHP - 01	3/19/2024	ALKALINITY, BICARBONATE	180	MG/L
RCMHP - 01	3/19/2024	ALKALINITY, TOTAL	180	MG/L
RCMHP - 01	3/19/2024	ALUMINUM		UG/L
RCMHP - 01	3/19/2024	ANTIMONY, TOTAL		UG/L
RCMHP - 01	3/19/2024	ARSENIC		UG/L
RCMHP - 01	3/19/2024	BARIUM		UG/L
RCMHP - 01	3/19/2024	BERYLLIUM, TOTAL		UG/L
RCMHP - 01	3/19/2024	CADMIUM		UG/L
RCMHP - 01	3/19/2024	CALCIUM	44	MG/L
RCMHP - 01	3/19/2024	CHLORIDE	19	MG/L
RCMHP - 01	3/19/2024	CHROMIUM		UG/L
RCMHP - 01	10/23/2024	CHROMIUM, HEX	6.0	UG/L
RCMHP - 01	1/24/2025	CHROMIUM, HEX	6.1	UG/L
RCMHP - 01	3/19/2024	COPPER, FREE		UG/L
RCMHP - 01	3/19/2024	FLUORIDE	0.36	MG/L
RCMHP - 01	3/19/2024	HARDNESS, TOTAL (AS CaCO3)	180	MG/L
RCMHP - 01	3/19/2024	IRON		UG/L
RCMHP - 01	3/19/2024	LEAD		UG/L
RCMHP - 01	3/19/2024	MAGNESIUM	16	MG/L
RCMHP - 01	3/19/2024	MANGANESE		UG/L
RCMHP - 01	3/19/2024	MERCURY		UG/L
RCMHP - 01	3/19/2024	NICKEL		UG/L
RCMHP - 01	1/18/2021	NITRATE	5.2	MG/L
RCMHP - 01	5/10/2021	NITRATE	5.2	MG/L
RCMHP - 01	8/2/2021	NITRATE	4.8	MG/L
RCMHP - 01	10/18/2021	NITRATE	3.0	MG/L
RCMHP - 01	2/7/2022	NITRATE	4.8	MG/L
RCMHP - 01	4/22/2022	NITRATE	4.7	MG/L
RCMHP - 01	7/18/2022	NITRATE	4.6	MG/L
RCMHP - 01	3/19/2024	NITRATE	4.9	MG/L
RCMHP - 01	4/24/2024	NITRATE	5.4	MG/L
RCMHP - 01	7/9/2024	NITRATE	5.4	MG/L
RCMHP - 01	10/23/2024	NITRATE	5.4	MG/L
RCMHP - 01	1/24/2025	NITRATE	5.2	MG/L

GAMA Water Quality for the 2021-2025 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
RCMHP - 01	4/10/2025	NITRATE	5.1	MG/L
RCMHP - 01	10/22/2025	NITRATE	4.8	MG/L
RCMHP - 01	2/7/2022	NITRITE		MG/L
RCMHP - 01	3/19/2024	NITRITE		MG/L
RCMHP - 01	3/19/2024	PERCHLORATE	1.3	UG/L
RCMHP - 01	3/19/2024	PH	8.1	PH
RCMHP - 01	3/19/2024	SELENIUM		UG/L
RCMHP - 01	3/19/2024	SILVER		UG/L
RCMHP - 01	3/19/2024	SODIUM	21	MG/L
RCMHP - 01	3/19/2024	SULFATE	9.9	MG/L
RCMHP - 01	3/19/2024	TDS	250	MG/L
RCMHP - 01	3/19/2024	TETRACHLOROETHYLENE		UG/L
RCMHP - 01	3/19/2024	THALLIUM, TOTAL		UG/L
RCMHP - 01	3/19/2024	TRICHLOROETHYLENE		UG/L
RCMHP - 01	3/19/2024	ZINC	17	UG/L
RCMHP - 02	11/21/2022	ALKALINITY, BICARBONATE	190	MG/L
RCMHP - 02	11/21/2022	ALKALINITY, TOTAL	190	MG/L
RCMHP - 02	11/21/2022	ALUMINUM		UG/L
RCMHP - 02	11/21/2022	ANTIMONY, TOTAL		UG/L
RCMHP - 02	11/21/2022	ARSENIC		UG/L
RCMHP - 02	11/21/2022	BARIUM		UG/L
RCMHP - 02	11/21/2022	BERYLLIUM, TOTAL		UG/L
RCMHP - 02	11/21/2022	CADMIUM		UG/L
RCMHP - 02	11/21/2022	CALCIUM	43	MG/L
RCMHP - 02	11/21/2022	CHLORIDE	26	MG/L
RCMHP - 02	11/21/2022	CHROMIUM	10	UG/L
RCMHP - 02	10/23/2024	CHROMIUM, HEX	9.6	UG/L
RCMHP - 02	3/24/2025	CHROMIUM, HEX	9.9	UG/L
RCMHP - 02	4/3/2025	CHROMIUM, HEX	12	UG/L
RCMHP - 02	7/3/2025	CHROMIUM, HEX	7.2	UG/L
RCMHP - 02	11/21/2022	COPPER, FREE		UG/L
RCMHP - 02	11/21/2022	FLUORIDE	0.59	MG/L
RCMHP - 02	11/21/2022	HARDNESS, TOTAL (AS CaCO3)	170	MG/L
RCMHP - 02	11/21/2022	IRON		UG/L
RCMHP - 02	11/21/2022	LEAD		UG/L
RCMHP - 02	11/21/2022	MAGNESIUM	16	MG/L
RCMHP - 02	11/21/2022	MANGANESE		UG/L
RCMHP - 02	11/21/2022	MERCURY		UG/L
RCMHP - 02	11/21/2022	NICKEL		UG/L
RCMHP - 02	1/18/2021	NITRATE	6.1	MG/L
RCMHP - 02	5/10/2021	NITRATE	5.9	MG/L
RCMHP - 02	8/2/2021	NITRATE	5.4	MG/L

GAMA Water Quality for the 2021-2025 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
RCMHP - 02	10/18/2021	NITRATE	5.6	MG/L
RCMHP - 02	2/7/2022	NITRATE	4.5	MG/L
RCMHP - 02	4/22/2022	NITRATE	3.8	MG/L
RCMHP - 02	7/18/2022	NITRATE	3.5	MG/L
RCMHP - 02	11/21/2022	NITRATE	4.6	MG/L
RCMHP - 02	1/9/2023	NITRATE	4.4	MG/L
RCMHP - 02	4/10/2023	NITRATE	4.7	MG/L
RCMHP - 02	7/3/2023	NITRATE	4.5	MG/L
RCMHP - 02	10/9/2023	NITRATE	4.7	MG/L
RCMHP - 02	1/11/2024	NITRATE	4.7	MG/L
RCMHP - 02	4/24/2024	NITRATE	5.0	MG/L
RCMHP - 02	7/9/2024	NITRATE	4.8	MG/L
RCMHP - 02	10/10/2024	NITRATE	5.6	MG/L
RCMHP - 02	3/26/2025	NITRATE	5.8	MG/L
RCMHP - 02	4/3/2025	NITRATE	5.9	MG/L
RCMHP - 02	7/3/2025	NITRATE	5.5	MG/L
RCMHP - 02	10/22/2025	NITRATE	6.1	MG/L
RCMHP - 02	2/7/2022	NITRITE		MG/L
RCMHP - 02	11/21/2022	NITRITE		MG/L
RCMHP - 02	11/21/2022	PERCHLORATE		UG/L
RCMHP - 02	11/21/2022	PH	8.0	PH
RCMHP - 02	11/21/2022	POTASSIUM	1.6	MG/L
RCMHP - 02	11/21/2022	SELENIUM		UG/L
RCMHP - 02	11/21/2022	SILVER		UG/L
RCMHP - 02	11/21/2022	SODIUM	30	MG/L
RCMHP - 02	11/21/2022	SULFATE	13	MG/L
RCMHP - 02	11/21/2022	TDS	250	MG/L
RCMHP - 02	11/21/2022	TETRACHLOROETHYLENE		UG/L
RCMHP - 02	11/21/2022	THALLIUM, TOTAL		UG/L
RCMHP - 02	11/21/2022	TRICHLOROETHYLENE		UG/L
RCMHP - 02	11/21/2022	ZINC		UG/L
Sharondale MHOA - 01	11/21/2022	1,2-DIBROMO-3-CHLOROPROPANE		UG/L
Sharondale MHOA - 01	11/8/2021	ALKALINITY, BICARBONATE	200	MG/L
Sharondale MHOA - 01	1/24/2025	ALKALINITY, BICARBONATE	260	MG/L
Sharondale MHOA - 01	1/24/2025	ALKALINITY, CARBONATE		MG/L
Sharondale MHOA - 01	11/8/2021	ALKALINITY, TOTAL	200	MG/L
Sharondale MHOA - 01	1/24/2025	ALKALINITY, TOTAL	260	MG/L
Sharondale MHOA - 01	11/8/2021	ALUMINUM		UG/L
Sharondale MHOA - 01	1/24/2025	ALUMINUM		UG/L
Sharondale MHOA - 01	11/8/2021	ANTIMONY, TOTAL		UG/L
Sharondale MHOA - 01	1/24/2025	ANTIMONY, TOTAL		UG/L
Sharondale MHOA - 01	11/8/2021	ARSENIC		UG/L

GAMA Water Quality for the 2021-2025 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
Sharondale MHOA - 01	1/24/2025	ARSENIC		UG/L
Sharondale MHOA - 01	11/21/2022	ASBESTOS		MFL
Sharondale MHOA - 01	11/8/2021	BARIUM	42	UG/L
Sharondale MHOA - 01	1/24/2025	BARIUM	58	UG/L
Sharondale MHOA - 01	11/8/2021	BERYLLIUM, TOTAL		UG/L
Sharondale MHOA - 01	1/24/2025	BERYLLIUM, TOTAL		UG/L
Sharondale MHOA - 01	11/8/2021	CADMIUM		UG/L
Sharondale MHOA - 01	1/24/2025	CADMIUM		UG/L
Sharondale MHOA - 01	11/8/2021	CALCIUM	47	MG/L
Sharondale MHOA - 01	1/24/2025	CALCIUM	58	MG/L
Sharondale MHOA - 01	11/8/2021	CHLORIDE	28	MG/L
Sharondale MHOA - 01	1/24/2025	CHLORIDE	40	MG/L
Sharondale MHOA - 01	11/8/2021	CHROMIUM	6.2	UG/L
Sharondale MHOA - 01	1/24/2025	CHROMIUM	5.4	UG/L
Sharondale MHOA - 01	5/2/2025	COMBINED URANIUM	1.2	PCI/L
Sharondale MHOA - 01	11/8/2021	COPPER, FREE		UG/L
Sharondale MHOA - 01	1/24/2025	COPPER, FREE		UG/L
Sharondale MHOA - 01	12/19/2022	CYANIDE		UG/L
Sharondale MHOA - 01	1/24/2025	CYANIDE		UG/L
Sharondale MHOA - 01	11/8/2021	FLUORIDE	0.47	MG/L
Sharondale MHOA - 01	1/24/2025	FLUORIDE	0.45	MG/L
Sharondale MHOA - 01	11/8/2021	HARDNESS, TOTAL (AS CaCO3)	190	MG/L
Sharondale MHOA - 01	1/24/2025	HARDNESS, TOTAL (AS CaCO3)	240	MG/L
Sharondale MHOA - 01	11/8/2021	IRON		UG/L
Sharondale MHOA - 01	1/24/2025	IRON		UG/L
Sharondale MHOA - 01	11/8/2021	LEAD		UG/L
Sharondale MHOA - 01	1/24/2025	LEAD		UG/L
Sharondale MHOA - 01	11/8/2021	MAGNESIUM	17	MG/L
Sharondale MHOA - 01	1/24/2025	MAGNESIUM	22	MG/L
Sharondale MHOA - 01	11/8/2021	MANGANESE		UG/L
Sharondale MHOA - 01	1/24/2025	MANGANESE		UG/L
Sharondale MHOA - 01	11/8/2021	MERCURY		UG/L
Sharondale MHOA - 01	1/24/2025	MERCURY		UG/L
Sharondale MHOA - 01	12/20/2021	NICKEL		UG/L
Sharondale MHOA - 01	1/24/2025	NICKEL		UG/L
Sharondale MHOA - 01	1/12/2021	NITRATE	6.5	MG/L
Sharondale MHOA - 01	5/10/2021	NITRATE	4.8	MG/L
Sharondale MHOA - 01	8/2/2021	NITRATE	4.8	MG/L
Sharondale MHOA - 01	10/18/2021	NITRATE	5.0	MG/L
Sharondale MHOA - 01	11/8/2021	NITRATE	5.0	MG/L
Sharondale MHOA - 01	1/3/2022	NITRATE	6.9	MG/L
Sharondale MHOA - 01	10/24/2022	NITRATE	2.0	MG/L

GAMA Water Quality for the 2021-2025 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
Sharondale MHOA - 01	11/21/2022	NITRATE	3.3	MG/L
Sharondale MHOA - 01	1/9/2023	NITRATE	4.7	MG/L
Sharondale MHOA - 01	4/10/2023	NITRATE	5.3	MG/L
Sharondale MHOA - 01	7/3/2023	NITRATE	1.9	MG/L
Sharondale MHOA - 01	10/9/2023	NITRATE	2.7	MG/L
Sharondale MHOA - 01	1/11/2024	NITRATE	4.2	MG/L
Sharondale MHOA - 01	4/24/2024	NITRATE	4.5	MG/L
Sharondale MHOA - 01	5/28/2024	NITRATE	4.6	MG/L
Sharondale MHOA - 01	7/11/2024	NITRATE	4.0	MG/L
Sharondale MHOA - 01	1/24/2025	NITRATE	7.4	MG/L
Sharondale MHOA - 01	7/3/2025	NITRATE	5.4	MG/L
Sharondale MHOA - 01	10/27/2025	NITRATE	7.6	MG/L
Sharondale MHOA - 01	11/21/2022	NITRITE		MG/L
Sharondale MHOA - 01	1/24/2025	NITRITE		MG/L
Sharondale MHOA - 01	12/20/2021	PERCHLORATE		UG/L
Sharondale MHOA - 01	1/24/2025	PERCHLORATE	1.0	UG/L
Sharondale MHOA - 01	11/8/2021	PH	8.0	PH
Sharondale MHOA - 01	11/21/2022	PH	7.9	PH
Sharondale MHOA - 01	1/24/2025	PH	8.0	PH
Sharondale MHOA - 01	1/24/2025	POTASSIUM	2.2	MG/L
Sharondale MHOA - 01	12/20/2021	SELENIUM		UG/L
Sharondale MHOA - 01	1/24/2025	SELENIUM		UG/L
Sharondale MHOA - 01	11/8/2021	SILVER		UG/L
Sharondale MHOA - 01	1/24/2025	SILVER		UG/L
Sharondale MHOA - 01	11/8/2021	SODIUM	44	MG/L
Sharondale MHOA - 01	1/24/2025	SODIUM	49	MG/L
Sharondale MHOA - 01	11/8/2021	SULFATE	21	MG/L
Sharondale MHOA - 01	1/24/2025	SULFATE	25	MG/L
Sharondale MHOA - 01	11/8/2021	TDS	330	MG/L
Sharondale MHOA - 01	1/24/2025	TDS	400	MG/L
Sharondale MHOA - 01	11/21/2022	TETRACHLOROETHYLENE		UG/L
Sharondale MHOA - 01	5/14/2025	TETRACHLOROETHYLENE		UG/L
Sharondale MHOA - 01	12/20/2021	THALLIUM, TOTAL		UG/L
Sharondale MHOA - 01	1/24/2025	THALLIUM, TOTAL		UG/L
Sharondale MHOA - 01	11/21/2022	TRICHLOROETHYLENE		UG/L
Sharondale MHOA - 01	5/14/2025	TRICHLOROETHYLENE		UG/L
Sharondale MHOA - 01	11/8/2021	ZINC		UG/L
Sharondale MHOA - 01	1/24/2025	ZINC		UG/L
Sharondale MHOA - 02	11/21/2022	1,2-DIBROMO-3-CHLOROPROPANE		UG/L
Sharondale MHOA - 02	5/2/2025	1,2-DIBROMO-3-CHLOROPROPANE		UG/L
Sharondale MHOA - 02	11/8/2021	ALKALINITY, BICARBONATE	200	MG/L
Sharondale MHOA - 02	1/24/2025	ALKALINITY, BICARBONATE	220	MG/L

GAMA Water Quality for the 2021-2025 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
Sharondale MHOA - 02	1/24/2025	ALKALINITY, CARBONATE		MG/L
Sharondale MHOA - 02	11/8/2021	ALKALINITY, TOTAL	200	MG/L
Sharondale MHOA - 02	1/24/2025	ALKALINITY, TOTAL	220	MG/L
Sharondale MHOA - 02	11/8/2021	ALUMINUM		UG/L
Sharondale MHOA - 02	1/24/2025	ALUMINUM		UG/L
Sharondale MHOA - 02	11/8/2021	ANTIMONY, TOTAL		UG/L
Sharondale MHOA - 02	1/24/2025	ANTIMONY, TOTAL		UG/L
Sharondale MHOA - 02	11/8/2021	ARSENIC		UG/L
Sharondale MHOA - 02	1/24/2025	ARSENIC		UG/L
Sharondale MHOA - 02	11/21/2022	ASBESTOS		MFL
Sharondale MHOA - 02	11/8/2021	BARIUM	44	UG/L
Sharondale MHOA - 02	1/24/2025	BARIUM	52	UG/L
Sharondale MHOA - 02	11/8/2021	BERYLLIUM, TOTAL		UG/L
Sharondale MHOA - 02	1/24/2025	BERYLLIUM, TOTAL		UG/L
Sharondale MHOA - 02	11/8/2021	CADMIUM		UG/L
Sharondale MHOA - 02	1/24/2025	CADMIUM		UG/L
Sharondale MHOA - 02	11/8/2021	CALCIUM	50	MG/L
Sharondale MHOA - 02	1/24/2025	CALCIUM	49	MG/L
Sharondale MHOA - 02	11/8/2021	CHLORIDE	40	MG/L
Sharondale MHOA - 02	1/24/2025	CHLORIDE	40	MG/L
Sharondale MHOA - 02	11/8/2021	CHROMIUM	9.5	UG/L
Sharondale MHOA - 02	1/24/2025	CHROMIUM	9.4	UG/L
Sharondale MHOA - 02	1/24/2025	CHROMIUM, HEX	8.4	UG/L
Sharondale MHOA - 02	5/2/2025	COMBINED URANIUM		PCI/L
Sharondale MHOA - 02	5/2/2025	COMBINED URANIUM		PCI/L
Sharondale MHOA - 02	11/8/2021	COPPER, FREE		UG/L
Sharondale MHOA - 02	1/24/2025	COPPER, FREE		UG/L
Sharondale MHOA - 02	12/19/2022	CYANIDE		UG/L
Sharondale MHOA - 02	1/24/2025	CYANIDE		UG/L
Sharondale MHOA - 02	11/8/2021	FLUORIDE	0.57	MG/L
Sharondale MHOA - 02	1/24/2025	FLUORIDE	0.52	MG/L
Sharondale MHOA - 02	11/8/2021	HARDNESS, TOTAL (AS CaCO3)	200	MG/L
Sharondale MHOA - 02	1/24/2025	HARDNESS, TOTAL (AS CaCO3)	200	MG/L
Sharondale MHOA - 02	11/8/2021	IRON		UG/L
Sharondale MHOA - 02	1/24/2025	IRON		UG/L
Sharondale MHOA - 02	11/8/2021	LEAD		UG/L
Sharondale MHOA - 02	1/24/2025	LEAD		UG/L
Sharondale MHOA - 02	11/8/2021	MAGNESIUM	19	MG/L
Sharondale MHOA - 02	1/24/2025	MAGNESIUM	19	MG/L
Sharondale MHOA - 02	11/8/2021	MANGANESE		UG/L
Sharondale MHOA - 02	1/24/2025	MANGANESE		UG/L
Sharondale MHOA - 02	11/8/2021	MERCURY		UG/L

GAMA Water Quality for the 2021-2025 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
Sharondale MHOA - 02	1/24/2025	MERCURY		UG/L
Sharondale MHOA - 02	12/20/2021	NICKEL		UG/L
Sharondale MHOA - 02	1/24/2025	NICKEL		UG/L
Sharondale MHOA - 02	1/12/2021	NITRATE	5.4	MG/L
Sharondale MHOA - 02	5/10/2021	NITRATE	5.6	MG/L
Sharondale MHOA - 02	8/2/2021	NITRATE	5.1	MG/L
Sharondale MHOA - 02	10/18/2021	NITRATE	5.6	MG/L
Sharondale MHOA - 02	11/8/2021	NITRATE	5.8	MG/L
Sharondale MHOA - 02	1/3/2022	NITRATE	5.9	MG/L
Sharondale MHOA - 02	10/24/2022	NITRATE	5.0	MG/L
Sharondale MHOA - 02	11/21/2022	NITRATE	5.5	MG/L
Sharondale MHOA - 02	1/9/2023	NITRATE	5.7	MG/L
Sharondale MHOA - 02	4/10/2023	NITRATE	5.8	MG/L
Sharondale MHOA - 02	7/3/2023	NITRATE	5.6	MG/L
Sharondale MHOA - 02	10/9/2023	NITRATE	5.9	MG/L
Sharondale MHOA - 02	1/11/2024	NITRATE	5.9	MG/L
Sharondale MHOA - 02	4/24/2024	NITRATE	5.6	MG/L
Sharondale MHOA - 02	5/28/2024	NITRATE	6.1	MG/L
Sharondale MHOA - 02	1/24/2025	NITRATE	5.9	MG/L
Sharondale MHOA - 02	3/26/2025	NITRATE	6.0	MG/L
Sharondale MHOA - 02	7/3/2025	NITRATE	6.2	MG/L
Sharondale MHOA - 02	10/27/2025	NITRATE	6.1	MG/L
Sharondale MHOA - 02	11/21/2022	NITRITE		MG/L
Sharondale MHOA - 02	1/24/2025	NITRITE		MG/L
Sharondale MHOA - 02	12/20/2021	PERCHLORATE		UG/L
Sharondale MHOA - 02	1/24/2025	PERCHLORATE	1.2	UG/L
Sharondale MHOA - 02	11/8/2021	PH	7.9	PH
Sharondale MHOA - 02	11/21/2022	PH	8.0	PH
Sharondale MHOA - 02	1/24/2025	PH	8.0	PH
Sharondale MHOA - 02	1/24/2025	POTASSIUM	2.1	MG/L
Sharondale MHOA - 02	12/20/2021	SELENIUM		UG/L
Sharondale MHOA - 02	1/24/2025	SELENIUM		UG/L
Sharondale MHOA - 02	11/8/2021	SILVER		UG/L
Sharondale MHOA - 02	1/24/2025	SILVER		UG/L
Sharondale MHOA - 02	11/8/2021	SODIUM	41	MG/L
Sharondale MHOA - 02	1/24/2025	SODIUM	42	MG/L
Sharondale MHOA - 02	11/8/2021	SULFATE	18	MG/L
Sharondale MHOA - 02	1/24/2025	SULFATE	18	MG/L
Sharondale MHOA - 02	11/8/2021	TDS	340	MG/L
Sharondale MHOA - 02	1/24/2025	TDS	350	MG/L
Sharondale MHOA - 02	11/21/2022	TETRACHLOROETHYLENE		UG/L
Sharondale MHOA - 02	5/14/2025	TETRACHLOROETHYLENE		UG/L

GAMA Water Quality for the 2021-2025 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
Sharondale MHOA - 02	12/20/2021	THALLIUM, TOTAL		UG/L
Sharondale MHOA - 02	1/24/2025	THALLIUM, TOTAL		UG/L
Sharondale MHOA - 02	11/21/2022	TRICHLOROETHYLENE		UG/L
Sharondale MHOA - 02	5/14/2025	TRICHLOROETHYLENE		UG/L
Sharondale MHOA - 02	11/8/2021	ZINC		UG/L
Sharondale MHOA - 02	1/24/2025	ZINC		UG/L
SMWC - 04	10/26/2021	1,2-DIBROMO-3-CHLOROPROPANE		UG/L
SMWC - 04	4/19/2022	ALKALINITY, BICARBONATE	98	MG/L
SMWC - 04	3/18/2025	ALKALINITY, BICARBONATE	110	MG/L
SMWC - 04	3/18/2025	ALKALINITY, CARBONATE	12	MG/L
SMWC - 04	4/19/2022	ALKALINITY, TOTAL	100	MG/L
SMWC - 04	3/18/2025	ALKALINITY, TOTAL	110	MG/L
SMWC - 04	4/19/2022	ALUMINUM		UG/L
SMWC - 04	3/18/2025	ALUMINUM		UG/L
SMWC - 04	4/19/2022	ANTIMONY, TOTAL		UG/L
SMWC - 04	3/18/2025	ANTIMONY, TOTAL		UG/L
SMWC - 04	4/19/2022	ARSENIC	4.4	UG/L
SMWC - 04	3/18/2025	ARSENIC	4.1	UG/L
SMWC - 04	4/19/2022	BARIUM		UG/L
SMWC - 04	3/18/2025	BARIUM		UG/L
SMWC - 04	4/19/2022	BERYLLIUM, TOTAL		UG/L
SMWC - 04	3/18/2025	BERYLLIUM, TOTAL		UG/L
SMWC - 04	4/19/2022	BORON, TOTAL		UG/L
SMWC - 04	3/18/2025	BORON, TOTAL		UG/L
SMWC - 04	4/19/2022	CADMIUM		UG/L
SMWC - 04	3/18/2025	CADMIUM		UG/L
SMWC - 04	4/19/2022	CALCIUM	5.3	MG/L
SMWC - 04	3/18/2025	CALCIUM	7.0	MG/L
SMWC - 04	4/19/2022	CHLORIDE	16	MG/L
SMWC - 04	3/18/2025	CHLORIDE	18	MG/L
SMWC - 04	4/19/2022	CHROMIUM		UG/L
SMWC - 04	3/18/2025	CHROMIUM		UG/L
SMWC - 04	4/19/2022	CHROMIUM, HEX	1.9	UG/L
SMWC - 04	3/18/2025	CHROMIUM, HEX	1.8	UG/L
SMWC - 04	8/13/2025	COMBINED URANIUM		PCI/L
SMWC - 04	4/19/2022	COPPER, FREE		UG/L
SMWC - 04	3/18/2025	COPPER, FREE		UG/L
SMWC - 04	4/19/2022	CYANIDE		UG/L
SMWC - 04	3/18/2025	CYANIDE		UG/L
SMWC - 04	4/19/2022	FLUORIDE	0.39	MG/L
SMWC - 04	3/18/2025	FLUORIDE	0.39	MG/L
SMWC - 04	4/19/2022	HARDNESS, TOTAL (AS CaCO3)	13	MG/L

GAMA Water Quality for the 2021-2025 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
SMWC - 04	3/18/2025	HARDNESS, TOTAL (AS CaCO3)	18	MG/L
SMWC - 04	4/19/2022	IRON		UG/L
SMWC - 04	3/18/2025	IRON		UG/L
SMWC - 04	4/19/2022	LEAD		UG/L
SMWC - 04	3/18/2025	LEAD		UG/L
SMWC - 04	4/19/2022	MAGNESIUM		MG/L
SMWC - 04	3/18/2025	MAGNESIUM		MG/L
SMWC - 04	4/19/2022	MANGANESE		UG/L
SMWC - 04	3/18/2025	MANGANESE		UG/L
SMWC - 04	4/19/2022	MERCURY		UG/L
SMWC - 04	3/18/2025	MERCURY		UG/L
SMWC - 04	4/19/2022	NICKEL		UG/L
SMWC - 04	3/18/2025	NICKEL		UG/L
SMWC - 04	6/14/2021	NITRATE	3.0	MG/L
SMWC - 04	4/19/2022	NITRATE	3.1	MG/L
SMWC - 04	6/6/2022	NITRATE	3.1	MG/L
SMWC - 04	6/9/2023	NITRATE	2.8	MG/L
SMWC - 04	6/10/2024	NITRATE	2.9	MG/L
SMWC - 04	3/18/2025	NITRATE	3.0	MG/L
SMWC - 04	4/19/2022	NITRATE-NITRITE	3.1	MG/L
SMWC - 04	3/18/2025	NITRATE-NITRITE	3.0	MG/L
SMWC - 04	4/19/2022	NITRITE		MG/L
SMWC - 04	3/18/2025	NITRITE		MG/L
SMWC - 04	4/19/2022	PERCHLORATE		UG/L
SMWC - 04	3/18/2025	PERCHLORATE		UG/L
SMWC - 04	4/19/2022	PH	8.8	PH
SMWC - 04	3/18/2025	PH	9.2	PH
SMWC - 04	4/19/2022	POTASSIUM		MG/L
SMWC - 04	3/18/2025	POTASSIUM		MG/L
SMWC - 04	4/19/2022	SELENIUM		UG/L
SMWC - 04	3/18/2025	SELENIUM		UG/L
SMWC - 04	4/19/2022	SILVER		UG/L
SMWC - 04	3/18/2025	SILVER		UG/L
SMWC - 04	4/19/2022	SODIUM	63	MG/L
SMWC - 04	3/18/2025	SODIUM	66	MG/L
SMWC - 04	4/19/2022	SULFATE	15	MG/L
SMWC - 04	3/18/2025	SULFATE	15	MG/L
SMWC - 04	4/19/2022	TDS	220	MG/L
SMWC - 04	3/18/2025	TDS	150	MG/L
SMWC - 04	5/26/2023	TETRACHLOROETHYLENE		UG/L
SMWC - 04	4/19/2022	THALLIUM, TOTAL		UG/L
SMWC - 04	3/18/2025	THALLIUM, TOTAL		UG/L

GAMA Water Quality for the 2021-2025 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
SMWC - 04	5/26/2023	TRICHLOROETHYLENE		UG/L
SMWC - 04	4/19/2022	VANADIUM, TOTAL	93	UG/L
SMWC - 04	3/18/2025	VANADIUM, TOTAL	81	UG/L
SMWC - 04	4/19/2022	ZINC		UG/L
SMWC - 04	3/18/2025	ZINC		UG/L
Tukwet - A	8/15/2023	ALKALINITY, BICARBONATE	100	MG/L
Tukwet - A	8/15/2023	ALKALINITY, CARBONATE	33	MG/L
Tukwet - A	8/15/2023	ALKALINITY, TOTAL	140	MG/L
Tukwet - A	8/15/2023	ALUMINIUM		UG/L
Tukwet - A	8/15/2023	ANTIMONY, TOTAL		UG/L
Tukwet - A	8/15/2023	ARSENIC	5.8	UG/L
Tukwet - A	8/15/2023	ARSENIC	6.4	UG/L
Tukwet - A	7/24/2024	ASBESTOS		MFL
Tukwet - A	8/15/2023	BARIUM		UG/L
Tukwet - A	8/15/2023	BERYLLIUM, TOTAL		UG/L
Tukwet - A	8/15/2023	CADMIUM		UG/L
Tukwet - A	8/15/2023	CALCIUM	8.1	MG/L
Tukwet - A	8/15/2023	CHLORIDE	17	MG/L
Tukwet - A	8/15/2023	CHROMIUM	13	UG/L
Tukwet - A	8/15/2023	COPPER, FREE		UG/L
Tukwet - A	8/15/2023	FLUORIDE	0.66	MG/L
Tukwet - A	8/15/2023	HARDNESS, TOTAL (AS CaCO3)	31	MG/L
Tukwet - A	8/15/2023	IRON		UG/L
Tukwet - A	8/15/2023	LEAD		UG/L
Tukwet - A	8/15/2023	MAGNESIUM	2.6	MG/L
Tukwet - A	8/15/2023	MANGANESE		UG/L
Tukwet - A	8/15/2023	MERCURY		UG/L
Tukwet - A	8/15/2023	NICKEL		UG/L
Tukwet - A	4/28/2021	NITRATE	1.7	MG/L
Tukwet - A	11/10/2021	NITRATE	1.8	MG/L
Tukwet - A	3/16/2022	NITRATE	1.6	MG/L
Tukwet - A	10/26/2022	NITRATE	1.6	MG/L
Tukwet - A	4/5/2023	NITRATE	1.6	MG/L
Tukwet - A	8/15/2023	NITRATE	1.5	MG/L
Tukwet - A	10/18/2023	NITRATE	1.5	MG/L
Tukwet - A	4/4/2024	NITRATE	1.6	MG/L
Tukwet - A	8/15/2023	NITRITE		MG/L
Tukwet - A	8/15/2023	PERCHLORATE	2.1	UG/L
Tukwet - A	8/15/2023	PH	8.7	PH
Tukwet - A	8/15/2023	POTASSIUM	1.0	MG/L
Tukwet - A	8/15/2023	SELENIUM		UG/L
Tukwet - A	8/15/2023	SILVER		UG/L

GAMA Water Quality for the 2021-2025 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
Tukwet - A	8/15/2023	SODIUM	59	MG/L
Tukwet - A	8/15/2023	SULFATE	5.6	MG/L
Tukwet - A	4/28/2021	TDS	180	MG/L
Tukwet - A	11/10/2021	TDS	230	MG/L
Tukwet - A	3/16/2022	TDS	160	MG/L
Tukwet - A	10/26/2022	TDS	180	MG/L
Tukwet - A	8/15/2023	TDS	160	MG/L
Tukwet - A	8/15/2023	TDS	160	MG/L
Tukwet - A	10/18/2023	TDS	200	MG/L
Tukwet - A	4/4/2024	TDS	190	MG/L
Tukwet - A	8/15/2023	TETRACHLOROETHYLENE		UG/L
Tukwet - A	8/15/2023	THALLIUM, TOTAL		UG/L
Tukwet - A	8/15/2023	TRICHLOROETHYLENE		UG/L
Tukwet - A	8/15/2023	ZINC		UG/L
Tukwet - D	8/15/2023	ALKALINITY, BICARBONATE	170	MG/L
Tukwet - D	8/15/2023	ALKALINITY, CARBONATE		MG/L
Tukwet - D	8/15/2023	ALKALINITY, TOTAL	170	MG/L
Tukwet - D	8/15/2023	ALUMINUM		UG/L
Tukwet - D	8/15/2023	ANTIMONY, TOTAL		UG/L
Tukwet - D	8/15/2023	ARSENIC		UG/L
Tukwet - D	8/15/2023	ARSENIC		UG/L
Tukwet - D	7/24/2024	ASBESTOS		MFL
Tukwet - D	8/15/2023	BARIUM		UG/L
Tukwet - D	8/15/2023	BERYLLIUM, TOTAL		UG/L
Tukwet - D	8/15/2023	CADMIUM		UG/L
Tukwet - D	8/15/2023	CALCIUM	29	MG/L
Tukwet - D	8/15/2023	CHLORIDE	11	MG/L
Tukwet - D	8/15/2023	CHROMIUM	11	UG/L
Tukwet - D	8/15/2023	COPPER, FREE		UG/L
Tukwet - D	8/15/2023	FLUORIDE	0.50	MG/L
Tukwet - D	8/15/2023	HARDNESS, TOTAL (AS CaCO3)	130	MG/L
Tukwet - D	8/15/2023	IRON		UG/L
Tukwet - D	8/15/2023	LEAD		UG/L
Tukwet - D	8/15/2023	MAGNESIUM	14	MG/L
Tukwet - D	8/15/2023	MANGANESE		UG/L
Tukwet - D	8/15/2023	MERCURY		UG/L
Tukwet - D	8/15/2023	NICKEL		UG/L
Tukwet - D	4/28/2021	NITRATE	2.4	MG/L
Tukwet - D	11/10/2021	NITRATE	2.6	MG/L
Tukwet - D	3/16/2022	NITRATE	2.4	MG/L
Tukwet - D	10/26/2022	NITRATE	2.5	MG/L
Tukwet - D	4/5/2023	NITRATE	1.6	MG/L

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Well	Sample Date	Analyte Name	Result	Units
Tukwet - D	8/15/2023	NITRATE	2.3	MG/L
Tukwet - D	10/18/2023	NITRATE	2.1	MG/L
Tukwet - D	4/4/2024	NITRATE	1.7	MG/L
Tukwet - D	10/16/2024	NITRATE	2.4	MG/L
Tukwet - D	8/15/2023	NITRITE		MG/L
Tukwet - D	8/15/2023	PERCHLORATE		UG/L
Tukwet - D	8/15/2023	PH	7.8	PH
Tukwet - D	8/15/2023	POTASSIUM	1.5	MG/L
Tukwet - D	8/15/2023	SELENIUM		UG/L
Tukwet - D	8/15/2023	SILVER		UG/L
Tukwet - D	8/15/2023	SODIUM	25	MG/L
Tukwet - D	8/15/2023	SULFATE	9.4	MG/L
Tukwet - D	4/28/2021	TDS	210	MG/L
Tukwet - D	11/10/2021	TDS	250	MG/L
Tukwet - D	3/16/2022	TDS	170	MG/L
Tukwet - D	10/26/2022	TDS	220	MG/L
Tukwet - D	4/5/2023	TDS	160	MG/L
Tukwet - D	8/15/2023	TDS	200	MG/L
Tukwet - D	10/18/2023	TDS	220	MG/L
Tukwet - D	4/4/2024	TDS	180	MG/L
Tukwet - D	10/16/2024	TDS	200	MG/L
Tukwet - D	8/15/2023	TETRACHLOROETHYLENE		UG/L
Tukwet - D	8/15/2023	THALLIUM, TOTAL		UG/L
Tukwet - D	8/15/2023	TRICHLOROETHYLENE		UG/L
Tukwet - D	8/15/2023	ZINC		UG/L
YVWD - 48	8/18/2022	1,2-DIBROMO-3-CHLOROPROPANE		UG/L
YVWD - 48	11/9/2022	1,2-DIBROMO-3-CHLOROPROPANE		UG/L
YVWD - 48	11/18/2025	1,2-DIBROMO-3-CHLOROPROPANE		UG/L
YVWD - 48	2/19/2025	CHROMIUM, HEX	7.3	UG/L
YVWD - 48	2/18/2021	NITRATE	3.1	MG/L
YVWD - 48	8/18/2022	NITRATE	2.1	MG/L
YVWD - 48	8/8/2023	NITRATE	1.6	MG/L
YVWD - 48	8/15/2023	NITRATE	2.2	MG/L
YVWD - 48	9/19/2023	NITRATE	2.2	MG/L
YVWD - 48	10/3/2023	NITRATE	2.2	MG/L
YVWD - 48	11/14/2023	NITRATE	2.2	MG/L
YVWD - 48	12/19/2023	NITRATE	2.9	MG/L
YVWD - 48	1/17/2024	NITRATE	2.2	MG/L
YVWD - 48	1/17/2024	NITRATE	2.2	MG/L
YVWD - 48	2/21/2024	NITRATE	1.9	MG/L
YVWD - 48	3/20/2024	NITRATE	2.3	MG/L
YVWD - 48	4/15/2024	NITRATE	2.8	MG/L

GAMA Water Quality for the 2021-2025 Period for Domestic Wells in the Beaumont Basin

Well	Sample Date	Analyte Name	Result	Units
YVWD - 48	5/21/2024	NITRATE	2.5	MG/L
YVWD - 48	6/19/2024	NITRATE	2.3	MG/L
YVWD - 48	7/17/2024	NITRATE	2.6	MG/L
YVWD - 48	8/27/2024	NITRATE	2.8	MG/L
YVWD - 48	9/25/2024	NITRATE	2.2	MG/L
YVWD - 48	10/16/2024	NITRATE	2.2	MG/L
YVWD - 48	11/6/2024	NITRATE	2.2	MG/L
YVWD - 48	11/6/2024	NITRATE	2.3	MG/L
YVWD - 48	12/17/2024	NITRATE	2.1	MG/L
YVWD - 48	1/22/2025	NITRATE	2.4	MG/L
YVWD - 48	2/19/2025	NITRATE	1.8	MG/L
YVWD - 48	3/19/2025	NITRATE	2.3	MG/L
YVWD - 48	4/16/2025	NITRATE	2.2	MG/L
YVWD - 48	5/21/2025	NITRATE	2.0	MG/L
YVWD - 48	6/17/2025	NITRATE	2.0	MG/L
YVWD - 48	7/15/2025	NITRATE	2.2	MG/L
YVWD - 48	8/19/2025	NITRATE	2.6	MG/L
YVWD - 48	9/17/2025	NITRATE	2.2	MG/L
YVWD - 48	10/21/2025	NITRATE	2.1	MG/L
YVWD - 48	11/18/2025	NITRATE	2.4	MG/L
YVWD - 48	8/17/2022	TETRACHLOROETHYLENE		UG/L
YVWD - 48	8/19/2025	TETRACHLOROETHYLENE		UG/L
YVWD - 48	8/17/2022	TRICHLOROETHYLENE		UG/L
YVWD - 48	8/19/2025	TRICHLOROETHYLENE		UG/L

ALDA Inc.

In Association with

Thomas Harder & Co.
Groundwater Consulting

