Notice and Agenda

Regular Meeting of the Beaumont Basin Watermaster

Wednesday, April 2, 2025 at 11:00 a.m.

Meeting Location:
Beaumont-Cherry Valley Water District
560 Magnolia Avenue • Beaumont, California 92223

This meeting is hereby noticed pursuant to California Government Code Section 54950 et. seq.

Members of the Watermaster Committee:

City of Banning
City of Beaumont
Beaumont-Cherry Valley Water District
South Mesa Water Company
Yucaipa Valley Water District

Remote attendance options are provided primarily as a matter of convenience to the public. Unless a Watermaster Committee member is attending remotely pursuant to provisions of GC 54953 et. seq., the public, in-person meeting will not stop or be otherwise suspended should a technological interruption occur with respect to the Zoom teleconference or call-in line listed on the agenda. Members of the public are encouraged to attend BBWM meetings in person at the above address, or remotely using the options listed.

Online Meeting Participation Link:
https://us02web.zoom.us/j/81638720446?pwd=UnNZcC9TbGZzTGFuMHdhVkRMblczQT09

Telephone: (669) 900-9128 / Meeting ID: 816-3872-0446 / Passcode: 636756
One-Tap Mobile: +16699009128,,81638720446#,,,,*636756#

*For Public Comment, use the **"Raise Hand"** feature if on the video call when prompted, if dialing in, please **dial *9 to "Raise Hand"** when prompted*

Meeting materials are available on the Watermaster website:
https://beaumontbasinwatermaster.org/

I. Call to Order

II. Roll Call

Committee Member Agency	Primary Representative		Alternate	
City of Banning	Arturo Vela, Chair		Nathan Smith	
City of Beaumont	Robert Vestal		Dustin Christensen	
Beaumont-Cherry Valley Water District	Daniel Jaggers		Mark Swanson	
South Mesa Water Company	Dave Armstrong		Brittany Lim	
Yucaipa Valley Water District	Joseph Zoba		Jennifer Ares	

III. Pledge of Allegiance

IV. Public Comments At this time, members of the public may address the Beaumont Basin Watermaster on matters within its jurisdiction; however, no action or discussion may take place on any item not on the agenda. To provide comments on specific agenda items, please complete a Request to Speak form and provide that form to the Secretary prior to the commencement of the meeting, or, RAISE HAND electronically or Press *9 when prompted for public comment.

ACTION ITEMS

Action may be taken on any item on the agenda.

V. Consent Calendar

A. Meeting Minutes

i. February 5, 2025 Regular Meeting [Page 6]

ii. March 5, 2025 Special Meeting [Page 12]

B. Status Report on Water Level Monitoring throughout the Beaumont Basin through March 18, 2025 [Page 17]

C. Comparison of Production Rights versus Production through February 2025 [Page 28]

VI. Reports

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

B. Report from Hydrogeological Consultant - Thomas Harder, Thomas Harder & Co.

C. Report from Legal Counsel - Thierry Montoya/Keith McCullough, Frost, Brown, Todd

D. Financial Status Report – Period Ending February 28, 2025 [Memorandum No. 25-10, Page 30]

VII. Discussion Items

A. Update on the Analysis of Losses in the Beaumont Basin - Thomas Harder & Co. [Memorandum No. 25-11, Page 35]

Recommendation: None. For information and discussion

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, Page 45]

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

C. Independent Accountant's Financial Report of Agreed-Upon Procedures for the Beaumont Basin Watermaster [Memorandum No. 25-13, Page 51]

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

D. Consideration of the Watermaster Budget for Fiscal Year 2025-26 [Memorandum No. 25-14, Page 60]

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

E. Presentation of Draft 2024 Consolidated Annual Report and Engineering Report [Memorandum No. 25-15, Page 61]

Recommendation: None. Presentation only; no action required

The draft annual report can be downloaded here: https://beaumontbasinwatermaster.org/home-2/documents-and-publications/

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

X. Announcements

2025 Meeting Dates:

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

NOTICES

AVAILABILITY OF AGENDA MATERIALS - Agenda exhibits and other writings that are disclosable public records distributed to all or a majority of the members of the Beaumont Basin Watermaster Committee in connection with a matter subject to discussion or consideration at an open meeting of the Committee are available for public inspection in the Office of the Watermaster Secretary, at 560 Magnolia Avenue, Beaumont, California ("Office") during business hours, Monday through Thursday from 7:30 a.m. to 5 p.m. If such writings are distributed to members of the Committee less than 72 hours prior to the meeting, they will be available from the Office at the same time or within 24 hours' time as they are distributed to Board Members, except that if such writings are distributed one hour prior to, or during the meeting, they can be made available in the Board Room at the District Office. Materials may also be available on the Watermaster website: https://beaumontbasinwatermaster.org/.

REVISIONS TO THE AGENDA - In accordance with §54954.2(a) of the Government Code (Brown Act), revisions to this Agenda may be made up to 72 hours before the Board Meeting, if necessary, after mailings are completed. Interested persons wishing to receive a copy of the set Agenda may pick one up at the Office, located at 560 Magnolia Avenue, Beaumont, California, or download from the website up to 72 hours prior to the Meeting.

REQUIREMENTS RE: DISABLED ACCESS - In accordance with §54954.2(a), requests for a disability related modification or accommodation, including auxiliary aids or services, in order to attend or participate in a meeting, should be made to the Office, at least 48 hours in advance of the meeting to ensure availability of the requested service or accommodation. The Office may be contacted by telephone at (951) 845-9581, email at info@bcvwd.gov or in writing to the Beaumont Basin Watermaster Committee, c/o Beaumont-Cherry Valley Water District, 560 Magnolia Avenue, Beaumont, California 92223.

CERTIFICATION OF POSTING: A copy of the foregoing notice was posted near the regular meeting place of the Beaumont Basin Watermaster Committee and to its website at least 72 hours in advance of the meeting (Government Code §54954.2(a)).

Consent Calendar

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

City of Banning	*Art Vela*	*Present*
City of Beaumont	*Robert Vestal*	*Present*
Beaumont-Cherry Valley Water District	*Dan Jaggers*	*Present*
South Mesa Water Company	*David Armstrong*	*Present*
Yucaipa Valley Water District	*Joseph Zoba*	*Present*

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 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.
Matt Howard, San Gorgonio Pass Water Agency
Lance Eckhart, San Gorgonio Pass Water Agency
Sarah Wargo, San Gorgonio Pass Water Agency
Larry Smith, San Gorgonio Pass Water Agency
Kevin Walton, San Gorgonio 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 Jaggers and seconded by Member Zoba to approve Consent Calendar items A, B and C.

AYES:	Armstrong, Jaggers, 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.

DRAFT

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 Jaggers	Beaumont-Cherry Valley Water District
Treasurer	Joseph Zoba	Yucaipa Valley Water District

AYES:	Armstrong, Jaggers, 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 Jaggers 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, Jaggers 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. Jaggers 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 Jaggers 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, Jaggers, 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:

DRAFT UNTIL APPROVED

_____

Daniel Jaggers, Secretary
Beaumont Basin Watermaster

DRAFT

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

City of Banning	*Art Vela*	*Present*
City of Beaumont	*Robert Vestal*	*Present*
Beaumont-Cherry Valley Water District	*Dan Jaggers*	*Present*
South Mesa Water Company	*David Armstrong*	*Present*
Yucaipa Valley Water District	*Joseph Zoba*	*Present*

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 Jaggers 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. Jaggers 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 Jaggers to approve the October 2023 to September 2024 estimate of the change in groundwater storage.

AYES:	Armstrong, Jaggers, 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 Gorgonio 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. Jaggers 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 Jaggers 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 Jaggers pointed to the assessment of the unused overlier reallocation and need for balance. If not balanced, over time, the overliers are allocated more water, Jaggers 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 Jaggers 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 Jaggers 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:

DRAFT UNTIL APPROVED

_____

Daniel Jaggers, Secretary
Beaumont Basin Watermaster

DRAFT

BEAUMONT BASIN WATERMASTER

Date: April 2nd, 2025

From: Hannibal Blandon, ALDA Inc.

Subject: Status Report on Water Level Monitoring throughout the Beaumont Basin through March 18, 2025

Recommendation: No recommendation.

At the present time, there are 15 monitoring wells equipped with pressure transducers collecting water level information on an hourly basis at various locations throughout the basin. In addition, two of these monitoring wells are equipped with additional probes to collect barometric pressures at opposite ends of the Basin. The location of active monitoring wells is depicted in Figure No. 1 attached. The location of three potential monitoring wells currently being considered are identified in red in this figure. Ground elevations at all sites were obtained from Google Earth, which has varied over time at selected sites and could continue to vary in the future. The Watermaster Committee is in the process of surveying all production and monitoring wells using a common datum.

Water levels at selected locations are depicted in Figures 2 through 7 and are described as follows:

- ✓ Figure No. 2 – Water levels at YVWD Well No. 34 and Oak Valley Well No. 5 are considered representative of basin conditions in the Northwest portion of the basin. From the summer of 2015 through the spring of 2019, water levels at these two wells were fairly steady; however, over the last six years a significant decline has been observed. A 21-foot decline has been recorded at YVWD 34 over this period to its current elevation of 2,121 ft. The decline at Oak Valley 5 has been steeper with a drop 24 feet in the first half of 2020 despite the fact that this well was pumped last in the fall of 2019. Oak Valley 5 is no longer being monitored, as of the Summer of 2020, as it has been destroyed. It is being included here for reference purposes at this time since there is no other well in the immediate area that could be used to monitor levels in the area.

- ✓ Figure No. 3 – Two of the Noble Creek observation wells are presented in this figure representing the shallow and deep aquifers. From the summer of 2016 through the spring of 2018, the water level in the shallow aquifer monitoring well increased over 80 feet to an elevation of 2,422 ft. Water level continued to increase, although at a lower rate, over the ensuing 18 months reaching a peak elevation of 2,431 ft in the fall of 2019. Since, it declined 100 feet to an elevation of 2,331 ft. in the spring of 2023. Over the last 24 months, a significant recovery has taken place to its current elevation of 2,436 ft., the highest level recorded since monitoring began. In the deeper aquifer, the increase in water level was steady from the summer of 2016 through the spring of 2020 reaching a peak elevation of

2,302 ft.; over the next three years, water level declined 57 feet to a low elevation of 2,245 ft, recorded on August 15, 2023. On that date, this well was vandalized resulting in the disruption of the communications cable and the temporary collection of accurate water level information. With the November 2023 visit, the data was cleaned and it is now included in the figure. A new communications cable was installed on December 6th 2023. Since August 2023, water level at this well has increased by 53 ft. to elevation 2,298 ft.

- ✓ Figure No. 4 – Southern Portion of the Basin. The water level at the Summit Cemetery well is highly influenced by a nearby pumping well that is used to irrigate the cemetery grounds. Since monitoring began, the water level has fluctuated over a 20-foot range. Water level information between January and October 2022 was not collected due to equipment malfunction and vandalism. New water level monitoring equipment was installed at the beginning of October 2022 and the site was secured to minimize further vandalism. The newly installed optical communications cable worked for a few months, but failed to transmit and was replaced on January 10, 2024 with a similar cable and has been working fine since. Beginning in the spring of 2024, water level at this well declined 10 ft. into the summer; however, it is currently recovering to the upper portion of its operating range to an elevation of 2,514 ft.

- ✓ Also depicted in Figure No. 4 is the water level at the Sun Lakes well site. It fluctuated minimally between 2015 and the end of 2021, when it began to decline. Between November 2021 and May 2022, the water level dropped by eight feet to 2,405 ft. However, it has recovered to 2,419 ft in the last two years. Water level information could not be collected between May and early October 2022 due to equipment malfunction. Several optical communication cables have been replaced in the last two years due to manufacturer's defect. The latest cable was installed in January 2024 and has been working properly since.

- ✓ Figure No. 5 illustrates water levels at three wells owned by the City of Banning in the Southeast portion of the basin. While water level at the Old Well No. 15 (Chevron Well) has been fairly flat over the last six years at an elevation of 2,197 ft.: a somewhat significant and steady decline, close to 40 feet, has been recorded at Banning M-8 between the summer of 2015 and the fall of 2024. During our last two visits we have not been able to retrieve water level data as the communications cable is not working properly and it is currently stuck in the well. We have made several unsuccessful attempts to remove this cable. We will continue monitoring this well by taking a monthly reading from it.

- ✓ Also depicted in Figure 5 is the water level at Banning M-9. It has fluctuated in a 19-foot range, between 2,128 ft and 2,147 ft. Current water level elevation is at 2,145 ft. While the water level probe has been collecting data hourly at this well, over the last two years, three communications cables have been replaced due to the failure of the water seal at the bottom of the cable. The latest replacement cable was installed during our January 2024 visit and continued to work through our latest visit, a good sign.

- ✓ Figure No. 6 illustrates recorded water level at BCVWD No. 2 and BCVWD No. 25. Water level at these two wells follow the same seasonal pattern rising in the fall through the spring months and falling during the summer as production increases. The water level at BCVWD No. 25 has been fluctuating over a 25 ft range between 2,191 ft and 2,215 ft in elevation; however, in the summer of 2023 it declined more than normal to a low elevation of 2,192 ft; since, water level is recovering to the March 2024 elevation of 2,203 ft. Over the last three years, summer lows have been lower each year, 2,199 ft in the summer of 2021, 2,194 ft in 2022, and 2,193 in 2023. In the Summer of 2024, water level elevation at this well was recorded at 2,196 ft., slightly higher than previous years. Data for the last ten months could not be retrieved from the probe; however, during our most recent visit we were able to pull the probe and retrieved the data saved. Unfortunately, the data seems to be inconsistent, and it is not being used at this time. We plan to put a newly refurbished probe at this well after the April 2 Watermaster meeting. At BCVWD No. 2, water levels since 2017 have ranged between 2,188 ft and 2,216 ft with a current elevation of 2,205 ft. in the middle portion of its operating range. Similar to BCVWD No. 25, lower summer lows have been recorded in recent years. A new communications cable was installed at this well on December 6, 2023; however, no data was recorded through March 2024 due to malfunctioning of the recording probe. A different probe was installed at that time and has been working fine since. Current water level elevation at this well is 2,211 ft in the upper range of recorded levels.

- ✓ Figure No. 7 depicts the recorded water level at the two newest observation wells, BCVWD No. 29 and Tukwet Canyon Well “B”. BCVWD No. 29 is a pumping well on the western portion of the basin. This well was extensively used prior to 2022; however, minimum pumping has been recorded since the winter of 2021. A decline in water level of nine feet has been recorded between the spring of 2019 and the spring of 2021. During the May 2021 visit, the communications cable could not be pulled and information from the water level probe could not be downloaded. During our January 2022 visit, the water level meter got lodged between the pump column and the well casing and could not be removed; it has been there since. There is a chance that the water level meter probe may not recover until the column is pulled from the well and the equipment recovered.

- ✓ Tukwet B is a dedicated monitoring well in the southern portion of the basin with minimal fluctuations in elevation since the probe was installed in the spring of 2019. The March 2024 water level was recorded at 2,218 ft representing the highest recorded level since monitoring began. No water level information was available between March and September 2024 due to malfunctioning of the recording probe. Current level is at 2,217 ft.

Monitoring Wells Additions

None during this period

Equipment Installation and Replacement

No replacements took place during the reporting period.

Troubleshooting Issues

The probe at BCVWD No. 25 was finally retrieved and the data downloaded. Unfortunately, the data is not consistent with previous readings; this may be related to low voltage in the probe battery. After the April 2, 2025 Watermaster meeting a new probe will be installed to collect water level information. The data collected from the previous probe may be considered after a collection period with the new probe.

At Banning M-8 the probe is stuck inside the well and the communications cable is not working. We made several attempts to dislodge the probe, but were unsuccessful. We will continue to include this well in the monitoring program by collecting monthly static readings.

Water level information was manually retrieved at the following wells due to malfunctioning of the communication cables:

- ✓ Mountain View
- ✓ Noble Creek Spreading Grounds – Shallow aquifer well

Potential Monitoring Sites

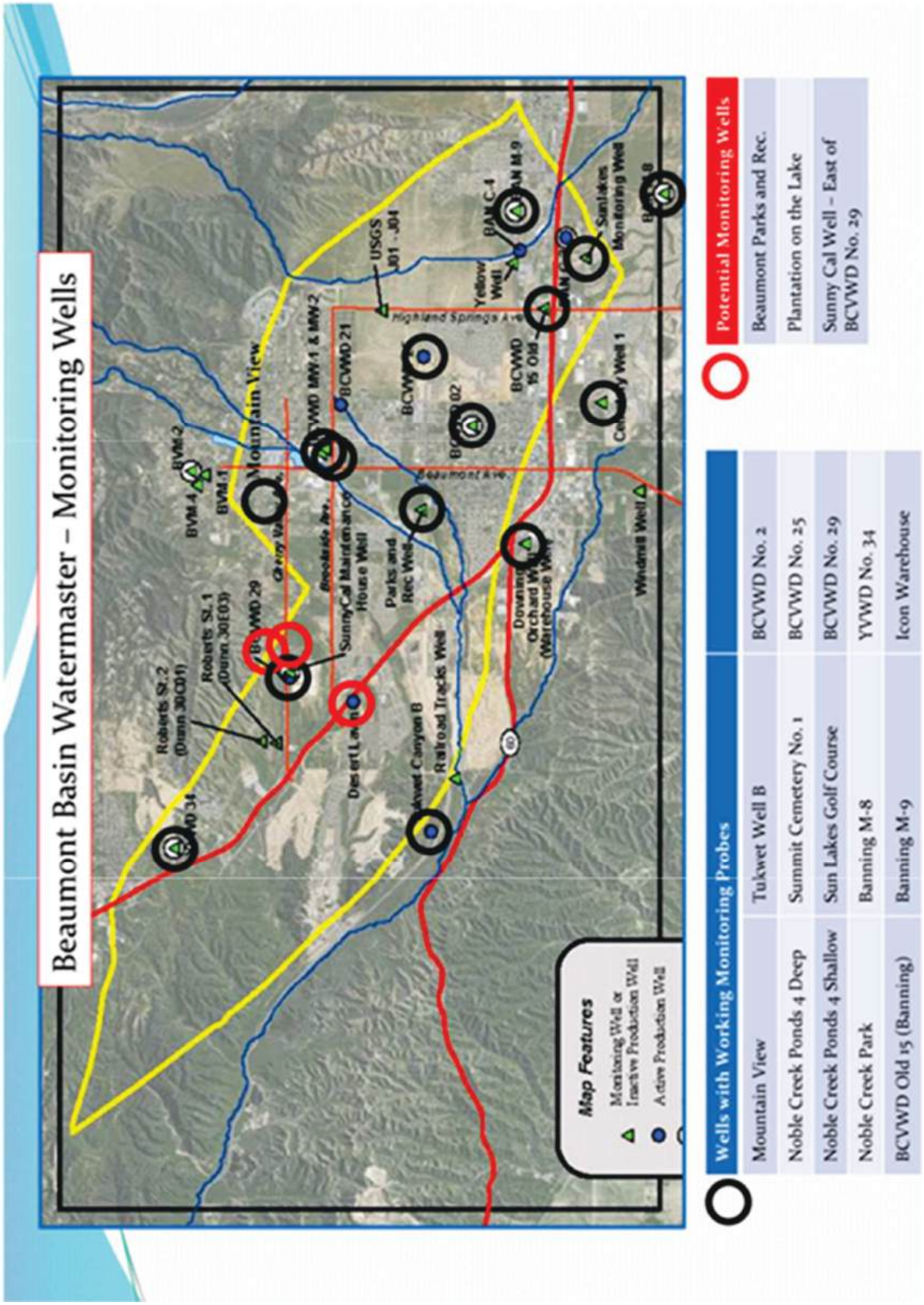
Two production wells have been identified as potential monitoring wells recently. The owners have been contacted and the sites visited. The first well is owned by the Beaumont-Cherry Valley

Recreation and Park District. The well is located on the north side of Cherry Valley Blvd and has been recently used to supply water during grading for construction of two warehouses nearby.

Upon construction of these facilities, this well will be available to irrigate nearby lands; a monitoring probe could be installed with minor modifications at the well head.

The second well is owned by Plantation on the Lake. The site has been visited and owner is considering drilling a hole on the well head to accommodate the monitoring probe. No progress has been made by owner.

In addition to the two production wells, a new monitoring groundwater well, located approximately 400 ft east of BCVWD No. 29 is currently being considered. Water level at this well is 400 ft below surface and the well has a measured depth of 465 ft


Beaumont Basin Watermaster – Monitoring Wells
Map Features
Monitoring Well or Inactive Production Well
Active Production Well
Potential Monitoring Wells
Beaumont Parks and Rec.
Plantation on the Lake
Sunny Cal Well – East of BCVWD No. 29
Wells with Working Monitoring Probes
Mountain View
Tukwet Well B
BCVWD No. 2
Noble Creek Ponds 4 Deep
Summit Cemetery No. 1
BCVWD No. 25
Noble Creek Ponds 4 Shallow
Sun Lakes Golf Course
BCVWD No. 29
Noble Creek Park
Banning M-8
YVWD No. 34
BCVWD Old 15 (Banning)
Banning M-9
Icon Warehouse
Roberts St. 2 (Dunn 30C01)
Roberts St. 1 (Dunn 30E03)
SunnyCal Maintenance House Well
Parks and Rec Well
Tukwet Canyon B
Railroad Tracks Well
Windmill Well
Yellow Well
Highland Springs Ave
Beaumont Ave.
USGS 101 . 104
SunLakes Monitoring Well
BCVWD 21
BCVWD 15 Old

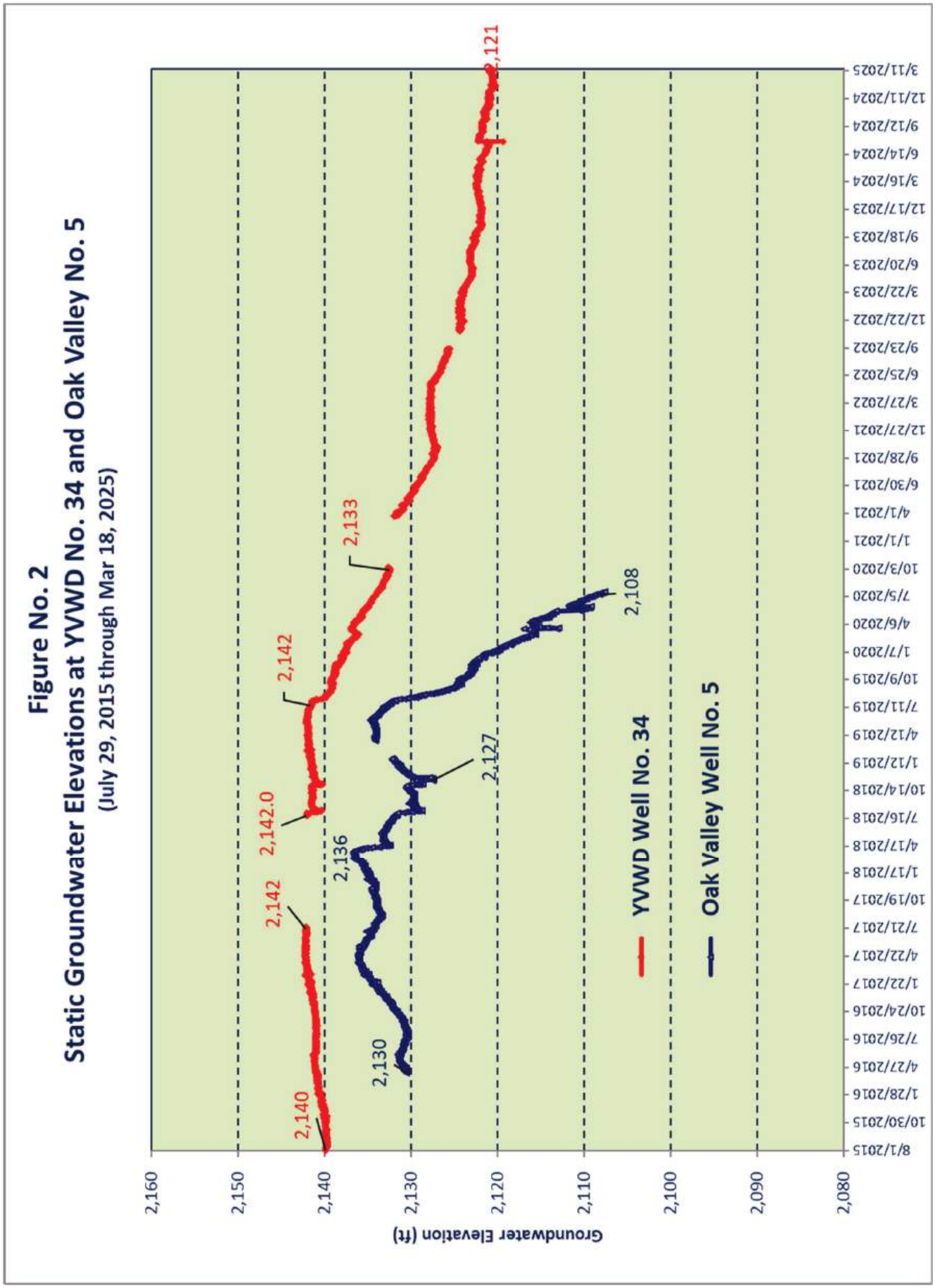


Figure No. 2
Static Groundwater Elevations at YVWD No. 34 and Oak Valley No. 5
(July 29, 2015 through Mar 18, 2025)
Groundwater Elevation (ft)
2,160
2,150
2,140
2,130
2,120
2,110
2,100
2,090
2,080
YVWD Well No. 34
Oak Valley Well No. 5
2,121
2,133
2,142
2,142.0
2,142
2,140
2,136
2,130
2,127
2,108
8/1/2015
10/30/2015
1/28/2016
4/27/2016
7/26/2016
10/24/2016
1/22/2017
4/22/2017
7/21/2017
10/19/2017
1/17/2018
4/17/2018
7/16/2018
10/14/2018
1/12/2019
4/12/2019
7/11/2019
10/9/2019
1/7/2020
4/6/2020
7/5/2020
10/3/2020
1/1/2021
4/1/2021
6/30/2021
9/28/2021
12/27/2021
3/27/2022
6/25/2022
9/23/2022
12/22/2022
3/22/2023
6/20/2023
9/18/2023
12/17/2023
3/16/2024
6/14/2024
9/12/2024
12/11/2024
3/11/2025

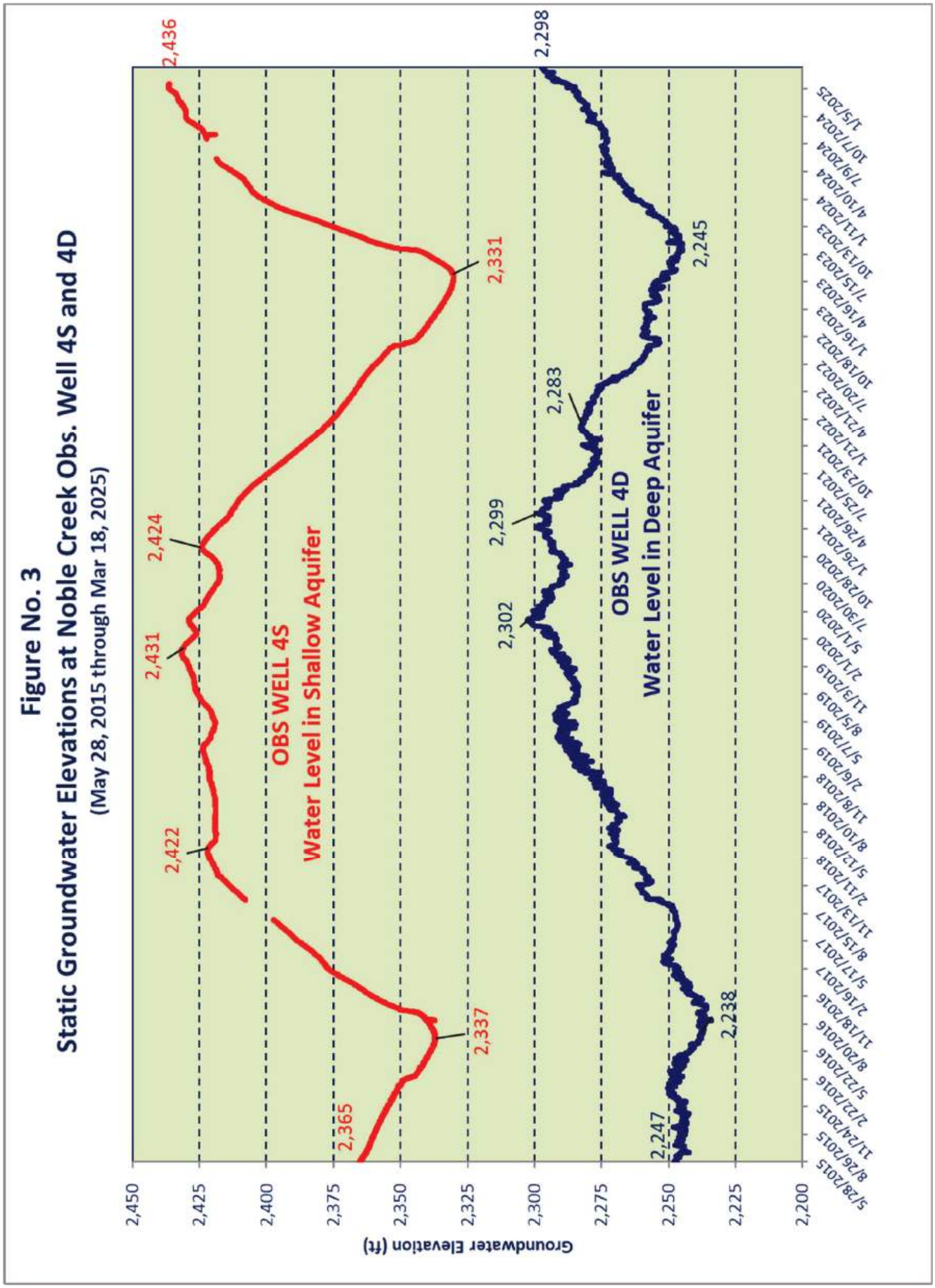


Figure No. 3
Static Groundwater Elevations at Noble Creek Obs. Well 4S and 4D
(May 28, 2015 through Mar 18, 2025)
OBS WELL 4S
Water Level in Shallow Aquifer
OBS WELL 4D
Water Level in Deep Aquifer
2,436
2,424
2,431
2,422
2,365
2,337
2,331
2,298
2,299
2,302
2,283
2,245
2,247
2,238
Groundwater Elevation (ft)
2,450
2,425
2,400
2,375
2,350
2,325
2,300
2,275
2,250
2,225
2,200
5/28/2015
8/26/2015
11/24/2015
2/22/2016
5/22/2016
8/20/2016
11/18/2016
2/16/2017
5/17/2017
8/15/2017
11/13/2017
2/11/2018
5/12/2018
8/10/2018
11/8/2018
2/6/2019
5/7/2019
8/5/2019
11/3/2019
2/1/2020
5/1/2020
7/30/2020
10/28/2020
1/26/2021
4/26/2021
7/25/2021
10/23/2021
1/21/2022
4/21/2022
7/20/2022
10/18/2022
1/16/2023
4/16/2023
7/15/2023
10/13/2023
1/11/2024
4/10/2024
7/9/2024
10/7/2024
1/5/2025

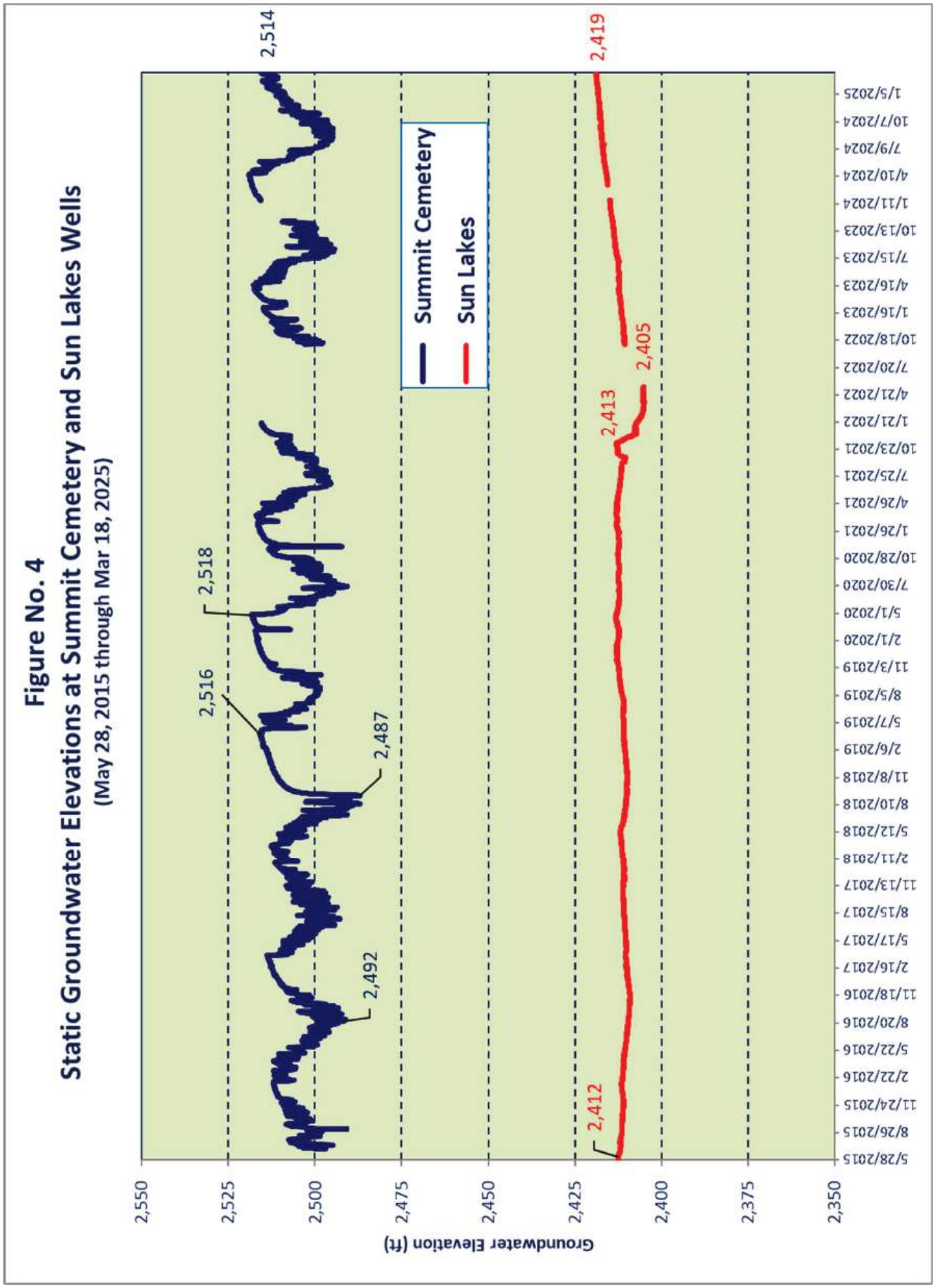


Figure No. 4
Static Groundwater Elevations at Summit Cemetery and Sun Lakes Wells
(May 28, 2015 through Mar 18, 2025)
Summit Cemetery
Sun Lakes
2,514
2,518
2,516
2,487
2,492
2,419
2,405
2,413
2,412
Groundwater Elevation (ft)
2,550
2,525
2,500
2,475
2,450
2,425
2,400
2,375
2,350
5/28/2015
8/26/2015
11/24/2015
2/22/2016
5/22/2016
8/20/2016
11/18/2016
2/16/2017
5/17/2017
8/15/2017
11/13/2017
2/11/2018
5/12/2018
8/10/2018
11/8/2018
2/6/2019
5/7/2019
8/5/2019
11/3/2019
2/1/2020
5/1/2020
7/30/2020
10/28/2020
1/26/2021
4/26/2021
7/25/2021
10/23/2021
1/21/2022
4/21/2022
7/20/2022
10/18/2022
1/16/2023
4/16/2023
7/15/2023
10/13/2023
1/11/2024
4/10/2024
7/9/2024
10/7/2024
1/5/2025

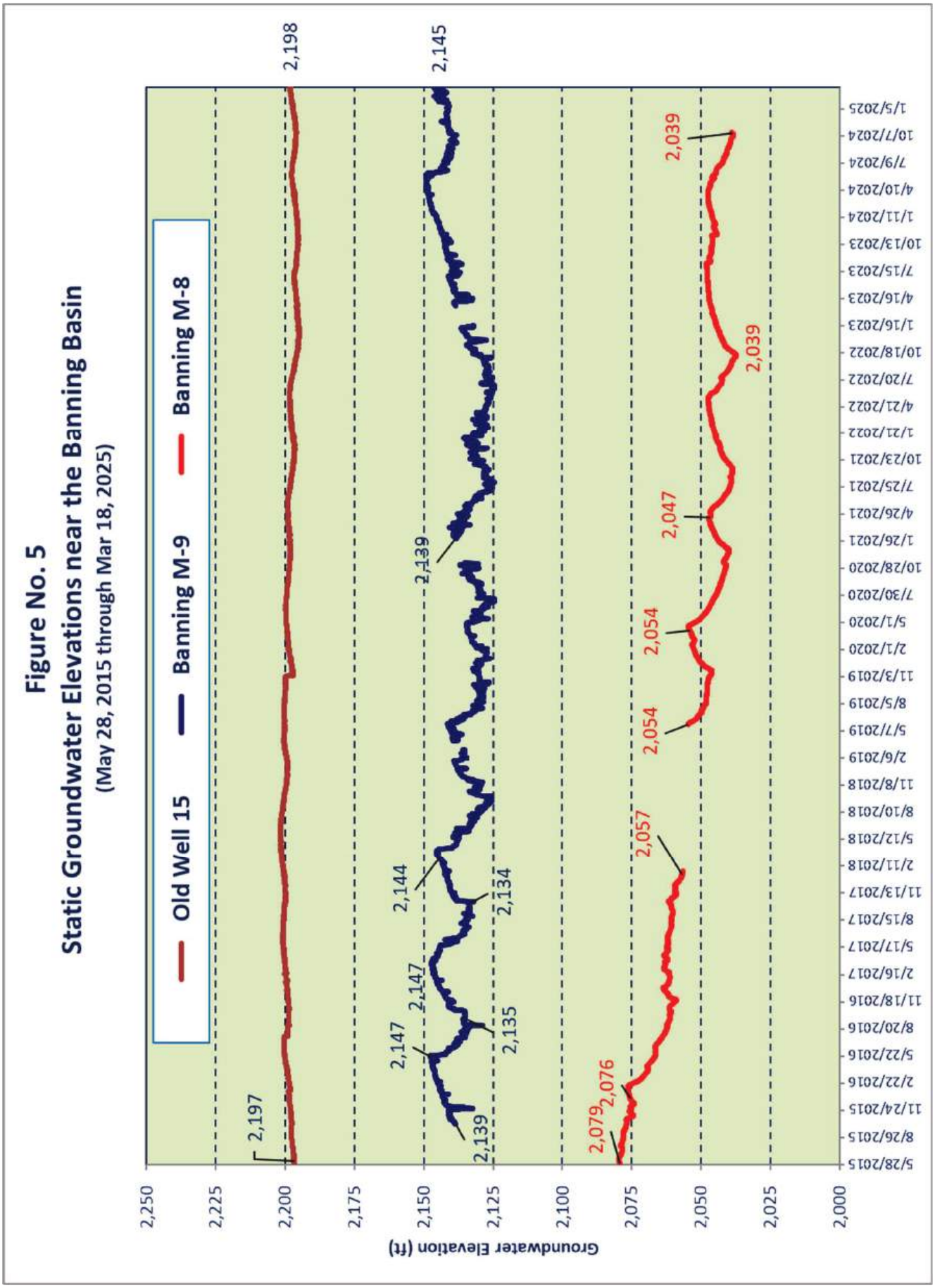


Figure No. 5
Static Groundwater Elevations near the Banning Basin
(May 28, 2015 through Mar 18, 2025)
Old Well 15
Banning M-9
Banning M-8
Groundwater Elevation (ft)
2,250
2,225
2,200
2,175
2,150
2,125
2,100
2,075
2,050
2,025
2,000
2,198
2,145
2,197
2,139
2,147
2,147
2,144
2,135
2,134
2,139
2,079
2,076
2,057
2,054
2,054
2,047
2,039
2,039
5/28/2015
8/26/2015
11/24/2015
2/22/2016
5/22/2016
8/20/2016
11/18/2016
2/16/2017
5/17/2017
8/15/2017
11/13/2017
2/11/2018
5/12/2018
8/10/2018
11/8/2018
2/6/2019
5/7/2019
8/5/2019
11/3/2019
2/1/2020
5/1/2020
7/30/2020
10/28/2020
1/26/2021
4/26/2021
7/25/2021
10/23/2021
1/21/2022
4/21/2022
7/20/2022
10/18/2022
1/16/2023
4/16/2023
7/15/2023
10/13/2023
1/11/2024
4/10/2024
7/9/2024
10/7/2024
1/5/2025

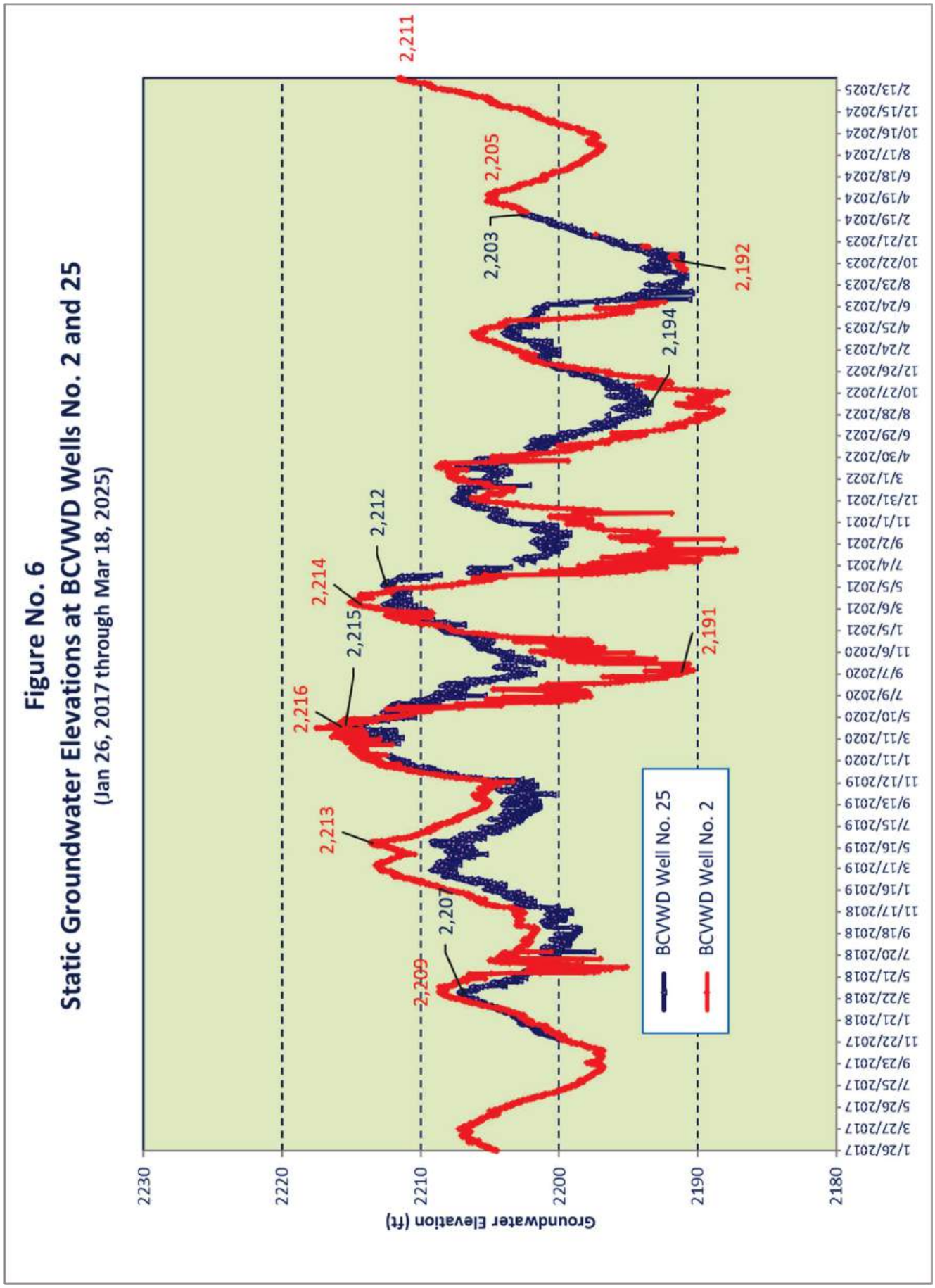


Figure No. 6
Static Groundwater Elevations at BCVWD Wells No. 2 and 25
(Jan 26, 2017 through Mar 18, 2025)
Groundwater Elevation (ft)
2230
2220
2210
2200
2190
2180
BCVWD Well No. 25
BCVWD Well No. 2
2,211
2,205
2,203
2,192
2,194
2,212
2,214
2,215
2,216
2,213
2,207
2,209
2,191
1/26/2017
3/27/2017
5/26/2017
7/25/2017
9/23/2017
11/22/2017
1/21/2018
3/22/2018
5/21/2018
7/20/2018
9/18/2018
11/17/2018
1/16/2019
3/17/2019
5/16/2019
7/15/2019
9/13/2019
11/12/2019
1/11/2020
3/11/2020
5/10/2020
7/9/2020
9/7/2020
11/6/2020
1/5/2021
3/6/2021
5/5/2021
7/4/2021
9/2/2021
11/1/2021
12/31/2021
3/1/2022
4/30/2022
6/29/2022
8/28/2022
10/27/2022
12/26/2022
2/24/2023
4/25/2023
6/24/2023
8/23/2023
10/22/2023
12/21/2023
2/19/2024
4/19/2024
6/18/2024
8/17/2024
10/16/2024
12/15/2024
2/13/2025

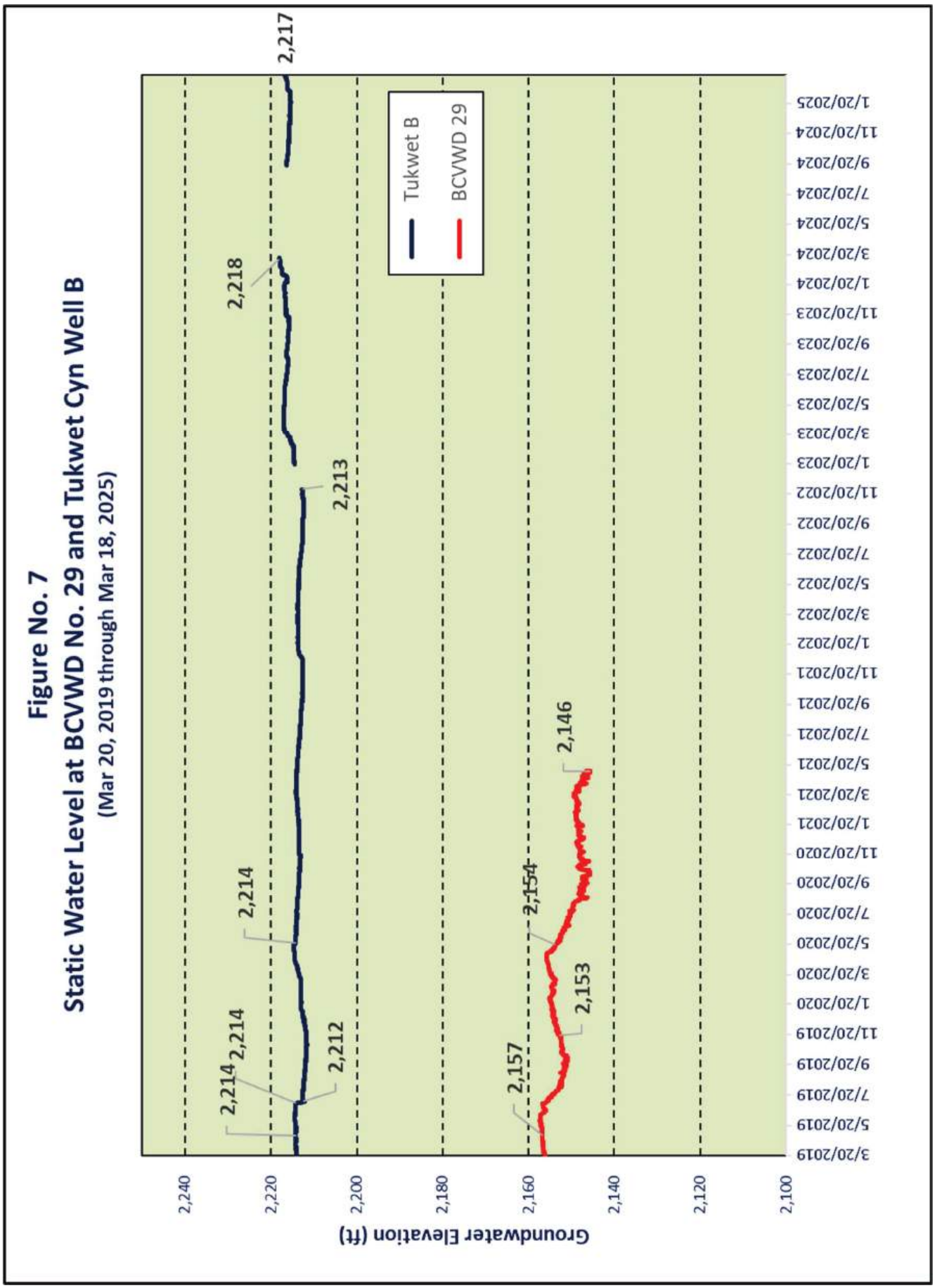


Figure No. 7
Static Water Level at BCVWD No. 29 and Tukwet Cyn Well B
(Mar 20, 2019 through Mar 18, 2025)
Tukwet B
BCVWD 29
Groundwater Elevation (ft)
2,240
2,220
2,200
2,180
2,160
2,140
2,120
2,100
2,217
2,218
2,213
2,214
2,214
2,214
2,212
2,157
2,154
2,153
2,146
3/20/2019
5/20/2019
7/20/2019
9/20/2019
11/20/2019
1/20/2020
3/20/2020
5/20/2020
7/20/2020
9/20/2020
11/20/2020
1/20/2021
3/20/2021
5/20/2021
7/20/2021
9/20/2021
11/20/2021
1/20/2022
3/20/2022
5/20/2022
7/20/2022
9/20/2022
11/20/2022
1/20/2023
3/20/2023
5/20/2023
7/20/2023
9/20/2023
11/20/2023
1/20/2024
3/20/2024
5/20/2024
7/20/2024
9/20/2024
11/20/2024
1/20/2025

BEAUMONT BASIN WATERMASTER

Date: April 2, 2025

From: Hannibal Blandon, ALDA Inc.

Subject: A Comparison of Production Rights vs Production through Feb 2025

Recommendation: No recommendation - For informational purposes only.

This Technical Memorandum presents a comparison of Appropriator's Production Rights from the Beaumont Basin against actual production. At the beginning of each year, Appropriators have certain Production Rights resulting from: a) unused production by overlying users from 2020 and/or b) permanent transfers of overlying water rights. Production Rights for individual Appropriators can be increased through the course of the year by spreading imported (supplemental) water.

Total production by Appropriators in 2025 through February was 1,708 ac-ft while Appropriator's Production Rights for the same period were 5,752 ac-ft resulting in a positive storage balance of 4,044 ac-ft, as presented in the table below. Spreading of supplemental water for this period was 680 ac-ft solely by BCVWD. The Production Rights for all Appropriators was higher than their respective production amounts resulting in a net temporary addition to their individual storage accounts. Change in storage accounts will be adjusted throughout the calendar year. SGPWA increased its pre-stored water balance to 2,002 ac-ft for the reporting period.

	City of Banning	Beaumont Cherry Valley W.D.	South Mesa Mutual W.C.	Yucaipa Valley W.D. (1)	Total
Appropriative Water Rights	1,444	1,953	573	624	4,594
Transfer of Overlying Water Right to Appropriator	0	0	0	478	478
Supplemental Water	0	680	0	0	680
Appropriator's Production Right	1,444	2,633	573	1,102	5,752
Production (2)	176	1,293	45	195	1,708
Change in Storage Account	1,268	1,340	528	907	4,044
Storage Account Balance as of December 2023	49,226	38,068	10,888	19,009	117,191

1.- YVWD was credited at the beginning of the year with 478.30 ac-ft of Overlying transfers from OVP. Actual credit may be higher at the end of the year.
2.- Production by the City of Banning may be supplemented by transfers from BCVWD – None reported for the period.

Reports

ITEM VI-D

BEAUMONT BASIN WATERMASTER
MEMORANDUM NO. 25-10

Date: April 2, 2025

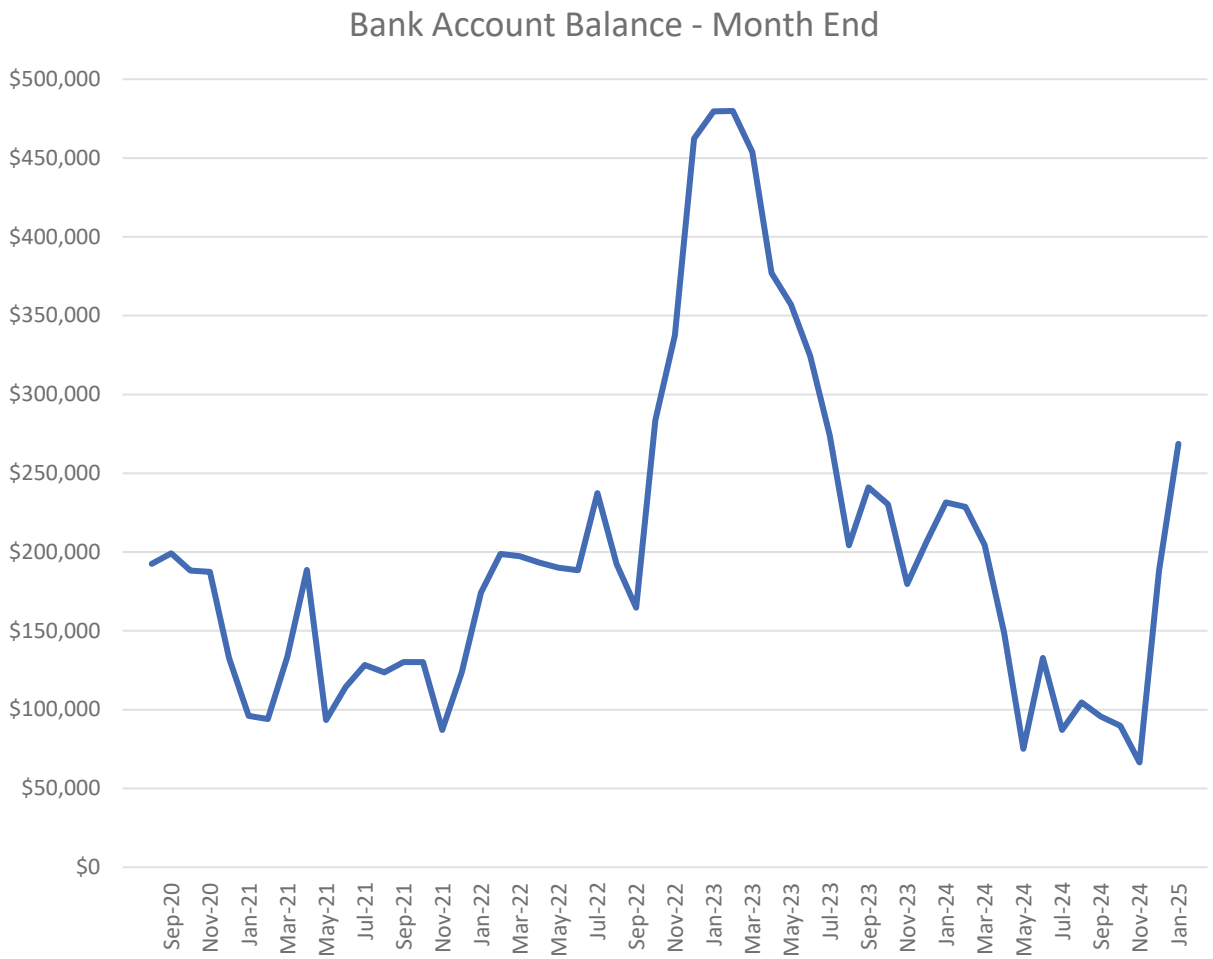
From: Joseph Zoba, Treasurer

Subject: Financial Status Report - Period Ending February 28, 2025

Recommendation: Presentation Only - No Action Required

The following information has been compiled to provide an update on the financial status of the Beaumont Basin Watermaster.

Account Balance - The bank account balance will increase with the receipt of payments from the Watermaster Committee and decrease with the payment of routine expenses incurred by the Watermaster.



Budget Monitoring - Revenue for the Beaumont Basin Watermaster is received when one of the following events occur: (1) the Watermaster Committee approves a task order; (2) the Watermaster Committee approves a special project; (3) when a budget is adopted with a recommendation to replenish the anticipated administrative expenses for the year; or (4) when the administrative funds have been depleted and additional funds are required.

OPERATING EXPENSES:	Approved Budget Fiscal Year 2024-25	Year-To-Date Expenses	Percentage of Approved Budget
Bank Fees & Interest	-$75	-$12.05	16.1%
Miscellaneous & Meeting Expenses	$0	$0.00	0.0%
Annual Audit	$2,250	$2,250.00	100.0%
Legal Expenses - Special Project	- -	- -	- -
Legal Expenses	$27,500	$14,376.44	52.3%
Reserve Funding	$0	$0.00	0.0%
Special Project - Engineering	$0	$0.00	0.0%
Special Project - Litigation	$0	$0.00	0.0%
Total Operating Expense	**$29,675**	**$16,614.39**	**56.0%**

Summary of Active Consultant Task Orders and Authorizations - The following Task Orders are currently open with our consultants.

Task Order \ Memo	Date	Description	Contract Amount	Payments to Date	Percent Billed to Date
23-16	6/7/2023	Data Management System (Dudek)	$45,895	$39,061.80	85%
23-33	12/6/2023	Groundwater Level Monitoring for 2024 (Thomas Harder & Co)	$28,120	$24,608.75	88%
24-03	2/7/2024	Update of Rules & Regulations (Dudek)	$15,000		
24-21	6/5/2024	Preparation and Attendance at Special Meetings (Thomas Harder & Co)	$12,825	$6,640	52%
24-36	12/4/2024	Investigation of Groundwater Basin Losses (Thomas Harder & Co) - Task #9	$64,380	$8,775	14%
24-38	12/4/2024	Professional Administrative and Technical Support Services (Dudek)	$81,638	$6,120	7%
24-39	12/4/2024	Engineering Services and Preparation of the 2024 Annual Report (Thomas Harder & Co) - Task #8	$101,930	$5,535	5%
25-05	2/5/2025	Groundwater Level Monitoring for 2025 (Thomas Harder & Co)	$28,120	$0	0%

Summary of Recently Closed Consultant Tasks - The following Task Orders have been closed since the work authorized has been completed.

Task Order \ Memo	Date	Description	Contract Amount	Payments to Date	Percent Billed to Date
21-31	8/17/2021	Electronic Files of the Groundwater Model to Beaumont - Task Order No. 27 (Alda)	$15,000	$13,625.00	91%
21-46	12/1/2021	Preparation of 2021 Annual Report - Task Order No. 28 (Alda)	$103,600	$78,620.00	76%
21-47	12/1/2021	Data Collection of Water Level Measurements - Task Order No. 29 (Alda)	$24,975	$18,200.00	73%
22-22	6/1/2022	Administration and Technical Services Contract (Dudek)	$87,730	$87,602.50	100%
22-27	10/5/2022	Professional Engineering Services - Task Order 1 (Thomas Harder & Co.)	$315,805	$306,573.75	97%
22-33	12/7/2022	Groundwater Level Monitoring - Task Order 2 (Thomas Harder & Co)	$28,370	$27,425.00	97%
23-10	4/5/2023	Cost for Public Records Request - Task Order 3 (Thomas Harder & Co.)	$1,300	$1,300.00	100%
23-30	10/4/2023	Administration and Technical Support (Dudek)	$94,878	$94,762.25	100%
23-31	10/4/2023	Preparation and Attendance at Special Meetings (Thomas Harder & Co)	$17,100	$17,100	100%
23-32	12/6/2023	Engineering and Reporting Services for 2024 (Thomas Harder & Co)	$95,690	$93,105.00	97%
24-30	9/4/2024	ESRI Online Subscription Services	$15,824.46	$15,824.46	100%
24-34	10/2/2024	City of Beaumont Data Request (Thomas Harder & Co) - Task #7	$1,300	$1,300	100%

Discussion Items

BEAUMONT BASIN WATERMASTER

MEMORANDUM NO. 25-11

Date:	April 2, 2025
From:	Thomas Harder, Thomas Harder & Co. (TH&Co)
Subject:	Update on the Analysis of Losses in the Beaumont Basin
Recommendation:	None. For information and discussion

At the December 2024 Committee meeting, the Beaumont Basin Watermaster approved TH&Co's scope of work to analyze potential losses in the Beaumont Basin. The scope of work included the following tasks:

1. Quantify Subsurface Outflow Under Various Historical Periods
2. Coordinate with SGPWA to Develop Imported Water Forecasts for Analysis of Storage Losses
3. Model Pre-Processing
4. Analysis of Losses
5. Reporting

At the March Special Committee Meeting, we summarized three preliminary basin management scenarios for use in analysis of basin losses using the groundwater flow model. Foundational to the scenarios are assumptions of imported water deliveries into the future. Three scenarios were presented:

- A Baseline Imported Water Scenario
- A Dry Condition Imported Water Scenario
- A Wet Condition Imported Water Scenario

It was noted at the March Special Meeting that the scenarios were preliminary and more work was necessary to finalize them.

At the April Committee Meeting, we will provide an update on progress toward finalizing the imported water delivery scenarios for use in analyzing basin losses with the groundwater flow model. The update will include:

- A summary of correspondence and meetings with SGPWA to refine the forecast scenarios of imported water deliveries
- Tables showing the forecast imported water delivery scenarios for each of the three scenarios
- Next steps for analyzing the scenarios using the model

Beaumont Basin Watermaster

Update on Basin Loss Analysis

April 2, 2025

Thomas Harder & Co.
Groundwater Consulting

Work Conducted Since the March Special Meeting

- Refined the Baseline, Dry and Wet Imported Water Forecasts for Model Scenarios
  - Based on SGPWA Meeting on 3/14/25 and Correspondence

Scenario Hydrologic Assumptions

	50-Year Forecast Period		
	"Dry" Scenario	"Wet" Scenario	"Baseline" Scenario
10-year period:	average	average	average
10-year period:	wet	wet	wet
10-year period:	average	average	average
10-year period:	dry	dry	dry
10-year period:	average	average	average

	Dry		Wet		Average	
	Proxy Calendar Year	2023 DCR Allocation	Proxy Calendar Year	2023 DCR Allocation	Proxy Calendar Year	2023 DCR Allocation
Breakdown of the 10-year period	2008	19%	1992	12%	2005	62%
	2009	37%	1993	55%	2006	69%
	2010	40%	1994	51%	2007	82%
	2011	63%	1995	50%	2008	19%
	2012	91%	1996	88%	2009	37%
	2013	32%	1997	70%	2010	40%
	2014	6%	1998	88%	2011	63%
	2015	11%	1999	91%	2012	91%
	2016	57%	2000	68%	2013	32%
	2017	58%	2001	38%	2014	6%
	Average:	41%	Average:	61%	Average:	50%
10-Year Period Logic:	This 10-year timeframe's 2023 DCR average allocation was closest to 40%.		This 10-year timeframe's 2023 DCR average allocation was closest to 60%.		This 10-year timeframe's 2023 DCR average allocation was equal to 60%.	
Overall Scenario Logic:	The average annual imported volume of water is 20% lower than the Baseline Scenario equaling 11,033 AFY.		The average annual imported volume of water is 20% larger than the Baseline Scenario equaling 16,292 AFY.		The average annual imported volume of water is equal to 13,792 AFY.	

Thomas Harder & Co.
Groundwater Consulting

Imported Water Scenario Tables (One Each for Baseline, Dry and Wet Scenarios)

Beaumont Basin Model "Baseline" Scenario

A	B	C	D	E	F	G	Sources of Imported Water (acre-ft)								P
							H	I	J	K	L	M	N	O	
Model Forecast Year	10-Year Period Climate	Model Proxy Year	2023 DCR Allocation (%)	Water Year Type Sac 40-30-30	Operational Max Capacity (acre-ft)	Scaling Factor	SGPWA Table A	Ventura Table A	SGPWA Article 21 Water	Ventura Article 21 Water	Nickel Water	Yuba Water	Sites Reservoir	Total Theoretical Water Supply	Total Imported Water Deliveries For Simulations (acre-ft)
						F x ("Baseline" Max of O)	D x 17,500	D x 10,000						H+I+J+K+L+M+N	G x O
2023	Average (50%)	2005	62%	AN	20,000	49%	10,726	6,200	402	232	1,700	0	0	19,260	9,518
2024		2006	69%	W	20,000	49%	11,937	6,900	4,483	2,591	1,700	0	0	27,611	13,645
2025		2007	82%	D	20,000	49%	14,186	8,200	29	17	1,700	0	0	24,132	11,926
2026		2008	19%	C	20,000	49%	3,287	1,900	25	15	1,700	300	0	7,227	3,572
2027		2009	37%	D	20,000	49%	6,401	3,700	21	12	1,700	300	0	12,134	5,997
2028		2010	40%	BN	20,000	49%	6,920	4,000	975	564	1,700	0	0	14,159	6,997
2029		2011	63%	W	20,000	49%	10,899	6,300	3,319	1,919	1,700	0	0	24,137	11,928
2030		2012	91%	BN	27,000	67%	15,743	9,100	29	17	1,700	0	0	26,589	17,739
2031		2013	32%	D	27,000	67%	5,536	3,200	25	15	1,700	300	0	10,776	7,189
2032		2014	6%	C	27,000	67%	1,038	600	29	17	1,700	300	0	3,684	2,458
2033	Wet (50%)	1992	14%	C	27,000	67%	2,076	1,200	21	12	1,700	300	0	5,309	3,542
2034		1993	55%	AN	27,000	67%	9,515	5,500	117	68	1,700	0	0	16,900	11,275
2035		1994	51%	C	27,000	67%	8,823	5,100	25	15	1,700	0	19,126	34,789	23,210
2036		1995	50%	W	27,000	67%	8,650	5,000	844	315	1,700	0	67	16,276	10,859
2037		1996	86%	W	27,000	67%	15,224	8,800	490	283	1,700	0	67	26,564	17,722
2038		1997	70%	W	27,000	67%	12,110	7,000	2,185	1,263	1,700	0	67	24,325	16,229
2039		1998	86%	W	27,000	67%	15,224	8,800	1,134	656	1,700	0	67	27,581	18,401
2040		1999	91%	W	27,000	67%	15,743	9,100	38	22	1,700	0	67	26,670	17,793
2041		2000	66%	AN	27,000	67%	11,764	6,800	33	19	1,700	0	0	20,316	13,554
2042		2001	38%	D	27,000	67%	6,574	3,800	33	19	1,700	300	24,555	36,981	24,672
2043	Average (50%)	2005	62%	AN	27,000	67%	10,726	0	402	0	1,700	0	0	12,828	8,558
2044		2006	69%	W	27,000	67%	11,937	0	4,483	0	1,700	0	67	18,187	12,133
2045		2007	82%	D	27,000	67%	14,186	0	29	0	1,700	0	24,555	40,470	27,000
2046		2008	19%	C	27,000	67%	3,287	0	25	0	1,700	300	19,126	24,438	16,304
2047		2009	37%	D	27,000	67%	6,401	0	21	0	1,700	300	24,555	32,977	22,001
2048		2010	40%	BN	27,000	67%	6,920	0	975	0	1,700	0	4,789	14,384	9,596
2049		2011	63%	W	27,000	67%	10,899	0	3,319	0	1,700	0	67	15,985	10,664
2050		2012	91%	BN	27,000	67%	15,743	0	29	0	1,700	0	4,789	22,261	14,851
2051		2013	32%	D	27,000	67%	5,536	0	25	0	1,700	300	24,555	32,116	21,427
2052		2014	6%	C	27,000	67%	1,038	0	29	0	1,700	300	19,126	22,193	14,807
2053	Dry (40%)	2008	19%	C	27,000	67%	3,287	0	25	0	1,700	300	19,126	24,438	16,304
2054		2009	37%	D	27,000	67%	6,401	0	21	0	1,700	300	24,555	32,977	22,001
2055		2010	40%	BN	27,000	67%	6,920	0	975	0	1,700	0	4,789	14,384	9,596
2056		2011	63%	W	27,000	67%	10,899	0	3,319	0	1,700	0	67	15,985	10,664
2057		2012	91%	BN	27,000	67%	15,743	0	29	0	0	0	4,789	20,561	13,717
2058		2013	32%	D	27,000	67%	5,536	0	25	0	0	300	24,555	30,416	20,292
2059		2014	6%	C	27,000	67%	1,038	0	29	0	0	300	19,126	20,493	13,672
2060		2015	11%	C	27,000	67%	1,903	0	17	0	0	300	19,126	21,346	14,241
2061		2016	57%	BN	27,000	67%	9,861	0	33	0	0	0	4,789	14,683	9,796
2062		2017	58%	W	27,000	67%	10,034	0	1,478	0	0	0	67	11,579	7,725
2063	Average (50%)	2006	62%	AN	27,000	67%	10,726	0	402	0	0	0	0	11,128	7,424
2064		2006	69%	W	27,000	67%	11,937	0	4,483	0	0	0	67	16,487	10,999
2065		2007	82%	D	27,000	67%	14,186	0	29	0	0	0	24,555	38,770	25,866
2066		2008	19%	C	27,000	67%	3,287	0	25	0	0	300	19,126	22,738	15,170
2067		2009	37%	D	27,000	67%	6,401	0	21	0	0	300	24,555	31,277	20,867
2068		2010	40%	BN	27,000	67%	6,920	0	975	0	0	0	4,789	12,684	8,462
2069		2011	63%	W	27,000	67%	10,899	0	3,319	0	0	0	67	14,285	9,530
2070		2012	91%	BN	27,000	67%	15,743	0	29	0	0	0	4,789	20,561	13,717
2071		2013	32%	D	27,000	67%	5,536	0	25	0	0	300	24,555	30,416	20,292
2072		2014	6%	C	27,000	67%	1,038	0	29	0	0	300	19,126	20,493	13,672
														Average (acre-ft):	13,792

Explanation of Scenario Tables

Percentage Allocation Used to Determine Average/Dry/Wet Conditions (Average Dictates Column B) and Available Table A Water

A	B	C	D	E	F	G
Model Forecast Year	10-Year Period Climate	Model Proxy Year	2023 DCR Allocation (%)	Water Year Type Sac 40-30-30	Operational Max Capacity (acre-ft)	Scaling Factor
						F x ("Baseline" Max of O)
2023	Average (50%)	2005	62%	AN	20,000	49%
2024		2006	69%	W	20,000	49%
2025		2007	82%	D	20,000	49%
2026		2008	19%	C	20,000	49%
2027		2009	37%	D	20,000	49%
2028		2010	40%	BN	20,000	49%
2029		2011	63%	W	20,000	49%
2030		2012	91%	BN	27,000	67%
2031		2013	32%	D	27,000	67%
2032		2014	6%	C	27,000	67%

The Ratio Between the Basin Capacity and Maximum Theoretical Water Supply

Assumes that Brookside West Basins Go Online in 2030

Thomas Harder & Co.
Groundwater Consulting

Imported Water Scenario Tables

Beaumont Basin Model "Baseline" Scenario

A	B	C	D	E	F	G	Sources of Imported Water (acre-ft)								P
							H	I	J	K	L	M	N	O	
Model Forecast Year	10-Year Period Climate	Model Proxy Year	2023 DCR Allocation (%)	Water Year Type Sac 40-30-30	Operational Max Capacity (acre-ft)	Scaling Factor	SGPWA Table A	Ventura Table A	SGPWA Article 21 Water	Ventura Article 21 Water	Nickel Water	Yuba Water	Sites Reservoir	Total Theoretical Water Supply	Total Imported Water Deliveries For Simulations (acre-ft)
						F x ("Baseline" Max of O)	D x 17.500	D x 10.000						H+I+J+K+L+M+N	G x O
2023	Average (50%)	2005	62%	AN	20,000	49%	10,726	6,200	402	232	1,700	0	0	19,260	9,518
2024		2006	69%	W	20,000	49%	11,937	6,900	4,483	2,591	1,700	0	0	27,611	13,645
2025		2007	82%	D	20,000	49%	14,186	8,200	29	17	1,700	0	0	24,132	11,926
2026		2008	19%	C	20,000	49%	3,287	1,900	25	15	1,700	300	0	7,227	3,572
2027		2009	37%	D	20,000	49%	6,401	3,700	21	12	1,700	300	0	12,134	5,997
2028		2010	40%	BN	20,000	49%	6,920	4,000	975	564	1,700	0	0	14,159	6,997
2029		2011	63%	W	20,000	49%	10,899	6,300	3,319	1,919	1,700	0	0	24,137	11,928
2030		2012	91%	BN	27,000	67%	15,743	9,100	29	17	1,700	0	0	26,589	17,739
2031		2013	32%	D	27,000	67%	5,536	3,200	25	15	1,700	300	0	10,776	7,189
2032		2014	6%	C	27,000	67%	1,038	600	29	17	1,700	300	0	3,684	2,458
2033	Wet (25%)	1992	12%	C	27,000	67%	2,076	1,200	21	12	1,700	300	0	5,309	3,542
2034		1993	55%	AN	27,000	67%	9,515	5,500	117	68	1,700	0	0	16,900	11,275
2035		1994	51%	C	27,000	67%	8,823	5,100	25	15	1,700	0	19,126	34,789	23,210
2036		1995	50%	W	27,000	67%	8,650	5,000	844	315	1,700	0	67	16,276	10,859
2037		1996	86%	W	27,000	67%	15,224	8,800	490	283	1,700	0	67	26,564	17,722
2038		1997	70%	W	27,000	67%	12,110	7,000	2,185	1,263	1,700	0	67	24,325	16,229
2039		1998	86%	W	27,000	67%	15,224	8,800	1,134	656	1,700	0	67	27,581	18,401
2040		1999	91%	W	27,000	67%	15,743	9,100	38	22	1,700	0	67	26,670	17,793
2041		2000	66%	AN	27,000	67%	11,764	6,800	33	19	1,700	0	0	20,316	13,554
2042		2001	38%	D	27,000	67%	6,574	3,800	33	19	1,700	300	24,555	36,981	24,672
2043	Average (50%)	2005	62%	AN	27,000	67%	10,726	0	402	0	1,700	0	0	12,828	8,558
2044		2006	69%	W	27,000	67%	11,937	0	4,483	0	1,700	0	67	18,187	12,133
2045		2007	82%	D	27,000	67%	14,186	0	29	0	1,700	0	24,555	40,470	27,000
2046		2008	19%	C	27,000	67%	3,287	0	25	0	1,700	300	19,126	24,438	16,304
2047		2009	37%	D	27,000	67%	6,401	0	21	0	1,700	300	24,555	32,977	22,001
2048		2010	40%	BN	27,000	67%	6,920	0	975	0	1,700	0	4,789	14,384	9,596
2049		2011	63%	W	27,000	67%	10,899	0	3,319	0	1,700	0	67	15,985	10,664
2050		2012	91%	BN	27,000	67%	15,743	0	29	0	1,700	0	4,789	22,261	14,851
2051		2013	32%	D	27,000	67%	5,536	0	25	0	1,700	300	24,555	32,116	21,427
2052		2014	6%	C	27,000	67%	1,038	0	29	0	1,700	300	19,126	22,193	14,807
2053	Dry (40%)	2008	19%	C	27,000	67%	3,287	0	25	0	1,700	300	19,126	24,438	16,304
2054		2009	37%	D	27,000	67%	6,401	0	21	0	1,700	300	24,555	32,977	22,001
2055		2010	40%	BN	27,000	67%	6,920	0	975	0	1,700	0	4,789	14,384	9,596
2056		2011	63%	W	27,000	67%	10,899	0	3,319	0	1,700	0	67	15,985	10,664
2057		2012	91%	BN	27,000	67%	15,743	0	29	0	0	0	4,789	20,561	13,717
2058		2013	32%	D	27,000	67%	5,536	0	25	0	0	300	24,555	30,416	20,292
2059		2014	6%	C	27,000	67%	1,038	0	29	0	0	300	19,126	20,493	13,672
2060		2015	11%	C	27,000	67%	1,903	0	17	0	0	300	19,126	21,346	14,241
2061		2016	57%	BN	27,000	67%	9,861	0	33	0	0	0	4,789	14,683	9,796
2062		2017	58%	W	27,000	67%	10,034	0	1,478	0	0	0	67	11,579	7,725
2063	Average (50%)	2006	62%	AN	27,000	67%	10,726	0	402	0	0	0	0	11,128	7,424
2064		2006	69%	W	27,000	67%	11,937	0	4,483	0	0	0	67	16,487	10,999
2065		2007	82%	D	27,000	67%	14,186	0	29	0	0	0	24,555	38,770	25,866
2066		2008	19%	C	27,000	67%	3,287	0	25	0	0	300	19,126	22,738	15,170
2067		2009	37%	D	27,000	67%	6,401	0	21	0	0	300	24,555	31,277	20,867
2068		2010	40%	BN	27,000	67%	6,920	0	975	0	0	0	4,789	12,684	8,462
2069		2011	63%	W	27,000	67%	10,899	0	3,319	0	0	0	67	14,285	9,530
2070		2012	91%	BN	27,000	67%	15,743	0	29	0	0	0	4,789	20,561	13,717
2071		2013	32%	D	27,000	67%	5,536	0	25	0	0	300	24,555	30,416	20,292
2072		2014	6%	C	27,000	67%	1,038	0	29	0	0	300	19,126	20,493	13,672
														Average (acre-ft):	13,792

Explanation of Scenario Tables (Summary of Supplies)

DCR Percentage Allocation Multiplied by Table A Entitlement
Ventura Table A Assumed to Expire in 2042

Available in Dry and Critically Dry Years (Column E)

Sources of Imported Water (acre-ft)								P
H	I	J	K	L	M	N	O	
SGPWA Table A	Ventura Table A	SGPWA Article 21 Water	Ventura Article 21 Water	Nickel Water	Yuba Water	Sites Reservoir	Total Theoretical Water Supply	Total Imported Water Deliveries For Simulations (acre-ft)
D x 17.300	D x 10.000						H+I+J+K+L+M+N	G x O
10,726	6,200	402	232	1,700	0	0	19,260	9,518
11,937	6,900	4,483	2,591	1,700	0	0	27,611	13,645
14,186	8,200	29	17	1,700	0	0	24,132	11,926
3,287	1,900	25	15	1,700	300	0	7,227	3,572
6,401	3,700	21	12	1,700	300	0	12,134	5,997
6,920	4,000	975	564	1,700	0	0	14,159	6,997
10,899	6,300	3,319	1,919	1,700	0	0	24,137	11,928
15,743	9,100	29	17	1,700	0	0	26,589	17,739
5,536	3,200	25	15	1,700	300	0	10,776	7,189
1,038	600	29	17	1,700	300	0	3,684	2,458

Available Starting in 2035;
Available in Dry and Critically Dry Years)

Thomas Harder & Co.
Groundwater Consulting

Average Imported Water Volumes for Simulation Period from 2023 – 2072 (50 Years)

P	
Total Imported Water Deliveries For Simulations (acre-ft)	
G x O	
13,792	Baseline
11,033	Dry
16,292	Wet

Thomas Harder & Co.
Groundwater Consulting

Next Steps

- Finalize the Historical with/without Managed Recharge Model Runs
- Set Up and Analyze the Forecasted Recharge Scenarios Using the Model
  - Assess Changes in Subsurface Outflow Relative to the Baseline
- Conduct Particle Tracking
  - Assess Managed Recharge Travel Time

ITEM VII-B

BEAUMONT BASIN WATERMASTER

MEMORANDUM NO. 25-12

Date:	April 2, 2025
From:	Hannibal Blandon, ALDA Inc.
Subject:	**Certification of Groundwater Production and Imported Water Use during Water Year 2024**
Recommendation:	**Certify groundwater production, imported water spreading, and change in storage in the Beaumont Groundwater Basin during Water Year 2024**

By April 1 of every year, the Beaumont Basin Watermaster is required to fill out an on-line form with the State of California Department of Water Resources (DWR) documenting the use of water in the basin during the previous year. As part of the documentation submitted, a PDF copy of the Final Annual Report is normally required.

In previous years, the required information was submitted on a Calendar Year basis; however, starting in 2024, the corresponding information for 2023 and subsequent years thereafter are being submitted on a Water Year basis. The Annual Report will continue to be submitted on a Calendar Year basis.

The information provided in this TM should be sufficient to provide the State with the requested information and could be used to fill out the on-line form with DWR. The requested information is as follows:

- ✓ 2024 Groundwater Production
  - Total groundwater production: 14,650 ac-ft
  - Metered production: 14,637 ac-ft (Low uncertainty)
  - Other method (Water Duty): 13 ac-ft (Medium uncertainty)
- ✓ 2024 Surface Water Supply
  - State Water Project deliveries: 15,387 ac-ft (Low uncertainty)
- ✓ Total Water Use: 14,650 ac-ft
- ✓ 2024 Change in Storage: 312 ac-ft

Attachments: 2024 Production Certification
Change in Basin Elevation
BCVWD correspondence

ALDA Inc.
5928 Vineyard Avenue
Alta Loma, CA 91701
Tel: (909) 587-9916
Fax: (909) 498-0423

VII-B
Attachment 1

March 20th, 2025

Dan Jaggers, Secretary
Beaumont Basin Watermaster
Beaumont Cherry Valley Water District
560 Magnolia Avenue
Beaumont, CA 92223

Subject: **Certification of Groundwater Production and Imported Water Use in Water Year 2024**

Dear Mr. Jagger:

The purpose of this letter is to provide you, as Secretary of the Beaumont Basin Watermaster, with the necessary information to fill out an on-line form with the State of California Department of Water Resources (DWR) documenting the use of water in the basin during Water Year 2024.

Considering the 2024 Final Annual Report of the Beaumont Basin will not be ready until the June meeting, at the earliest, DWR has indicated in the past that the on-line forms can still be filled out and submitted to the state before the April 1st deadline. DWR requested that a formal letter from Watermaster be included in the on-line submittal documenting that the production, storage, and imported water use quantities used in the form for Water Year 2024 are accurate and that a copy of the final annual report be submitted at a later date. The information presented below was extracted during the preparation of the 2024 Draft report. Storage change during CY 2024 is documented in the attached figures. The requested information is as follows:

- ✓ 2024 Groundwater Production
  - Total groundwater production: 14,650 ac-ft
  - Metered production: 14,637 ac-ft (Low uncertainty)
  - Other method (Water Duty): 13 ac-ft (Medium uncertainty)
- ✓ 2024 Surface Water Supply
  - State Water Project deliveries: 15,387 ac-ft (Low uncertainty)
- ✓ Total Water Use: 14,650 ac-ft
- ✓ 2024 Change in Storage: 312 ac-ft

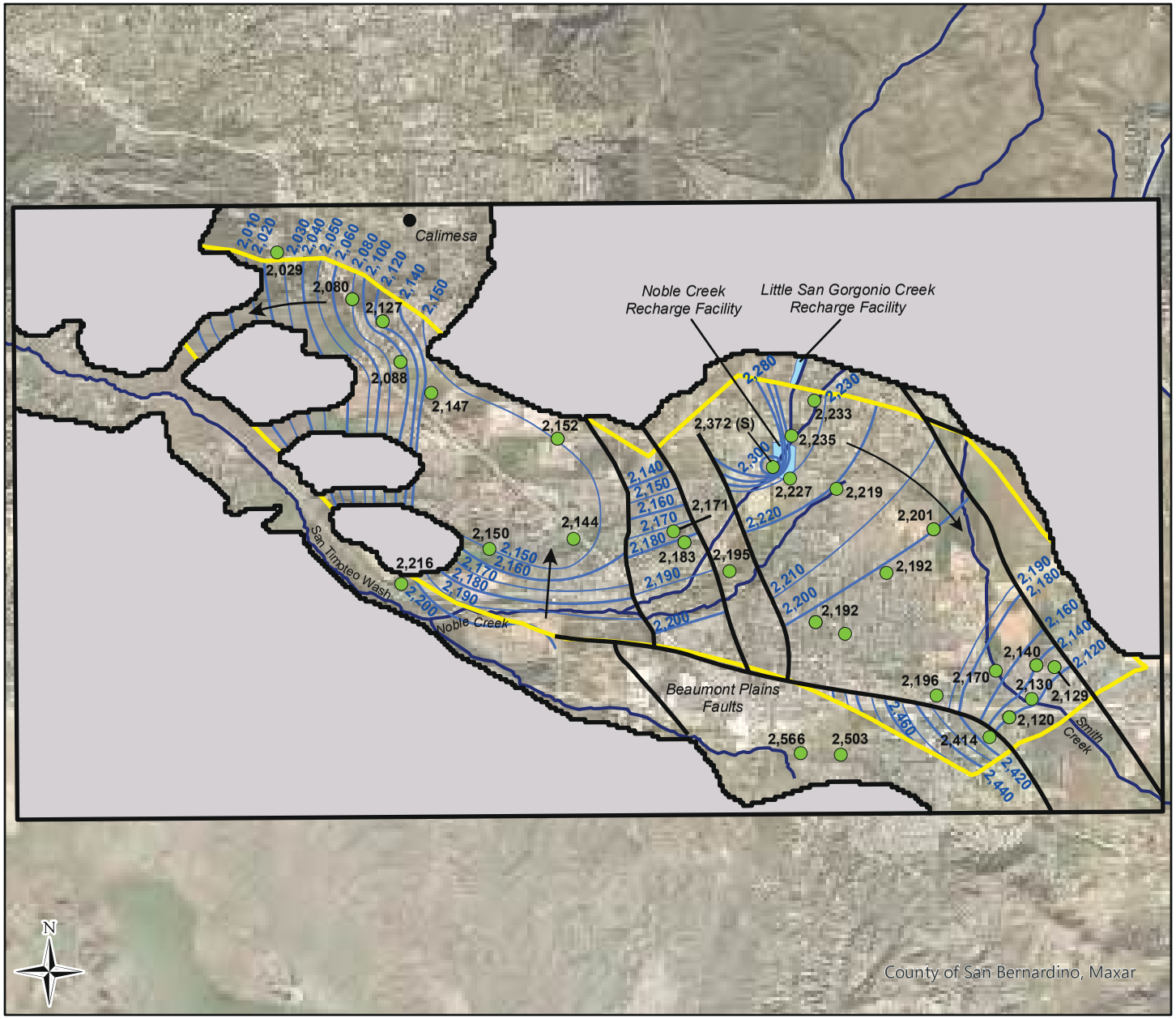
Should you have any questions on this matter, please contact us at 909-587-9916.

Very truly yours,

F. Anibal Blandon, P.E.
ALDA Inc.
Beaumont Basin Watermaster Engineering Support

Attachment 2

DRAFT
Figure 1



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
- Imported Water Recharge Facility
- Beaumont Basin Adjudicated Boundary

N

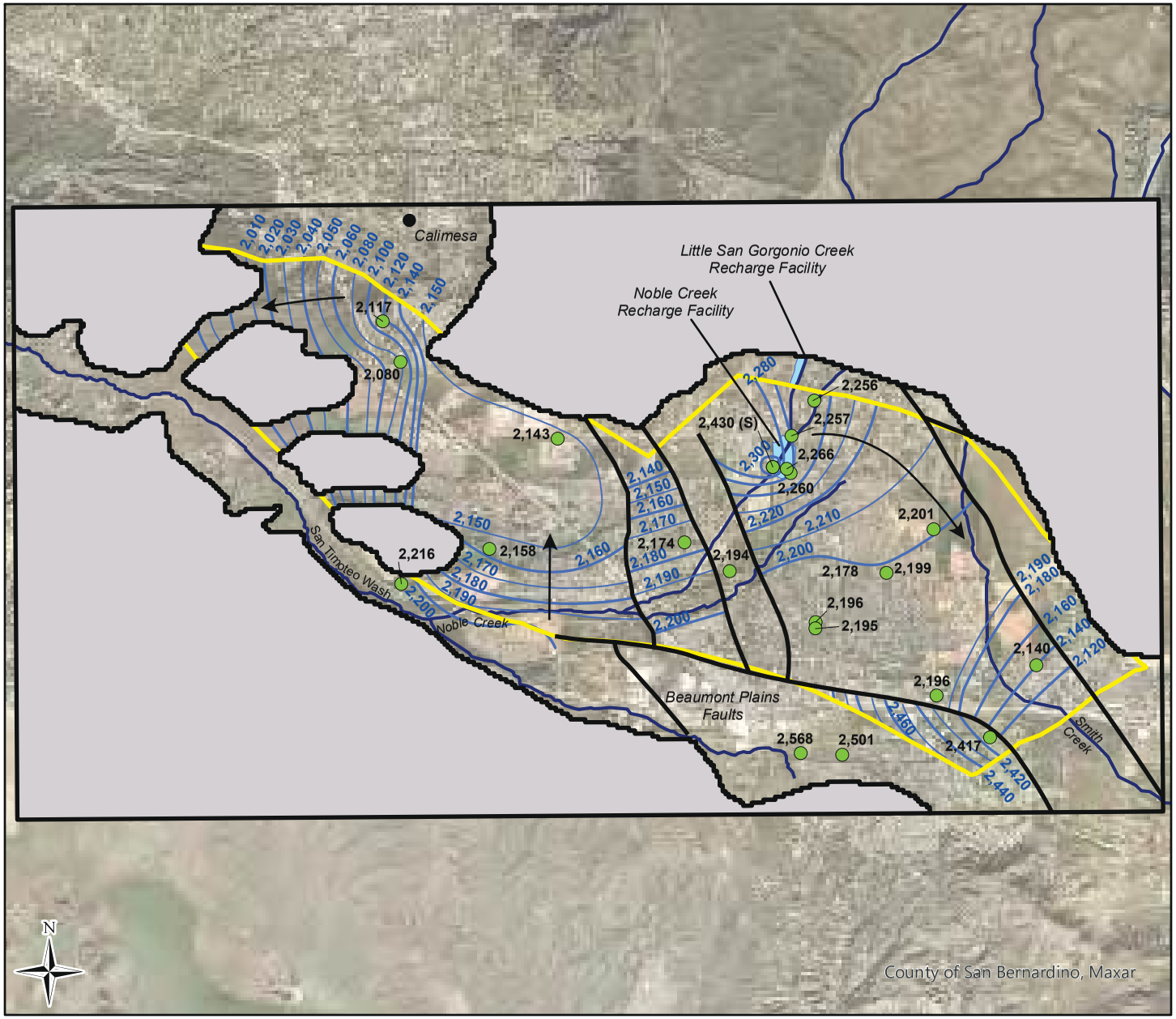
0 0.5 1 2
Miles
NAD 83 UTM Zone 11

Thomas Harder & Co.
Groundwater Consulting

Groundwater Contours in the Beaumont Basin October 2023

March 2025

DRAFT
Figure 2



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
- Imported Water Recharge Facility
- Beaumont Basin Adjudicated Boundary

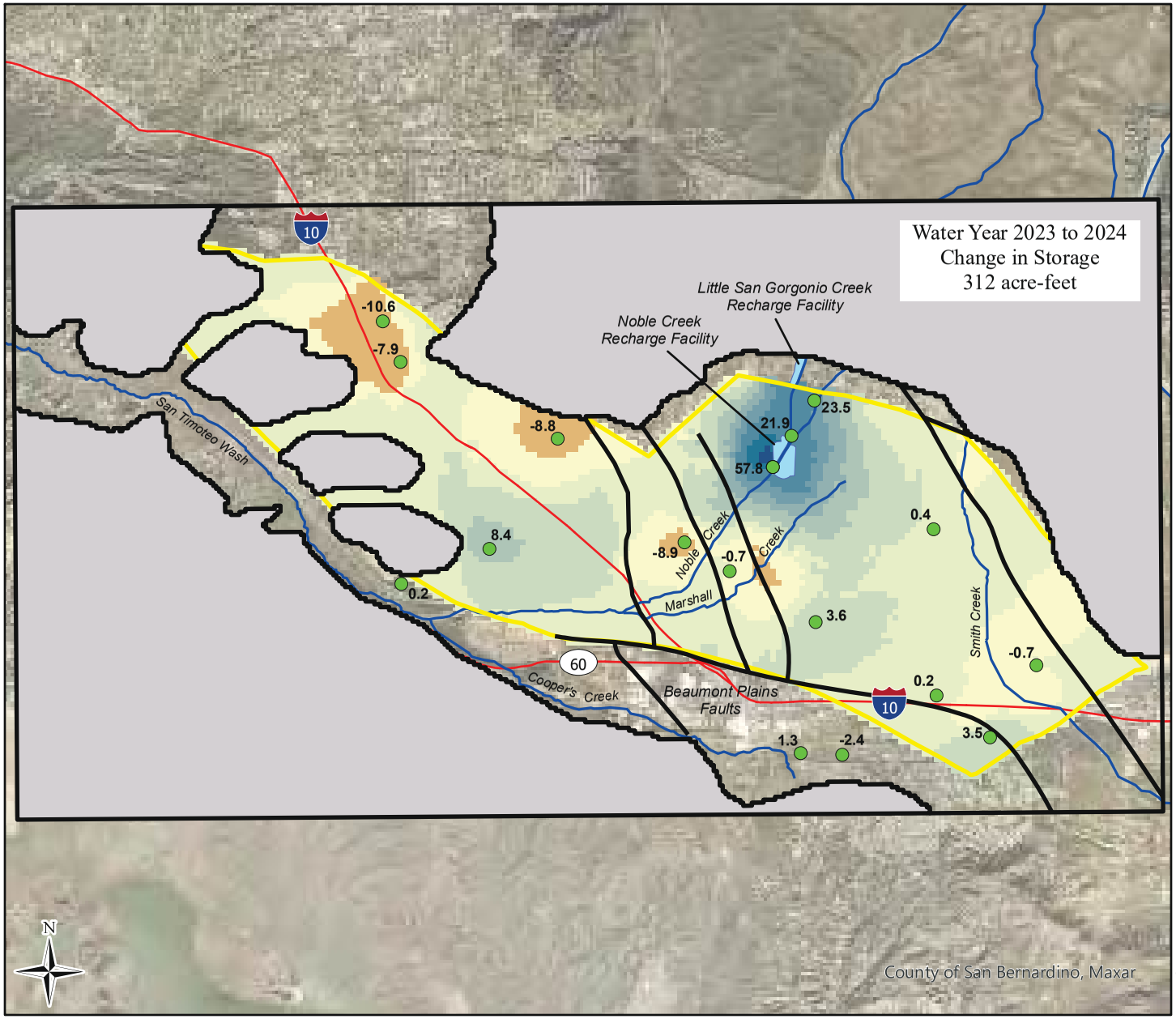
0 0.5 1 2 Miles
NAD 83 UTM Zone 11

Thomas Harder & Co.
Groundwater Consulting

Groundwater Contours in the Beaumont Basin September 2024

March 2025

DRAFT
Figure 3



Map Features

2023 to 2024 Groundwater Elevation Change (ft)

- 40 to 55
- 30 to 40
- 20 to 30
- 15 to 20
- 10 to 15
- 5 to 10
- 1 to 5
- -1 to 1
- -5 to -1
- -10 to -5
- Well with Groundwater Elevation Change (ft)
- Imported Water Recharge Facility
- Beaumont Basin Ajudicated Boundary
- Fault
- Stream
- Freeway/Highway

Change in Groundwater Elevation
October 2023 to September 2024

Thomas Harder & Co.
Groundwater Consulting

0 0.5 1 2
Miles
NAD 83 UTM Zone 11

March 2025

BEAUMONT BASIN WATERMASTER

Office of the Secretary Daniel K. Jaggers
c/o Beaumont-Cherry Valley Water District
560 Magnolia Avenue / Beaumont, CA 92223

Office (951) 845-9581
email dan.jaggers@bcvwd.gov
beaumontbasinwatermaster.org

To Whom It May Concern:

The Beaumont Basin Watermaster Board of Directors (Board) Were presented with the production, storage, and imported water use quantities for the calendar year 2024, on March 5, 2025. Said quantities have been reported to the California Department of Water Resources Adjudicated Basins Annual Reporting System and include a total 2024 change in storage of 312 acft (Acre Feet) of water as part of this letter submittal.

The Beaumont Basin Watermaster has prepared a Draft 2024 Consolidated Annual Report (Annual Report) but said Draft Report is still under review by the Board. A copy of the Annual Report will be uploaded to the California Department of Water Resources Adjudicated Basins Annual Reporting System when the Final Draft has been approved by the Board.

For more information and to obtain a copy of the Beaumont Basin Watermaster meeting agendas and minutes please visit:

http://www.beaumontbasinwatermaster.org

Daniel K. Jaggers
General Manager
Beaumont-Cherry Valley Water District

Attachment: March 5, 2025, Beaumont Basin Watermaster Agenda Pages 1-3

ITEM VII-C

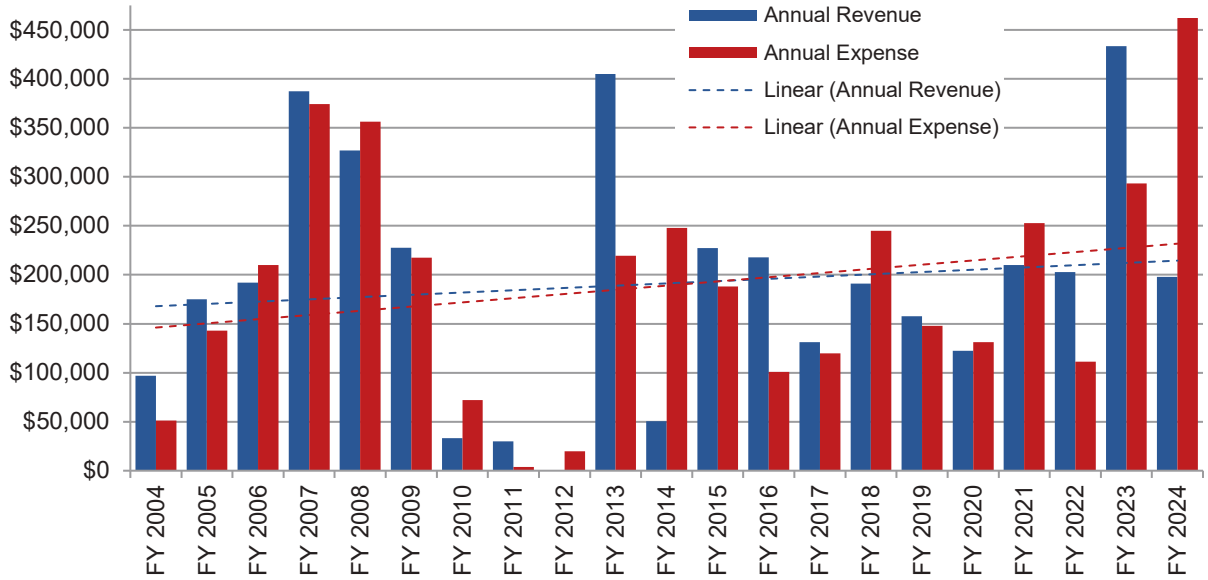
BEAUMONT BASIN WATERMASTER
MEMORANDUM NO. 25-13

Date:	April 2, 2025
From:	Joseph Zoba, Treasurer
Subject:	Independent Accountant's Financial Report of Agreed-Upon Procedures for the Beaumont Basin Watermaster
Recommendation:	That the Watermaster Committee receive and file the Independent Accountant's Financial Report for the period ending June 30, 2024.

The Beaumont Basin Watermaster engaged the services of Rogers, Anderson, Malody & Scott to perform an independent financial review of the Watermaster activities for the fiscal year ending June 30, 2024. The independent financial review was conducted under the same terms and scope as the prior fiscal year.

At the beginning of the 2023-24 fiscal year, the Beaumont Basin Watermaster had an unrestricted net position of $324,597. During the fiscal year, the Watermaster collected $197,730 in revenues and expended $462,303. As of June 30, 2024, the Watermaster had unrestricted net position of $60,024.

The following illustration provides a summary of the annual revenues and expenses of the Beaumont Basin Watermaster since its formation in 2004.



Rogers, Anderson, Malody & Scott, LLP
735 E. Carnegie Drive, Suite 100
San Bernardino, CA 92408

We are providing this letter in connection with your agreed-upon procedures to the Beaumont Basin Watermaster's (the Watermaster) solely to assist the Yucaipa Valley Water District (the District) and the Watermaster in evaluating certain amounts reported in the Watermaster Schedules (Schedules) 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 for the same period.

We confirm, to the best of our knowledge and belief, as of August 7, 2024, the following representations made to you during your engagement:

1. The District, the Watermaster, and its member agencies are responsible for complying with the Rules and Regulations and the Judgment Pursuant to Stipulation Adjudicating Groundwater Rights in the Beaumont Basin. We are also responsible for the amounts recorded as assessments and expenses of the Watermaster.

2. We are responsible for establishing and maintaining effective internal controls over the requirements of the Rules and Regulations and Judgment Pursuant to Stipulation Adjudicating Groundwater Rights in the Beaumont Basin.

3. We have performed an evaluation of the Watermaster's compliance with the Rules and Regulations and the Judgment Pursuant to Stipulation Adjudicating Groundwater Rights in the Beaumont Basin. Based on our evaluation, we have complied with the Rules and Regulations and the Judgment Pursuant to Stipulation Adjudicating Groundwater Rights in the Beaumont Basin.

4. We have agreed to the procedures performed which were provided to us in your letter dated July 10, 2024 and agree they are appropriate for their purpose.

5. We have disclosed to you all known noncompliance, if applicable, with the Rules and Regulations and the Judgment Pursuant to Stipulation Adjudicating Groundwater Rights in the Beaumont Basin.

6. We have provided you with access to all relevant information and access, as applicable, that we believe are relevant to the compliance with the Rules and Regulations and the Judgment Pursuant to Stipulation Adjudicating Groundwater Rights in the Beaumont Basin.

7. There have been no matters contradicting any information provided or communications from regulatory agencies, internal or external auditors, or other independent accountants or consultants regarding possible noncompliance with the Rules and Regulations and the Judgment Pursuant to Stipulation Adjudicating Groundwater Rights in the Beaumont Basin including communications received between July 1, 2023 and August 7, 2024.

8. We have responded fully to all inquiries made to us by you during the engagement.

9. We are not aware of any material misstatements in either of the schedules.

10. Your report is solely for the information and use of the Beaumont Basin Watermaster and its members and is not intended to be and should not be used by anyone other than those specified parties.

11. We understand that your agreed-upon procedures engagement was conducted in accordance with attestation standards established by the American Institute of Certified Public Accountants and was designed for the purpose of reporting your findings in regards to the subject matter described above, and that your procedures were limited to those that you considered necessary for that purpose.

12. No material events have occurred subsequent to August 7, 2024 that would require adjustment to or modification of our report issued.

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

735 E. Carnegie Dr. Suite 100
San Bernardino, CA 92408
909 889 0871 T
909 889 5361 F
ramscpa.net

PARTNERS
Scott W. Manno, CPA, CGMA
Leena Shanbhag, CPA, MST, CGMA
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)

MANAGERS / STAFF
Seong-Hyea Lee, CPA, MBA
Evelyn Morentin-Barcena, CPA
Veronica Hernandez, CPA
Laura Arvizu, CPA
John Maldonado, CPA, MSA
Jula Rodriguez Fuentes, CPA, MSA
Demi Hite, CPA
Jeffrey McKennan, CPA
Monica Wysocki, CPA

MEMBERS
American Institute of Certified Public Accountants
PCPS The AICPA Alliance for CPA Firms
Governmental Audit Quality Center
California Society of Certified Public Accountants

Proud Member of AlliottGlobalAlliance™

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.

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.

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	$ 60,024
Total assets	60,024
Liabilities	
Accounts payable	-
Net position	
Unrestricted	$ 60,024

Exhibit B

Beaumont Basin Watermaster
Schedule of Revenues and Expenses
(Unaudited)
For the year ended June 30, 2024

Revenues	
Assessments	$ 197,665
Interest	65
Total revenues	197,730
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	19
Total expenses	462,303
Change in net position	(264,573)
Unrestricted net position, beginning of year	324,597
Unrestricted net position, end of year	$ 60,024

ITEM VII-D

BEAUMONT BASIN WATERMASTER
MEMORANDUM NO. 25-14

Date: April 2, 2025

From: Joseph Zoba, Treasurer

Subject: Consideration of the Watermaster Budget for Fiscal Year 2025-26

Recommendation: That the Watermaster Committee approve the budget for Fiscal Year 2025-26 and invoice each committee member $9,935 for administrative expenses.

The Treasurer of the Beaumont Basin Watermaster sends invoices to Watermaster Committee members when one of the following events occur: (1) the Watermaster Committee approves a task order; (2) the Watermaster Committee approves a special project; (3) when a budget is approved to replenish the anticipated administrative funds for the year; or (4) when the administrative funds have been depleted.

OPERATING EXPENSES:	Account Number	Year-To-Date Expenses (1/31/2025)	Recommended Budget for Fiscal Year 2025-26
Bank Fees & Interest	5000	-$12	-$75
Miscellaneous & Meeting Expenses	5010	$0	$0
Annual Audit	5040	$2,250	$2,250
Legal Expenses - Special Project	- -	- -	- -
Legal Expenses	5070	$14,376	$27,500
Reserve Funding	5080	$0	$20,000
Special Project – Engineering	- -	$0	$0
Special Project - Litigation	- -	$0	$0
Total Operating Expense		**$16,614**	**$49,675**

Based on the anticipated expenses incurred by the Beaumont Basin Watermaster for FY 2024-25, the financial contribution needed for each member agency will be $9,935 for routine administrative expenses. Throughout the year, the Watermaster will send invoices to Watermaster Committee members when task orders are approved at Watermaster Committee meetings.

ITEM VII-E

BEAUMONT BASIN WATERMASTER

MEMORANDUM NO. 25-15

Date:	April 2, 2025
From:	Hannibal Blandon, ALDA Inc.
Subject:	2024 Consolidated Annual Report and Engineering Report - Presentation of Draft Report
Recommendation:	None. Presentation only; no action required

ALDA Inc., in Association with Thomas Harder & Company, will make a formal presentation of the draft of the 2024 Beaumont Basin Consolidated Annual Report and Engineering Report. The presentation will include the conditions of the basin including groundwater production, water levels, spreading, water transfers, and water quality that occurred during CY 2024. In addition, the Operating Safe Yield estimate for CY 2024 will be discussed.

Committee members will have the opportunity to ask questions and comment on the various sections of the report and presentation. Additionally, members of the Committee will have the opportunity to review the draft report and submit comments at a later date.

Documented comments will be addressed at the June 2025 regular meeting.

The Draft 2024 Consolidated Annual Report and Engineering Report is available online from the "Documents & Publications" section of the Beaumont Basin Watermaster website:

https://beaumontbasinwatermaster.org/home-2/documents-and-publications/

Beaumont Basin Watermaster

2024 Consolidated Annual Report and Engineering Report

DRAFT

2024 Watermaster Board

Art Vela, City of Banning, **Chairman**
Dave Armstrong, South Mesa Water Company, **Vice Chairman**
Daniel Jaggers, Beaumont Cherry Valley Water District, **Secretary**
Joseph Zoba, Yucaipa Valley Water District, **Treasurer**
Vacant, City of Beaumont

Frost Brown Todd LLC, **Legal Counsel**
Thomas Harder & Company in Association with ALDA Inc., **Engineering**
Dudek, **Administrative Support**
Rogers, Anderson, Malody, and Scott. LLP, **Financial Auditors**

April 2025

ALDA Inc.
5928 Vineyard Avenue
Alta Loma, CA 91701
Tel: (909) 587-9916
Fax: (909) 498-0423

April 2nd, 2025

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 2024**

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 2024. This draft report summarizes all production, spreading, water rights issues, and storage activities that took place during Calendar Year 2024. The documentation of storage conditions and the Basin Operating Safe Yield for 2024 could not be included by the time of this report. It will be provided and documented in the final report.

This draft report presents an evaluation of water quality conditions for all domestic wells in the basin during the 2020-2024 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 2nd, 2025. 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

Table of Contents

Section 1 Background 1-1
1.1 History of the Beaumont Basin Stipulated Judgment 1-1
1.2 Essential Elements of the Judgment 1-2
1.3 2022 Legal Rulings Relating to the Judgment 1-3
1.4 Watermaster Responsibilities 1-3
1.5 Watermaster Address 1-5
1.6 Watermaster Website 1-5
1.7 Mission Statement 1-5

Section 2 Watermaster Activities 2-1
2.1 Makeup of the Watermaster Committee 2-1
2.2 Watermaster Accomplishments and Activities During 2024 2-1
2.2.1 Watermaster Meetings 2-1
2.2.2 Watermaster Committee Resolutions 2-2
2.2.3 Items Discussed in 2024 2-2
2.2.4 Redetermination of Safe Yield 2-13
2.3 Storage Applications and Agreements 2-13
2.4 Rules and Regulations 2-14
2.5 Active Party List 2-15
2.6 Financial Management 2-15
2.6.1 Budget 2-15
2.6.2 Financial Audit 2-16

Section 3 Status of the Basin and Administration of the Judgment 3-1
3.1 Climate, Hydrology and Hydrogeology 3-1
3.1.1 Climate 3-1
3.1.2 Surface Water Hydrology 3-2
3.1.3 Hydrogeology 3-2
3.1.3.1 Regional Geologic Context 3-2
3.1.3.2 Faults 3-2
3.1.3.3 Groundwater Occurrence and Flow 3-3
3.2 Production 3-3
3.2.1 Appropriative Party Production 3-3
3.2.2 Overlying Party Production 3-4
3.2.3 2003-2023 Annual Production Summary 3-5
3.3 Groundwater Recharge 3-6
3.3.1 State Water Project Water Recharge 3-6
3.3.2 Treated Wastewater Recharge 3-7
3.3.3 New Yield Stormwater Recharge 3-8
3.4 Water Transfers and Adjustments of Rights 3-8

3.4.1 Transfers between Appropriators 3-9
3.4.2 Transfers from SGPWA 3-9
3.4.3 Transfers of Overlying Rights for Service by an Appropriator 3-9
3.4.4 Allocation of Unused Overlying Water 3-11
3.5 Appropriator's Production Right 3-12
3.6 Storage Accounting 3-13
3.6.1 Annual Storage Consolidation 3-13
3.7 Groundwater Level Monitoring Program 3-14
3.8 Changes in Groundwater Levels in the Beaumont Basin 3-15
3.8.1 Analysis of Groundwater Level Changes 3-15
3.8.2 Analysis of Change in Groundwater Storage 3-16
3.9 Operating Safe Yield 3-16
3.10 Certification of Groundwater Production and Imported Water Use During Water Year 2024 3-17
3.11 Recommendations 3-18

Section 4 Water Quality Conditions 4-1
4.1 Comparison with Management Zone Objectives 4-1
4.1.1 Total Dissolved Solids 4-1
4.1.2 Nitrate as N 4-3
4.1.3 Nitrate Studies in the Beaumont Management Zone 4-4
4.1.3.1 Summary of Wildermuth Environmental Inc. Study 4-4
4.1.3.2 Summary of University of California, Riverside Study 4-5
4.2 Comparison with Federal and State Drinking Water Standards 4-7
4.2.1 Nitrate (as NO_3) and Total Dissolved Solids (TDS) 4-8
4.2.2 Trace Metals 4-8
4.2.3 Organic Compounds 4-11
4.2.4 pH 4-11
4.2.5 Turbidity 4-12
4.3 Historical TDS Concentrations in the Beaumont, Singleton, and South Beaumont Basins 4-12
4.4 Historical Nitrate (as N) Concentrations in the Beaumont, Singleton, and South Beaumont Basins 4-12

Section 5 Land Subsidence 5-1

List of Figures

Figure 3-1 Annual Precipitation with Cumulative Departure from the Mean (2000-2024)..3-20
Figure 3-2 Geology of the Beaumont Basin.....3-21
Figure 3-3 Well Locations in the Beaumont Basin 3-22
Figure 3-4 Annual Production by Appropriators and Overlying Users (2004-24) 3-23
Figure 3-5 City of Banning - Supply Sources and Storage Account (2003-24) 3-24
Figure 3-6 BCVWD - Supply Sources and Storage Account (2003-24) 3-25
Figure 3-7 SMWC - Supply Sources and Storage Account (2003-24) 3-26
Figure 3-8 YVWD - Supply Sources and Storage Account (2003-24).....3-27
Figure 3-9 Beaumont Basin - Supply Sources and Storage Account (2003-24) 3-28
Figure 3-10 Groundwater Storage by Agency/User as of 2024 3-29
Figure 3-11 Accumulation of Storage by Appropriator for the 2015-2024 10-Yr Period 3-30
Figure 3-12 Monitoring Wells in the Beaumont Basin 3-31
Figure 3-13 Groundwater Contours in the Beaumont Basin – Winter 2023 3-32
Figure 3-14 Groundwater Contours in the Beaumont Basin – Winter 2024 3-33
Figure 3-15 Groundwater Level Trends at Key Wells 3-34
Figure 3-16 Change in Groundwater Elevation – 2023-2024.....3-35
Figure 3-17 Change in Groundwater Elevation – October 2023 to October 2024.....3-36
Figure 4-1 Wells with Groundwater Quality Data in the Beaumont Basin Area 4-13
Figure 4-2 Total Dissolved Solids in Groundwater (Max Concentrations 2020-24).....4-14
Figure 4-3 Nitrate in Groundwater (Maximum Concentrations 2020-24).....4-15
Figure 4-4 Noble Creek Area – Historical Total Dissolved Solids Concentrations.....4-16
Figure 4-5 East of Marshall Creek – Historical Total Dissolved Solids Concentrations.....4-17
Figure 4-6 Banning Area – Historical Total Dissolved Solids Concentrations 4-18
Figure 4-7 West of Noble Creek – Historical Total Dissolved Solids Concentrations 4-19
Figure 4-8 Northwest Area – Historical Total Dissolved Solids Concentrations 4-20
Figure 4-9 Singleton Basin – Historical Total Dissolved Solids Concentrations 4-21
Figure 4-10 South Beaumont Basin – Historical Total Dissolved Solids Concentrations.....4-22
Figure 4-11 Noble Creek Area – Historical Nitrate Concentrations.....4-23
Figure 4-12 East of Marshall Creek – Historical Nitrate Concentrations 4-24
Figure 4-13 Banning Area – Historical Nitrate Concentrations.....4-25

Figure 4-14 West of Noble Creek – Historical Nitrate Concentrations 4-26
Figure 4-15 Northwest Area – Historical Nitrate Concentrations.....4-27
Figure 4-16 Singleton Basin – Historical Nitrate Concentrations 4-28
Figure 4-17 South Beaumont Basin – Historical Nitrate Concentrations.....4-29

List of Tables

Table 3-1A Appropriator Producer – Summary of Production for Calendar Year 2020 3-37
Table 3-1B Appropriator Producer – Summary of Production for Calendar Year 2021 3-38
Table 3-1C Appropriator Producer – Summary of Production for Calendar Year 2022 3-39
Table 3-1D Appropriator Producer – Summary of Production for Calendar Year 2023 3-40
Table 3-1E Appropriator Producer – Summary of Production for Calendar Year 2024 3-41
Table 3-2A Overlying Producer – Summary of Production for Calendar Year 2020.....3-42
Table 3-2B Overlying Producer – Summary of Production for Calendar Year 2021.....3-43
Table 3-2C Overlying Producer – Summary of Production for Calendar Year 2022.....3-44
Table 3-2D Overlying Producer – Summary of Production for Calendar Year 2023.....3-45
Table 3-2E Overlying Producer – Summary of Production for Calendar Year 2024.....3-46
Table 3-3 Production Summary for Appropriator and Overlying Producers in the Beaumont Basin - 2015 through 2024 Calendar Year Accounting.....3-47
Table 3-4 Annual Supplemental Recharge to the Beaumont Basin – Calendar Years 2003-2024 3-48
Table 3-5 City of Beaumont Wastewater Treatment Plant – Monthly Discharges 2007-2024..... 3-49
Table 3-6 Overlying Parties Production Rights Allocation Based on Revised Safe Yield.3-50
Table 3-7 Summary of Unused Overlying Water and Allocation to Appropriators 3-51
Table 3-8 Appropriator's Production Right 3-52
Table 3-9 Consolidation of Storage Accounts 3-53
Table 3-10 Annual Supplemental Recharge to the Beaumont Basin – Water Year 2024 ..3-54
Table 4-1 Nitrate (NO_3) and TDS Summary for Domestic Wells (2020-24) 4-9

Appendices

Appendix A	Resolutions Adopted During CY 2024
Appendix B	Minutes for the Regular and Special Committee Meetings held in CY 2024
Appendix C	Active and Interested Party List
Appendix D	Fiscal Year 2023-24 Audit Letter
Appendix E	Production Estimation Methods for Unmetered Overlying Producers
Appendix F	Supporting Documentation Provided by YVWD on February 11, 2025 as part of the Transfer of Overlying Rights from OVP to YVWD for CY 2024
Appendix G	GAMA Water Quality Analysis Summary (2020-2024) for Drinking Water Production Wells

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 2024 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 2024. 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 2024 Legal Rulings Relating to the Judgment

There were no legal rulings relating to the Judgment during CY 2024.

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 7, 2024 Regular meeting of the Beaumont Basin Watermaster, the current Watermaster Committee Officers were re-affirmed to their respective positions for 2024 as follows:

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

The Watermaster Representatives serving each Appropriative Party at the end of CY 2024 were as follows:

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

Legal counsel during CY 2024 was provided by Frost Brown Todd LLC, represented by Keith McCullough and 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 2024

2.2.1 Watermaster Meetings

A total of five regular meetings were held during CY 2024 on the following dates:

- ✓ February 7, 2024
- ✓ August 7, 2024
- ✓ December 4, 2024
- ✓ June 5, 2024
- ✓ October 2, 2024

In addition, there were five Special Meetings during CY 2024 on the following dates:

- ✓ January 10, 2024
- ✓ April 17, 2024
- ✓ September 4, 2024
- ✓ March 6, 2024
- ✓ July 10, 2024

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 was one resolution adopted by the Watermaster Committee during CY 2024. Resolution 2024-01. A copy of this resolution is included under Appendix A to this report.

The Resolution adopted during CY 2024 is described as follows:

- ✓ ***Resolution No. 2024-01*** – A Resolution of the Beaumont Basin Watermaster Adopting the Final 2023 Reevaluation of the Beaumont Basin Safe Yield Report and Redetermining the Safe Yield of the Basin for the Period of 2023 to 2032 Effective December 4, 2024.

2.2.3 Items Discussed in 2024

This section is a summary of topics addressed at Watermaster meetings during CY 2024. 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 B. Official meeting minutes may also be accessed at the Beaumont Basin Watermaster website: www.beaumontbasinwatermaster.org

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

Items Discussed During January 10, 2024 Special Watermaster Committee Meeting

The following discussion items were addressed during this workshop

- ✓ *A – Update on the Safe Yield Determination.* Thomas Harder reported that they are still in the calibration phase of the numerical model.
- ✓ *B – Watermaster Goal for the Basin.* Undesirable results for the basin and modeling scenarios to evaluate undesirable results were discussed.
- ✓ *C – 40,000 AF Storage Depletion on the West Side of the Beaumont Basin.*

Discussion for Items B and C was as follows:

Mr. Harder discussed the need to develop benchmarks and criteria for Basin management. He reviewed the Sustainable Groundwater Management Act and explained the three most applicable to the basin; chronic lowering of groundwater levels, reduction of groundwater storage, and degraded groundwater quality. To test the boundaries of the Basin without causing undesirable results, Mr. Harder noted, hypothetical situations with extreme conditions may be modeled. These are unlikely, but plausible scenarios necessary to establish a basis for identifying significant and unreasonable results and provide a planning tool for future projects and management actions.

The concept of conceptually developing safe yields for each side of the basin was discussed as well as the need to build a recharge basin on the west side. Mr. Harder noted that if current conditions continue under extreme hydrology, results will be bad for that portion of the basin. He further noted that using in-lieu recycled water is one of the best ways to mitigate groundwater level decline in that portion of the basin.

Mr. Harder shared a number of hypothetical extreme scenarios to help characterize and evaluate undesirable results in the basin and asked for input from Appropriators. Mr. Stuart suggested that ranking the different scenarios by probability and starting the evaluation with the scenario most likely to occur, and adding steps to get an understanding of what it takes to get to an undesirable condition.

D - Management of Storage Accounts

E - Identify Next Steps

Mr. Stuart developed graphs for each Appropriator comparing Temporary Surplus to Annual Pumping and develop tables reorganizing the listing of the parameters that factor into the Appropriator's Production Right calculation. Committee members discussed if there was a need to keep track of the various buckets of water in the basin and determined the order of use. Mr. Stuart indicated there does not seem to be a benefit to identify which bucket of water is being used for production.

Mr. Stuart suggested a revision of the Rules and Regulations to avoid future questions on this issue. Chair Vela agreed and said he would be interested in what changes would be proposed and what Committee members would want.

- ✓ ***Items Discussed During February 7, 2023 Regular Watermaster Committee Meeting***
  - ✓ *Reorganization of the Beaumont Basin Watermaster Committee – Chair, Vice Chair, Secretary, and Treasurer [Memorandum 24-02].* Member Jaggers motioned to reaffirm the current state of officers for 2024. Motion was second by Mr. Zoba and approved unanimously.

- ✓ *Consideration to Retain Dudek to Provide Professional Services to Review and Update the Rules and Regulations of the Beaumont Basin Watermaster [Memorandum 24-03].* Member Jaggers recalled a brief discussion at the last meeting and the recommendation of legal counsel to revise and modernize the Rules and Regulations. Membre Jaggers moved to approve the contract for $15,000; motion was second by Member Zoba. Motion was approved unanimously.

- ✓ *Potential Incorporation of a Process and Categorization of Water Production for the Annual Report. [Memorandum 24-04].* Mr. Stuart presented the categories of water production and posited that there does not appear to be a benefit to assigning categories for accounting for the buckets of water. Member Zoba agreed and suggested it would be helpful to include in the Annual Report as it provides transparency. Member Armstrong indicated that he was apprehensive about how far this may go. After much discussion, Member Jaggers suggested each agency examine the data and recommended to table this item to the next meeting.

- ✓ *Update of the Safe Yield Reset of the Beaumont Basin [Memorandum 24-05].* Mr. Harder reviewed the requirements for redetermination of the safe yield and provided history. He discussed calibration of the model, assumptions, forecasts, and advised that the preliminary recommendation is 7,000 ac-ft/yr. to 7,100 ac-ft/yr. for the next 10 years.

  Member Jaggers asked if there was a level of confidence in the reliability of the current model. Mr. Harder discussed the model and Mr. Eckhart added some factors for consideration such as the new groundwater sustainability agency on the east side of the Basin. Mr. Harder indicated that modeling is complete, and it is now a matter of determining the number and reiterated the recommendation. Member Jaggers reiterated the recommendation of contacting the overliers. Mr. Harder concluded by indicating a Technical Memorandum was being prepared and would be sent out as a draft with the 7,100 ac-ft/yr. safe yield.

- ✓ *Basin Management Scenarios [Memorandum 24-06].* In response to a question about estimates of the leakage from the Basin toward Cabazon, Mr. Harder said there is a loss paper dated 2017 but does not include a specific number. He further reminded about discussion of significant and unreasonable Basin conditions; he indicated that the goal would be to establish a basis for developing significant and unreasonable conditions, and provide a planning tool to avoid them. At his request, Committee members discussed the potential of establishing Basin management areas. After substantive discussion, member Zoba recommended pumping the brakes on this discussion and taking a fresh look at the next workshop. Other members agreed.

- ✓ *Update on Development of Data Management System.* Chair Vela tabled this item to the March 6, 2024 meeting.

Items Discussed During March 6, 2024 Special Watermaster Committee Meeting

A - Discussion of Process and Categorization of Water Sources in Annual Report and Use of Different Types of Storage Accounts. Mr. Blandon reminded the Committee about

the discussion on the categorization of water sources and the consensus there was no need to differentiate, as water comes from the same storage account. He introduced a draft subsection showing Tables 3-8 and 3-9 and reviewed their content in detail.

The Committee discussed:

- Could the BBWM purchase water from the SGPWA
- Adjudication was not established to allow harm to another entity
- Levy / penalty for a storage account going negative
- Collection of fees in an escrow account
- Intention of the Judgment to make the Basin whole
- Committee for accounting purposes
- Management actions that could be taken to maintain Basin in balance

B - Discussion on Management Areas. Mr. Stuart reviewed proposed management areas recognizing physical features and constraints affecting groundwater flow and jurisdictional boundaries. He proposed four management areas driven by jurisdictional boundaries and he also presented a division into two areas based on hydrogeologic study areas. He noted that the approach for the management areas is to break it down to try to understand better what is going on. Mr. Stuart indicated that it is a matter of looking deeper into the causes and potential issues to help address the decline as overall production far exceeds the Safe Yield on the west side of the Basin.

Member Zoba indicated that if the west portion of the basin is to be managed, impacts need to be understood. Agencies are not coordinating their actions, he noted. There should be an area of control where activities are identified and tied together to link activity and results.

Mr. Stuart concluded that he would work with Mr. Harder in calculating water budgets for each of the proposed study areas.

C - Update on Data Management System. Mr. Palavido advised the Committee that there is a Quick Start Guide on how to access the system. Before the next meeting he will enter additional data and create a function for members to enter their own data.

D - Identify Next Steps. No discussion took place on this topic.

Items Discussed During April 17, 2024 Special Watermaster Committee Meeting

- ✓ *Certification of Groundwater Production and Imported Water Use during Water Year 2023. [Memorandum 24-09].* Mr. Blandon indicated that this is the first time production is being reported on a water year basis, but the numbers in the Annual Report are provided on a calendar year basis. He presented the figures for the water year. Member Zoba asked the purpose of sending out the Annual Report if the figures would be different based on water year vs. calendar year. Mr. Blandon suggested that including an

explanation of the difference may suffice. Members suggested reporting figures on both the calendar year and water year basis.

Member Jaggers motioned to certify groundwater production, imported water spreading, and change in storage for WY 2023. Motion was second by Member Armstrong. Motion was approved on a 5-0 vote.

✓ *Presentation of Draft 2023 Consolidated Annual and Engineering Report [Memorandum 24-10].* Mr. Blandon presented highlights of the draft report including

- Resolutions passed during CY 2023
- Approved Budget in 2023-2024
- Historical Precipitation
- Groundwater production by Appropriator totaled 12,709 ac-ft
- Groundwater production by Overlying totaled 1,518 ac-ft
- Imported water spreading totaled 20,393 ac-ft
- Discharges from the City of Beaumont WWTP totaling 3,790 ac-ft
- 2018 conversion of underproduction by Overliers totaled 4,480 ac-ft
- Conversion of Overlying Rights to Appropriative Rights totaling 478.25 ac-ft
- Additions to storage totals12,642 ac-ft
- Storage at the end of CY 2023 totals 108,790 ac-ft
- 2023 allocation of unused Overlying water right to 2028 is 4,704 ac-ft
- The Operating Safe Yield for 2023 is estimated at 5,297 ac-ft
- No primary water quality standards were exceeded

Discussion ensued regarding documentation of the transfers from Oak Valley Partners to YVWD in 2023. Member Jaggers suggested adding further discussion to a workshop agenda. Counsel Montoya clarified that the water has been transferred with finality; he noted that there can be no ambiguity.

Mr. Blandon requested comments on the draft by May 17, with presentation of the final Report at the June 5 meeting for approval.

✓ *Update on Technical Memorandum on 2023 Safe Yield Redetermination [Memorandum 24-11].* Mr. Van de Water reported that a working draft is in progress with the intent of including it in the June 5 agenda packet.

✓ *Discussion on Developing Policy to Document and Account for Emergency Potable Water Transfers from Appropriator to Overlying Party. [Memorandum 24-12].* Mr. Stuart explained by BCVWD received a letter from the Morongo Band of Mission Indians requesting a temporary transfer in lieu of ware served provided by BCVWD. He noted

that this is a different case than the permanent transfer of water rights and it should be addressed in the Rules and Regulations. Member Jaggers provided detail on the emergency service. Legal Counsel Montoya voiced concern about acting outside of the ambit of the Judgment indicated that it is problematic and the BBWM does not have the authority, and it could set precedent. He advised not to develop new forms or changes to the Rules and Recommendations until it is determined that the action is within the ambit of the BBWM authority. Chair Vela tabled the item for future discussion.

- ✓ *Update on Revising and Modernizing the BBWM Rules and Regulations [Memorandum 24-13].* Mr. Stuart requested clarification and direction from the Committee on a number of issues including a) Beaumont Basin Water Resources Management Plan, b) Statement of Investment Policy, c) Standard Form of Intervention, and d) Application for Recapture. Mr. Stuart shared a table of items that have been identified for revision.

- ✓ *Consideration of Special Meetings and Workshops [Memorandum 24-14].* Member Jaggers motioned to add workshops in July 10 and September 4. Motion was approved unanimously.

Items Discussed During June 5, 2024 Regular Watermaster Committee Meeting

- ✓ *Consideration of the Watermaster Budget for Fiscal Year 2024-25 [Memorandum 24-16].* Member Zoba explained that all participating members share in the cost. He indicated that the fiscal budget includes administrative items, including bank fees, the annual audit and legal expenses. The budget for FY 2025 was $29,675.00. Member Armstrong moved to approve the budget, seconded by Member Jaggers. Budget was approved unanimously.

- ✓ *2023 Consolidated Annual Report and Engineering Report [Memorandum 24-17].* Mr. Blandon presented a summary of comments received on the draft report. He indicated that a new section was created in the annual report to document the production of groundwater and imported water deliveries during Water Year 2023. He further noted that comments were provided by BCVWD and the City of Banning; no comments were provided by YVWD, SMWC, and the City of Beaumont.

  BCVWD's main concern was the absence of documentation of water services provided by YVWD to specific parcels as a result of the OVP transfers. Mr. Blandon requested clarification from the Committee. Member Jaggers noted that the accounting of parcels served should be provided, even if the service was below the amount previously transferred. Member Zoba noted that the annual report documents conditions in the basin for the year and that there was no transfer of Overlying Water Right from OVP to YVWD in 2023, and so the 2023 report being silent was reflective of this. To satisfy Member Jaggers' concern, Member Zoba proposed that the report include a statement that confirms no additional Overlying Water Right was transferred to YVWD from OVP in 2023. Member Jaggers moved to approve the report by including the additional statements. Motion was seconded by Member Armstrong and approved unanimously.

- ✓ *Update on the Safe Yield Reset of the Beaumont Basin [Memorandum 24-18].* Mr. Harder presented an update on the Safe Yield Redetermination and noted that an uncertainty analysis was conducted by looking at different combinations of parameters in the basin and analyzed multiple realizations. He indicated that TH&C recommends that the Safe Yield be adjusted to 7,100 ac-ft/yr for the next 10-year period. Member Zoba requested that a table be included in the report documenting how Overlying Water Rights are affected by the change in the Safe Yield. Member Jaggers noted that the draft report should be shared with the Overlyers for their review before the Watermaster adopts the change in Safe Yield. A 45-day review period was proposed.

- ✓ *Update on Revising the BBWM Rules and Regulations [Memorandum 24-19].* Mr. Stuart presented an update on revising the Rules and Regulations including a red-lined version showing the edits and a clean version. He added new definitions and discussed proposed changes to Section 2.13 and Section 4.3. He posed a question to the Committee on the definition of Stored Water and indicated that Form 7 needed to be eliminated, or a completely different Form 7 should be created. He further noted that Form 8 should be used to document transfer of water between Appropriators. Mr. Eckhart noted that Section 4.3 is concerning as Supplemental Water is lost before Basin Water. Mr. Eckhart does not recommend the Watermaster adopt full scale changes without going through a transparent process that works through the issues with the region's water managers. Mr. Stuart provided a timeline for receiving comments from the Committee on the recommended revisions.

- ✓ *Analysis of Future Hydrogeologic Scenarios Using the Model [Memorandum 24-20].* Mr. Harder noted from previous meetings the discussion on undesirable results and presented a proposal for three scenarios to be evaluated. He requested feedback from members of the Committee. Mr. Eckhart wanted to make sure that all projects to increase artificial recharge to the Basin be considered in these scenarios.

- ✓ *Consideration of Amendment to Task Order No. 4 for Preparation and Attendance at Special Committee Meetings [Memorandum 24-21].* Mr. Harder requested additional funds to prepare for and participate in three additional special meetings. Moved by Member Zoba and seconded by Member Jaggers, the request for additional funding was approved unanimously.

- ✓ *Update on Annual Water Budget Analysis for Proposed Beaumont Basin Study Areas.* Mr. Harder noted that he completed a water budget for the West Beaumont study area and the East Beaumont study area. According to modeling results of a water budget for the west side indicated an average annual loss of 789 ac-ft/yr in storage. Conversely, the average annual change in storage in the east side is estimated at a positive 4,396 ac-ft/yr. Member Zoba inquired about the losses to the east of the Basin, and how we need to account for these losses and that supplemental water may be what is lost prior to native water.

Items Discussed During July 10, 2024 Special Watermaster Committee Meeting

- ✓ *Posting of Online Meeting Video Recordings to the Watermaster Website [Memorandum No. 24-22].* Moved by Member Armstrong and seconded by Member Vela, the posting of meeting video recordings to the Watermaster website was approved unanimously.

- ✓ *Update on Safe Yield Redetermination Technical Report [Memorandum 24-23].* Mr. Harder indicated that comments on the Tech Memo are being addressed. The Committee had requested a table showing how the new Safe Yield would look in terms of Overlying Rights, and it was included in the packet. Moved by Member Swanson and seconded by Member Armstrong to table a number of items in the report to a future meeting was approved unanimously.

- ✓ *Discussion on Basin Losses.* This item was tabled.

- ✓ *Discussion on Annual Budget Analysis for Proposed Beaumont Basin Study Areas.* This item was tabled.

- ✓ *Discussion on Evaluating Future Hydrogeologic Scenarios Using the Model.* This item was tabled.

Items Discussed During August 7, 2024 Regular Watermaster Committee Meeting

- ✓ *Update on the Safe Yield Determination Technical Report [Memorandum 24-24].* Mr. Harder reminded that a draft report was submitted for review last May. Dudek provided 41 comments; most of the comments were incorporated into the draft final report; those not addressed were noted in the comment letter. Mr. Harder indicated that a table showing allocation of Overlying Parties Production Rights was included in the draft report.

- ✓ *Update on Revising the BBWM Rules and Regulations Recommendations [Memorandum 24-25].* Mr. Stuart indicated that Section 2.13 Interveners was removed from the Rules and Regulations. With regards to Section 4.3, Losses or Spills from the Basin, he reminded that these issues needed to be better understood. Member Jaggers noted that determining which water was pumped first could become muddied by the nuances of extraction vs. replenishment. He recommended a balanced solution to make sure that players were not adversely affected. Mr. Eckhart cautioned about economically disincentivizing from imported water use.

- ✓ *Revisions to the 2013 Annual Report and Revisions to the 2023 Consolidated Annual Report and Engineering Report [Memorandum 24-*26]. Mr. Blandon pointed out that the 10-year periods of the Safe Yield redetermination are inconsistent with the annual reports since 2013. Member Zoba posited that there is compliance with the Judgment which says Safe Yield redetermination at least every 10 years but is silent about the application of the redetermined Safe Yield. He recommended stating in the next resolution the effective date of the new Safe Yield.

Legal Counsel Montoya stated that the Watermaster has been acting consistent with its obligations under the Judgment and within its discretion. He further stated that the 2023 Annual Report will stand as approved.

- ✓ *Discussion of Basin Losses.* Mr. Harder indicated that natural basin losses are accounted for in the Safe Yield estimates, but imported water stored in the Basin is not. He recommended the technical team revisit the 2018 basin loss analysis to see how it dovetails with the model analysis stress test and revise the scope of work.

  A discussion ensued on the difference in basin losses between the west and east side and the need to maintain the health of the basin as the most important thing. Mr. Harder noted that there are currently no undesirable results in the Basin and the groundwater levels are relatively stable in most areas. Member Jaggers emphasized reasonable balance in the Basin while Mr. Eckhart pointed out that the model will become more sophisticated with time. He further noted that there is a potential to balance the basin by doing just a few things such as moving water from the mound area by partnering with corresponding agencies.

- ✓ *Discussion on Evaluating Future Hydrogeologic Scenarios Using the Model.* Mr. Harder indicated that the purpose would be to use the groundwater flow model to develop a plausible range of hydrogeological conditions to stress the Basin and determine environmental results. Mr. Harder described the proposed scope of work with recommended incorporation of the loss analysis. Mr. Eckhart suggested consideration of period of drought and local hydrology in addition to imported water delivery capability. He encouraged the current management actions and noted those along with a good monitoring program is where the Watermaster needs to be. Chair Vela agreed that it is important to parcel out the things that the BBWM is required to do and those that the Committee is electing to do in order to have the right information to make data-driven decisions.

Items Discussed During September 4, 2024 Special Watermaster Committee Meeting

- ✓ *Update on Distribution of Safe Yield Redetermination Technical Report to Overliers [Memorandum 24-27].* Member Jaggers indicated that staff had worked to verify and update the List of Overliers and Interested Parties. He noted that On or about August 26-27, a total of 44 communications were sent via email or regular mail with comments requested by September 16.

- ✓ *Update on New US Geological Survey (USGS) Monitoring Wells in Coordination with the San Gorgonio Pass Water Agency (SGPWA) [Memorandum 24-28].* Mr. Stuart described the proposed monitoring sites. He noted that USGS would finalize the locations and install equipment in the second or third quarter of 2025.

- ✓ *Proposal from Thomas Harder and Co. to Investigate Basin Losses and Evaluate Future Hydrogeologic Scenarios of the Beaumont Basin [Memorandum 24-29].* After presenting the SOW by Mr. Van de Water (TH&Co.), the discussion focused on needs from the

model/analysis and assurance of accurate data. Mr. Eckhart noted that the SOW inputs do not reflect reality and cautioned against a modeling exercise of multiple scenarios that do not reflect the imported water supply. Member Zoba emphasized identifying what questions are to be answered that would lead to a policy on how to manage the losses. He recommended reducing the SOW to consider only two or three scenarios for losses and stress analysis and review the results. After much discussion on the limitations of the presented SOW, the Committee requested the consultant bring back a proposal to tackle the loss question.

- ✓ *Proposal to Renew Annual ESRI Subscriptions and Services for the Beaumont Basin Data Management System [Memorandum 24-20].* Mr. Stuart indicated that the original subscription was for one year and now the licenses have expired. He noted that the proposal was to renew the licenses and labor hours to manage the Data Management System. Moved by Member Zoba and seconded by Member Jaggers, the proposal to renew the ESRI licenses was approved unanimously with SMWC absent.

- ✓ *Scheduling of Future Special Meetings [Memorandum 24-31].* Special meeting dates were set for January 15, 2025 and March 5, 2025 at 11:00 AM. Moved by Member Jagger and seconded by Member Zoba, the schedule was approved unanimously with SMWC absent.

Items Discussed During October 2, 2024 Regular Watermaster Committee Meeting

- ✓ *Update on the Redetermination of the Safe Yield in the Beaumont Basin [Memorandum 24-32].* Mr. Harder indicated that comments were received on the draft report submittal. He noted that a table was added indicating how the 7,100 ac-ft/yr. was to be allocated among Overliers with the report made available to them in August and comment addressed. The final report will be included in the December 4, 2024 meeting agenda for approval.

- ✓ *Analysis of Beaumont Basin Storage Losses Using the Model [Memorandum 24-33].* Mr. Harder discussed the analysis presented, scope of work and cost estimates to evaluate significant and unreasonable impacts in the Basin. He indicated that the scope of work was revised and is in the meeting packet and proceeded to review questions to be answered with the analysis.

- ✓ *Approval of Costs and Work of Thomas Harder & Co. for Preparation of Data in Response to California Publi Records Act Request [Memorandum 23-34].* Mr. Harder explained the request for files from the City of Beaumont related to an analysis of San Timoteo Creek and discharges from the wastewater treatment plant. He noted that while he would be happy to provide the data, the model is not setup to do what the City is asking.

  Member Zoba expressed concern that the request for data is for areas outside of the Basin. Member Jaggers suggested a disclaimer from legal counsel. Counsel Montoya noted that if the City if asking for something outside of BBWM jurisdiction, there is no

obligation to provide it; he further noted that he was not comfortable producing records of data outside the Basin. Motioned by Member Jaggers and seconded by Member Vestal to approve the proposal from TH&Co. for preparation of data in response to California Public Records Act was approved on a 3-1-0 vote with Member Zoba on the negative and Chair Vela absent.

- ✓ *Discussion on Proposed Revisions to the Rules & Regulations [Memorandum 24-35].* Mr. Stuart presented proposed modifications to the Rules and Regulations including adjustment of Overlying water rights as a result of the redetermination of the safe yield, and further adjustment if the Overlier transfers a water right to an Appropriator. He also addressed Negative Storage Accounts and Accounting for Basins Losses. He noted that these will be addressed in further public meetings.

Items Discussed During December 4, 2024 Regular Watermaster Committee Meeting

- ✓ *Consideration of Thomas Harder & Co. Proposal to Investigate Basin Losses from the Beaumont Basin [Memorandum 24-36].* Mr. Harder reminded the Committee of past discussion and direction on the item. A brief discussion ensued on comments received from SGPWA. Moved by Member Zoba and seconded by Member Jaggers, the motion to approve the proposal was approved unanimously.

- ✓ *Update on City of Beaumont Request for Files related to the Beaumont Basing Numerical Model [Memorandum 24-37].* Mr. Harder noted the earlier report from Legal Counsel Montoya and stated the indemnification letter has been sent to the City for signature. The files are compiled and ready for release as soon as the letter is signed.

- ✓ *Consideration to Retain Dudek to Provide Professional Administrative and Technical Support Services to the Beaumont Basin Watermaster in Calendar Year 2025 [Memorandum 24-38].* Mr. Dudek presented a proposal for CY 2025 services. Moved by Member Jaggers and seconded by Member Zoba, the extension of the contract was approved unanimously.

- ✓ *Task Order No. 8: Thomas Harder & Co. Proposal for 2025 Engineering Services and Preparation of the 2024 Annual Report [Memorandum 24-39].* Mr. Harder presented a proposal for the work to be conducted in CY 2025 in conjunction with ALDA. Moved by Member Jaggers and seconded by Member Zoba, the motion was approved unanimously.

- ✓ *Adoption of Resolution 2024-01 Adopting the Final 2023 Reevaluation of the Beaumont Basin Safe Yield Report and Redetermination of the Safe Yield of the Beaumont Basin, and Authorization for Submittal to the Court [Memorandum 24-40].* Mr. Harder indicated the report was included in the agenda packet and posted on the website. Member Jaggers expressed appreciation for the work done and said it reflects well on the historical and future management of the basin. Moved by Member Jaggers and seconded by Member Zoba, the motion to Adopt Resolution 2024-01 was approved unanimously.

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 1st, 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, on 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 and being reviewed in its entirety. Proposed revisions were presented at several Board meetings throughout 2024. This revision process continued into CY 2025 with a final revision to be accepted during this calendar year.

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 C.

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 2024 operations.

2.6.1 Budget

Final expenses for Fiscal Year 2022-23 were $293,303.21, significantly lower than final expenses for Fiscal Year 2023-24 at $464,238.00 The budget for Fiscal Year 2024-25 was approved at June 6, 2024 Watermaster Committee regular meeting under Memorandum 24-

16. The approved budget provided funding for operating expenses in the amount of $29,675.00. The approved budget is significantly lower than the final expenses for the previous two years. The approved budget 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 2022-23, final expenses for FY 2023-24, as well as the approved budget for FY 2024-25.

Operating Expense	*FY 2022-23 Final Expenses*	*FY 2023-24 Final Expenses*	*FY 2024-25 Approved Budget*
Administrative Expenses			
Bank Fees and Interest	$ -71.49	$ -46.00	$ -75.00
Miscellaneous & Meeting Expenses	$ 0.00	$ 17,260.00	$ 0.00
Acquisition/computation & Annual Report	$ 86,682.50	$ 0.00	$ 0.00
Annual Audit	$ 1,550.00	$ 2,000.00	$ 2,250.00
Legal Expenses	$ 18,067.00	$ 25,066.00	$ 27,500.00
Reserve Funding	$ 0.00	$ 0.00	$ 0.00
Engineering	$ 150,700.00	$ 0.00	$ 0.00
Monitoring and Data Acquisition	$ 36,375.20	$ 44,768.00	$ 0.00
	$ 293,303.21	**$ 89,048.00**	**$ 29,675.00**
Special Project Expenses			
Engineering	$ 0.00	$ 375,190.00	$ 0.00
Litigation	$ 0.00	$ 0.00	$ 0.00
	$ 0.00	**$ 0.00**	**$ 0.00**
Total Operating Expense	**$ 293,303.21**	**$ 464,238.00**	**$ 29,675.00**

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 D.

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. This Consolidated Annual and Engineering Report for CY 2024 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 16.77 inches over the 100-year period between 1925 and 2024. On average during this 100-year period, 11.75 inches of precipitation, or 70.1 percent of total, fell during the winter months between December and March. Over the last 25 years (2000-2024), precipitation has averaged 13.61 inches of rain which is approximately 81 percent of the 100-year average precipitation. Precipitation during CY 2024 at Station 13 was 14.00 inches, approximately 63 percent of the precipitation recorded in CY 2023 at 22.33 inches. Annual precipitation in CY 2024 represents 83.5 percent of the 100-year average and 102.9 percent of the 25-year average.

Figure 3-1 illustrates annual precipitation at Station 13 for the 25-year reporting period between 2000 and 2024 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. Upper 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, down trending 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 six of these years was below 10 inches

per year. In addition, the second lowest precipitation year ever recorded occurred during this 25-year period.

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 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 within the 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 2020-24) are presented in a series of tables starting with Table 3-1A for CY 2020 and continuing on an annual basis through Table 3-1E for CY 2024. 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 2024, Appropriators pumped a combined amount of 13,546.80 ac-ft of groundwater from the Beaumont Basin (See Table 3-1E). Production for this year was seven percent higher than in CY 2023 when 12,709 ac-ft were pumped. CY 2024 production was 87 percent of the five-year average (2020-24) of 15,660 ac-ft and the second lowest production since CY 2018.

With the exception of SMWC, production by all agencies was higher in CY 2024 than in CY 2023. Production by the City of Banning and BCVWD were ten percent and seven percent higher respectively than the previous year while SMWC produced 19 percent less. Conversely, YVWD produced 11 percent more than in CY 2023.

In mid-2021, YVWD notified Watermaster that they will be using an old irrigation well, known as the Calimesa Irrigation Well, to provide construction water to an industrial development north of Cherry Valley Blvd. Production from this well, now known as the I-10 Logistics well, continued over the first quarter of 2022 and it is listed in Table 3-1B. No production from this well has been reported since; its location is depicted in Figure 3-3.

3.2.2 Overlying Party Production

Overlying Parties are defined in the Judgment as persons, or their assignees, that are part of the Judgment and who are 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 2024.

The remaining wells, operated by smaller producers, did not have meters for some or most of 2024 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 2024 Annual Report uses the updated method as detailed in Appendix E.

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 2020. In a similar manner, Tables 3-2B through 3-2E summarize monthly overlying production for CY 2021 through CY 2024, respectively. In addition, these tables show their share of the Safe Yield and the amount of unused water for each Overlying Party.

During CY 2024, Overlying Producers produced an estimated 1,855.90 ac-ft, 339.2 ac-ft higher than the reported production for CY 2023 of 1,516.70 ac-ft. Compared to the 2020-24 five-year average of 1,877.02 ac-ft, Overlying production in CY 2024 was approximately one percent lower than the average. Production in CY 2024 by Overlying Parties was the third lowest in the last ten years of record.

3.2.3 2003-2024 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 2015 has been extensively documented in earlier annual reports.

Since July 2003, a total of 349,837 ac-ft has been pumped from the Beaumont Basin; an estimated 85.1 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 89.2 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 13,620 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 2024 was slightly higher than in CY 2023 at 15,403 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).

3.3 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. There was no imported water recharge in 2003.

3.3.1 State Water Project Water Recharge

Deliveries of imported water are conducted through the San Gorgonio Pass Water Agency, the State Water Contractor for this area. 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. The location of this recharge facility is depicted in Figure 3-3. 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 that year when 257.80 ac-ft were spread.

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 spread close to 12,000 ac-ft per year on average; however, spreading 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 for groundwater recharge in those two years has been 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 spread 18,000 ac-ft of SWP project water. This was followed by the spreading of 14,000 ac-ft in CY 2024. In total, 145,136 ac-ft of imported water have been spread on behalf of BCVWD since CY 2006, 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 recharged 16,477.2 ac-ft. in accordance with their storage agreement on file with Watermaster. During CY 2012 and 2013, Banning spread an average of 100 ac-ft per month; spreading in CY 2014 and 2015 was reduced to approximately half of that amount. However, spreading in CY 2016 and 2017 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 spread only 250 ac-ft of imported water per year while no spreading took place in CY 2021 and limited spreading in CY

2022. In CY 2023, the City of Banning spread 1,000 ac-ft of imported water; this quantity was increased to 1,500 ac-ft in CY 2024.

In addition to imported water deliveries to BCVWD and the City of Banning at BCVWD's NCRF, SGPWA has also delivered significant quantities of imported water at the Little San Gorgonio Creek Spreading Ponds. These spreading ponds are located outside 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.

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 primarily for BCVWD and the city of Banning; an additional 7,785 ac-ft were spread at this facility during CY 2024. No spreading by SGPWA has taken place at the Little San Gorgonio Creek Spreading Ponds since CY 2016.

3.3.2 Treated Wastewater Recharge

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, 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. It is believed that a portion of the treated wastewater discharged at this location reaches and recharges the Beaumont Basin. 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 have declined over the 2021-2023 three-year period to an annual average of 3,958 ac-ft; in CY 2023 a total of 3,790 ac-ft of treated wastewater was discharged.

Monthly discharges at DP-001 varied slightly in CY 2023 from a low 3.22 mgd in February to a high of 3.53 mgd in August; the average for the year was 3.38 mgd. Monthly treated wastewater discharges by the City of Beaumont since 2007 are summarized in Table 3-5. Monthly discharge information for CY 2024 has been requested from the City, but it is yet to be provided.

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 from individual Overlying producers and compares the latest estimate against actual groundwater production during the 2020-24 five-year period for each user. Annual average groundwater production during this period for all Overlying producers combined was estimated at 1,877 ac-ft/yr; representing approximately 26.4 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 67.2 percent

followed by California Oak Valley Golf and Resort LLC at 59.54 percent. Tukwet Canyon Golf Course and Plantation on the Lake followed at 55.5 percent and 53.9 percent respectively. All other Overliers were below 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 2024.

3.4.2 Transfers from SGPWA

In CY 2021, SGPWA transferred a total of 507.8 ac-ft from its storage account to Appropriators. Of this amount, 60 ac-ft were transferred to the City of Banning and the remaining 447.8 ac-ft to BCVWD. These transfers depleted SGPWA's storage account going into CY 2023; however, the agency added 893 ac-ft of imported water to its account and as of the end of CY 2023 had 893.6 ac-ft in its account. In CY 2024, SGPWA added an additional 701.0 ac-ft into its storage account for a total of 1,594.6 ac-ft in storage in the Basin.

No water transfers from SGPWA to Appropriators were reported during CY 2024.

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. OVPs 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 recission 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 contains a copy of this notice and supporting documentation.

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 2024. 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.

Since 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 2024 were based on unused production from Overlying Users in CY 2019. 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 2024. 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 will result 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 this schedule has been modified to reflect a calendar year basis for allocation. Under the modified schedule, unused Overlying production in CY 2019, estimated at 4,863 ac-ft, was allocated to Appropriators during CY 2024. Unused Overlying production during CY 2024, adjusted by reductions on OVP's rights and the revised reevaluation of the Beaumont Basin Safe Yield is estimated at 4,766 ac-ft. This amount would be allocated to Appropriators during CY 2029.

3.5 Appropriators Production Right

The Appropriator's 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 Judgement, (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 future.

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 to make up their difference.

Table 3-8 presents the Appropriator’s Production Right on an annual basis for each of the Appropriators for the 2003-24 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 from CY 2003 through CY 2024. 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 been taken from storage to meet annual water demands.

At the end of CY 2023, an overall total of 108,789.90 ac-ft of water were stored in the Basin for future use; this total increased in CY 2024 by 9,995.20 ac-ft to a cumulative total of 118,785.10 ac-ft. As a result of the significant amount of imported water from the SWP that was recharged in CY 2023 and again in CY 2024, the amount of water in storage ranks amongst the highest since the 2003 adjudication. The amount of water in storage by party at the beginning and end of CY 2024 is presented below. 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.

Agency / Party to the Judgment	Calendar Year 2024 (ac-ft)		
	Beginning	Ending	Change
City of Banning	47,650.9	49,225.8	1,574.9
BCVWD	32,884.1	38,068.0	5,183.9
City of Beaumont	0.0	0.0	0.0
South Mesa Water Company	10,506.0	10,888.2	382.2
Yucaipa Valley Water District	16,855.3	19,008.6	2,153.2
Morongo Band of Mission Indians	0.0	0.0	0.0
San Gorgonio Pass Water Agency	893.6	1,594.6	701.0
TOTAL in Storage	**108,789.90**	**118,785.1**	**9,995.2**

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).

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

3.8 Changes in Groundwater Levels in the Beaumont Basin

3.8.1 Analysis of Groundwater Level Changes

The discussion of changes in water levels between CY 2023 and CY 2024 could not be completed on time for this draft report. The discussion presented here reflects in part a combination of changes in levels between CY 2022, CY 2023, and CY 2024. This discussion will be fully updated and presented at the June 2024 regular Board meeting.

Changes in groundwater flow and groundwater levels between 2023 and 2024 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) 2023 and winter 2024 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 2023 and 2024 are shown on 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 2022 and 2023.

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 2022 groundwater surface from the 2023 groundwater surface (see Figures 3-13 and 3-14). In the west central portion of the basin (BCVWD 29) groundwater levels are relatively stable. As judged by the highest peaks in the hydrograph, the overall groundwater level trend at this well was relatively stable between winter of 2023 and winter of 2024.

In the northwest portion of the basin (YVWD 34), groundwater levels have shown a downward trend since approximately 2020. In this area, groundwater levels showed declines of as much as two feet between December 2022 and December 2023 (see Figure 3-15). At Moreno Well No. 6, water levels have steadily dropped from 2003 to 2022 at which time they became stable. At Tukwet Canyon Golf Club B, groundwater levels were relatively stable between December 2023 and December 2024.

Groundwater levels in the central portion of the basin, in between the Beaumont Plains Faults, showed no change to slight declines in the range of 0 to -6 feet. Groundwater levels at Oak

Valley No. 1 were relatively stable in 2023 (See Figure 3-15). In prior years, groundwater levels were highly variable in this well and likely influenced by groundwater pumping.

In the northern part of the basin, a groundwater mound developed at the BCVWD Noble Creek recharge site with as much as 53 feet of rise between December 2022 and December 2023 (see Figure 3-16). The rise in groundwater elevation is correlated with an increase in managed recharge at the facility in 2023 (11,172 acre-ft) relative to 2022 (1,812 acre-ft) and 2021 (2,504 acre-ft). An additional 9,220 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.

In the south-central portion of the basin, groundwater levels at BCVWD Well No. 2 showed some seasonal variability over the 2023 year but only changed approximately 3 feet between December 2022 and December 2023. At Banning Well C-4 (southeast Beaumont Basin), groundwater levels increased approximately 22 feet between December 2022 and December 2023. Groundwater levels in other southeast area wells also increased over the same period.

Groundwater levels in the northeast portion of the basin (near USGS Highland Springs Monitoring Well) dropped by approximately four feet between December 2022 and December 2023.

3.8.2 Analysis of Change in Groundwater Storage

Basin-wide change in groundwater storage between December 2022 and December 2023 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 (TH&Co, 2015). Groundwater level change across the basin was analyzed using the following procedure:

- ✓ The winter 2022 and 2023 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 11,500 ac-ft during this one-year period. This increase is associated with above-normal precipitation during the time period and an increase imported deliveries to the Noble Creek Recharge Facilities, relative to previous years.

3.9 Operating Safe Yield

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 overlier 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:

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

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 2024 was 15,403 ac-ft (see Table 3-3). Total artificial recharge in calendar year 2024 was 18,201 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 in groundwater storage could not be estimated in time to be included in this report.** 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:

$$\textbf{OSY} = \frac{\textbf{15,403 + X,XXX – 18,201}}{\textbf{1}} = \textbf{X,XXX ac-ft}$$

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. The Safe Yield is currently being reevaluated.

The OSY for 2023 is likely underestimated. Groundwater level data were not available to estimate the year over year change in groundwater levels at the SGPWA recharge basins where more than 9,000 acre-ft of water was recharged. If these data were available, it is assumed that the change in storage value for the basin, and the OSY estimate, would have been higher.

3-10 Certification of Groundwater Production and Imported Water Use during Water Year 2024

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 2024 begins on October 1st, 2023 and ends on September 30th, 2024. Groundwater production for the first three months of Water Year 2024 (October through December 2023) is documented in Table 3-1 D, Appropriator Producer – Summary of Production for Calendar Year 2023, for Appropriators

and Table 3-2 D, Overlying Producer – Summary of Production for Calendar Year 2023, for Overlying users. Total production for the first three months of Water Year 2024 was as follows:

- ✓ Appropriators: 2,856.90 ac-ft
- ✓ Overlyiers: 401.40 ac-ft

Similarly, Appropriator production during the last nine months of Water Year 2024 (January through September 2024) is documented in Table 3-1 E, Appropriator Producer – Summary of Production for Calendar Year 2024, for Appropriators and Table 3-2-E, Overlying Producer – Summary of Production for Calendar Year 2024, for Overlying users. Total production for this nine-month period was as follows:

- ✓ Appropriators: 9,911.30 ac-ft
- ✓ Overlyiers: 1,480.80 ac-ft

Total groundwater production for WY 2024 from the Beaumont Basin was 14,650.5 ac-ft.

The use of imported water is documented on an annual basis in Table 3-4, Annual Supplemental Recharge to the Beaumont Basin – Calendar Years 2003-2024. Imported water deliveries during Water Year 2024 amounted to 15,387 ac-ft. Monthly deliveries to individual agencies for this water year are presented in Table 3-10.

Change in Storage during Water Year 2024 was estimated at 312 ac-ft. Figure 3-17 displays the change in elevation between October 2023 and October 2024.

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.

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. The following inconsistencies between guidelines provided in this document 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.

- ✓ 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 in 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.

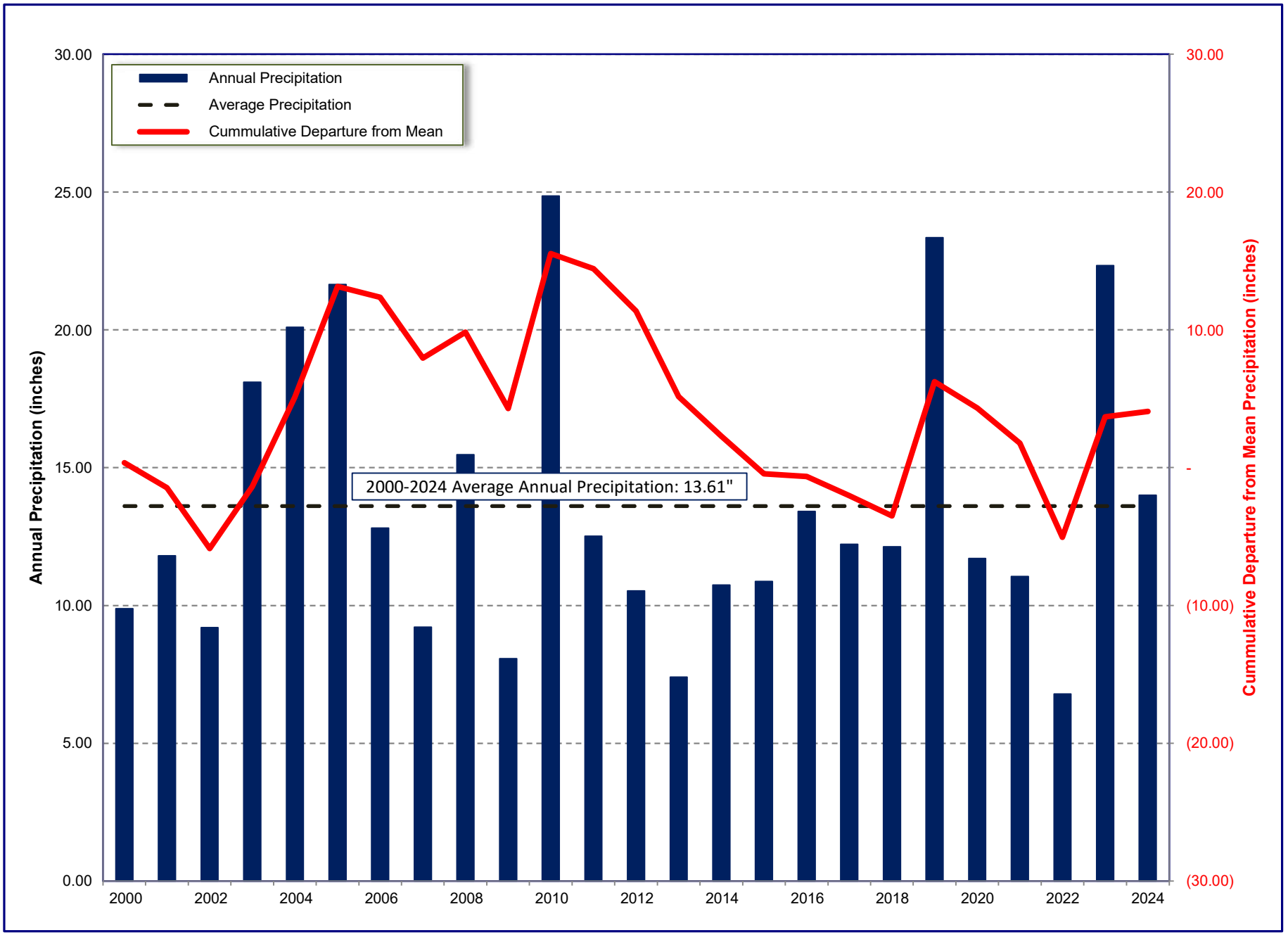
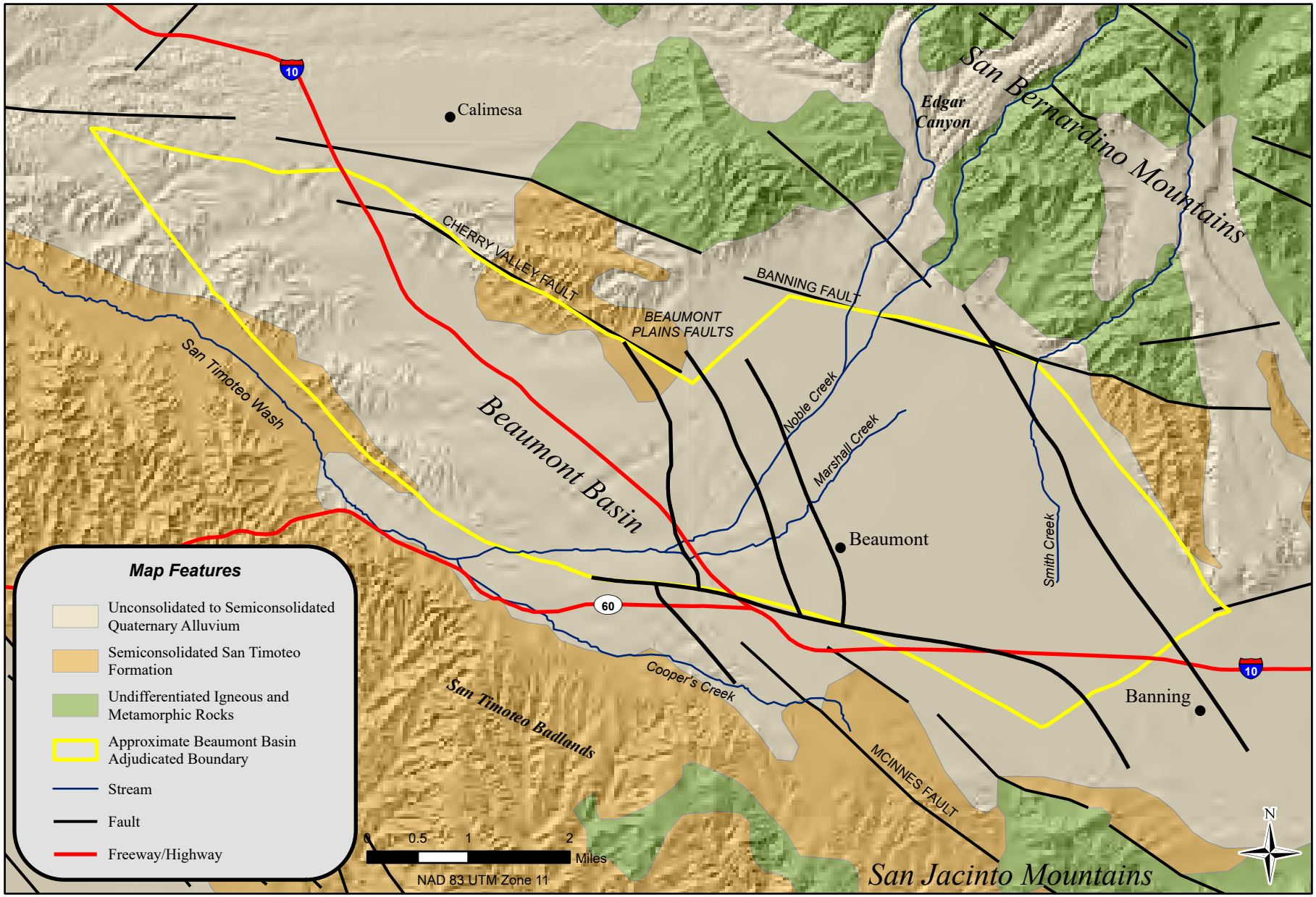


Figure 3-1

Annual Precipitation with Cumulative Departure from the Mean (2000-2024)

DRAFT



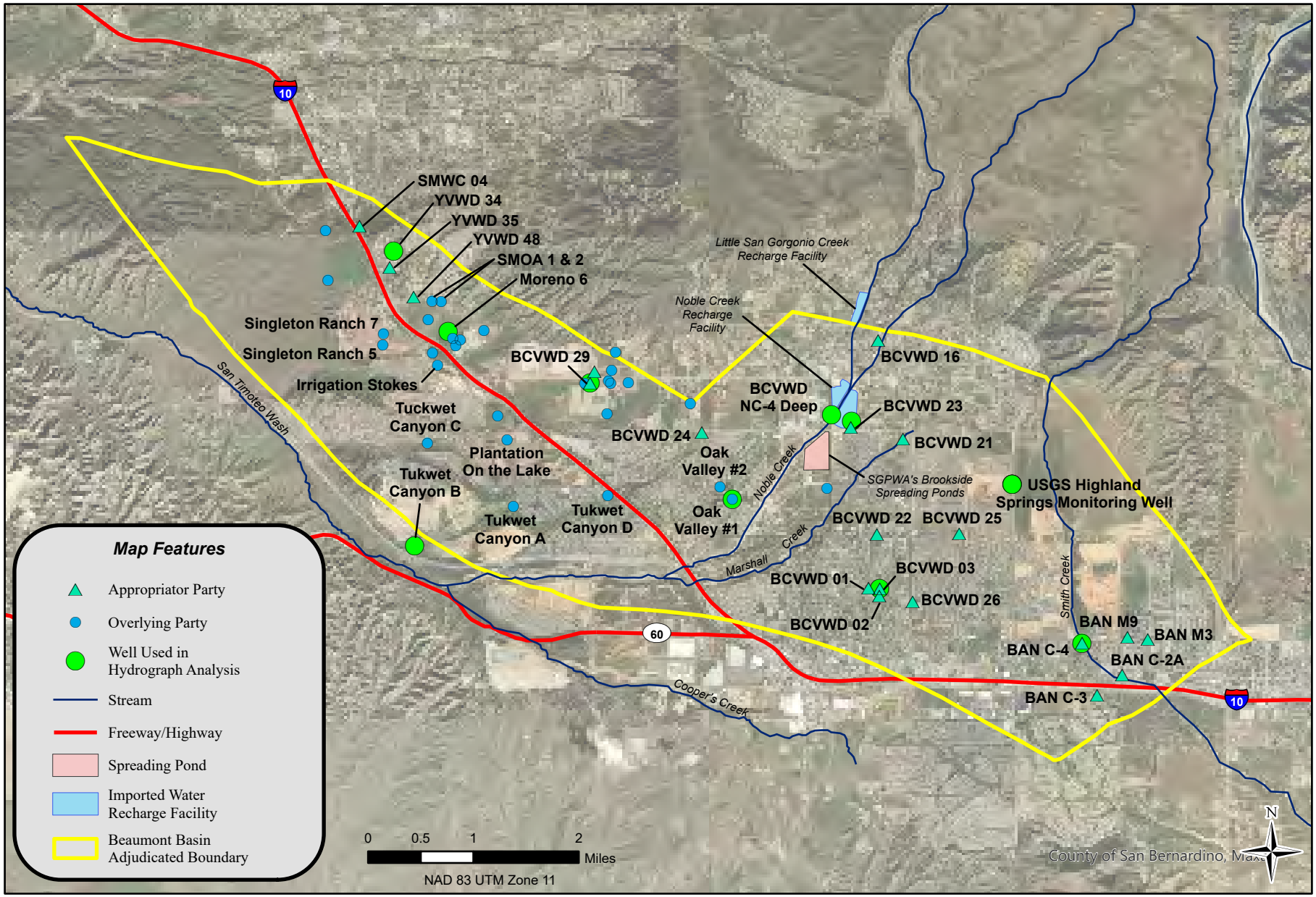
Alda, Inc. *in association with* Thomas Harder & Co. Groundwater Consulting

Geology of the Beaumont Basin

March 2025

Figure 3-2

DRAFT



Alda, Inc. *in association with* Thomas Harder & Co. Groundwater Consulting

March 2025

Well Locations in the Beaumont Basin
Figure 3-3

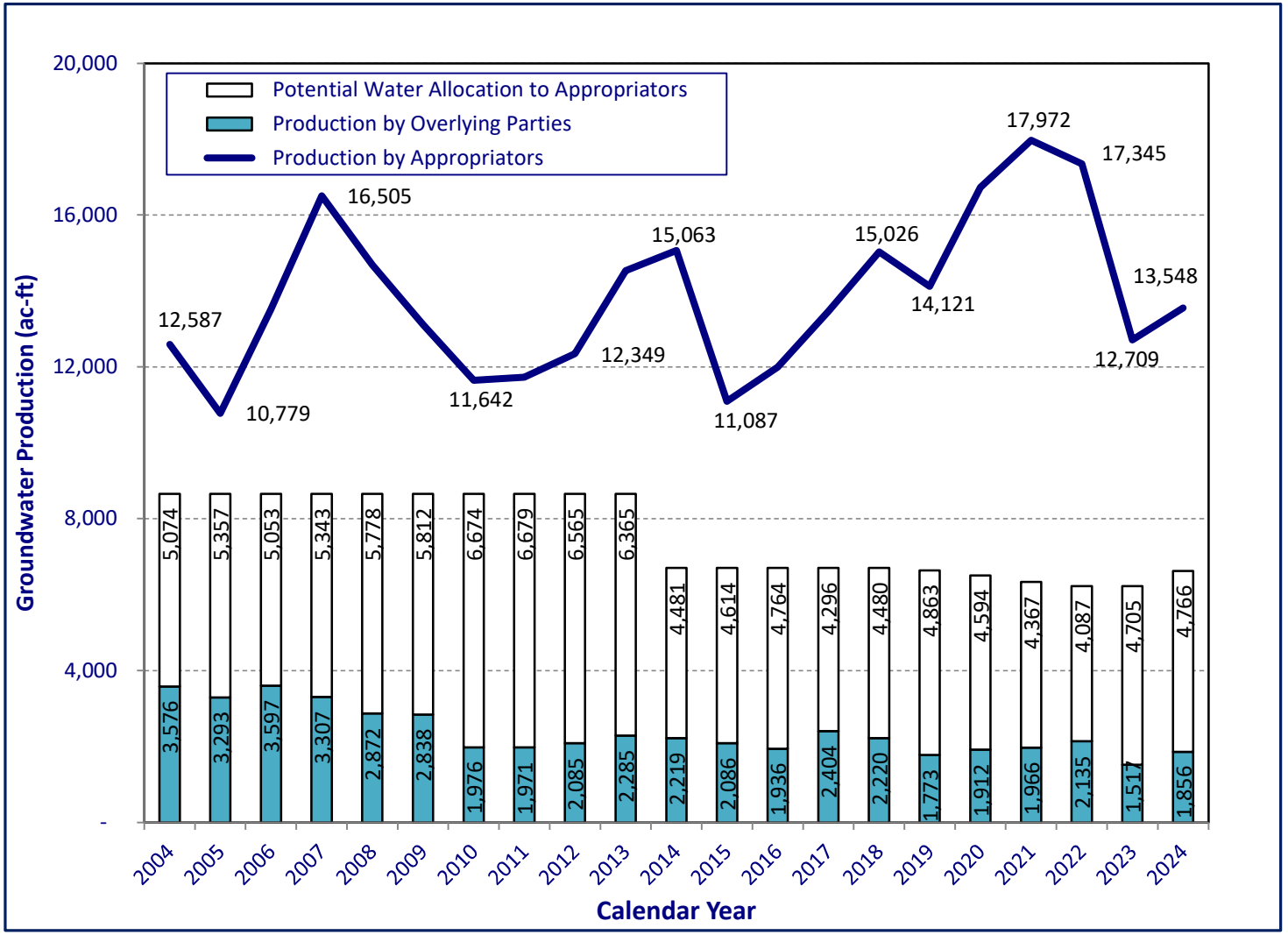


Figure 3-4
Annual Production by Appropriators and Overlying Users (2004-24)

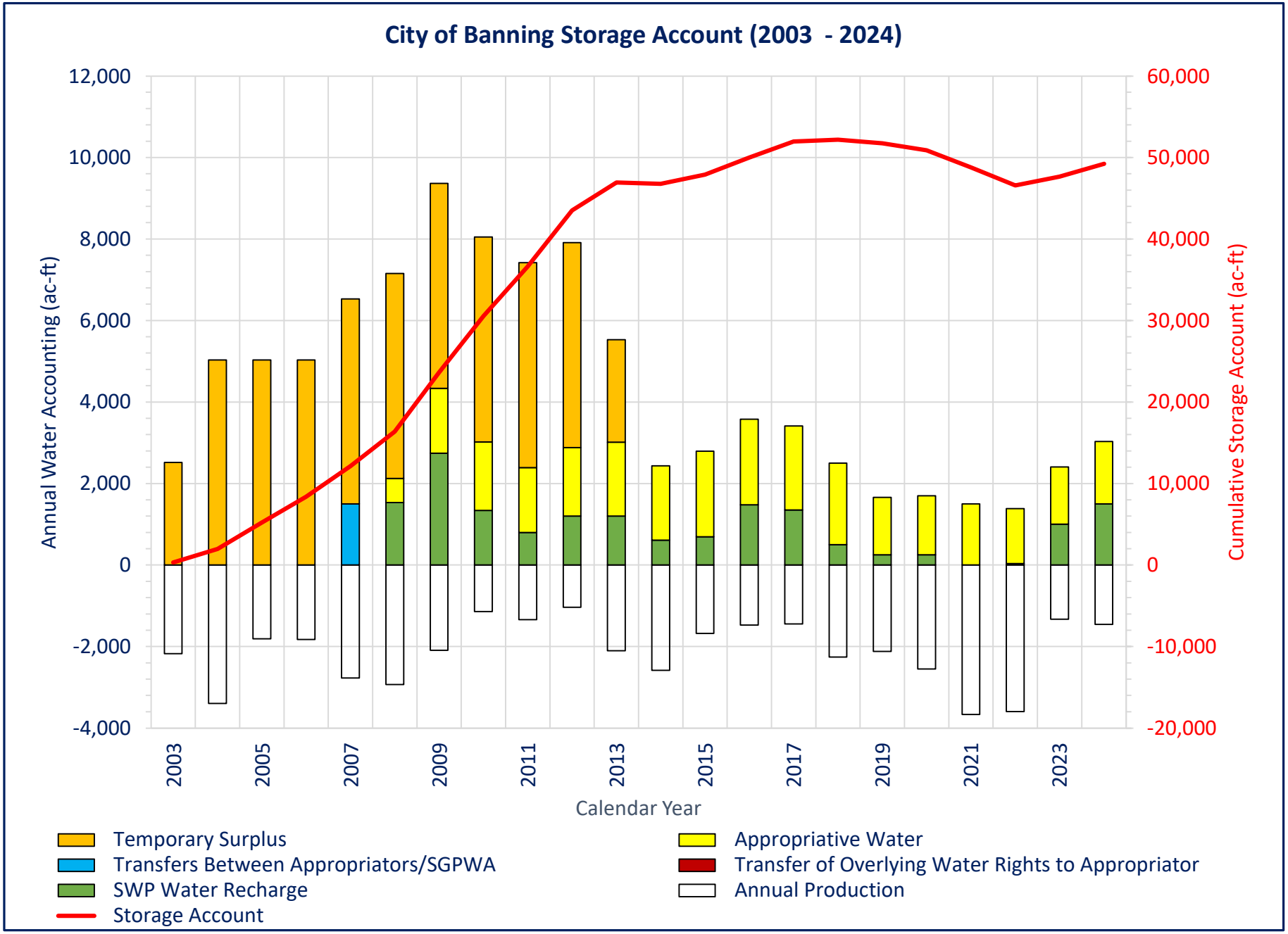


Figure 3-5
City of Banning - Supply Sources and Storage Account (2003-24)

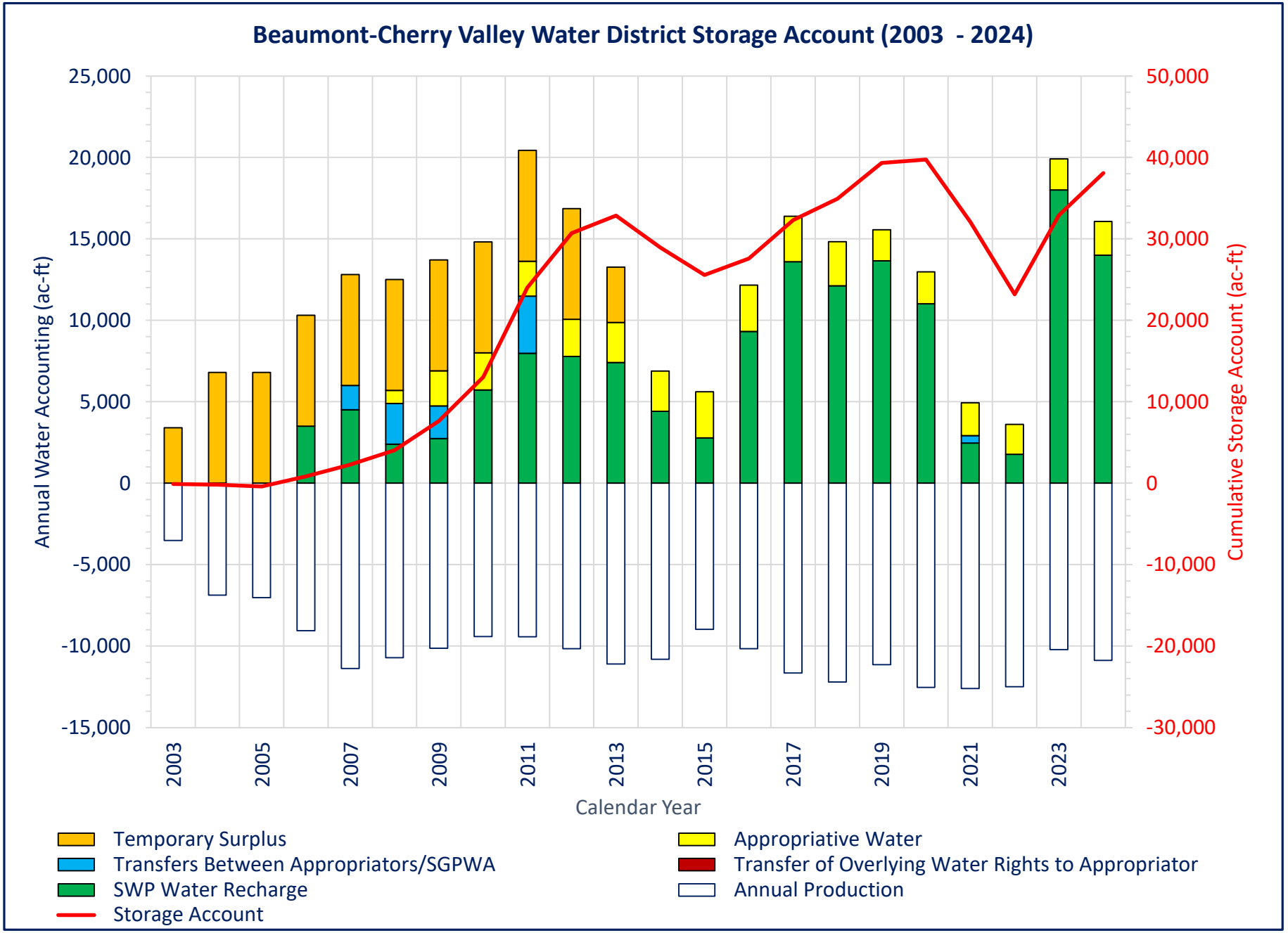


Figure 3-6
BCVWD - Supply Sources and Storage Account (2003-24)

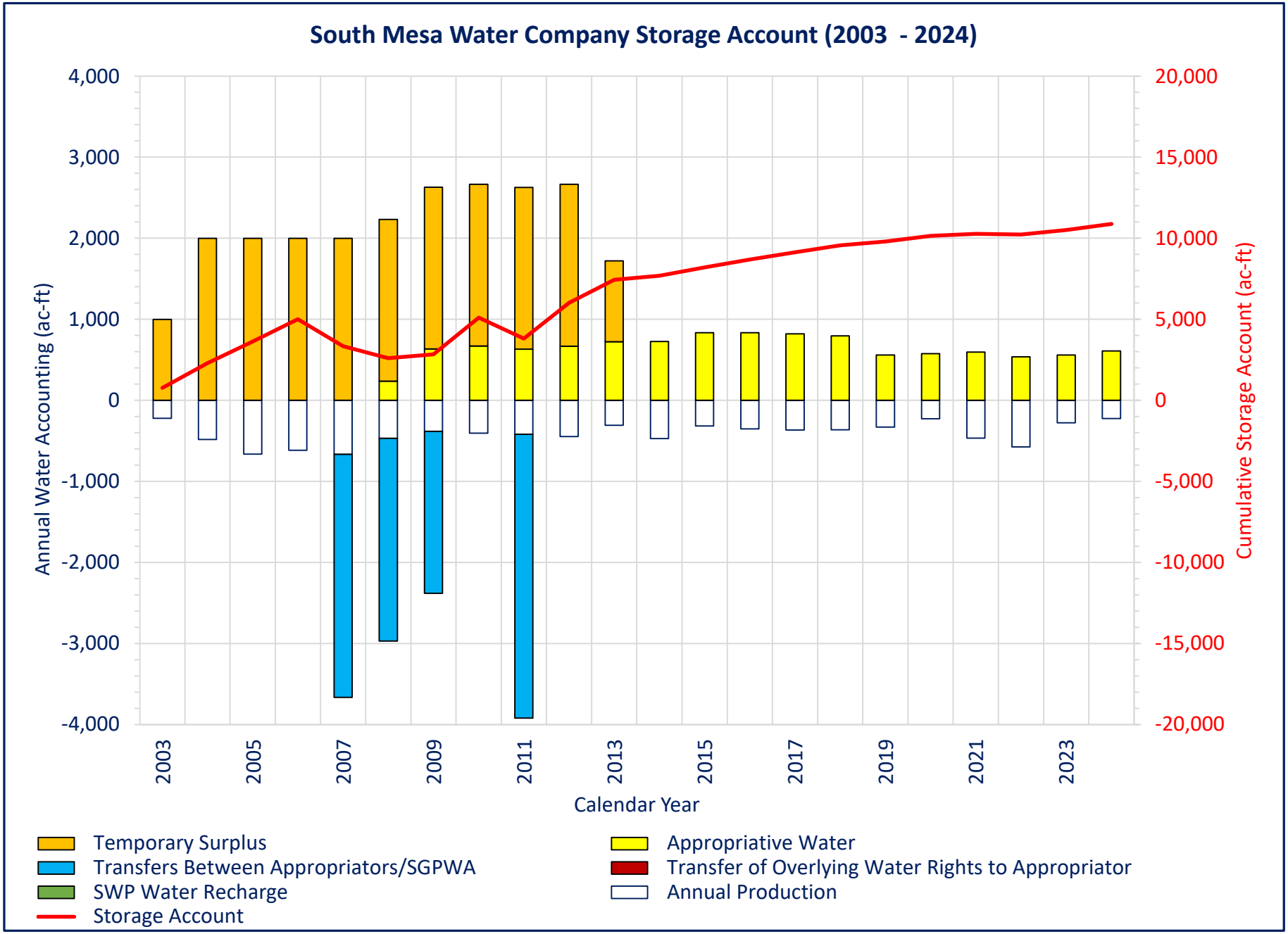


Figure 3-7
SMWC - Supply Sources and Storage Account (2003-24)

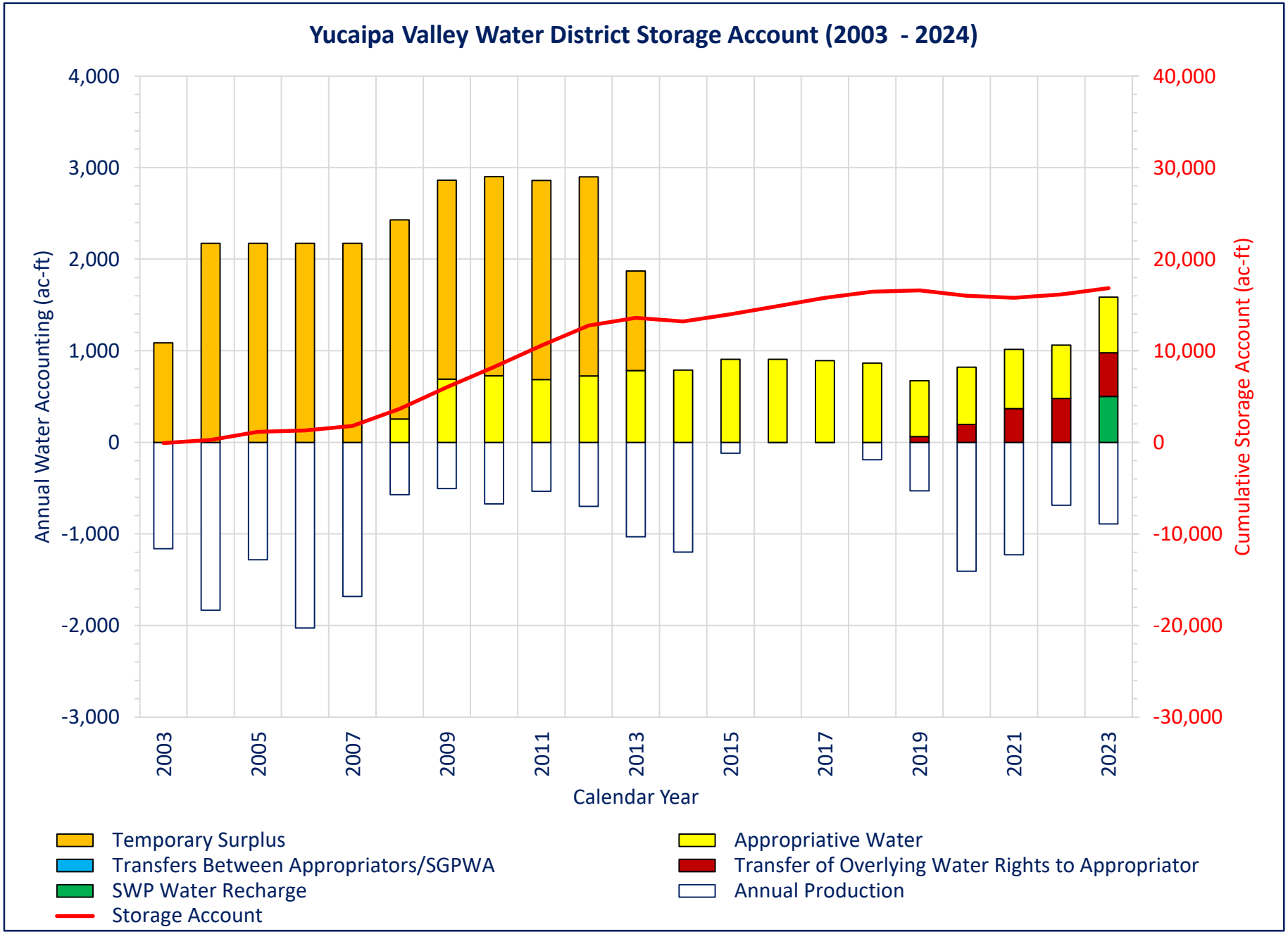


Figure 3-8
YVWD - Supply Sources and Storage Account (2003-24)

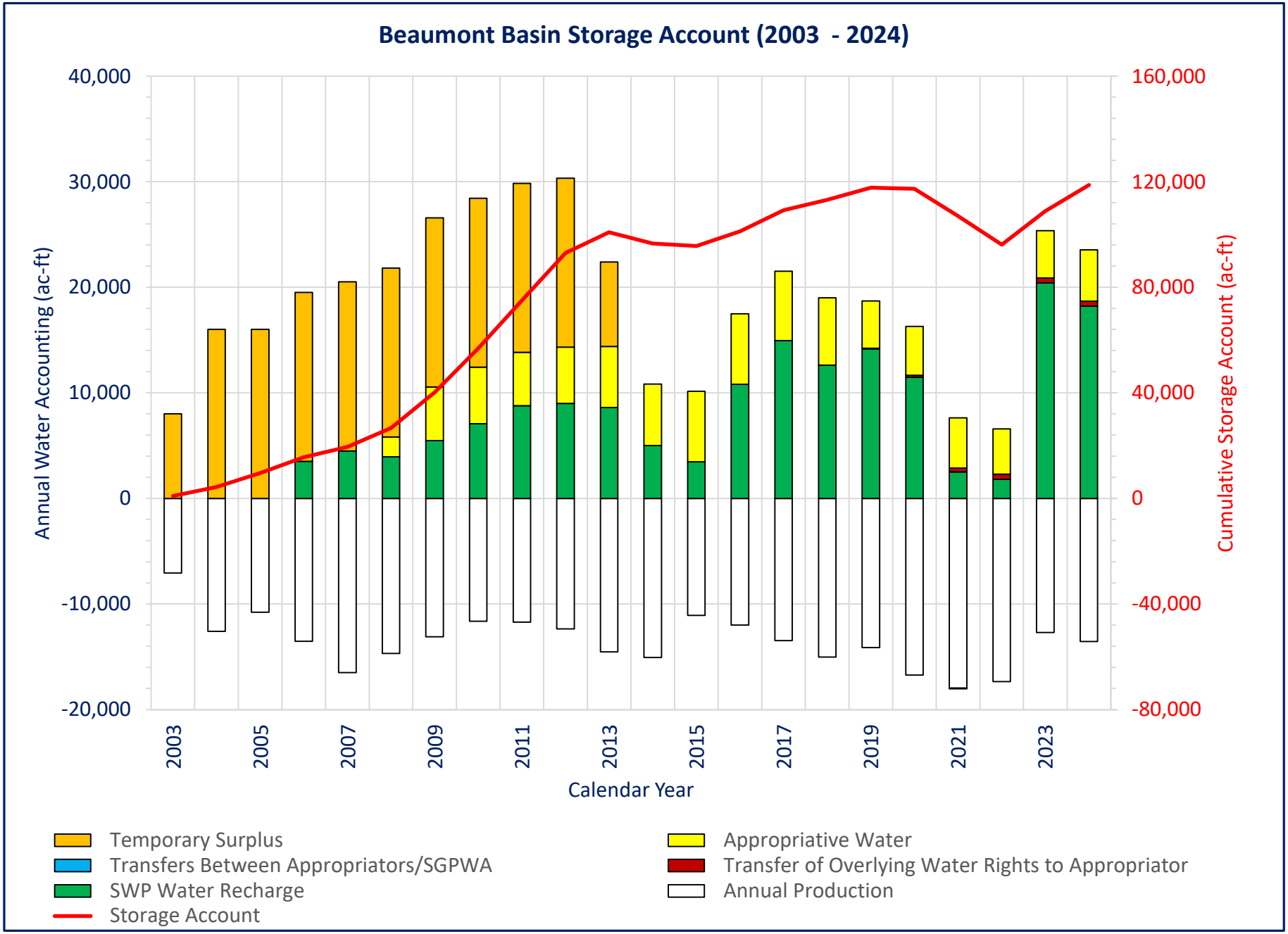


Figure 3-9
Beaumont Basin - Supply Sources and Storage Account (2003-24)

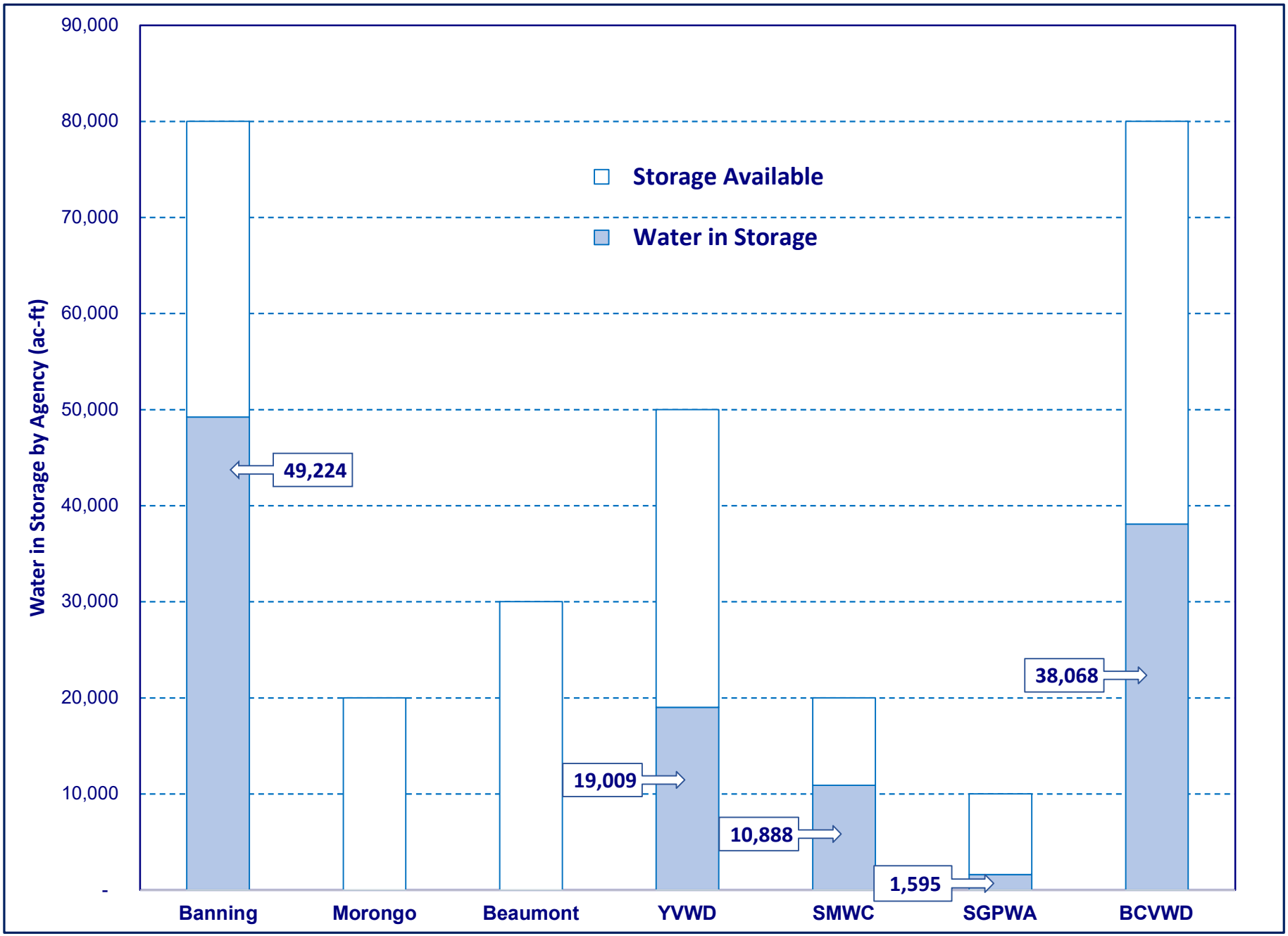


Figure 3-10
Groundwater Storage by Agency/User as of 2024

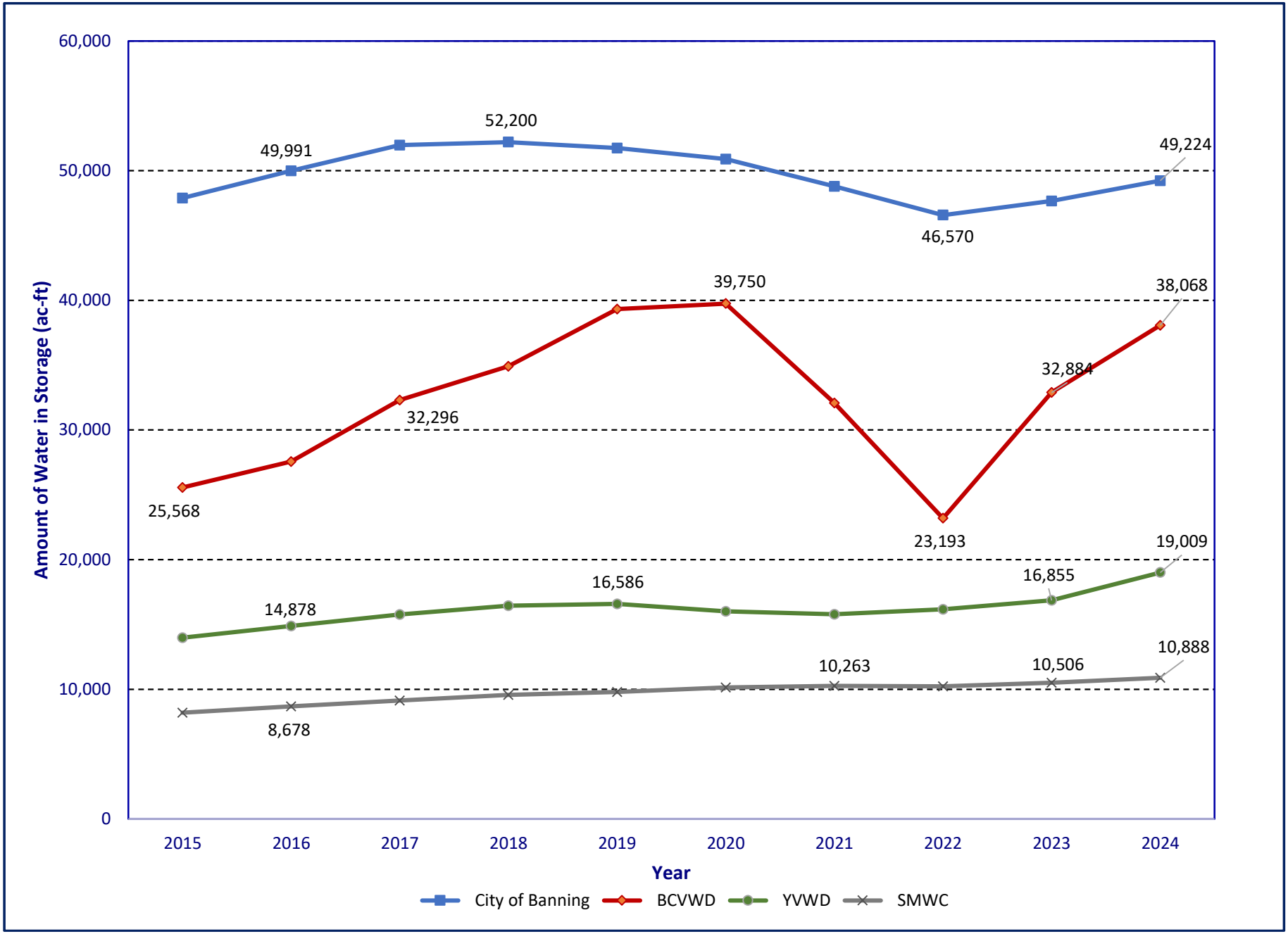
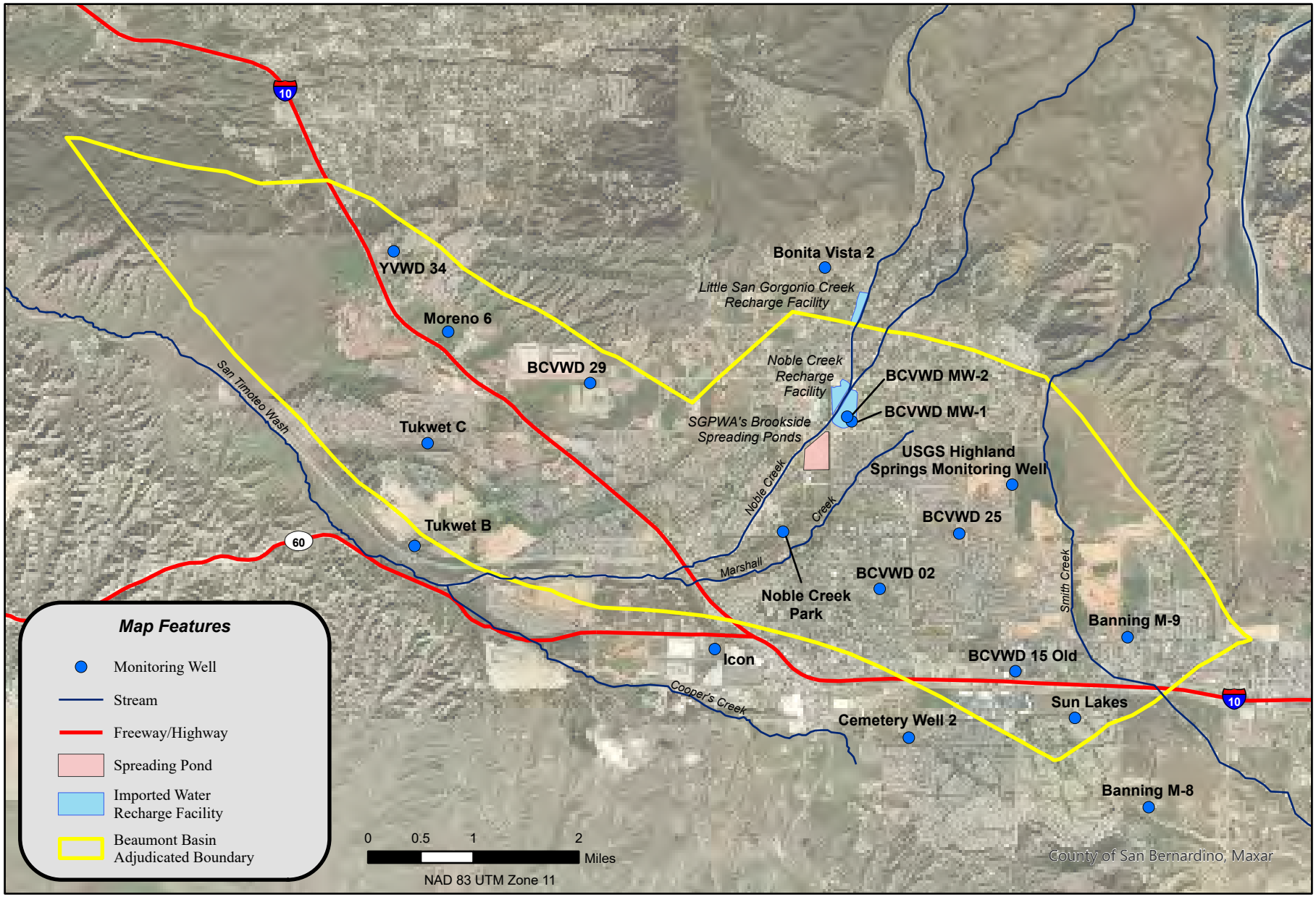


Figure 3-11
Accumulation of Storage by Appropriator for the 2015-2024 10-Yr Period

DRAFT

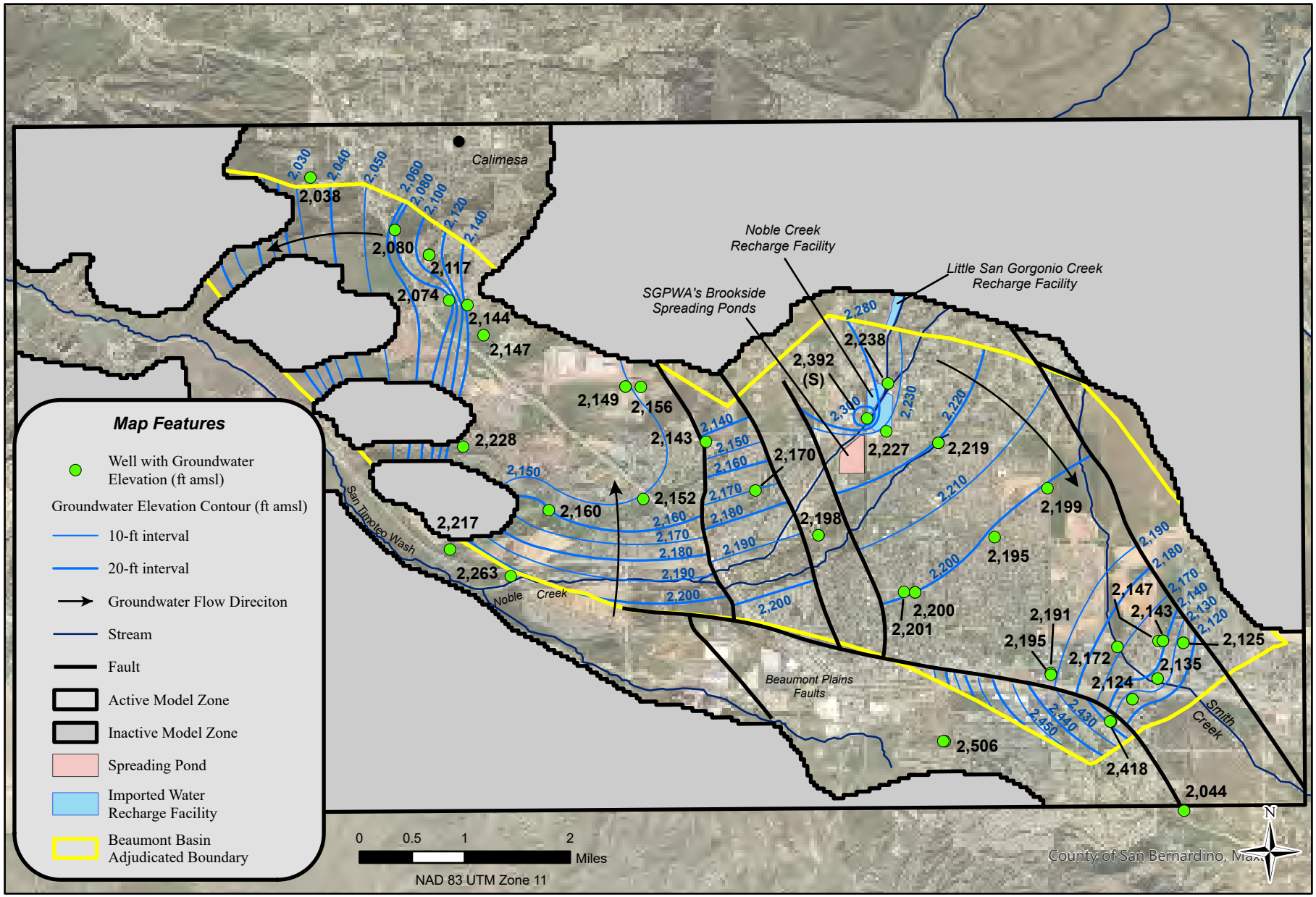


Alda, Inc. in association with Thomas Harder & Co. Groundwater Consulting

March 2025

Monitoring Wells in the Beaumont Basin
Figure 3-12

DRAFT



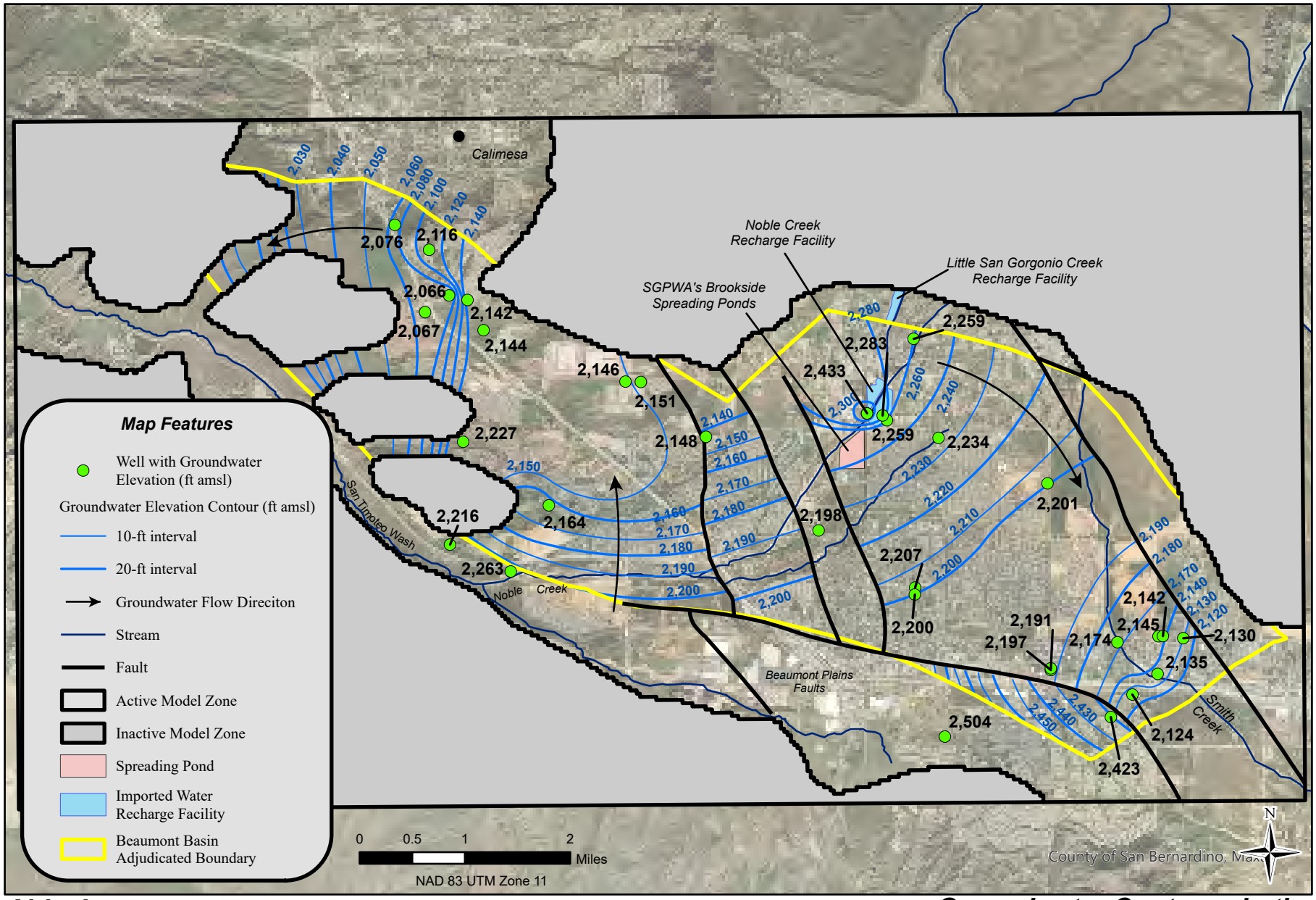
Alda, Inc. in association with Thomas Harder & Co. Groundwater Consulting

March 2025

Groundwater Contours in the Beaumont Basin - Winter 2023

Figure 3-13

DRAFT



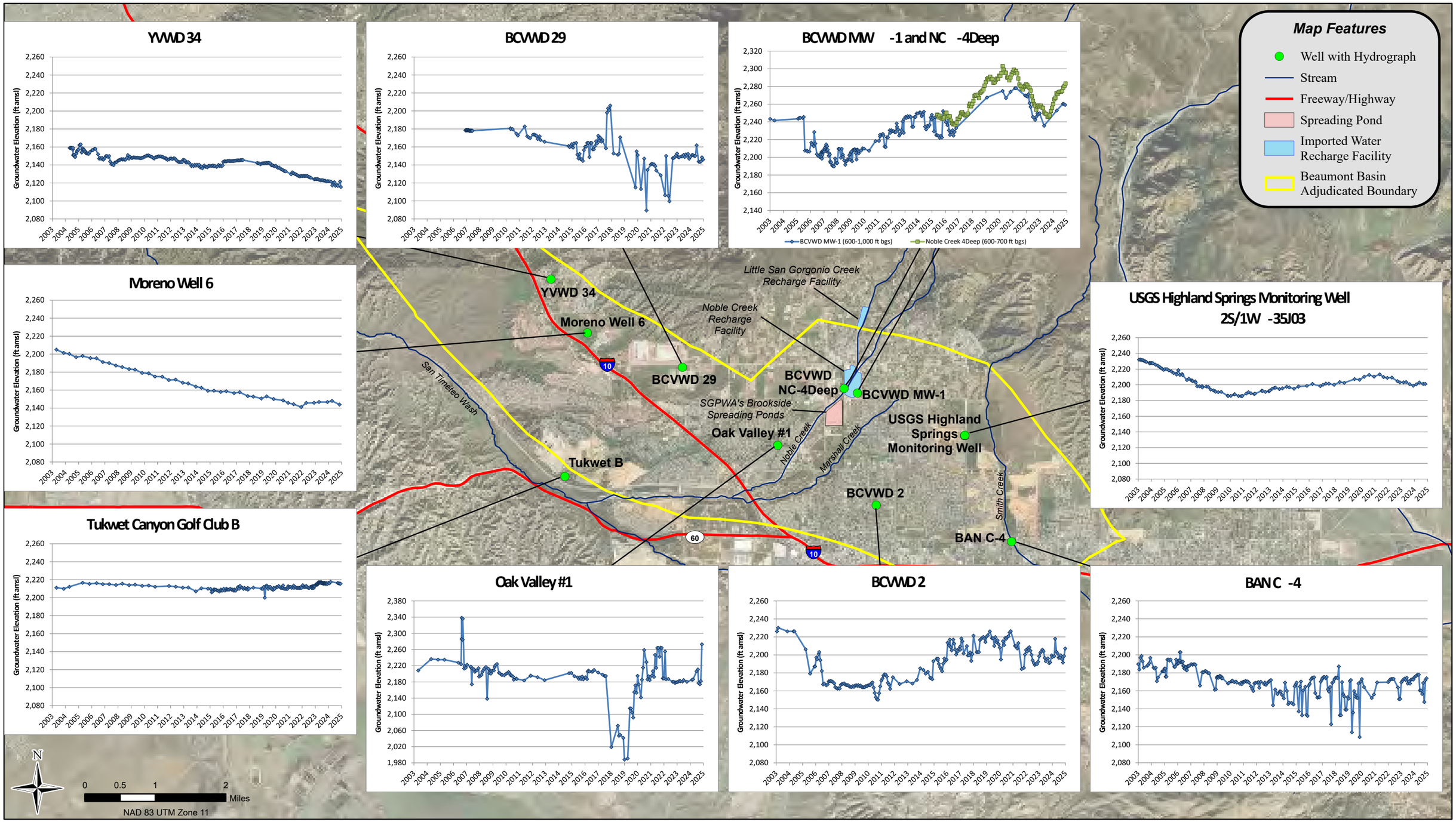
Alda, Inc. *in association with* Thomas Harder & Co. Groundwater Consulting

March 2025

Groundwater Contours in the Beaumont Basin - Winter 2024

Figure 3-14

DRAFT

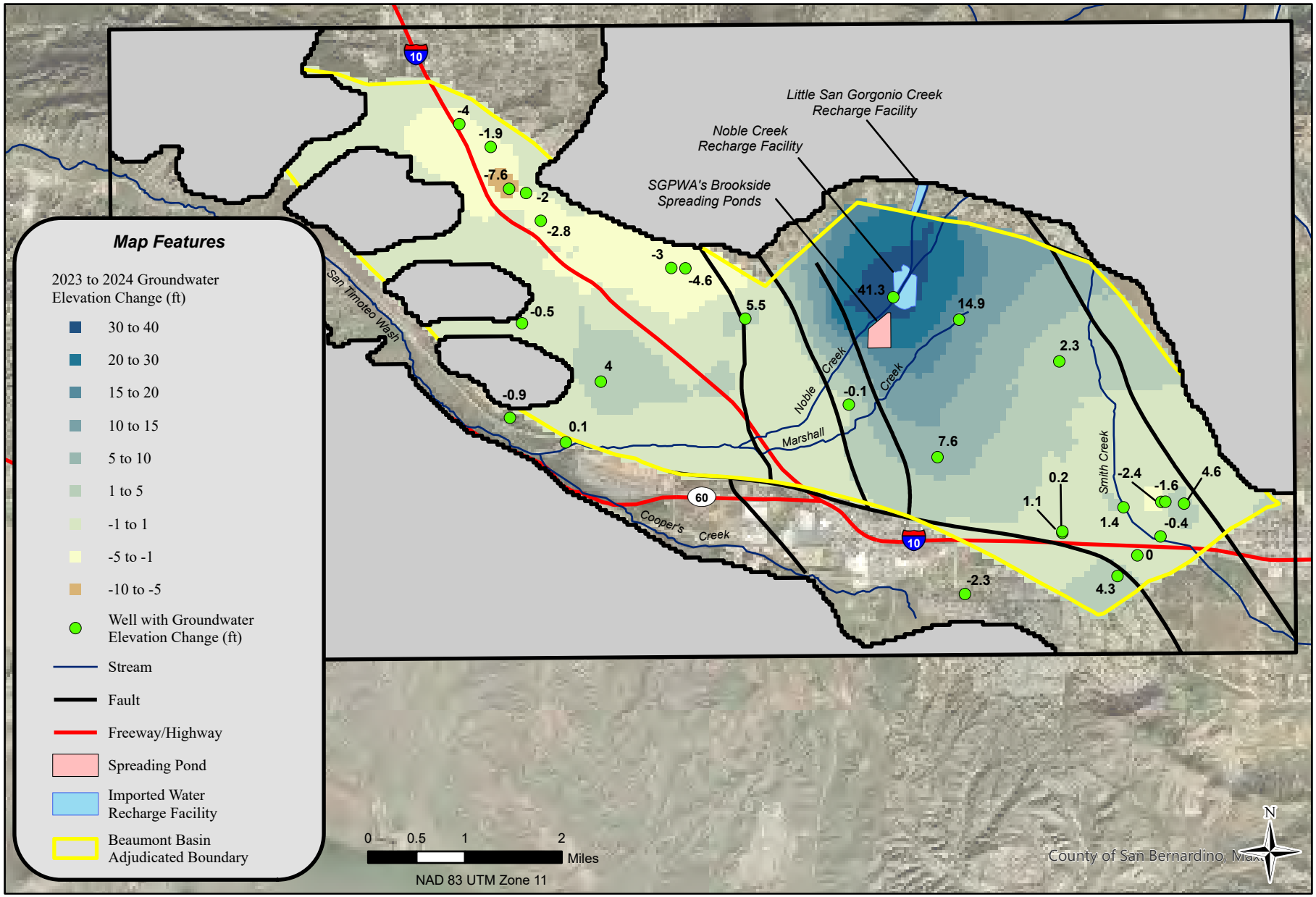


Alda, Inc. in association with Thomas Harder & Co. Groundwater Consulting

March 2025

Groundwater Level Trends at Key Wells
Figure 3-15

DRAFT

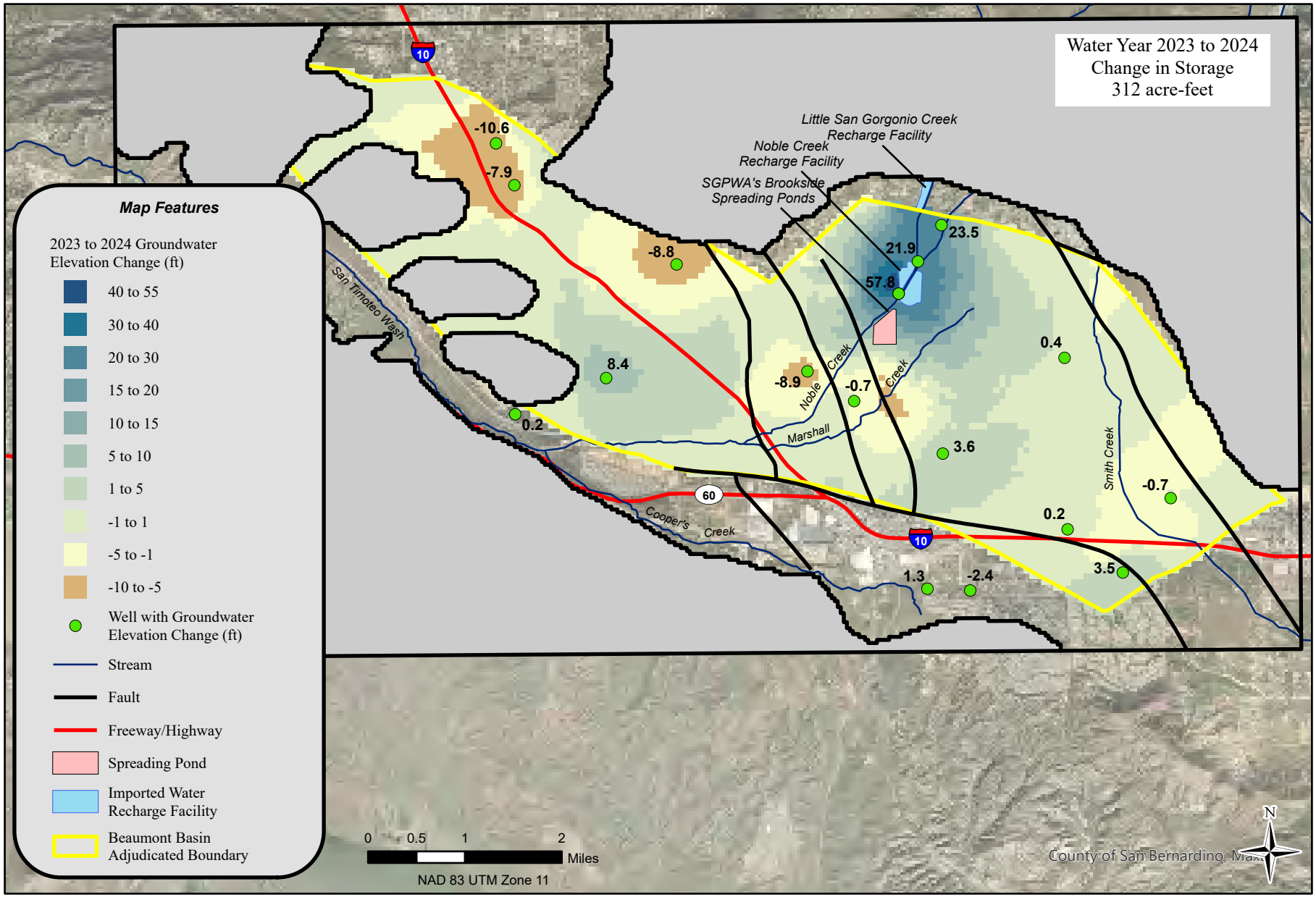


Alda, Inc.
Thomas Harder & Co.
Groundwater Consulting

March 2025

Change in Groundwater Elevation
Winter 2023 to Winter 2024
Figure 3-16

DRAFT



Alda, Inc. in association with Thomas Harder & Co. Groundwater Consulting

March 2025

Change in Groundwater Elevation
October 2023 to September 2024
Figure 3-17

Table 3-1A

Appropriator Producer - Summary of Production for Calendar Year 2020 (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	4.0	20.3	2.7	0.5	7.8	16.8	27.6	23.5	17.8	13.4	19.5	4.8	158.8
Well C3	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 C4	25.1	90.6	101.3	106.1	115.8	133.3	146.6	149.0	142.6	135.1	125.6	137.4	1,408.7
Well M3	80.9	0.1	0.3	0.3	72.1	77.9	85.1	82.8	82.8	52.1	40.2	42.3	616.8
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]	1.9	6.4	2.5	0.6	0.0	0.0	0.0	84.5	98.3	110.8	43.2	16.1	364.4
Subtotal	**111.9**	**117.5**	**106.9**	**107.6**	**195.7**	**228.0**	**259.4**	**339.7**	**341.5**	**311.4**	**228.5**	**200.6**	**2,548.6**
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	3.0	26.3	47.7	50.7	113.0	126.8	165.9	163.7	61.1	59.8	34.7	852.6
Well 16	0.0	9.1	19.0	4.0	18.2	52.6	21.2	56.4	8.9	9.3	0.5	2.0	201.1
Well 21	157.8	129.3	19.4	0.0	0.0	0.0	69.9	221.0	199.9	218.0	125.2	113.2	1,253.7
Well 22	0.5	5.6	17.0	35.6	134.4	160.7	106.7	71.2	172.7	149.7	86.7	75.8	1,016.5
Well 23	256.7	145.4	64.9	163.0	209.7	271.2	273.1	276.1	269.4	236.8	178.5	159.2	2,504.0
Well 24	164.9	144.1	120.2	155.8	186.9	153.0	225.1	130.2	1.9	57.1	0.0	2.1	1,341.3
Well 25	55.9	74.2	33.5	29.8	144.8	151.6	182.1	151.6	145.7	160.0	122.5	125.0	1,376.7
Well 26	0.0	139.6	191.8	123.7	251.1	178.6	280.3	300.0	307.6	297.6	226.1	210.7	2,507.1
Well 29	5.9	59.6	44.4	0.0	185.2	209.0	224.8	286.9	291.9	212.7	166.9	163.4	1,850.7
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]	-1.9	-6.4	-2.5	-0.6	0.0	0.0	0.0	-84.5	-98.3	-110.8	-43.2	-16.1	-364.4
Subtotal	**639.8**	**703.4**	**533.9**	**558.9**	**1,181.0**	**1,289.7**	**1,509.9**	**1,574.8**	**1,463.4**	**1,291.5**	**923.0**	**870.0**	**12,539.2**
South Mesa Water Company													
Well 4	17.1	14.9	13.0	16.9	26.2	24.7	36.6	44.8	26.7	0.0	0.0	8.3	229.2
Subtotal	**17.1**	**14.9**	**13.0**	**16.9**	**26.2**	**24.7**	**36.6**	**44.8**	**26.7**	**0.0**	**0.0**	**8.3**	**229.2**
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	152.2	142.1	83.4	122.9	133.1	158.5	167.4	148.1	127.2	119.7	53.3	0.0	1,407.7
Subtotal	**152.2**	**142.1**	**83.4**	**122.9**	**133.1**	**158.5**	**167.4**	**148.1**	**127.2**	**119.7**	**53.3**	**0.0**	**1,407.7**
Total	**920.9**	**977.9**	**737.1**	**806.2**	**1,536.0**	**1,700.8**	**1,973.2**	**2,107.5**	**1,958.8**	**1,722.6**	**1,204.9**	**1,078.9**	**16,724.7**

(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 3-1B

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 3-1C

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 3-1D

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	**f**	**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 3-1E

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	0.4	0.5	1.8	1.5	11.8	110.6	151.0	150.4	16.5	58.3	3.5	1.0	507.2
Well M3	0.3	0.2	0.7	0.4	0.4	17.0	15.4	13.0	15.3	49.2	64.1	53.5	229.5
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	**3.5**	**1.1**	**4.7**	**7.1**	**20.1**	**192.4**	**258.8**	**302.0**	**199.0**	**216.3**	**130.4**	**118.0**	**1,453.5**
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	**495.5**	**378.0**	**439.4**	**570.0**	**1,051.3**	**1,567.3**	**1,894.2**	**1,928.7**	**1,587.0**	**1,463.0**	**1,131.7**	**1,040.8**	**13,546.8**

(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 2020 (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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01		
Oak Valley #2	Yes	17.3	18.6	8.6	13.0	54.5	70.0	132.0	49.5	83.6	57.8	39.8	32.6	577.26		
Subtotal		**17.3**	**18.6**	**8.6**	**13.0**	**54.5**	**70.0**	**132.0**	**49.5**	**83.6**	**57.8**	**39.8**	**32.6**	**577.28**	**735.8**	**158.6**
Merlin Properties	No	Water Duty Method Used to Estimate Annual Production												**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	**0.00**	**1,204.1**	**1,204.1**
Plantation on the Lake LLC	Yes	21.3	20.2	7.6	21.1	33.2	38.3	38.9	14.7	0.0	0.0	0.0	0.0	**195.24**	**450.0**	**254.8**
Rancho Calimesa Mobile Home Park [6]																
Well No.1	Yes	1.1	0.0	0.0	0.0	0.0	2.0	2.6	3.2	2.6	2.0	2.1	2.1	17.68		
Well No.2	No	0.7	1.8	1.8	2.8	1.3	0.6	0.9	0.4	0.5	1.2	0.0	0.4	12.42		
Subtotal		**1.9**	**1.8**	**1.8**	**2.8**	**1.3**	**2.5**	**3.4**	**3.5**	**3.2**	**3.2**	**2.2**	**2.6**	**30.10**	**116.2**	**86.1**
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	3.5	6.4	3.6	2.5	6.6	8.2	5.8	11.3	11.9	13.1	7.3	7.4	87.55		
Well No.2	Yes	3.5	1.9	1.7	2.3	4.5	4.4	4.3	5.3	0.7	0.0	5.3	4.5	38.27		
Subtotal		**6.9**	**8.2**	**5.3**	**4.8**	**11.1**	**12.6**	**10.1**	**16.6**	**12.6**	**13.2**	**12.6**	**11.9**	**125.82**	**154.9**	**29.1**
Tukwet Canyon Golf Club [7]																
Well A	Yes	1.1	0.8	0.7	0.9	0.7	0.8	1.1	1.6	1.5	1.5	1.9	3.0	15.54		
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	18.1	35.9	27.9	35.6	14.0	120.7	173.2	162.5	153.0	88.1	67.8	57.0	953.74		
Subtotal		**19.1**	**36.6**	**28.6**	**36.4**	**14.7**	**121.5**	**174.3**	**164.2**	**154.5**	**89.6**	**69.7**	**60.0**	**969.28**	**1,704.0**	**734.8**
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												**4.29**	**1,115.0**	**1,110.7**
Albor Properties III, LP	No	Water Duty Method Used to Estimate Annual Production												**2.40**	**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												**1.42**	**7.7**	**6.3**
Darmont, Boris and Miriam	No	Water Duty Method Used to Estimate Annual Production												**0.35**	**1.9**	**1.6**
TOTAL														**1,911.52**	**6,505.2**	**4,593.7**

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.- Starting in 2008, the parcels owned by Oak Valley Partners (OVP) were no longer used for agricultural purposes. An annual production of 2.5 ac-ft has been estimated through 2018. At the October 4, 2023 meeting, YVWD submitted revised documentation supporting Form 5s transfers of Overlying water rights from Oak Valley Partners from 2018 thorugh 2022. For CY 2020, 194.82 ac-ft were transferred. This transfer reduced OVPs water rights to 1,204.05 ac-ft.

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 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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Oak Valley #2	Yes	20.7	18.7	16.0	37.4	7.0	49.6	98.0	98.0	65.5	43.0	48.6	22.6	525.0		
Subtotal		**20.7**	**18.7**	**16.0**	**37.4**	**7.0**	**49.6**	**98.0**	**98.0**	**65.5**	**43.0**	**48.6**	**22.6**	**525.0**	**735.8**	**210.8**
Merlin Properties	No	Water Duty Method Used to Estimate Annual Production								12%	8%	9%	4%	**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														**1,966.4**	**6,333.2**	**4,366.9**

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 thorugh August 2021. Production for Sep to Dec was not available and was estimated as 34.22 percent of total based on 2017-20 records. This number is sligthly lower than the one presented in the 2021 annual report when a 35 percent of total was used for these four months.

5.- Starting in 2008, the parcels owned by Oak Valley Partners (OVP) were no longer used for agricultural purposes. An annual production of 2.5 ac-ft has been estimated through 2018. At the October 4, 2023 meeting, YVWD submitted revised documentation supporting Form 5s transfers of Overlying water rights from Oak Valley Partners from 2018 thorugh 2022. For CY 2021, 366.77 ac-ft were transferred. This transfer reduced OVPs water rights to 1,032.10 ac-ft.

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 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.- Starting in 2008, the parcels owned by Oak Valley Partners (OVP) were no longer used for agricultural purposes. An annual production of 2.5 ac-ft has been estimated through 2018. At the October 4, 2023 meeting, YVWD submitted revised documentation supporting Form 5s transfers of Overlying water rights from Oak Valley Partners from 2018 thorugh 2022. For CY 2022, 478.25 ac-ft were transferred. This transfer reduced OVPs water rights to 920.62 ac-ft.

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 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	1.4	0.7	2.9	5.4	5.8	9.1	4.5	5.5	0.0	0.0	0.0	35.38		
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**	**1.4**	**0.7**	**2.9**	**5.4**	**5.8**	**9.1**	**4.5**	**58.8**	**71.2**	**39.4**	**10.6**	**209.94**	**735.8**	**525.9**
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													**0.70**	**154.9**	**154.2**
Sunny-Cal Egg and Poultry Company	No													**4.02**	**1,115.0**	**1,111.0**
Albor Properties III, LP	No													**2.25**	**232.4**	**230.1**
Nikodinov, Nick	No													**0.73**	**15.5**	**14.8**
McAmis, Ronald L.	No													**0.54**	**3.9**	**3.3**
Aldama, Nicolas and Amalia	No													**0.82**	**5.4**	**4.6**
Gutierrez, Hector, et al.	No													**1.36**	**7.7**	**6.4**
Darmont, Boris and Miriam	No													**0.35**	**1.9**	**1.6**
TOTAL		**31.7**	**51.5**	**19.7**	**91.0**	**147.0**	**155.5**	**225.2**	**175.2**	**190.9**	**202.9**	**137.6**	**76.3**	**1,516.66**	**6,221.8**	**4,705.1**

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.- Starting in 2008, the parcels owned by Oak Valley Partners (OVP) were no longer used for agricultural purposes. An annual production of 2.5 ac-ft has been estimated through 2018. At the October 4, 2023 meeting, YVWD submitted revised documentation supporting Form 5s transfers of Overlying water rights from Oak Valley Partners from 2018 thorugh 2022. For CY 2023, the same amount used in CY 2022 of 478.25 ac-ft was used. This reduced OVPs water rights to 920.62 ac-ft.

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 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	0.0	0.01		
Oak Valley #2	Yes	11.6	3.6	1.8	17.1	27.9	86.4	85.2	94.4	59.3	56.1	0.0	0.0	443.57		
Subtotal		**11.6**	**3.6**	**1.8**	**17.1**	**27.9**	**86.4**	**85.2**	**94.4**	**59.3**	**56.1**	**0.0**	**0.0**	**443.58**	**779.8**	**336.2**
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													**0.70**	**164.2**	**163.5**
Sunny-Cal Egg and Poultry Company	No													**4.06**	**1,181.6**	**1,177.5**
Albor Properties III, LP	No													**2.27**	**246.2**	**244.0**
Nikodinov, Nick	No													**0.73**	**16.4**	**15.7**
McAmis, Ronald L.	No													**0.54**	**4.1**	**3.6**
Aldama, Nicolas and Amalia	No													**0.83**	**5.7**	**4.9**
Gutierrez, Hector, et al.	No													**1.37**	**8.2**	**6.8**
Darmont, Boris and Miriam	No													**0.35**	**2.1**	**1.7**
TOTAL		**46.3**	**22.5**	**32.2**	**89.8**	**156.8**	**312.6**	**265.9**	**302.8**	**239.4**	**195.6**	**88.6**	**90.9**	**1,855.91**	**6,621.8**	**4,765.8**

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.- Oak Valley Partners (OVP) water rights have been adjusted, based on the revised Safe Yield of 7,100 ac-ft, to 1,482.40 ac-ft., starting in CY 2024. On Feb 11, 2025, YVWD notified the Beaumont Basin Watermaster Secretary documenting that the permanent aggregate water right 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 FY 2024. See Appendix XXX for additional information.

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
Production Summary for Appropriator and Overlying Producers in the Beaumont Basin
2015 through 2024 - Calendar Year Accounting (ac-ft)

	Annual Production (ac-ft)									
	2015	**2016**	**2017**	**2018**	**2019**	**2020**	**2021**	**2022**	**2023**	**2024**
Appropriator Parties										
Banning, City of	1,678	1,473	1,443	2,261	2,121	2,549	3,668	3,594	1,327	1,453
Beaumont-Cherry Valley Water District	8,973	10,160	11,651	12,209	11,141	12,539	12,610	12,490	10,213	10,883
South Mesa Water Company	317	353	368	365	331	229	466	575	277	225
Yucaipa Valley Water District	119	5	0	191	529	1,408	1,228	687	892	985
Subtotal	**11,087**	**11,990**	**13,462**	**15,026**	**14,121**	**16,725**	**17,972**	**17,345**	**12,709**	**13,546.8**
Overlying Parties										
Beckman, Walter M	0.86	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	751.15	552.3	830.0	573.1	489.6	577.3	525.0	563.4	209.9	443.6
Merlin Properties	1.61	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
Oak Valley Partners, LP	2.50	2.5	2.5	2.5	2.5	-	-	-	-	-
Plantation on the Lake LLC	302.11	293.4	417.8	471.2	258.7	195.2	161.5	335.9	288.8	304.4
Rancho Calimesa Mobile Home Park	23.44	31.2	31.2	32.7	32.1	30.1	25.0	31.4	28.8	31.4
Roman Catholic Bishop of San Bernardino	-	-	-	-	-	-	-	-	-	-
Sharondale Mesa Owners Association	94.11	84.8	117.9	116.4	98.3	125.8	124.7	113.6	92.8	94.3
Tukwet Canyon Golf Club[1]	898.60	958.6	991.4	1,010.9	878.8	969.3	1,116.5	1,076.3	883.1	968.8
Stearns, Leonard M. and Dorothy D.	0.70	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Sunny-Cal Egg and Poultry Company	4.24	4.2	4.0	4.2	4.1	4.3	4.3	4.4	4.0	4.1
Albor Properties III, LP[2]	2.37	2.3	2.2	2.3	2.3	2.4	2.4	2.5	2.3	2.3
Nikodinov, Nick	0.75	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.7	0.7
McAmis, Ronald L.	0.55	0.5	0.5	0.6	0.5	0.6	0.6	0.6	0.5	0.5
Aldama, Nicolas and Amalia	0.86	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.8	0.8
Gutierrez, Hector, et. al.	1.41	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
Darmont, Boris and Miriam	0.35	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Subtotal	**2,085.6**	**1,936.4**	**2,403.9**	**2,220.3**	**1,773.3**	**1,911.5**	**1,966.4**	**2,134.6**	**1,516.7**	**1,855.9**
Total	**13,173.0**	**13,926.1**	**15,866.3**	**17,246.4**	**15,894.8**	**18,636.2**	**19,938.5**	**19,479.9**	**14,225.8**	**15,402.7**

Table 3-4
Annual Supplemental Recharge to the Beaumont Basin - Calendar Years 2003-2024

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
Totals	**16,477.2**	**-**	**145,136.2**	**2,500.0**	**12,610.2**	**176,723.6**

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 2007-2024

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	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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 (2020-24) Average Production (ac-ft)	5-Year (2020-24) Running Avg % of Water Right
Sharondale Mesa Owners Association	200.0	154.91	164.16	110.2	67.2%
California Oak Valley Golf and Resort LLC (1)	950.0	735.84	779.77	463.8	59.5%
Tukwet Canyon Golf Club	2,200.0	1,704.05	1,805.78	1,002.8	55.5%
Plantation on the Lake LLC	581.0	450.02	476.89	257.2	53.9%
Rancho Calimesa Mobile Home Park	150.0	116.18	123.12	29.3	23.8%
Gutierrez, Hector, et al.	10.0	7.75	8.21	1.4	17.1%
Darmont, Boris and Miriam	2.5	1.94	2.05	0.4	17.1%
Aldama, Nicolas and Amalia	7.0	5.42	5.75	0.9	14.8%
McAmis, Ronald L.	5.0	3.87	4.10	0.5	13.4%
Nikodinov, Nick	20.0	15.49	16.42	0.8	4.6%
Beckman, Walter M.	75.0	58.09	61.56	0.9	1.4%
Albor Properties III, LP	300.0	232.37	246.24	2.4	1.0%
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**	**1,877.0**	**26.4%**

(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 2024, 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
2003	4,325	2,441	1,884
2004	8,650	3,576	5,074
2005	8,650	3,293	5,357
2006	8,650	3,597	5,053
2007	8,650	3,307	5,343
2008	8,650	2,872	5,778
2009	8,650	2,838	5,812
2010	8,650	1,976	6,674
2011	8,650	1,971	6,679
2012	8,650	2,085	6,565
2013	8,650	2,285	6,365
2014	6,700	2,219	4,481
2015	6,700	2,086	4,614
2016	6,700	1,936	4,764
2017	6,700	2,404	4,296
2018 [1]	6,700	2,220	4,480
2019	6,636	1,773	4,863
2020	6,505	1,912	4,594
2021	6,333	1,966	4,367
2022	6,222	2,135	4,087
2023	6,222	1,517	4,705
2024	6,622	1,856	4,766

Allocation Year	City of Banning	City of Beaumont	Beaumont Cherry Valley WD	South Mesa Water Co.	Yucaipa Valley Water District	Total
2008	592	0	801	235	256	1,884
2009	1,595	0	2,157	633	689	5,074
2010	1,684	0	2,277	669	728	5,357
2011	1,588	0	2,148	631	686	5,053
2012	1,679	0	2,272	667	726	5,343
2013	1,816	0	2,456	721	785	5,778
2014	1,827	0	2,471	725	789	5,812
2015	2,097	0	2,837	833	906	6,674
2016	2,099	0	2,839	833	907	6,679
2017	2,063	0	2,791	819	891	6,565
2018	2,001	0	2,706	794	864	6,365
2019	1,408	0	1,905	559	609	4,481
2020	1,450	0	1,962	576	627	4,614
2021	1,497	0	2,025	595	647	4,764
2022	1,350	0	1,826	536	583	4,296
2023	1,408	0	1,904	559	608	4,480
2024	1,528	0	2,067	607	660	4,863
2025	1,444	0	1,953	573	624	4,594
2026	1,373	0	1,856	545	593	4,367
2027	1,285	0	1,737	510	555	4,087
2028	1,479	0	2,000	587	639	4,705
2029	1,498	0	2,026	595	647	4,766

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 and CY 2024 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								
2003	2,514.5	0.0	0.0	0.0	0.0	0.0	0.0	2,514.5
2004	5,029.0	0.0	0.0	0.0	0.0	0.0	0.0	5,029.0
2005	5,029.0	0.0	0.0	0.0	0.0	0.0	0.0	5,029.0
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	2,000.6	0.0	0.0	0.0	0.0	0.0	2,000.6
2019	0.0	1,408.4	0.0	0.0	0.0	0.0	462.9	1,871.3
2020	0.0	1,450.3	0.0	0.0	0.0	0.0	848.3	2,298.6
2021	0.0	1,497.2	0.0	60.0	0.0	0.0	2,110.9	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

(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		
Beaumont Cherry Valley Water District								
2003	3,401.0	0.0	0.0	0.0	0.0	0.0	110.9	3,511.9
2004	6,802.0	0.0	0.0	0.0	0.0	0.0	71.9	6,873.9
2005	6,802.0	0.0	0.0	0.0	0.0	0.0	223.6	7,025.6
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	2,705.9	0.0	0.0	0.0	0.0	0.0	2,705.9
2019	0.0	1,904.9	0.0	0.0	0.0	0.0	0.0	1,904.9
2020	0.0	1,961.6	0.0	0.0	0.0	0.0	0.0	1,961.6
2021	0.0	2,025.0	0.0	447.8	0.0	0.0	7,668.7	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	1,904.3	0.0	0.0	0.0	0.0	0.0	1,904.3
2024	0.0	2,067.1	0.0	0.0	0.0	0.0	0.0	2,067.1

(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								
2003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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

(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								
2003	998.0	0.0	0.0	0.0	0.0	0.0	0.0	998.0
2004	1,996.0	0.0	0.0	0.0	0.0	0.0	0.0	1,996.0
2005	1,996.0	0.0	0.0	0.0	0.0	0.0	0.0	1,996.0
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	794.4	0.0	0.0	0.0	0.0	0.0	794.4
2019	0.0	559.2	0.0	0.0	0.0	0.0	0.0	559.2
2020	0.0	575.9	0.0	0.0	0.0	0.0	0.0	575.9
2021	0.0	594.5	0.0	0.0	0.0	0.0	0.0	594.5
2022	0.0	536.2	0.0	0.0	0.0	0.0	38.5	574.7
2023	0.0	559.1	0.0	0.0	0.0	0.0	0.0	559.1
2024	0.0	606.9	0.0	0.0	0.0	0.0	0.0	606.9

(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		
Yucaipa Valley Water District								
2003	1,086.5	0.0	0.0	0.0	0.0	0.0	75.9	1,162.4
2004	2,173.0	0.0	0.0	0.0	0.0	0.0	0.0	2,173.0
2005	2,173.0	0.0	0.0	0.0	0.0	0.0	0.0	2,173.0
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	864.4	0.1	0.0	0.0	0.0	0.0	864.5
2019	0.0	608.5	64.0	0.0	0.0	0.0	0.0	672.5
2020	0.0	626.6	194.8	0.0	0.0	0.0	586.3	1,407.7
2021	0.0	646.9	366.8	0.0	0.0	0.0	214.8	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

(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		
Totals - All Appropriators								
2003	8,000.0	0.0	0.0	0.0	0.0	0.0	186.8	8,186.8
2004	16,000.0	0.0	0.0	0.0	0.0	0.0	71.9	16,071.9
2005	16,000.0	0.0	0.0	0.0	0.0	0.0	223.6	16,223.6
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	6,365.4	0.1	0.0	0.0	0.0	0.0	6,365.5
2019	0.0	4,481.0	64.0	0.0	0.0	0.0	462.9	5,007.9
2020	0.0	4,614.4	194.8	0.0	0.0	0.0	1,434.6	6,243.8
2021	0.0	4,763.6	366.8	507.8	0.0	0.0	9,994.4	15,632.6
2022	0.0	4,296.1	478.3	0.0	0.0	0.0	11,135.1	15,909.4
2023	0.0	4,479.6	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

(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		
City of Banning - Authorized Storage Account: 80,000 ac-ft									
2003	2,514.5	2,174.2	0.0	0.0	0.0	0.0	0.0	0.0	340.3
2004	5,029.0	3,397.3	0.0	0.0	0.0	0.0	0.0	0.0	1,972.0
2005	5,029.0	1,808.6	0.0	0.0	0.0	0.0	0.0	0.0	5,192.5
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	2,000.6	2,260.8	260.2	500.0	0.0	0.0	0.0	0.0	52,200.4
2019	1,871.3	2,121.3	250.0	250.0	0.0	0.0	0.0	462.9	51,737.5
2020	2,298.6	2,548.6	250.0	250.0	0.0	0.0	0.0	848.3	50,889.2
2021	3,668.1	3,668.1	0.0	0.0	0.0	0.0	0.0	2,110.9	48,778.3
2022	3,558.7	3,593.7	35.0	35.0	0.0	0.0	0.0	2,208.4	46,569.9
2023	1,407.9	1,326.9	0.0	1,000.0	0.0	0.0	0.0	0.0	47,650.9
2024	1,528.4	1,453.5	0.0	1,500.0	0.0	0.0	0.0	0.0	49,225.8

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		
Beaumont Cherry Valley Water District - Authorized Storage Account: 80,000 ac-ft									
2003	3,511.9	3,511.9	0.0	0.0	0.0	0.0	0.0	110.9	-110.9
2004	6,873.9	6,873.9	0.0	0.0	0.0	0.0	0.0	71.9	-182.8
2005	7,025.6	7,025.6	0.0	0.0	0.0	0.0	0.0	223.6	-406.4
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	2,705.9	12,209.2	9,503.3	12,121.0	0.0	0.0	0.0	0.0	34,913.5
2019	1,904.9	11,140.9	9,236.0	13,645.0	0.0	0.0	0.0	0.0	39,322.5
2020	1,961.6	12,539.2	10,577.6	11,005.0	0.0	0.0	0.0	0.0	39,749.9
2021	10,141.5	12,609.5	2,468.0	2,468.0	0.0	0.0	0.0	7,668.7	32,081.2
2022	10,714.4	12,490.4	1,776.0	1,776.0	0.0	0.0	0.0	8,888.1	23,193.1
2023	1,904.3	10,213.3	8,309.0	18,000.0	0.0	0.0	0.0	0.0	32,884.1
2024	2,067.1	10,883.3	8,816.1	14,000.0	0.0	0.0	0.0	0.0	38,068.0

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		
City of Beaumont - Authorized Storage Account: 30,000 ac-ft									
2003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2006	0.0	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	0.0
2008	0.0	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	0.0
2010	0.0	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	0.0
2012	0.0	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	0.0
2014	0.0	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	0.0
2016	0.0	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	0.0
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	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	0.0
2021	0.0	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	0.0
2023	0.0	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	0.0

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		
South Mesa Water Company - Authorized Storage Account: 20,000 ac-ft									
2003	998.0	223.2	0.0	0.0	0.0	0.0	0.0	0.0	774.8
2004	1,996.0	482.5	0.0	0.0	0.0	0.0	0.0	0.0	2,288.3
2005	1,996.0	663.2	0.0	0.0	0.0	0.0	0.0	0.0	3,621.1
2006	1,996.0	616.0	0.0	0.0	0.0	0.0	0.0	0.0	5,001.1
2007	665.8	665.8	0.0	0.0	0.0	0.0	0.0	1,669.8	3,331.3
2008	470.9	470.9	0.0	0.0	0.0	0.0	0.0	739.7	2,591.6
2009	629.2	382.2	0.0	0.0	0.0	0.0	0.0	0.0	2,838.6
2010	2,664.6	405.0	0.0	0.0	0.0	0.0	0.0	0.0	5,098.2
2011	419.9	419.9	0.0	0.0	0.0	0.0	0.0	1,293.3	3,805.0
2012	2,662.9	448.5	0.0	0.0	0.0	0.0	0.0	0.0	6,019.4
2013	1,719.1	308.4	0.0	0.0	0.0	0.0	0.0	0.0	7,430.2
2014	725.3	473.7	0.0	0.0	0.0	0.0	0.0	0.0	7,681.7
2015	832.9	317.2	0.0	0.0	0.0	0.0	0.0	0.0	8,197.5
2016	833.5	352.6	0.0	0.0	0.0	0.0	0.0	0.0	8,678.3
2017	819.3	368.1	0.0	0.0	0.0	0.0	0.0	0.0	9,129.5
2018	794.4	364.9	0.0	0.0	0.0	0.0	0.0	0.0	9,559.0
2019	559.2	330.7	0.0	0.0	0.0	0.0	0.0	0.0	9,787.5
2020	575.9	229.2	0.0	0.0	0.0	0.0	0.0	0.0	10,134.3
2021	594.5	466.0	0.0	0.0	0.0	0.0	0.0	0.0	10,262.7
2022	574.7	574.7	0.0	0.0	0.0	0.0	0.0	38.5	10,224.2
2023	559.1	277.3	0.0	0.0	0.0	0.0	0.0	0.0	10,506.0
2024	606.9	224.6	0.0	0.0	0.0	0.0	0.0	0.0	10,888.2

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		
Yucaipa Valley Water District - Authorized Storage Account: 50,000 ac-ft									
2003	1,162.4	1,162.4	0.0	0.0	0.0	0.0	0.0	75.9	-75.9
2004	2,173.0	1,833.7	0.0	0.0	0.0	0.0	0.0	0.0	263.4
2005	2,173.0	1,281.3	0.0	0.0	0.0	0.0	0.0	0.0	1,155.1
2006	2,173.0	2,027.3	0.0	0.0	0.0	0.0	0.0	0.0	1,300.8
2007	2,173.0	1,682.9	0.0	0.0	0.0	0.0	0.0	0.0	1,790.9
2008	2,428.9	572.0	0.0	0.0	0.0	0.0	0.0	0.0	3,647.8
2009	2,862.0	504.4	0.0	0.0	0.0	0.0	0.0	0.0	6,005.4
2010	2,900.5	672.4	0.0	0.0	0.0	0.0	0.0	0.0	8,233.5
2011	2,859.2	534.1	0.0	0.0	0.0	0.0	0.0	0.0	10,558.6
2012	2,898.6	700.1	0.0	0.0	0.0	0.0	0.0	0.0	12,757.2
2013	1,871.2	1,030.8	0.0	0.0	0.0	0.0	0.0	0.0	13,597.6
2014	1,198.5	1,198.5	0.0	0.0	0.0	0.0	0.0	409.2	13,188.4
2015	906.3	119.2	0.0	0.0	0.0	0.0	0.0	0.0	13,975.5
2016	907.0	4.6	0.0	0.0	0.0	0.0	0.0	0.0	14,877.9
2017	891.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	15,769.2
2018	864.5	191.2	0.0	0.0	0.0	0.0	0.0	0.0	16,442.5
2019	672.5	528.6	0.0	0.0	0.0	0.0	0.0	0.0	16,586.4
2020	1,407.7	1,407.7	0.0	0.0	0.0	0.0	0.0	586.3	16,000.1
2021	1,228.5	1,228.5	0.0	0.0	0.0	0.0	0.0	214.8	15,785.3
2022	1,061.7	686.5	0.0	0.0	0.0	0.0	0.0	0.0	16,160.4
2023	1,086.6	891.7	0.0	500.0	0.0	0.0	0.0	0.0	16,855.3
2024	1,138.6	985.4	0.0	2,000.0	0.0	0.0	0.0	0.0	19,008.6

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		
Morongo Band of Mission Indians - Authorized Storage Account: 20,000 ac-ft									
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
San Gorgonio Pass Water Agency - Authorized Storage Account: 10,000 ac-ft									
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

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									
2003	8,186.8	7,071.7	0.0	0.0	0.0	0.0	0.0	186.8	928.3
2004	16,071.9	12,587.4	0.0	0.0	0.0	0.0	0.0	71.9	4,340.9
2005	16,223.6	10,778.6	0.0	0.0	0.0	0.0	0.0	223.6	9,562.3
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	6,365.5	15,026.1	9,763.4	12,621.0	0.0	0.0	0.0	0.0	113,115.4
2019	5,007.9	14,121.5	9,486.0	14,152.8	0.0	0.0	0.0	720.7	117,691.8
2020	6,243.8	16,724.7	10,827.6	11,469.0	0.0	0.0	0.0	1,648.6	117,245.2
2021	15,632.6	17,972.1	2,468.0	2,504.0	0.0	0.0	0.0	9,522.6	106,907.5
2022	15,909.4	17,345.3	1,811.0	1,811.6	0.0	0.0	0.0	11,135.1	3.0
2023	4,957.8	12,709.1	8,309.0	20,393.0	0.0	0.0	0.0	0.0	108,789.9
2024	5,341.0	13,546.8	8,816.1	18,201.0	0.0	0.0	0.0	0.0	118,785.1

Table 3-10
Annual Supplemental Recharge to the Beaumont Basin - Water Year 2024

Year	Supplemental Recharge (ac-ft)				
	Banning	BCVWD	YVWD	SGPWA	Total
Oct-23	-	1,175.0	-	-	1,175.0
Nov-23	-	1,109.0	-	-	1,109.0
Dec-23	-	2,740.0	-	893.0	3,633.0
Jan-24	-	279.0	-	-	279.0
Feb-24	-	162.0	-	-	162.0
Mar-24	-	1,351.0	-	-	1,351.0
Apr-24	-	1,373.0	-	-	1,373.0
May-24	1,000.0	837.0	1,000.0	-	2,837.0
Jun-24	-	367.0	-	-	367.0
Jul-24	-	733.0	-	-	733.0
Aug-24	-	1,498.0	-	-	1,498.0
Sep-24	-	870.0	-	-	870.0
Totals	**1,000.0**	**12,494.0**	**1,000.0**	**893.0**	**15,387.0**

Section 4
Water Quality Conditions

The purpose of this section is to document the water quality conditions in the Beaumont Basin during the 2020-2024 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 near 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 4,705 water quality results for the 2020-2024 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 56 wells measured within and in the vicinity of the Beaumont Basin. Concentrations used for most wells were based on the 2020-2024 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 28 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 170 to 330 mg/L and averaged 225 mg/L while maximum concentrations average slightly higher at 232 mg/L. The average of maximum concentrations of all wells owned by Appropriators is 23 mg/L lower than the average maximum TDS concentration reported in the 2008-11 Engineering Report of 255 mg/L. Of the 11 overlying wells, TDS concentrations ranged from 100 to 340 mg/L and averaged 219 mg/L. Maximum concentrations ranged from 220 mg/L to 340 mg/L and averaged 237 mg/L, five mg/L higher than the average of maximum values for appropriator's wells. The average TDS for all 28 groundwater wells in the Beaumont Basin for the reporting period was 228 mg/L.

In the Singleton Basin / Edgar Canyon area, TDS concentrations ranged from 220 to 410 mg/L and averaged 283 mg/L. Maximum concentrations averaged 292 mg/L. The average TDS concentration in the Singleton Basin was 65 mg/L higher than in the Beaumont Basin.

In the South Beaumont Basin, TDS concentrations ranged from 180 to 870 mg/L and averaged 436 mg/L. Maximum concentrations averaged 495 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	25	225	232
Overliers	11	54	219	237
Others	2	2	295	295
Total	28	81	228	238
Singleton Basin / Edgar Canyon Area				
All Wells	17	37	283	292
South Beaumont Basin				
All Wells	11	64	436	495

Of the 26 wells owned by Appropriators and overliers, 15 wells had a maximum concentration at or below the anti-degradation objective of 230 mg/L, 10 wells were between the anti-degradation and maximum benefit objective of 330 mg/L, and one SMHOA No. 2 above this objective. SMHOA No.1 and BCVWD No. 16 were at the maximum benefit objective of 330 mg/L. 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. Five 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 56 wells measured within and in the vicinity of the Beaumont Basin wells during the 2020-2024 reporting period. A total of 28 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 0.50 mg/L to 6.2 mg/L and averaged 1.96 mg/L. Maximum concentrations averaged 2.42 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 2.61 mg/L. The average maximum Nitrate concentration for all 28 groundwater wells in the Beaumont Basin was 2.36 mg/L.

In the Singleton Basin / Edgar Canyon area, Nitrate concentrations ranged from 0.52 mg/L to 15.0 mg/L and averaged 3.86 mg/L. Average maximum concentrations for all wells was 4.78 mg/L.

In the South Beaumont Basin, Nitrate concentrations ranged from 3.1 to 22.0 mg/L and averaged 9.50 mg/L. Maximum concentrations for all wells in this basin averaged 10.35 mg/L.

Of the 26 wells owned by Appropriators and overliers, seven 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; three wells exceeded the maximum benefit objective for the BMZ. None of the production wells samples exceeded the primary federal or state drinking water standard for Nitrate of 10 mg/L.

In the Singleton Basin / Edgar Canyon area, two wells had a maximum concentration below the anti-degradation objective, another nine wells had concentrations between the anti-degradation and maximum objective while six wells exceeded the maximum benefit objective of 5.0 mg/L. Three wells exceeded drinking water standards.

In the South Beaumont Basin, only two wells had a maximum concentration below the maximum objective while the remaining nine exceed it with five of these wells also exceeding 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	15	128	1.96	2.42
Overliers	11	91	2.21	2.61
Other	2	2	0.50	0.50
Total	28	81	1.95	2.36
Singleton Basin / Edgar Canyon Area				
All Wells	17	71	3.86	4.78
South Beaumont Basin				
All Wells	11	61	9.51	10.35

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 sewering 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 2020-24 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 standards; 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 specific chemical has been exceeded.

A total of 4,705 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 2020 and 2024. The results of the analysis indicate that not a single well exceeded the primary Federal or State MCL for any of the analytes tested.

Appendix G contains summary statistics of the analytical results for the 2020-2024 period for selected chemicals that have a federal or state drinking water standard as reported in the GAMA database.

4.2.1 Nitrate (as NO_3) and Total Dissolved Solids (TDS)

A total of 276 samples were collected and analyzed for Nitrate; 47 of these samples were also analyzed for TDS. The current primary MCL for Nitrate (as NO_3) 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, including the number of samples taken, average and maximum concentrations recorded, for all 22 domestic wells in the Beaumont Basin. This table indicates that none of the domestic wells in the Beaumont Basin are near the MCL or the notification level of 80 percent MCL, 36 mg/L for Nitrate and 400 mg/L for TDS. Highest concentrations during the reporting period were recorded at BCVWD Well No. 16 with 31.5 mg/L for Nitrates and 340 mg/L at Sharondale MHOA No. 2 for total dissolved solids.

4.2.2 Trace Metals

As indicated earlier, not a single domestic well exceeded the primary federal and state standards during the reporting period. This represents a significant improvement over previous reporting periods when several wells exceeded the MCL for trace metals as in the 2004-2008 initial reporting five-year period. Trace metals are briefly discussed here and compared to previous reporting periods.

Table 4-1
Nitrate (NO_3) 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	7	8.0	9.0	1	220	220
Well C-3	4	7.9	9.0	1	170	170
Well C-4	7	5.2	6.8	2	190	200
Well M-3	8	10.1	12.2	2	260	260
Beaumont Cherry Valley Water District						
Well 03	4	3.6	4.4	2	185	190
Well 16	48	23.6	31.5	1	330	330
Well 21	42	12.5	14.9	2	290	320
Well 22	5	6.2	8.1	1	200	200
Well 23	5	8.2	9.9	2	255	270
Well 24	5	7.6	9.5	1	200	200
Well 25	5	5.6	6.3	2	225	230
Well 26	4	3.8	4.5			
Well 29	5	10.1	12.6	2	205	210
South Mesa Water Company						
Well 4	6	13.5	14.0	1	220	220
Yucaipa Valley Water District						
Well 48	23	10.5	14.0	1	200	200
Overlying Users						
Sharondale 1	20	20.3	31.1	1	330	330
Sharondale 2	19	25.2	27.5	1	340	340
Plantation 1	5	9.0	9.9	2	270	280
RCMHP 1	14	22.0	24.3	1	250	250
RCMHP 2	20	22.8	28.8	1	250	250
Tukwet A	9	7.3	8.1	9	181	230
Tukwet D	11	9.9	11.7	11	200	250

Aluminum. There were 29 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 31 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 was 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 6.5 ug/L in August 2020 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, the latest test, taken in April of 2022, indicated 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 33 water samples were taken during the reporting period and tested for iron. In 31 of these samples, iron concentration 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). City of Banning Well M3 had the highest concentration of iron during the reporting period at 140 ug/L, well below the current secondary MCL. 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 29 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 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. A concentration of 20ug/L (Dec 2019) was mistakenly reported in previous annual reports at BCVWD Well No. 16; actual concentration was below 20ug/L. 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 29 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 March 2020 at Banning C-2A and Banning C-04, both at 16 ug/L. Before the reporting period, a concentration of 16 ug/L was reported at BCVWD 26 in December 2018. 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.

Vanadium. Two water samples were tested for vanadium during the reporting period from SMWC's Well 4 and YVWD No. 48. Vanadium at SMWC Well 4 has been consistently above the state Notification Level of 50 ug/L; latest test indicates a concentration of 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 29 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 29 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.

4.2.3 Organic Compounds

There were over 3,300 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) – 26 samples collected all reported below the reporting level of 0.5 ug/L. Current MCL is 5 ug/L.
- ✓ Tetrachloroethylene (PCE) - 26 samples collected all reported below the reporting level of 0.5 ug/L. Current MCL is 5 ug/L.
- ✓ Dibromo-chloropropane (DBCP) - 35 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 4 at 8.8 (April 2022) and Tukwet A at 8.7 (Aug 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 BCVWD No. 22 BCVWD No. 25, BCVWD No. 29, SMHOA No. 1 and SMHOS No. 2 at 8.0, BCVWD No. 3, and BCVWD No. 21, at 8.1. The lowest pH

was reported from Plantation No. 1 at 7.5 (Mar 2020). 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 2020-2024 reporting period, most wells had turbidity levels below 0.5 NTU. BCVWD 3's turbidity was reported at 1.3 NTU in December 2023 and BCVWD No. 29 at 1.2 (Nov 2023).

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.

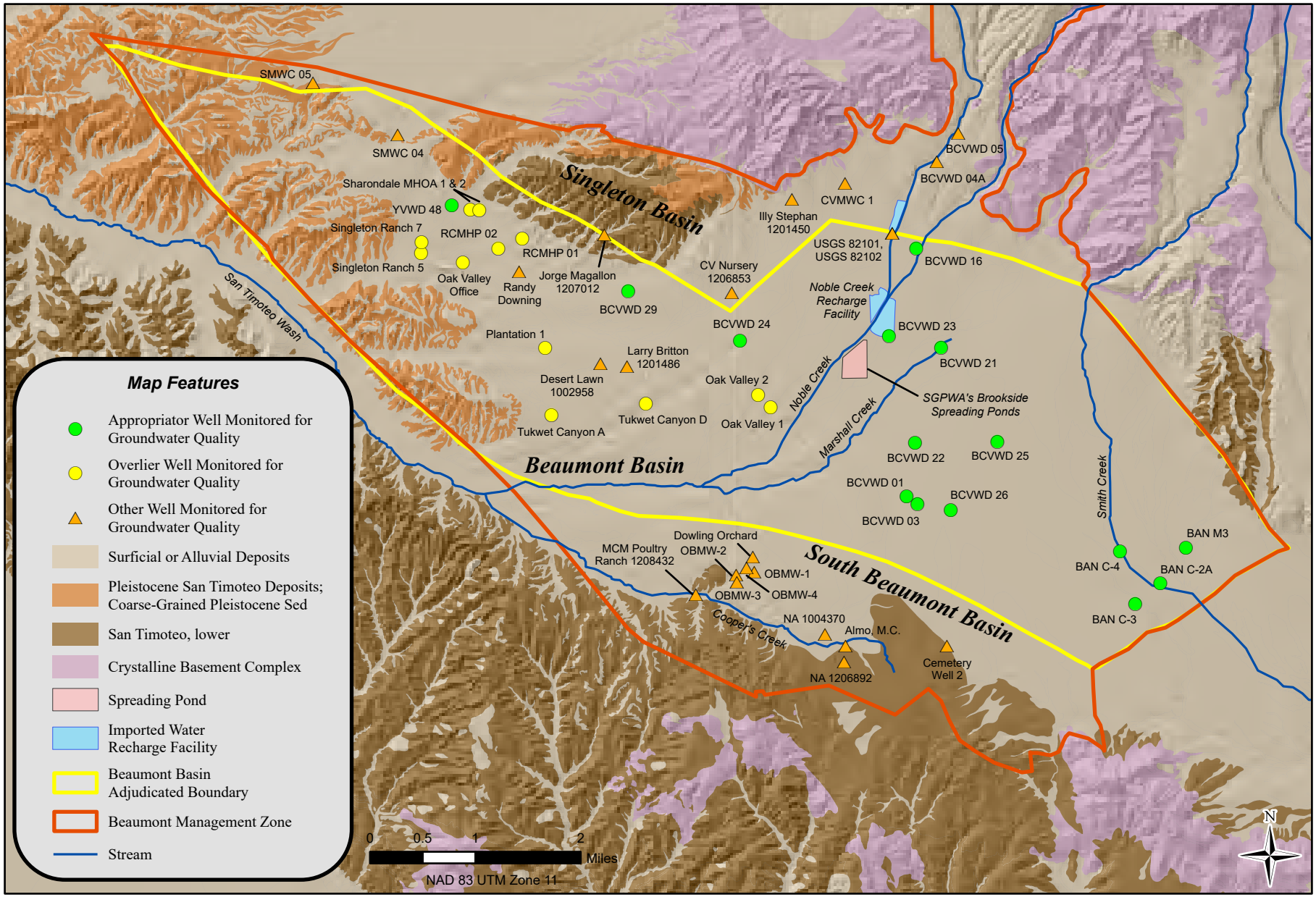
- ✓ Figure 4-4 – Noble Creek Area
- ✓ Figure 4-5 – East of Marshall Creek
- ✓ Figure 4-6 – Banning Area
- ✓ Figure 4-7 – West of Noble Creek
- ✓ Figure 4-8 – Northwest Area
- ✓ Figure 4-9 – Singleton Basin
- ✓ Figure 4-10 – South Beaumont Basin

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

DRAFT



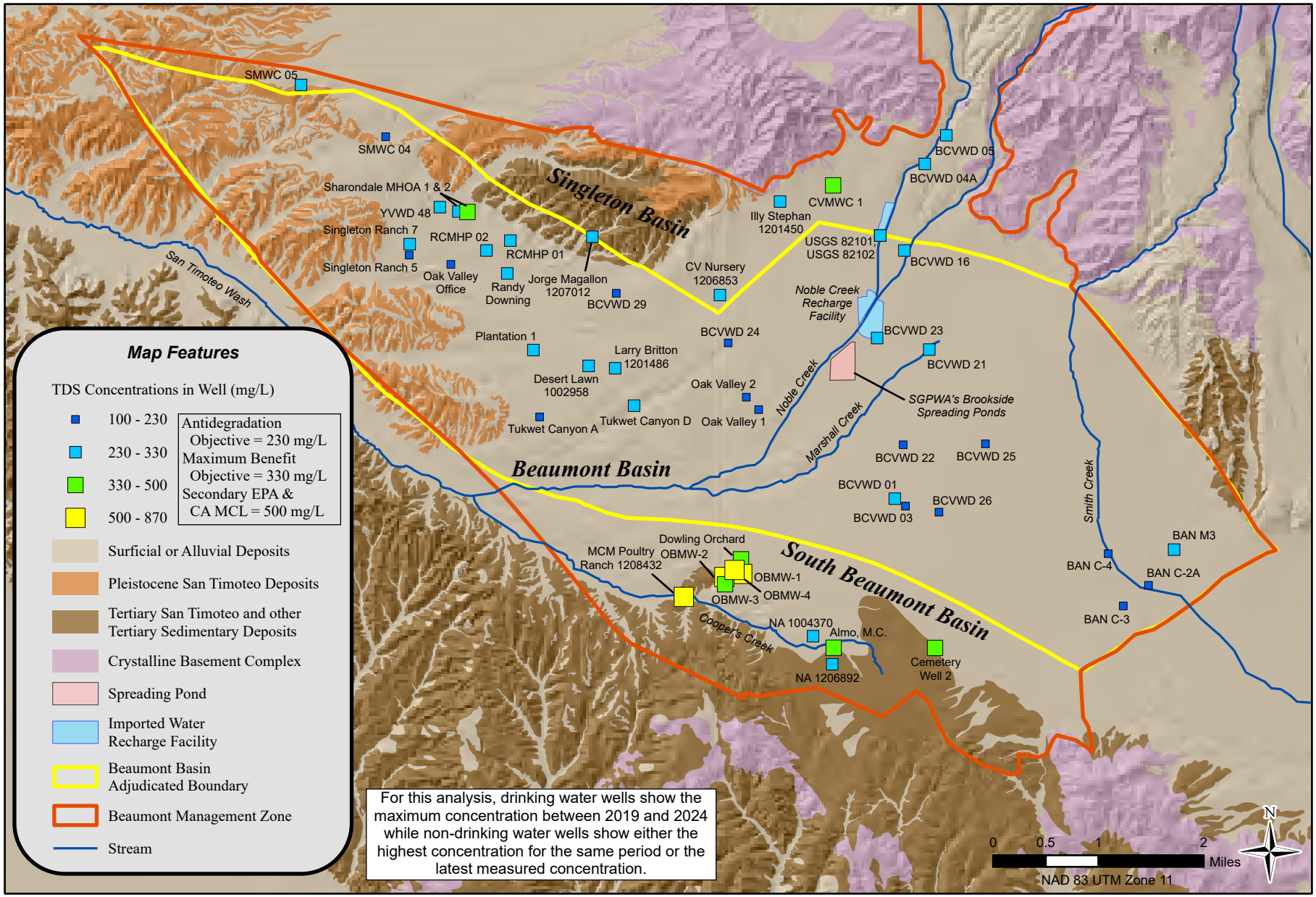
Alda, Inc. *in association with* Thomas Harder & Co. Groundwater Consulting

March 2025

Wells with Groundwater Quality Data in the Beaumont Basin

Figure 4-1

DRAFT



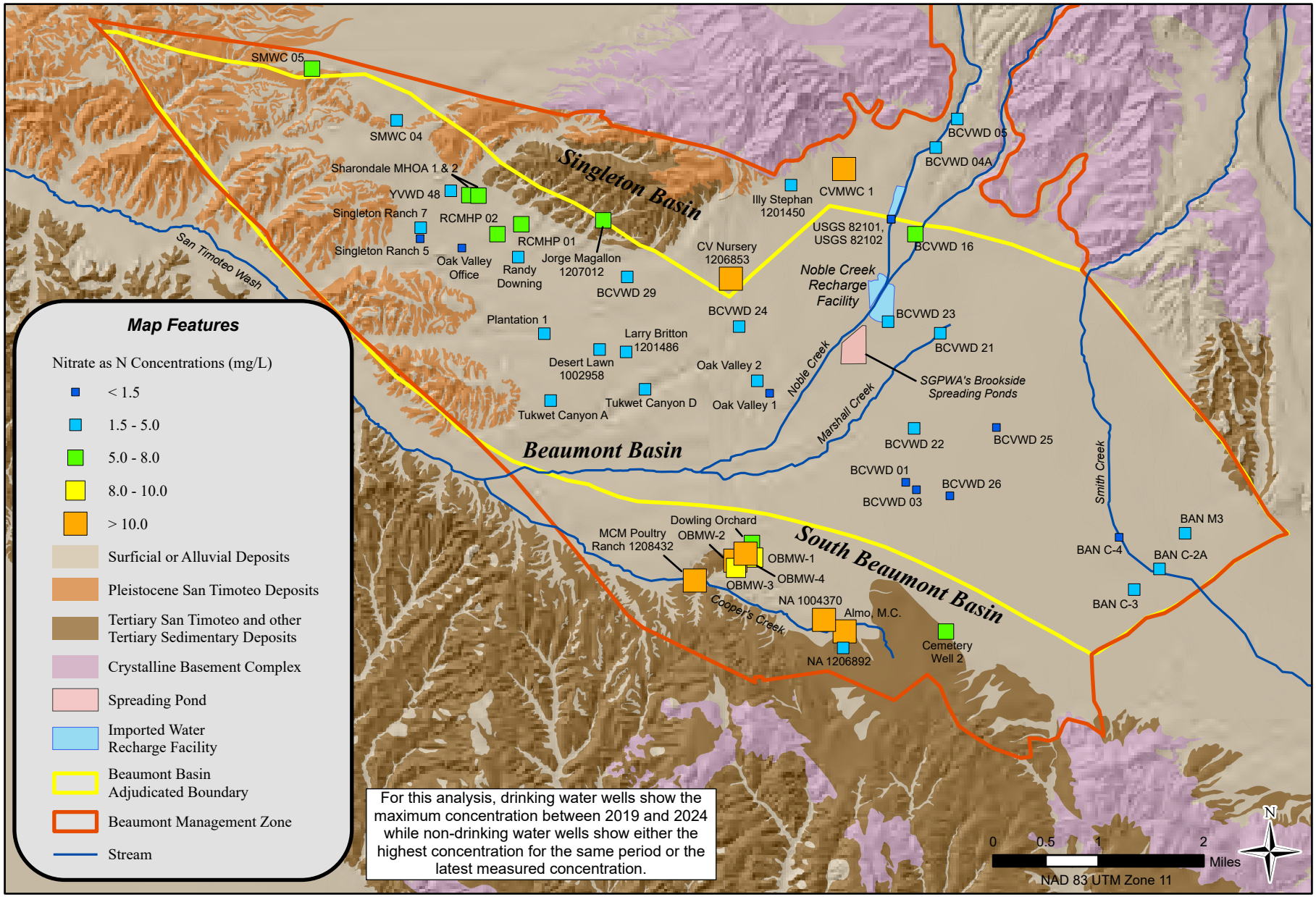
Alda, Inc. in association with Thomas Harder & Co. Groundwater Consulting

March 2025

Total Dissolved Solids in Groundwater (Maximum Concentrations 2019 to 2024

Figure 4-2

DRAFT

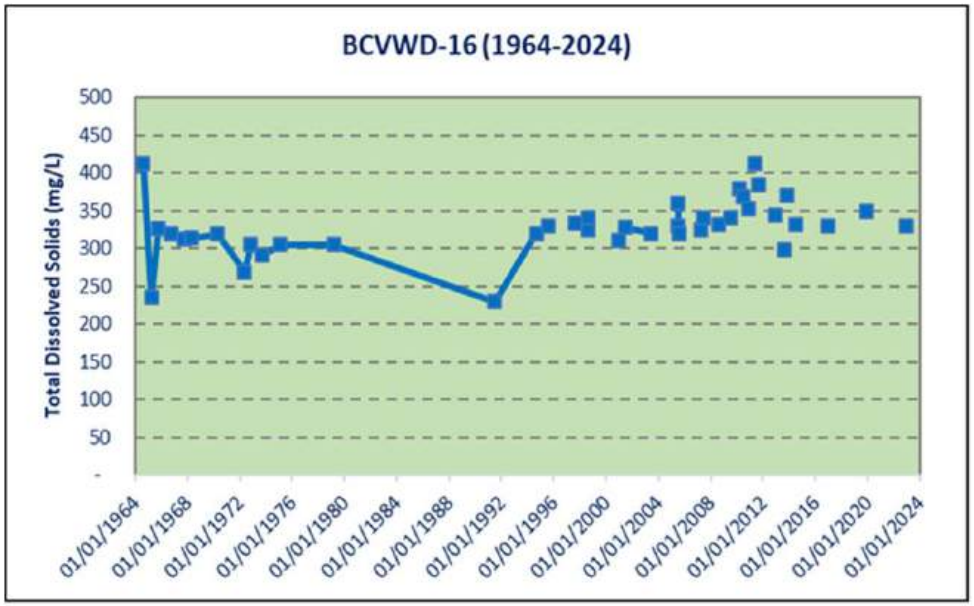


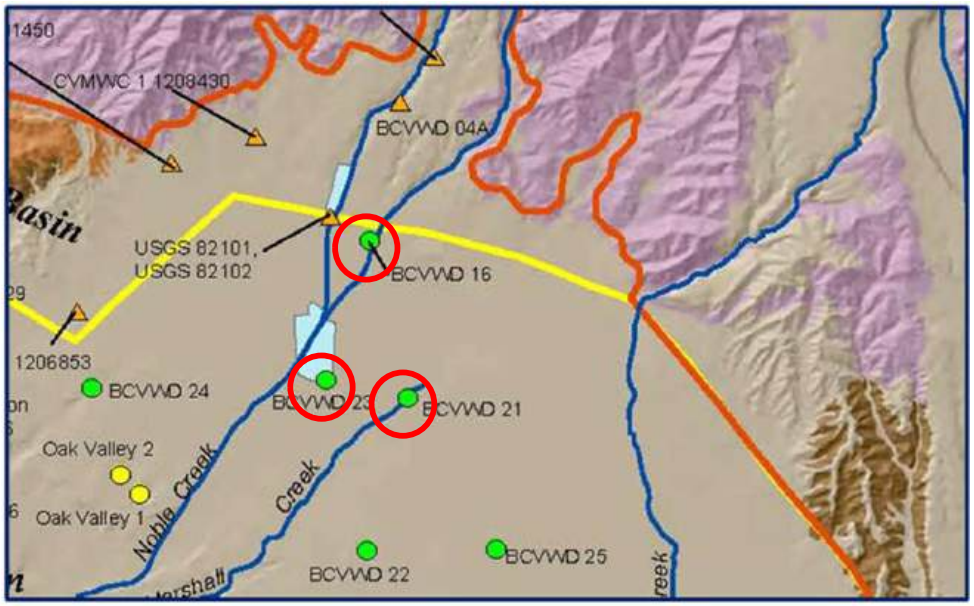
Alda, Inc. *in association with* Thomas Harder & Co. Groundwater Consulting

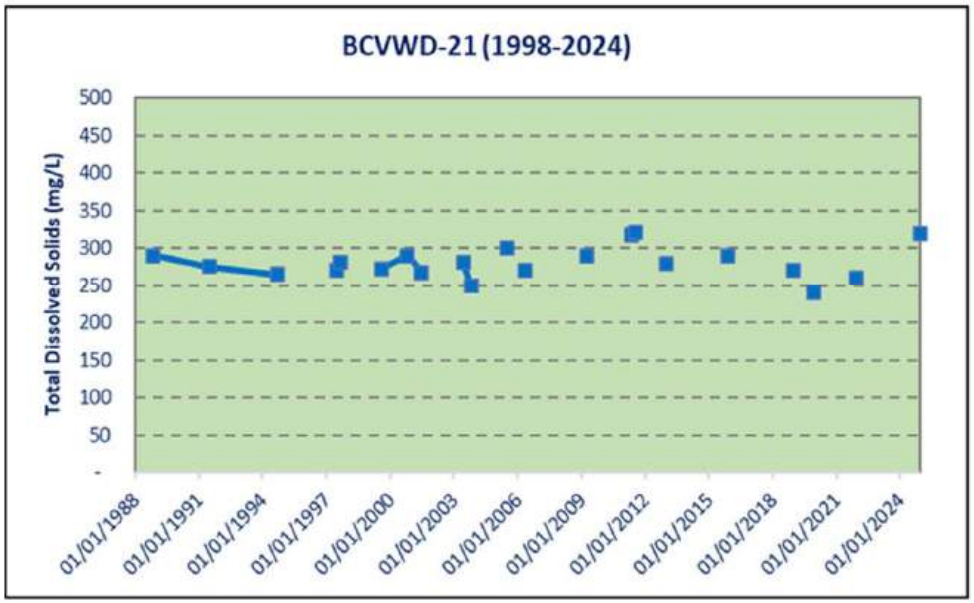
March 2025

Nitrate in Groundwater (Maximum Concentrations 2019 to 2024)

Figure 4-3







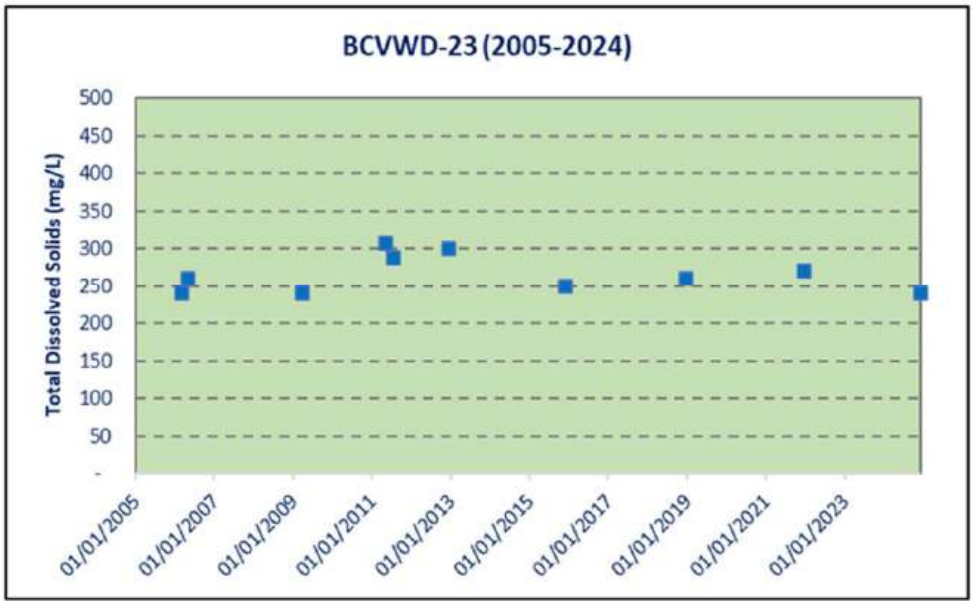
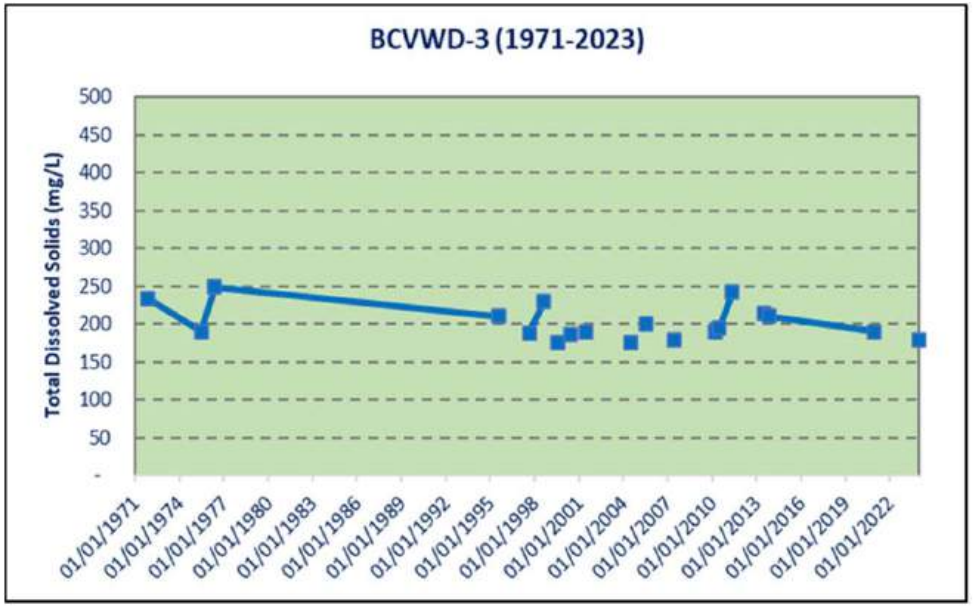
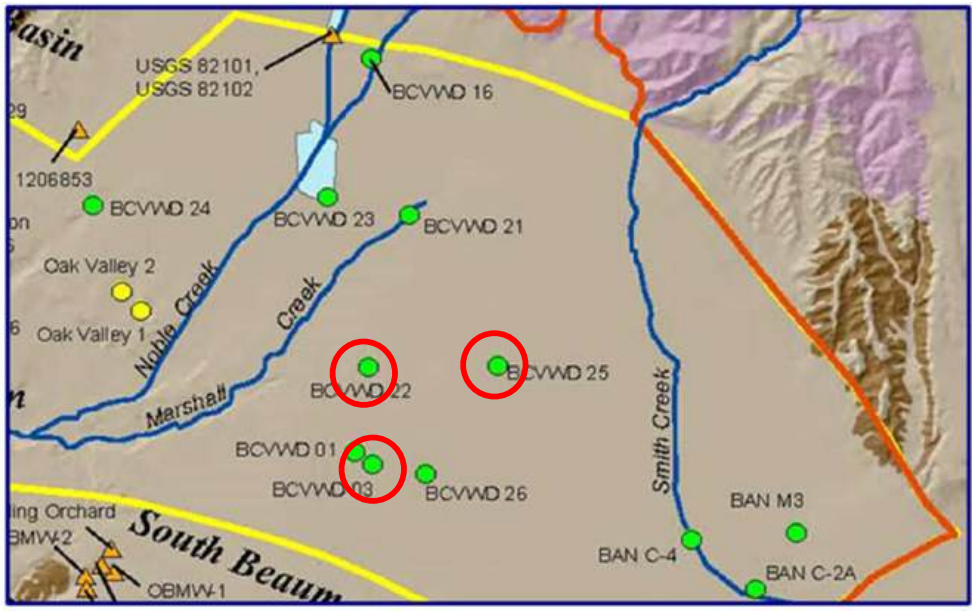
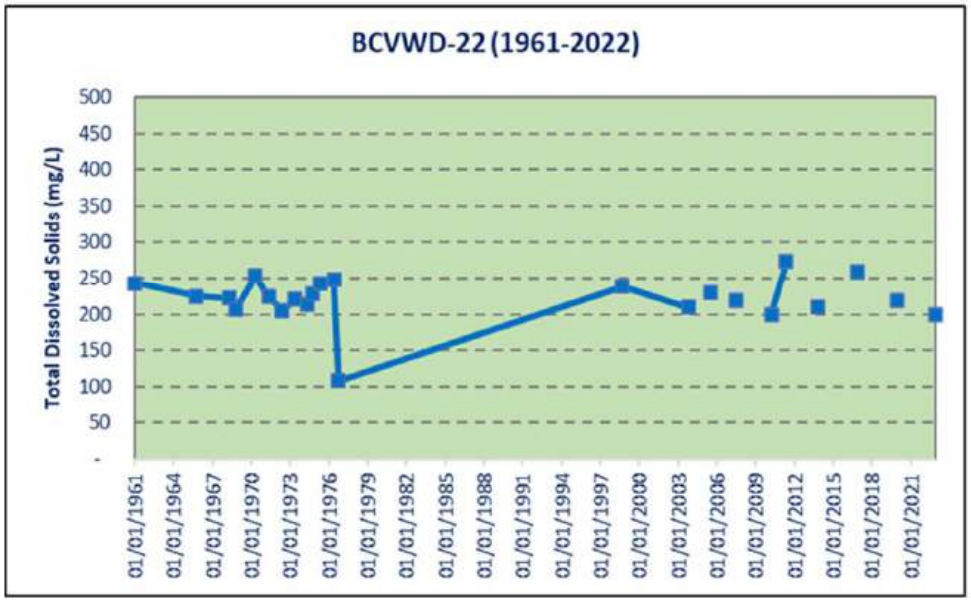


Figure 4-4
Noble Creek Area – Historical Total Dissolved Solids Concentration







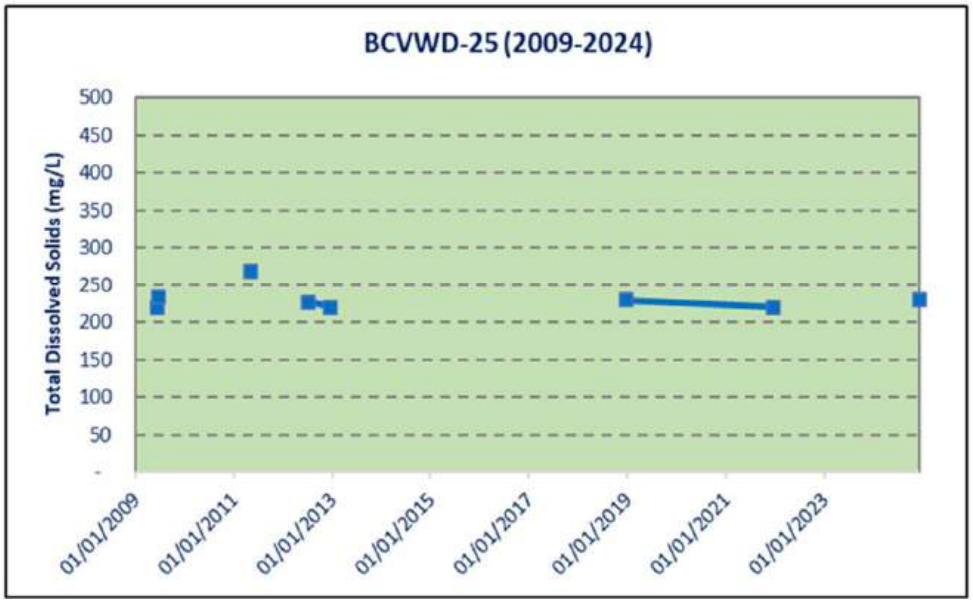
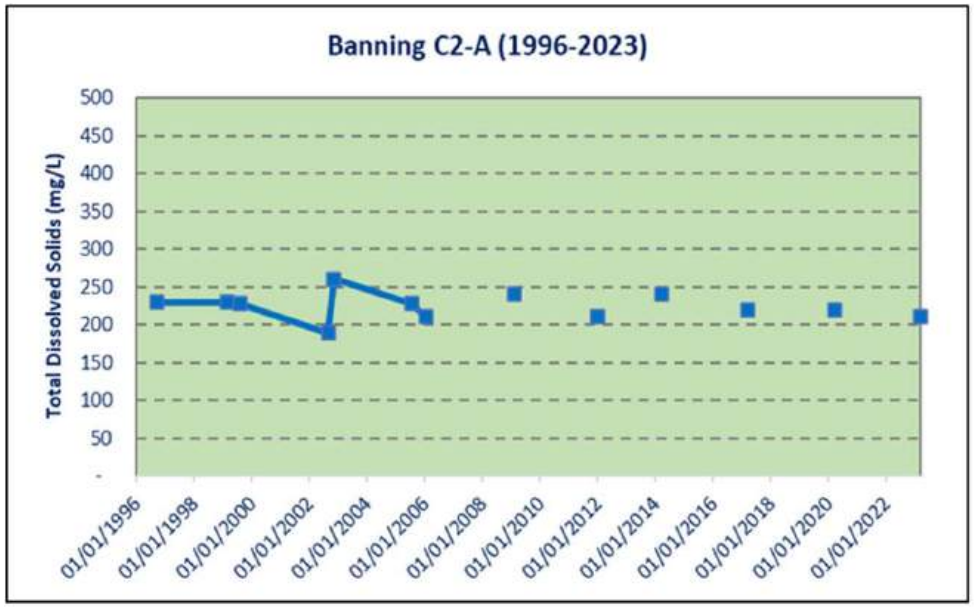
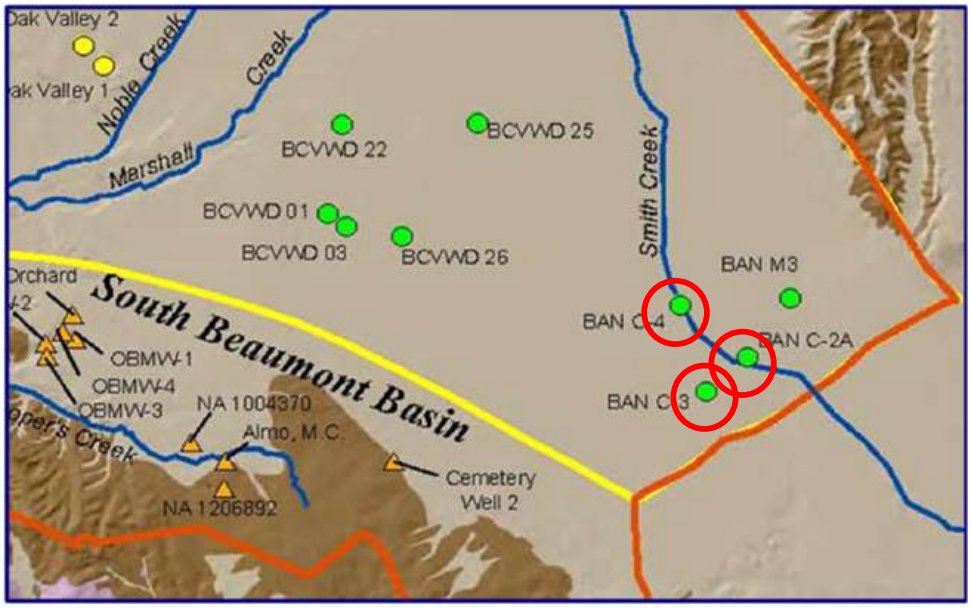


Figure 4-5
East of Marshall Creek – Historical Total Dissolved Solids Concentration





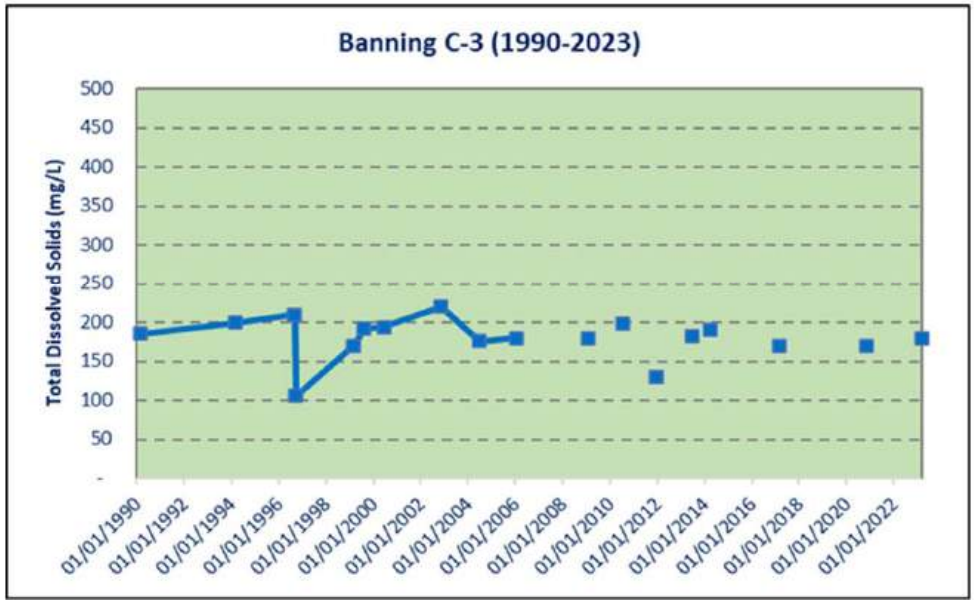
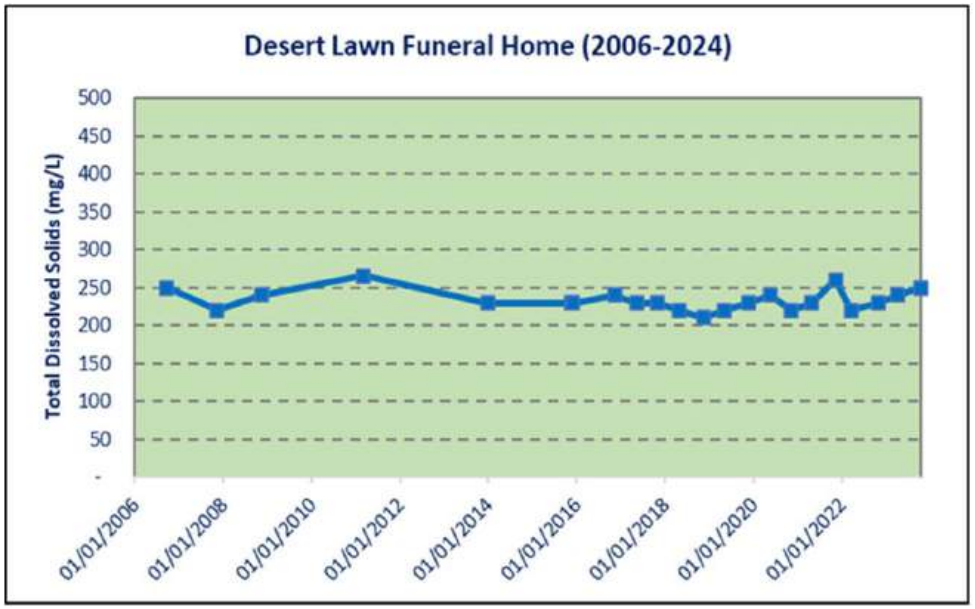
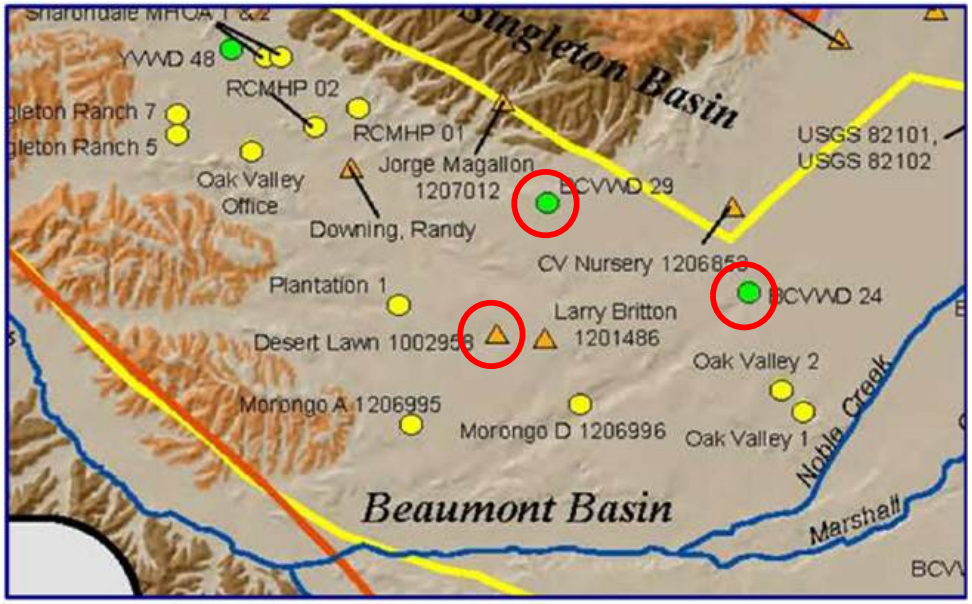
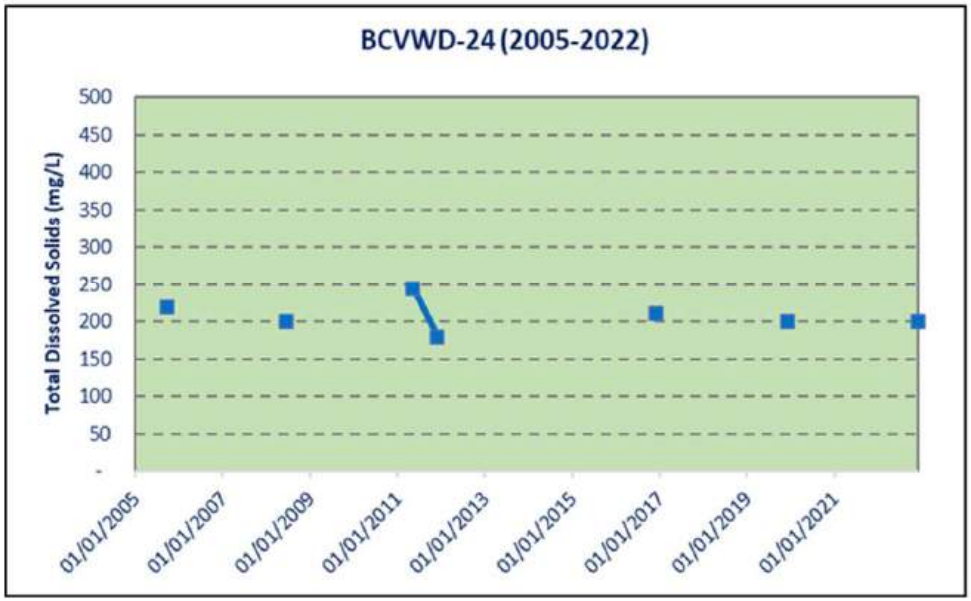


Figure 4-6
Banning Area – Historical Total Dissolved Solids Concentration







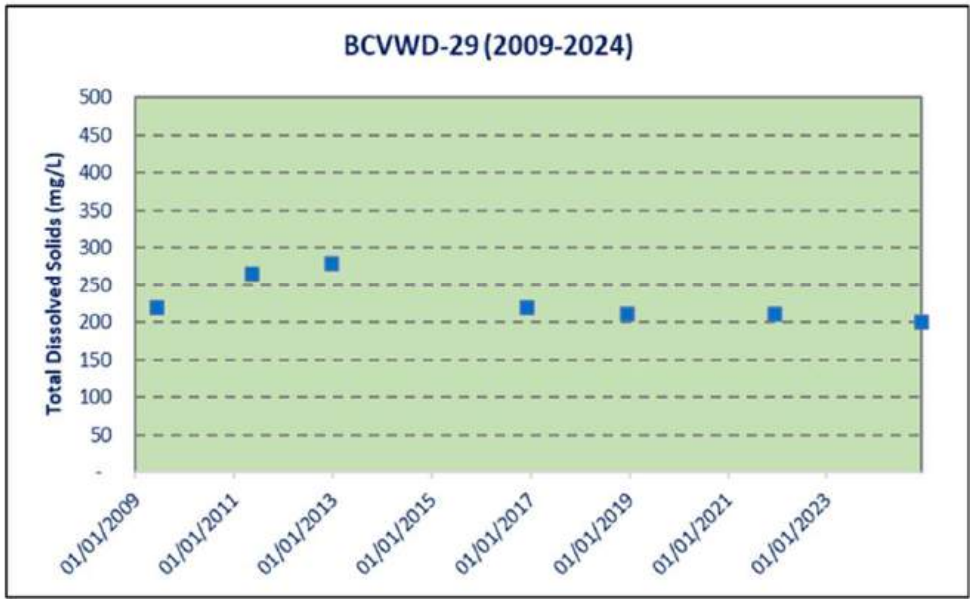
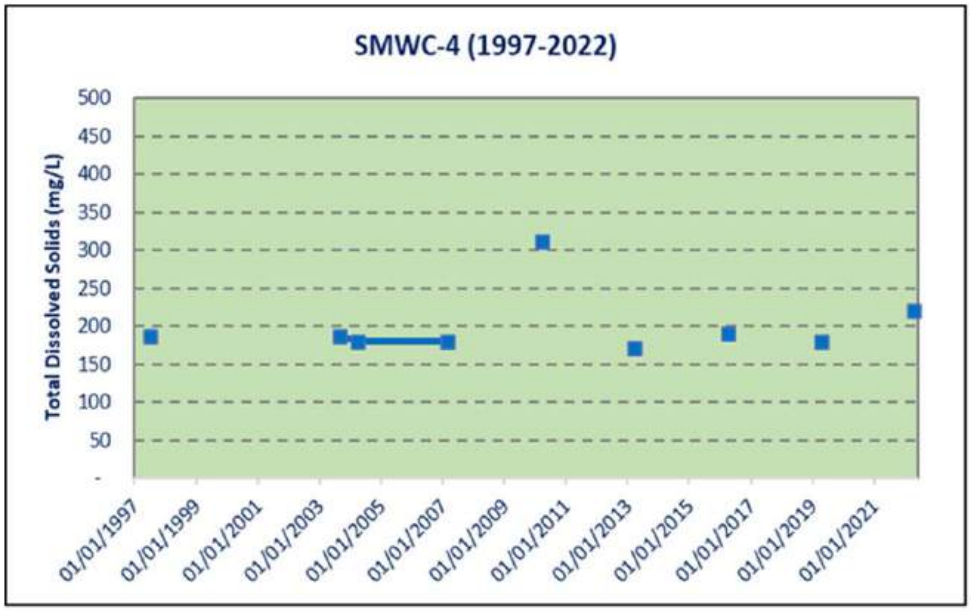
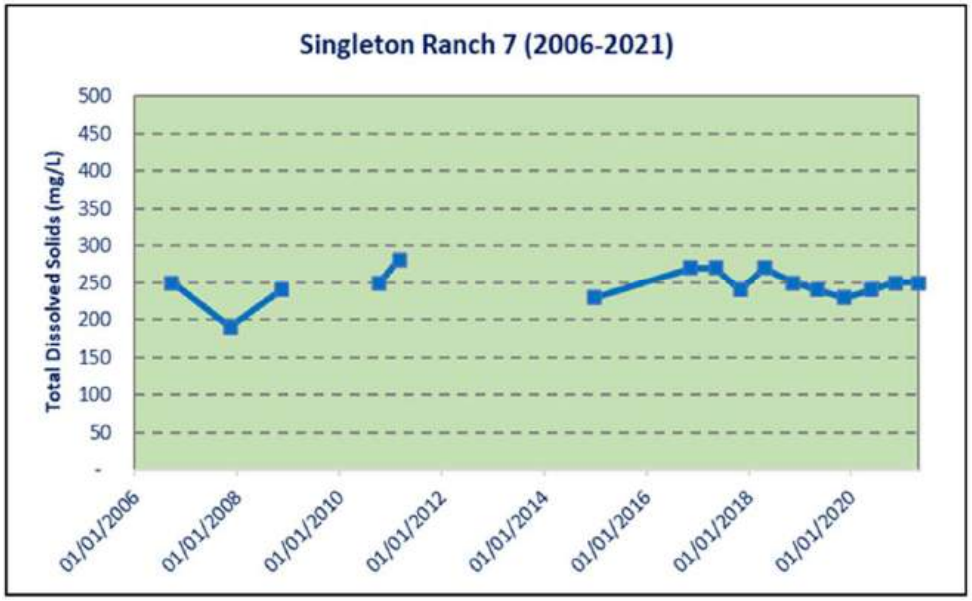


Figure 4-7
West of Noble Creek – Historical Total Dissolved Solids Concentration





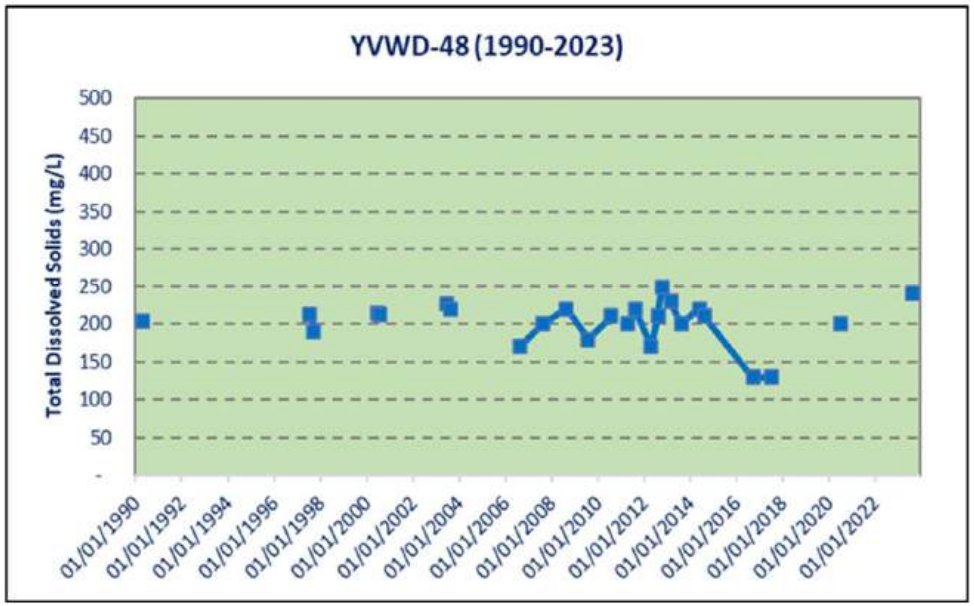
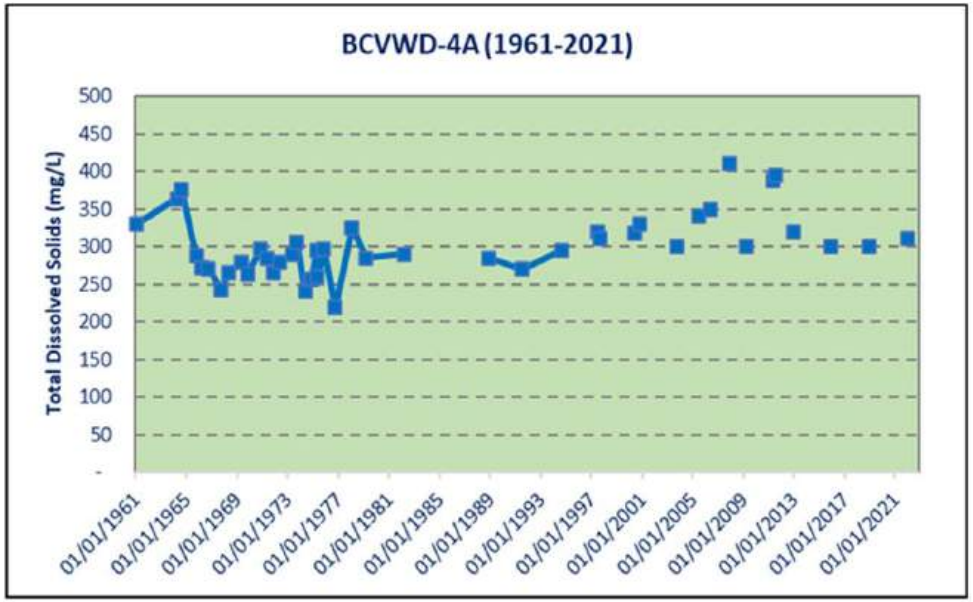
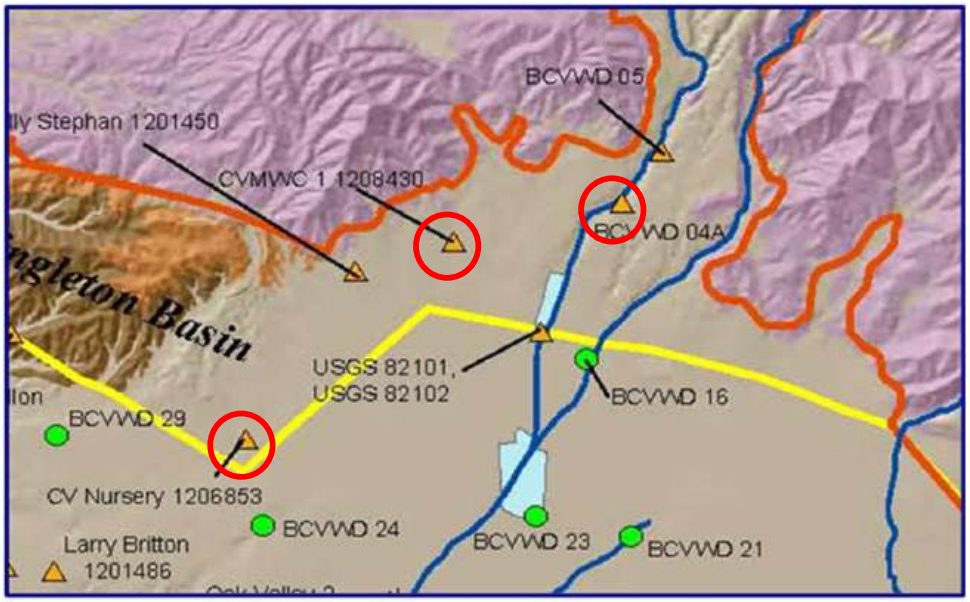


Figure 4-8
Northwest Area – Historical Total Dissolved Solids Concentration





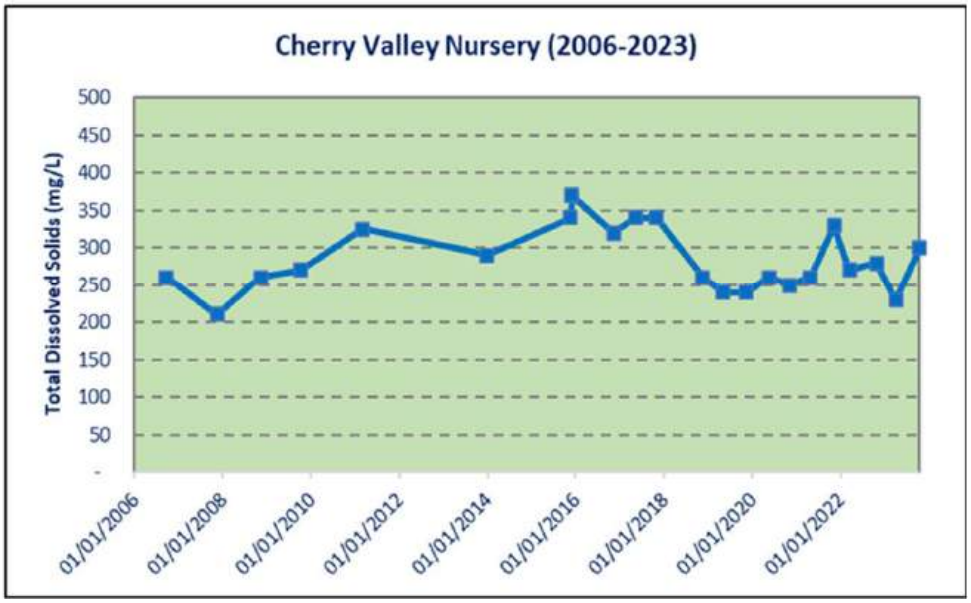
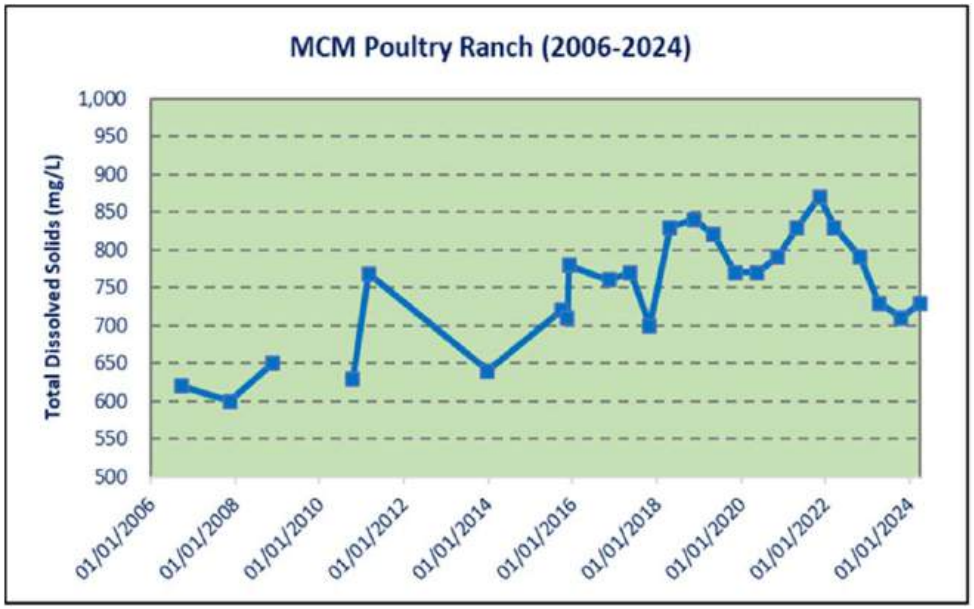
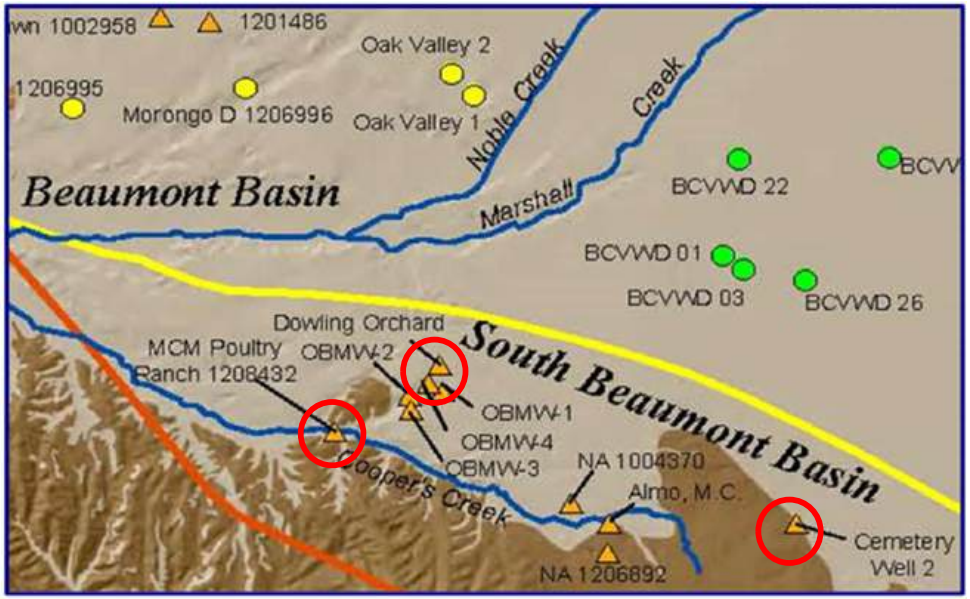
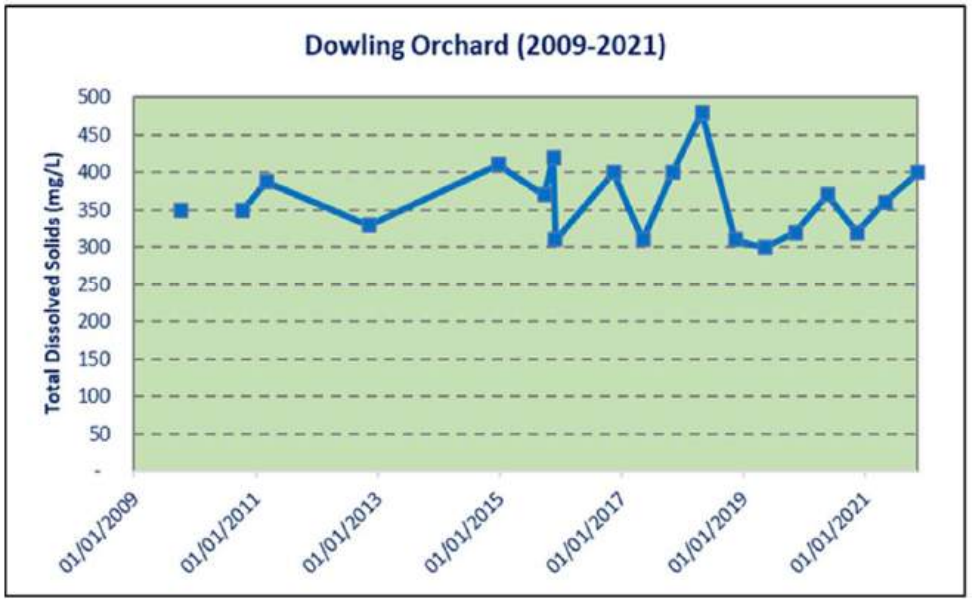


Figure 4-9
Singleton Basin – Historical Total Dissolved Solids Concentration







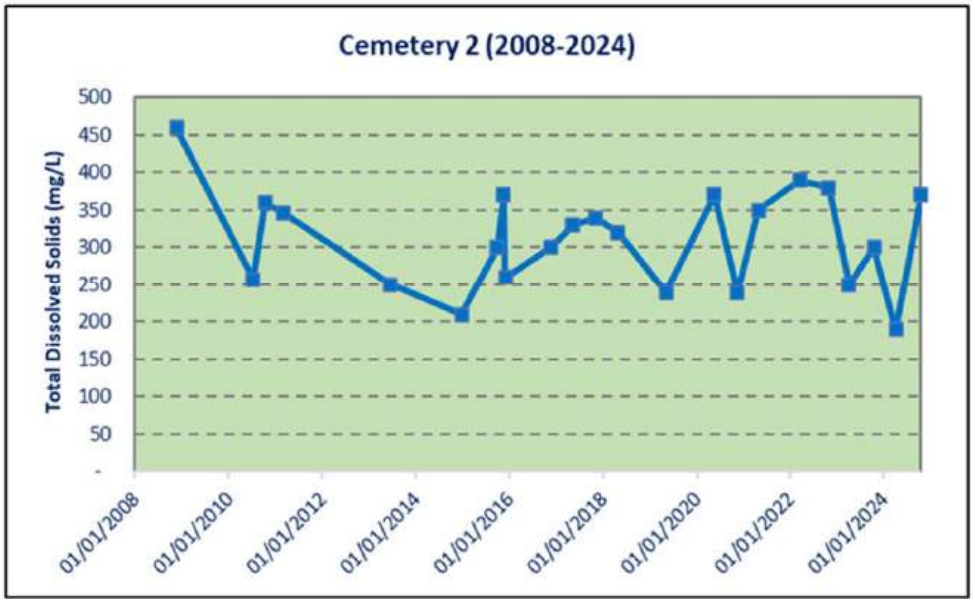
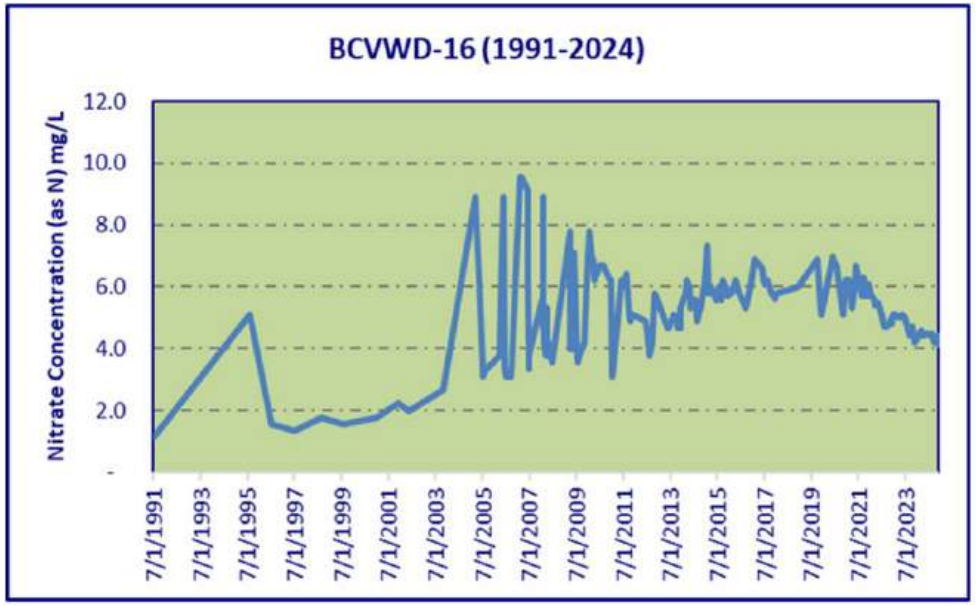
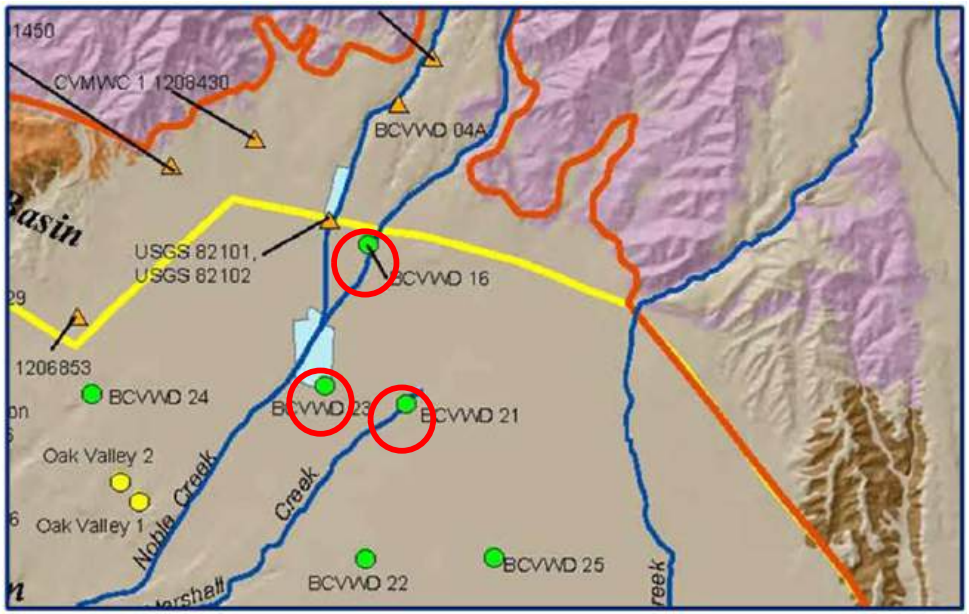
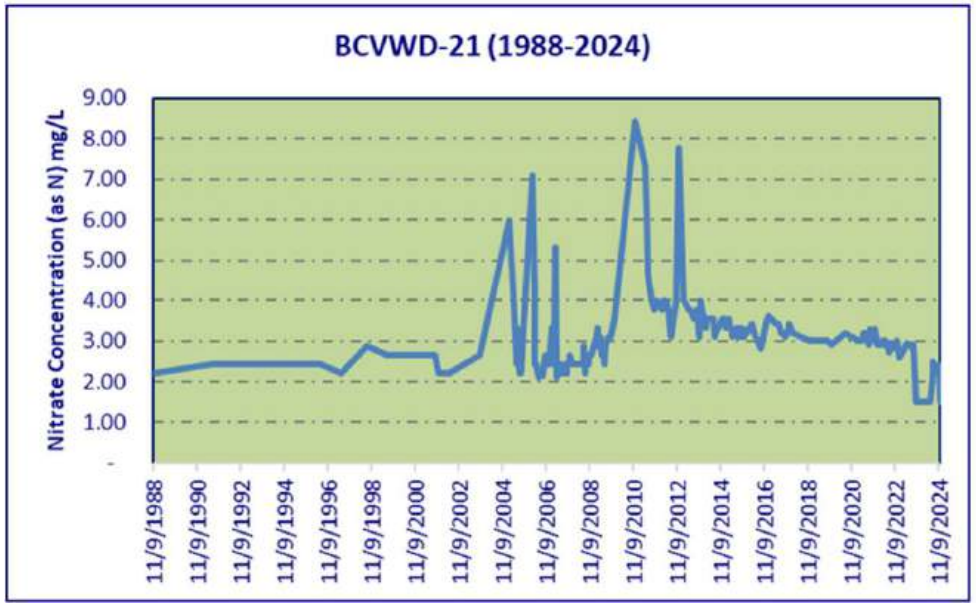


Figure 4-10
South Beaumont Basin – Historical Total Dissolved Solids Concentration







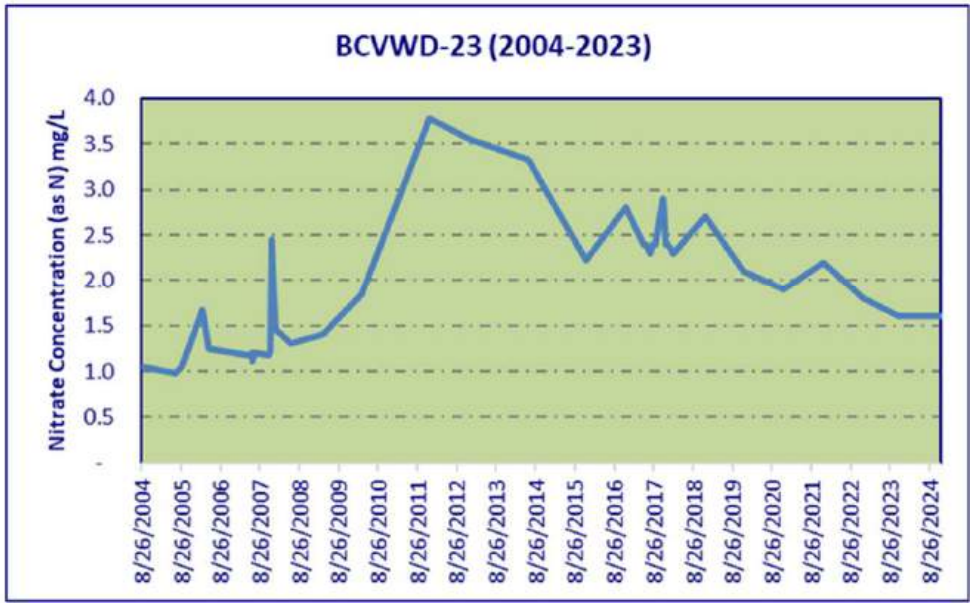
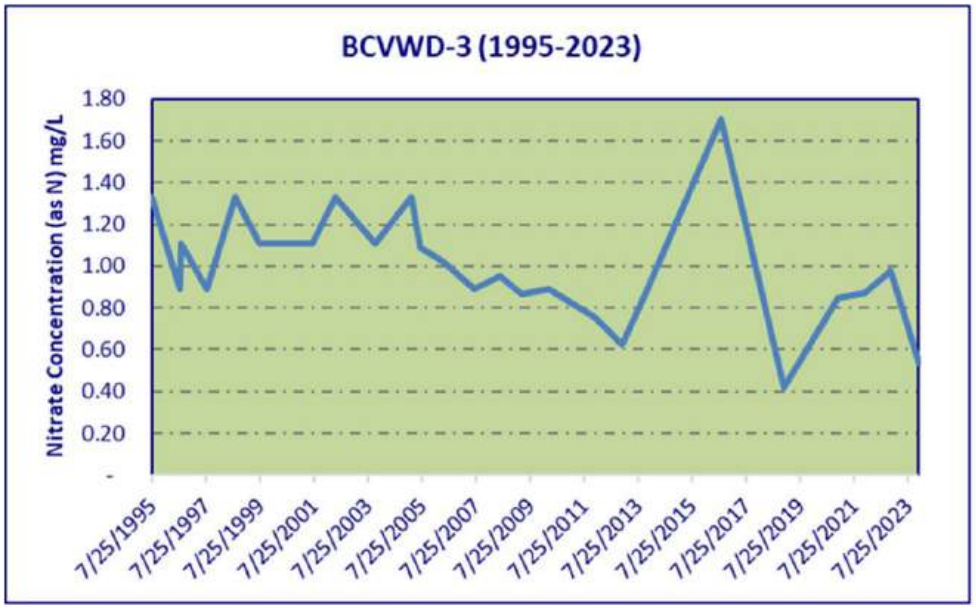
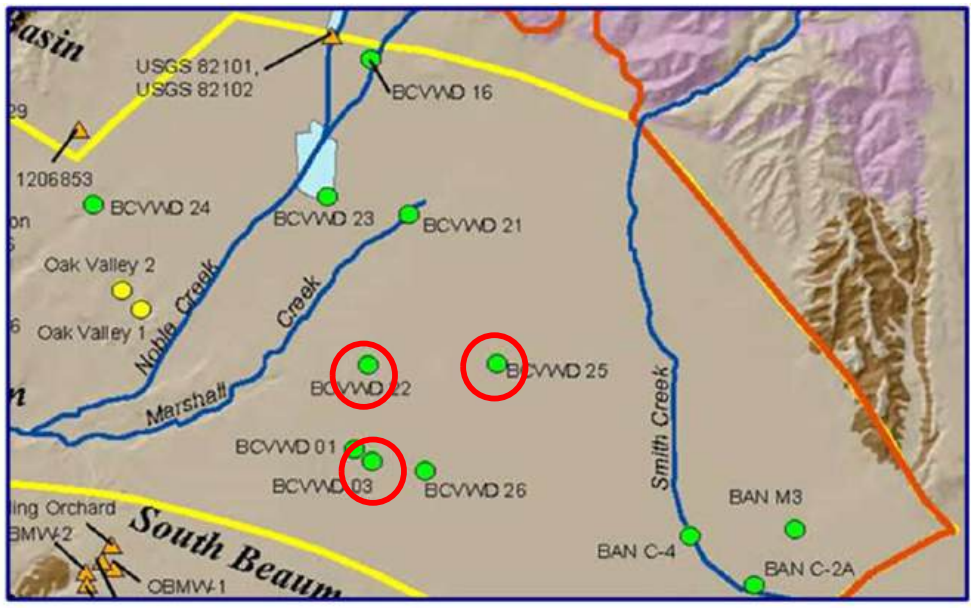
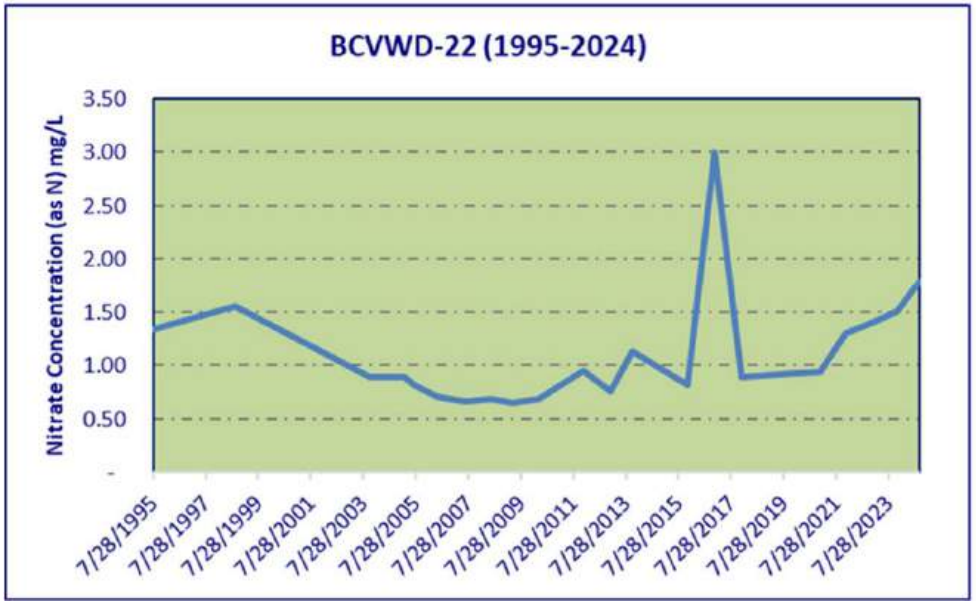


Figure 4-11
Noble Creek Area – Historical Nitrate Concentration







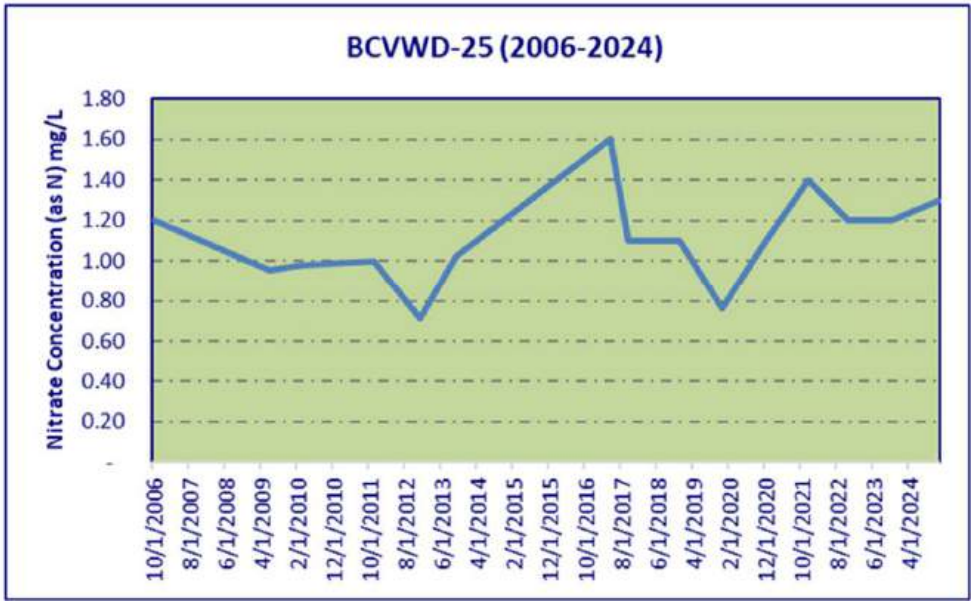
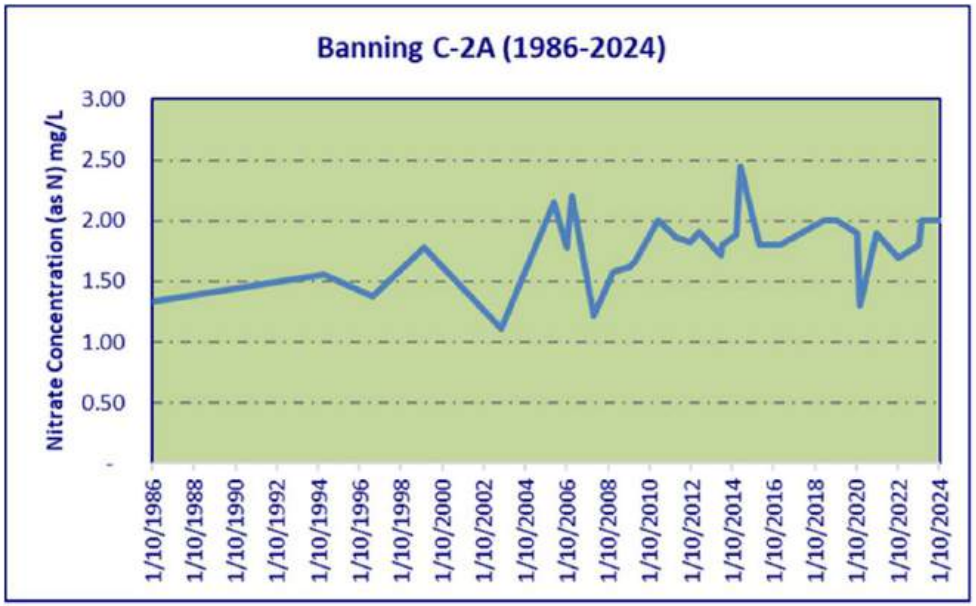


Figure 4-12
East of Marshall Creek – Historical Nitrate Concentration



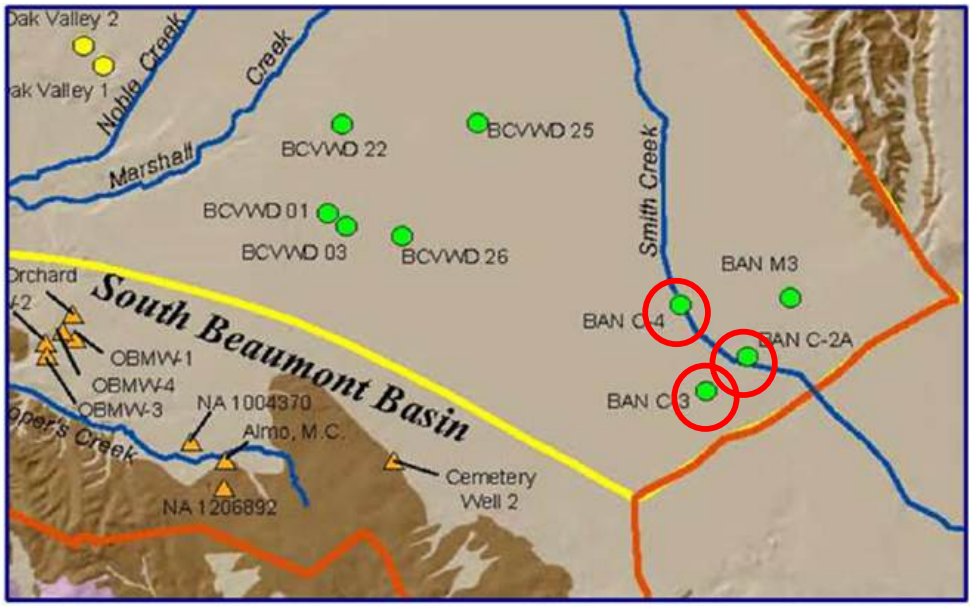
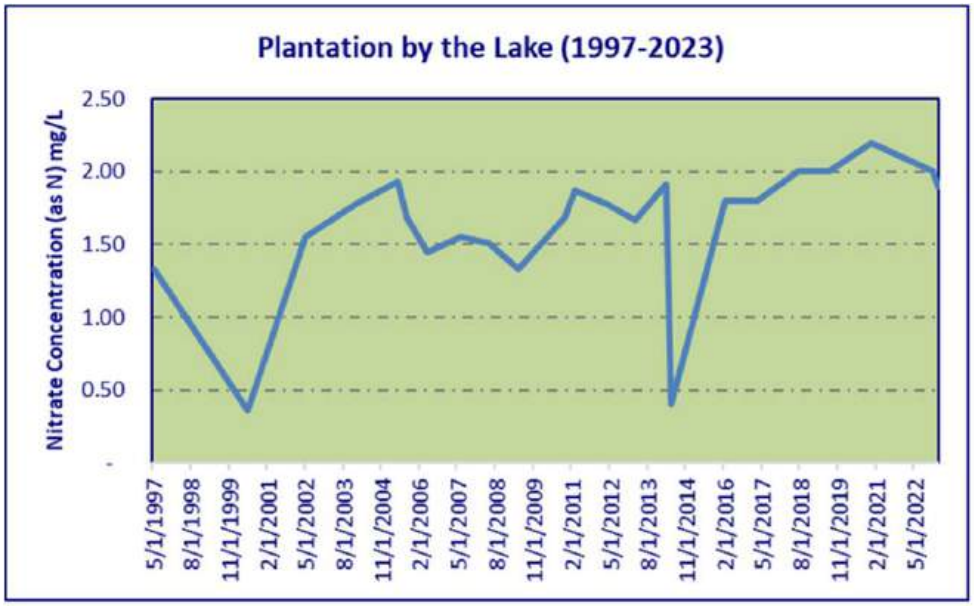
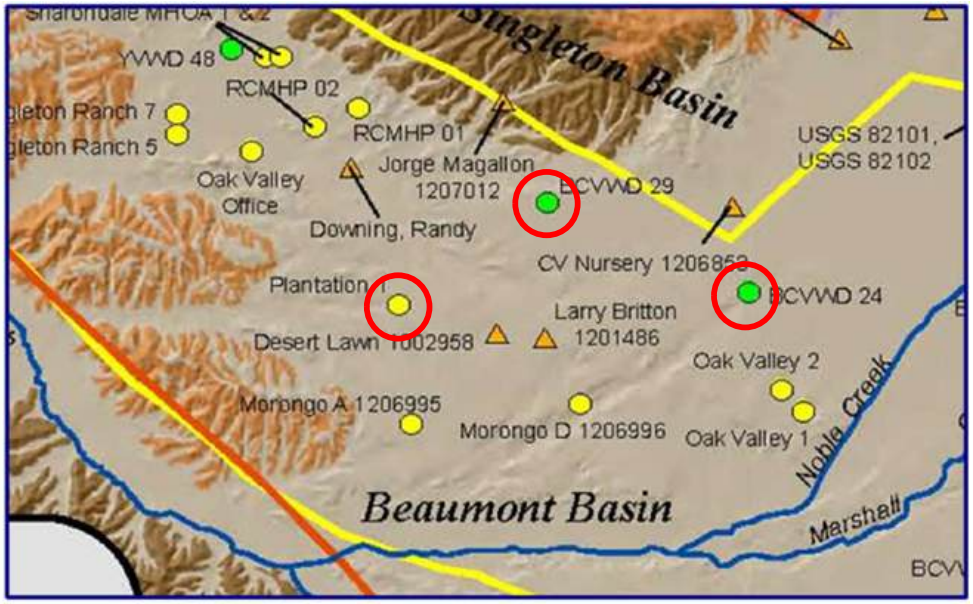
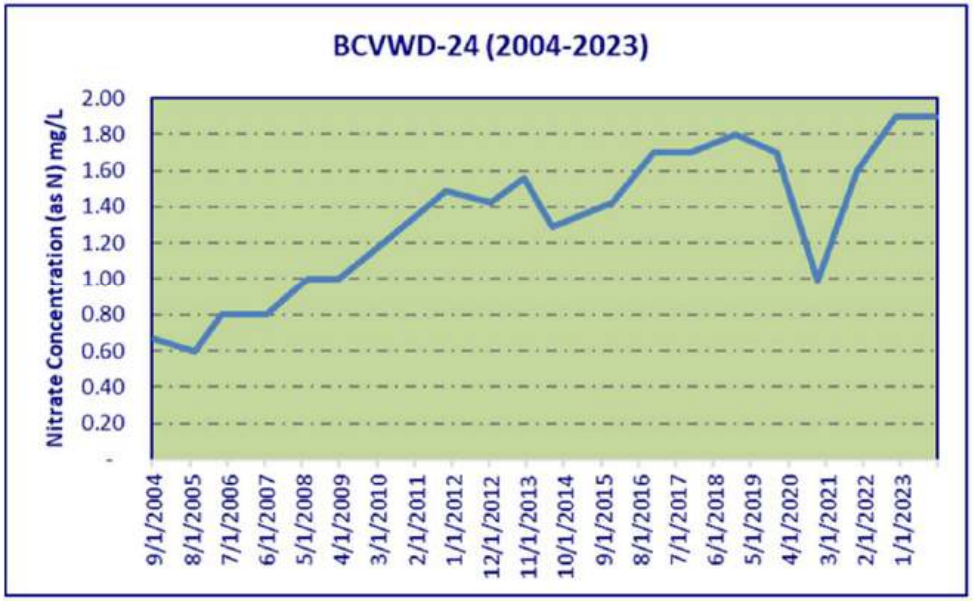


Figure 4-13
Banning Area – Historical Nitrate Concentration







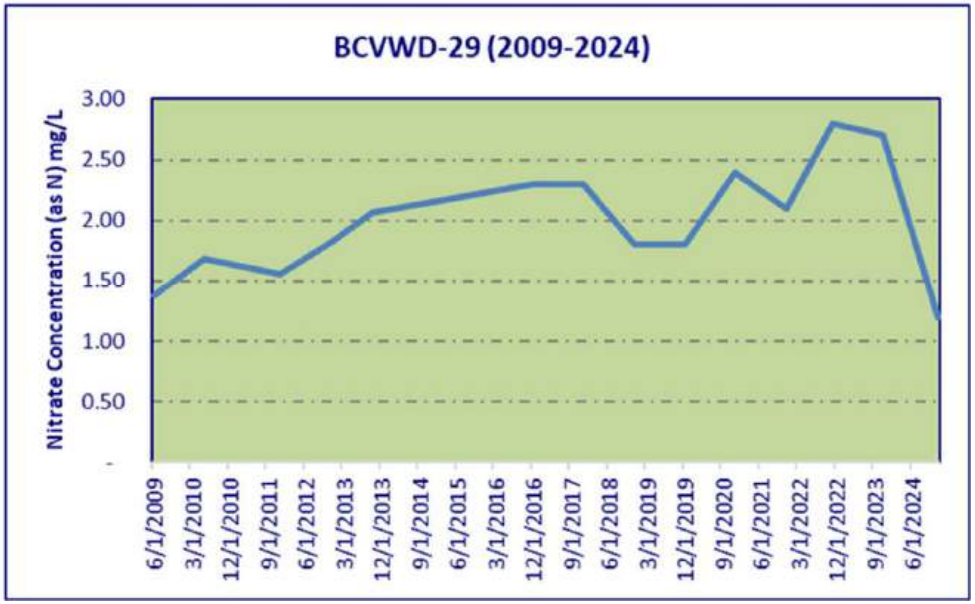
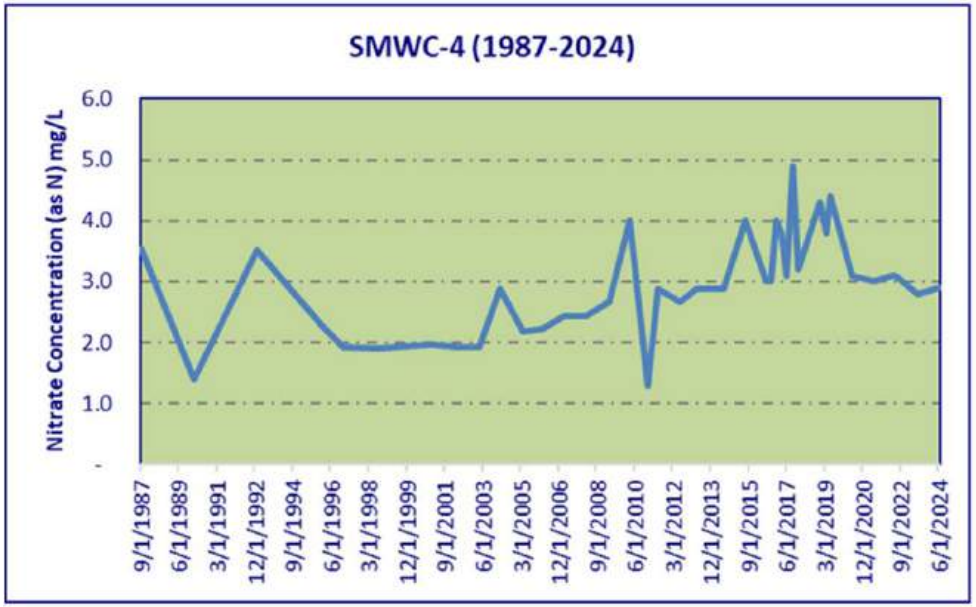
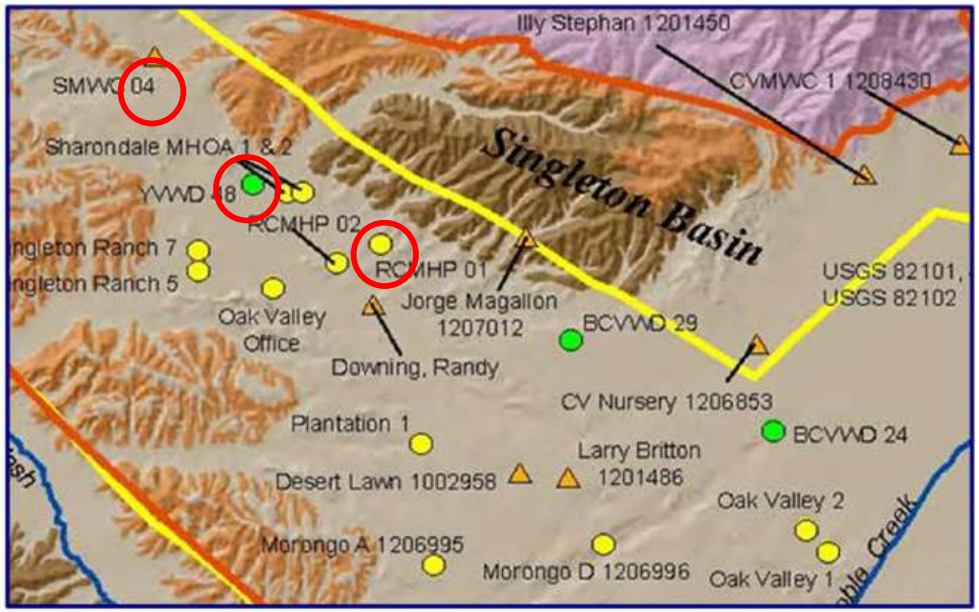
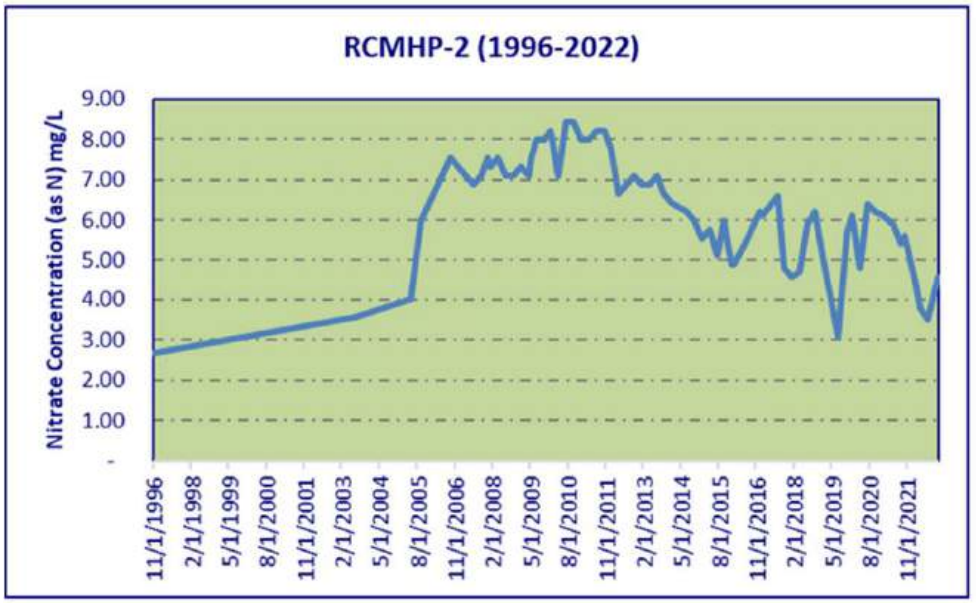


Figure 4-14
West of Noble Creek – Historical Nitrate Concentration







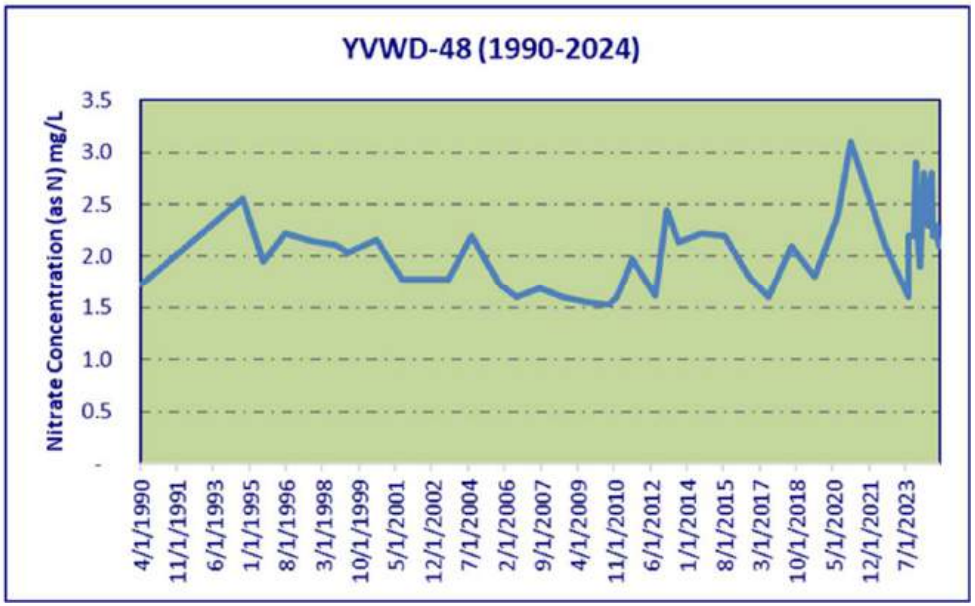
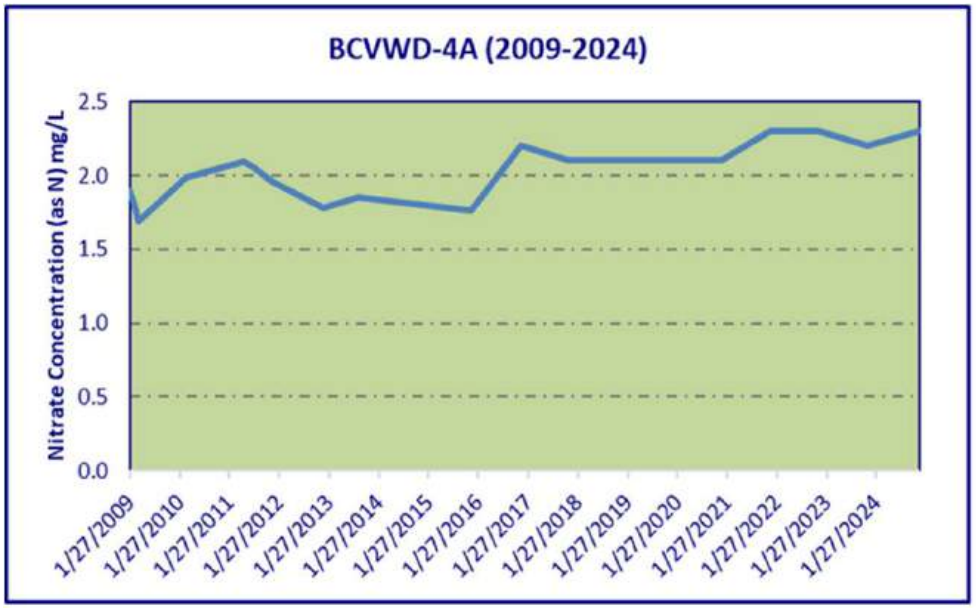
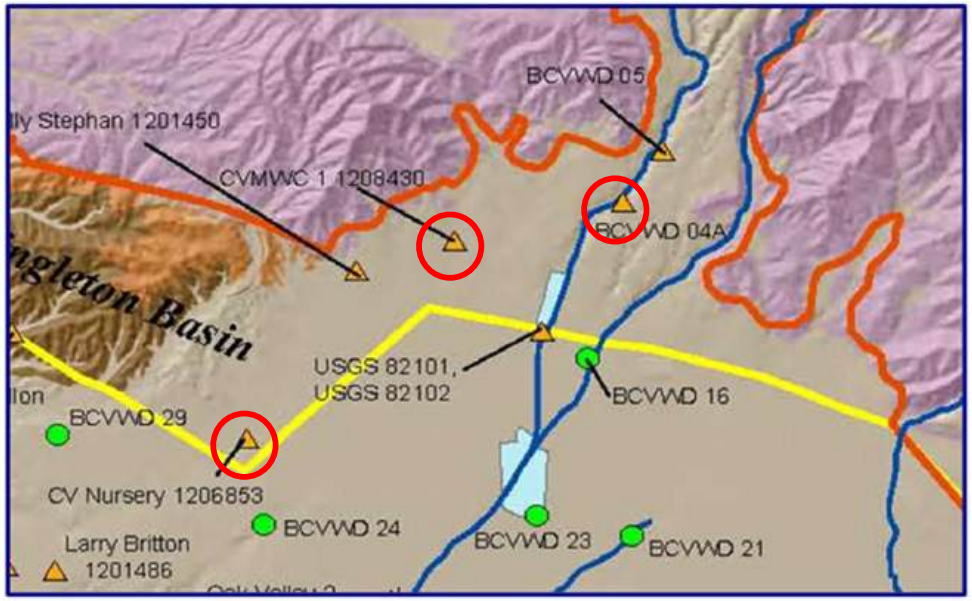
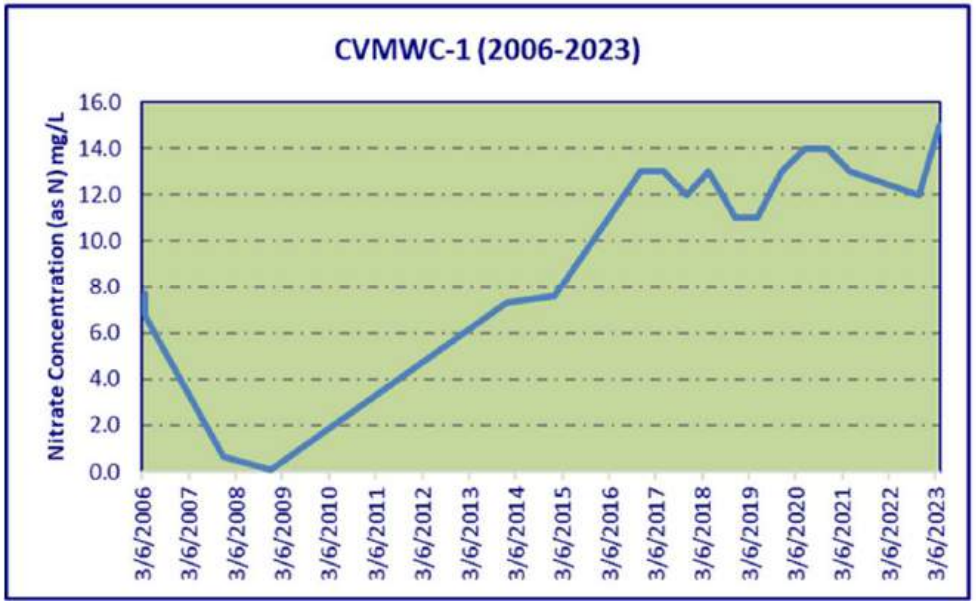


Figure 4-15
Northwest Area – Historical Nitrate Concentration







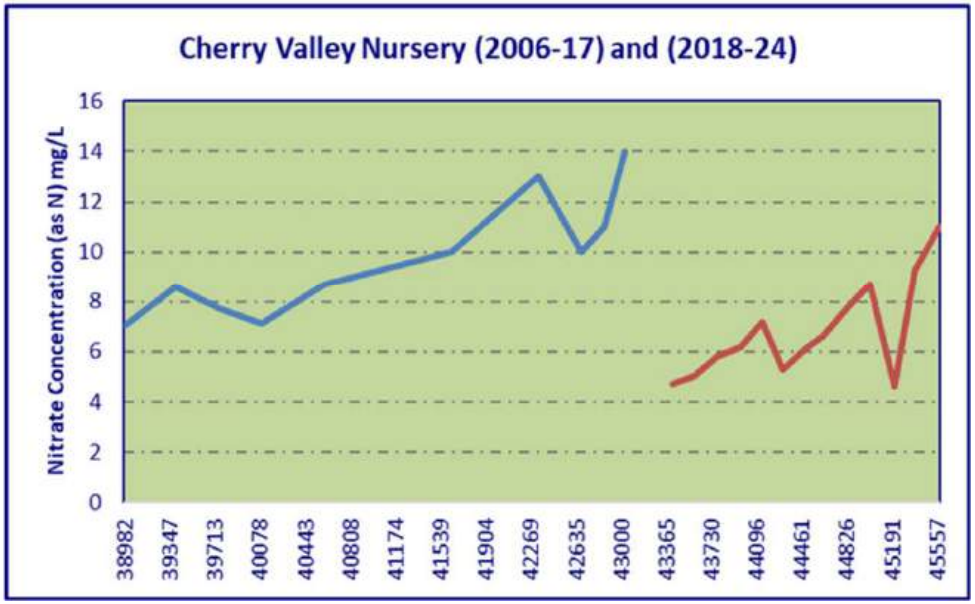
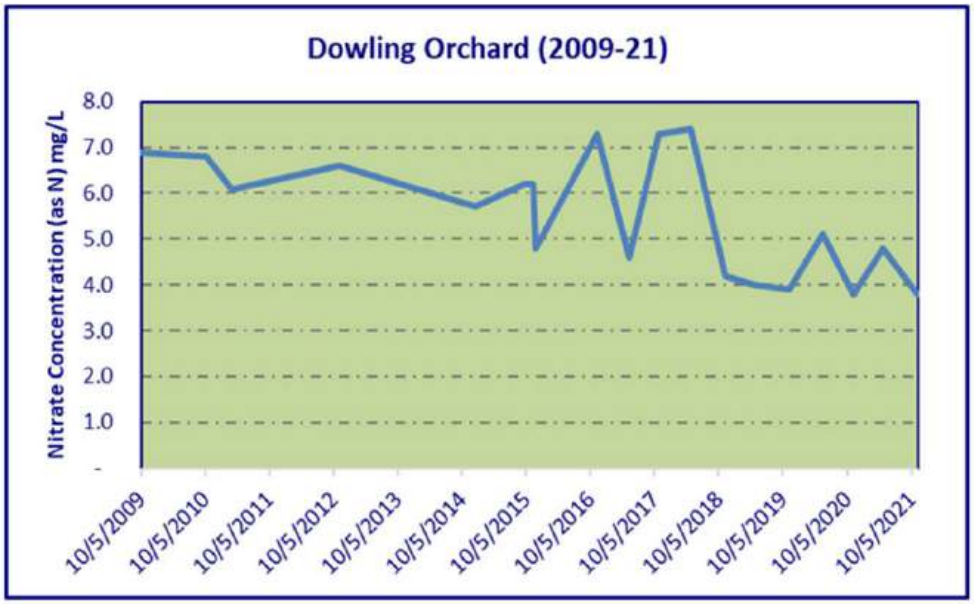
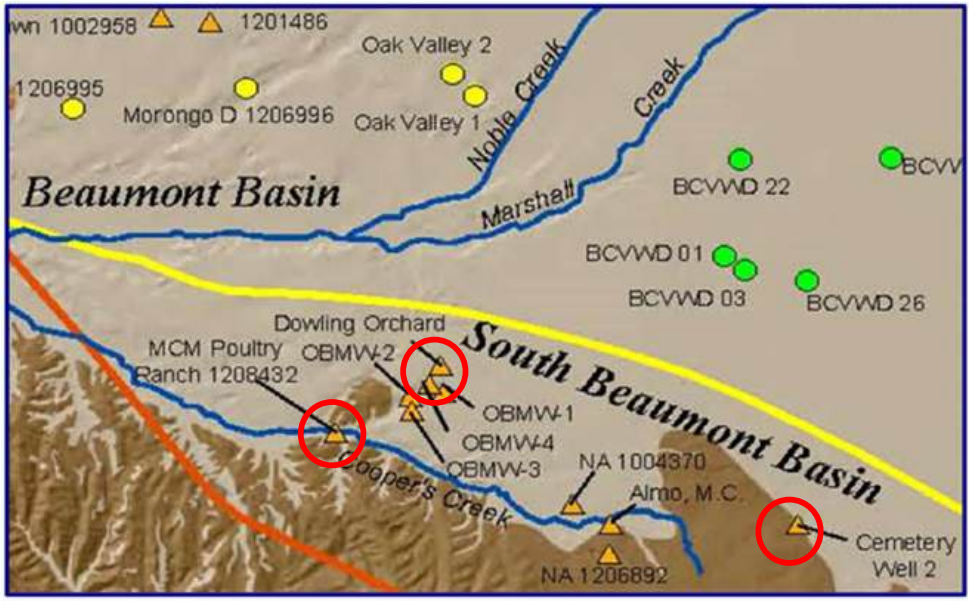
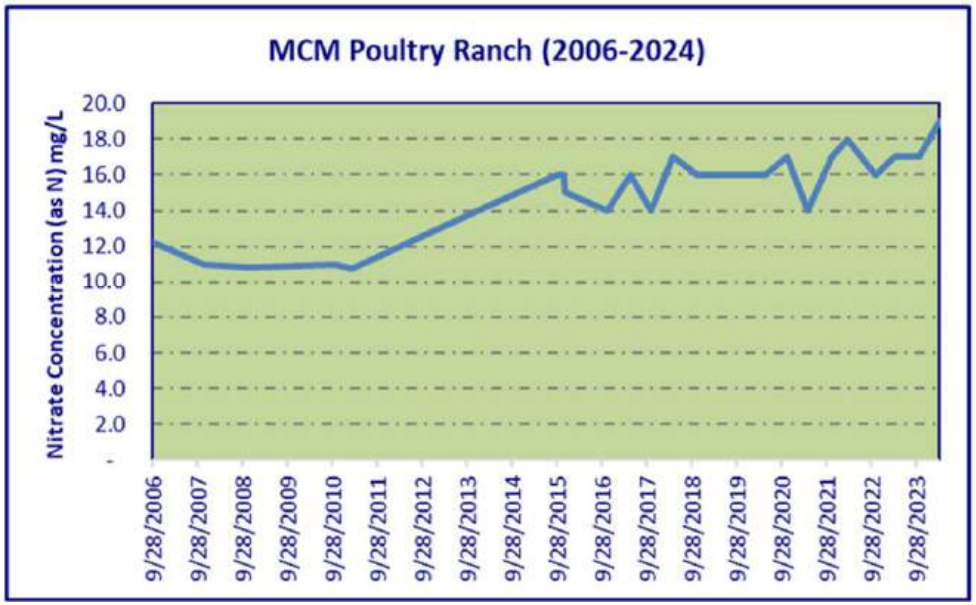


Figure 4-16
Singleton Basin – Historical Nitrate Concentration







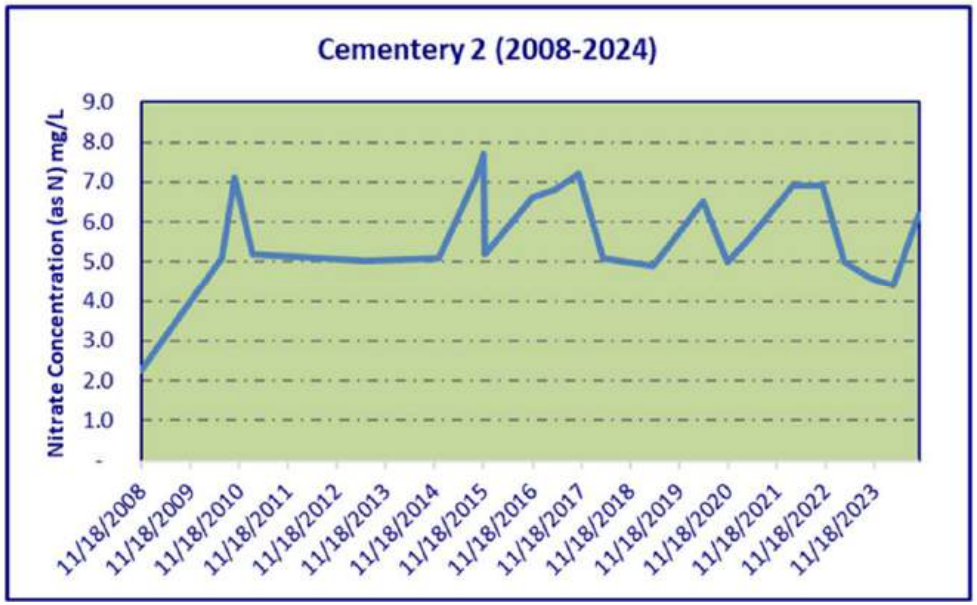


Figure 4-17
South Beaumont Basin – Historical Nitrate Concentration

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 acre-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

Resolutions Adopted During CY 2024

RESOLUTION 2024-01

A RESOLUTION OF THE BEAUMONT BASIN WATERMASTER ADOPTING THE FINAL 2023 REEVALUATION OF THE BEAUMONT BASIN SAFE YIELD REPORT AND REDETERMINING THE SAFE YIELD OF THE BASIN FOR THE PERIOD OF 2023 TO 2032 EFFECTIVE DECEMBER 4, 2024

WHEREAS, the Stipulated Judgment filed February 4, 2004 establishing the Beaumont Basin Watermaster (BBWM) (Riverside Superior Court Case No. 389197) empowers Watermaster to adopt appropriate rules and regulations for the conduct of Watermaster affairs; and

WHEREAS, the Stipulated Judgment, per section VI.5.Y requires Watermaster to redetermine the Safe Yield of the Beaumont Basin at least every 10 years beginning 10 years after the date of entry of the Stipulated Judgment; and

WHEREAS, consultant Thomas Harder & Co. was engaged to prepare an analysis and provide the Watermaster with a recommendation concerning redetermination of safe yield as defined by Rule 4.1 of the Beaumont Basin Watermaster Rules and Regulations; and

WHEREAS, Thomas Harder & Co. conducted studies and prepared a report entitled "Final 2023 Reevaluation of the Beaumont Basin Safe Yield" based on the projected water balance for the next ten year period between 2023 and 2032; and

WHEREAS, the Thomas Harder & Co. report recommended the redetermined Safe Yield of the Basin to be 7,100 acre-feet per year, and that the next safe yield redetermination is scheduled for 2033,

NOW, THEREFORE, BE IT HEREBY RESOLVED BY THE BEAUMONT BASIN WATERMASTER that:

1. The BBWM does accept and adopt the entitled "Final 2023 Reevaluation of the Beaumont Basin Safe Yield" report; and
2. The BBWM redetermines the Safe Yield of the Beaumont Basin to be 7,100 acre-feet/year.

PASSED AND ADOPTED this 4TH day of DECEMBER, 2024 by the following vote:

AYES: VELA, VESTAL, JAGGERS, ARMSTRONG, ZOBA
NOES: —
ABSTAIN: —
ABSENT: —

BEAUMONT BASIN WATERMASTER

BY: _____

ART VELA, CHAIR
BEAUMONT BASIN WATERMASTER

APPROVED AS TO FORM:

BY: _____

THIERRY MONTOYA, LEGAL COUNSEL
BEAUMONT BASIN WATERMASTER

Appendix B

Minutes for the Regular and Special Committee Meetings held in 2024

Record of the Minutes of the
Beaumont Basin Committee Meeting of the
Beaumont Basin Watermaster
Special Meeting
Wednesday, January 10, 2024

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 11:06 a.m.

II. Roll Call

City of Banning	*Art Vela*	*Present*
City of Beaumont	*Robert Vestal*	*Present*
Beaumont-Cherry Valley Water District	*Dan Jaggers*	*Present*
South Mesa Water Company	*David Armstrong*	*Present*
Yucaipa Valley Water District	*Jennifer Ares*	*Present*

Hannibal Blandon and Thomas Harder were present as engineers for the Beaumont Basin Watermaster (BBWM).
Steve Stuart of Dudek was present as BBWM administrator.
Thierry Montoya was present as legal counsel for the BBWM.

Members of the public who registered and / or attended:
Brittany Lim, South Mesa Water Company
Ron Duncan, San Gorgonio Pass Water Agency
Kevin Watson, San Gorgonio Pass Water Agency
Emmett Campbell, San Gorgonio Pass Water Agency
Matt Howard, San Gorgonio Pass Water Agency
Mike Kostelecky, Yucaipa Valley Water District
Joyce McIntire, Yucaipa Valley Water District
Erin Anton, Yucaipa Valley Water District
Thaxton Van Belle, City of Beaumont
Robert Rasha, Beaumont-Cherry Valley Water District
Lynda Kerney, Beaumont-Cherry Valley Water District
James Bean, Beaumont-Cherry Valley Water District
Mark Swanson, Beaumont-Cherry Valley Water District

III. Pledge of Allegiance: Chair Vela led the pledge.

IV. Public Comments: None.

V. Workshop / Discussion Items

A. Update on the Safe Yield Redetermination

Thomas Harder reported that work is proceeding on the safe yield reset. They are still in the calibration phase of the numerical model. He said he expected to present the report in February 2024.

B. Watermaster Goal for the Basin

a. Discuss Undesirable Result(s) for Basin

b. Discuss Model Scenarios to Evaluate Undesirable Result(s)

C. 40,000-AF Storage Depletion in West Side of Beaumont Basin

[The following discussion addresses Discussion Items B and C]
Mr. Harder reminded the Committee about questions raised including potential for undesirable results, what is causing the imbalance on the west side of the basin, and how can testing be done to determine what is significant and reasonable to come up with benchmarks and criteria for Basin management. He reviewed the six Sustainable Groundwater Management Act sustainability indicators, explaining that the three most applicable to the Beaumont Basin are:

- Chronic lowering of groundwater levels
- Reduction of groundwater in storage
- Degraded groundwater quality

Mr. Harder discussed the hydrology of the basin. He pointed out that recharge, both natural and artificial, flows to the southeast and does not reach the west part of the basin due to fault barriers. Other than precipitation, the west side gets little natural recharge.

Mr. Harder identified overlying party wells, most of which are located on the west side of the Beaumont Basin. The overliers pump about 1,600 af per year, with about 1,300 af pumping by appropriators in the western side of the Basin. All of the safe yield is assigned to appropriators mostly on the west side of the Basin, he noted. This might be something to consider for analysis in the future.

Over time, the change in groundwater storage shows negative on the west side of the Basin, Harder continued. On the east side, there has been a rise in groundwater storage and as a whole, the Basin increased in storage by 22,000 af since 2013. Without the imported water, this Basin is in overdraft, he stated. He provided two hydrographs for the Moreno 6 well (west side of Basin) and the Banning C-4 well (east side of Basin), to show a marked decline in water level in the west side compared to a steady level in the

east side since 2003. The Moreno 6 hydrograph shows that recharge is definitely not keeping up with the discharge.

Mr. Harder advised that the Beaumont Basin process is missing some of the SGMA required elements:

- Identification of what constitutes significant and unreasonable conditions
- Identification of metrics to avoid those conditions
- Identification of projects and management actions that would be implemented if significant and unreasonable conditions are possible

In order to test the boundaries of the Basin without causing an undesirable result, hypothetical situations with extreme conditions may be modeled, Mr. Harder continued. He presented unlikely but plausible scenarios for potential analysis to establish a basis for identifying significant and unreasonable results and provide a planning tool for future projects and management actions.

Member Jaggers pointed out there is approximately 335 million square feet of land on the west side of the Basin. One inch of rain across that area is 641 af of water, which, if 1/3 of it percolated that is about 211 af of contribution. Member Zoba has spoken about the reduction in area rainfall, he reminded, and calculated that loss at 630 af per year, which exacerbates the problem.

Member Jaggers also pointed out water loss on the west side. Irrigation water assigned to houses in Calimesa may have a return flow component, and those get conveyed down the same conduits to exit the Basin, he said. All solutions to capture the west side flow as it exits and bring it back up should be considered, he suggested.

Extraction is being considered in the area of the southeast where water is lost from the recharge locations, Jaggers continued. As well sites are developed, all the tools available should be used to strategize where to capture water and bring back into the system.

Mr. Harder added that one of the best ways to mitigate groundwater level decline is in-lieu supply (recycled water) and pointed to the golf courses on the west side. If recycled water can be brought to the overliers in lieu pumping, that would make a big difference, he said.

Chair Vela commented that it is interesting and challenging that a majority of the overlying water right is allocated to the side of the Basin on which there is not much imported or natural recharge. How sustainable is that, he asked. There is not much wiggle room in the adjudication, he noted, and even with alternatives, they will not happen overnight (i.e., a recharge facility on the west side is five to seven years out). This is a long-term issue

that should be resolved at some point, as demands on the west side will increase, he noted.

This will be able to be evaluated through the safe yield reset process, Mr. Harder noted. The process will include a forward projection for the next 10 years. It will be assumed that overlier pumping will continue at 2022 levels to give an idea of where groundwater level will be and provide a 10-year window to figure something out.

Chair Vela suggested interest in conceptually developing safe yields for each side for discussion purposes, as they are two different bowls of water. It can be estimated, Harder stated. Mr. Jaggers reminded that exchange / transmission of water / interconnect could be considered in the short term to mitigate and manage. He noted that San Gorgonio Pass Water Agency (SGPWA) General Manager Lance Eckhart has some ideas about and is working on recharge on the west side that may be achievable.

Member Armstrong said he does not see the west side as being in peril. In December 2022 he was at 285 feet to water, and in December 2023 was at 256 – a comeback of 30 feet over the last year. Mr. Harder described the separation with the Banning fault between the South Mesa Water Company (SMWC) area and the Basin area, and noted that SMWC is not pumping a significant amount from Well 4.

Member Armstrong noted the State Water Project (SWP) runs through the area and suggested the solution is the SGPWA building a recharge basin on the west side. He said he would rather spend money on purchasing State Project Water to put water in the ground and fix the problem. Mr. Harder noted that he is grouping the west area, and there may be areas to which that would not apply. There are multiple ways to solve the problem, he advised.

Harder asked, if current actions continue under extreme hydrology, at what point would results be bad.

Member Vestal asked if the model identifies the natural loss rate; Mr. Harder said it does. This has been done in the past for the Watermaster, he added. Most of the losses happen on the east side because of the amount of water flowing, he noted. Member Jaggers said he would provide a copy of that 2015 report to the City of Beaumont.

Mr. Harder further described the analysis process, based on the Safe Yield projection. He shared some example extreme hydrology scenarios and requested member input.

Member Jaggers pointed out the added benefit of high quality water from the SWP in wet years. He noted the benefits of the East Branch Extension

and Harder acknowledged that what is being done now is working, but the area is dependent on imported water to remain sustainable.

Mr. Harder shared a number of hypothetical extreme scenarios to help characterize and evaluate undesirable results in the Basin, and asked for input from the Appropriators to help devise the extreme hydrology scenarios. Mr. Harder offered to develop a scope and cost for evaluating these hypothetical scenarios. Mr. Harder requested ideas by the February meeting. Mr. Jaggers noted that BCVWD implemented stage 3 of the drought contingency plan in the last drought to reduce the use of groundwater. Mr. Jaggers requested an email from Mr. Harder with the request for further information for the extreme hydrology scenarios.

Mr. Stuart suggested ranking the different scenarios by probability and starting the simulation with the scenario most likely to occur, and adding next steps to get an understanding of what it takes to get to an undesirable condition.

D. Management of Storage Accounts
E. Identify next steps

Mr. Stuart recalled the 10-year period of controlled overdraft at the beginning of the stipulated judgment / physical solution. There was a question of whether or not, when that period ended, was the surplus water removed from storage accounts, he noted.

Mr. Stuart reviewed the four appropriators assigned a temporary surplus allocation form the 160,000 af determined to be in surplus and provided calculations of pumping from 2003 to 2013 versus the amount of temporary surplus allocated. At the end of the 10-year period, Banning, SMWC, and YVWD did not produce up to what was allocated to them, but BCVWD overproduced, he reported. About 21,000 af of surplus water was not extracted from the Basin over that 10-year period, and then the controlled overdraft period ended, he stated.

As mentioned in the Stipulated Judgment Exhibit C as a footnote to the table, "Controlled overdraft will not exceed 160,000 af during the first 10 years of operation under the physical solution," he read.

In an evaluation of all adjudicated basins in 2016, the State Water Resources Control Board indicated the Beaumont Basin appropriators should bank some of the temporary surplus water for future use after the period of controlled overdraft. Therefore, Stuart posited, any surplus water not extracted during that 10-year period is available to those appropriators that left it in the Basin, and it went into their storage accounts. It carries over because it was originally intended to provide additional capacity in the Basin for future use, conjunctive use projects, etc., and it is all based on

the 160,000 af of volume he said. There is no time assigned to that volume of water, he noted.

Stuart reviewed the graph Comparison of Appropriator Temporary Surplus to Annual Pumping 2003 to 2013 and presented calculations for each appropriator.

Mr. Stuart prepared a table that reorganized the listing of the parameters that factor into the Appropriator's Production Right calculation. The table was reorganized based on discussions at the last meeting.

Mr. Jaggers pointed out these are an aggregate of tables in the annual reports and provide a "how did it happen" scenario. He noted that the Water Shortage Contingency Plan is based on this type of math and suggested all pay attention to the more sophisticated representations to be clear on what kind of shape each agency is in over time. He acknowledged the work of the SGPWA and emphasized the value of the data in management and planning.

Mr. Stuart suggested a revision of the Rules and Regulations to avoid future questions. He advised that he could put together a scope of work to make those changes. Chair Vela agreed and said he would be interested in what changes would be proposed and what Committee members would want. Chair Vela said he appreciated the graphical representations.

Member Jaggers stated that agencies have worked to get themselves into shape, which is why the Basin is maintaining some balance. He suggested defining how the Committee operates to give future Committee members a document with an easy path to follow. He agreed that a holistic look at / overview of the Rules and Regulations would be beneficial and requested an outline of the project. Mr. Stuart said this could be an element.

Chair Vela noted that members may be hesitant to include anything that may restrict how the agencies individually manage their own storage accounts. Mr. Stuart clarified that it is more of a foundation for how to account for things defined in the judgment and the different parameters of the storage account.

Questions about the temporary surplus included when it ended, if at all, and the if overlier rights / appropriative water is not used within the year earned, is it lost – it has not been accounted for in that way, Stuart stated. These are the things the Rules and Regulations can lay out.

Chair Vela suggested the agencies first identify what banks of water they will be using, although it should be a net zero. Mr. Stuart indicated there does not seem to be a benefit to identify which bucket of water is being used for production.

Member Jaggers referred to management actions taken during the drought, and explained he did not want to constrain BCVWD from operations. He noted cooperation between agencies and said he was encouraged by the current state and the tools being developed.

The Committee concurred on a request for Dudek to revise the Rules and Regulations. Mr. Stuart will provide a list of items to revisit and consider updating in the Rules and Regulations.

Member Jaggers added that policies would include recycled water and recharge accounting systems, and stormwater capture. Return flow and losses were suggested by Chair Vela. Member Armstrong suggested that Legal Counsel Montoya participate in the revision. Mr. Montoya noted the Rules have been staid for a long time and should be updated, modernized, and made more relevant of the circumstances and challenges.

Mr. Blandon pointed out the summary information shown in the tables is very similar or identical to that presented in the annual report. He suggested inclusion of a new section in the annual report comparing the appropriators' production right to management of the storage account. He said he is beginning to compile the annual report for 2023. Chair Vela concurred.

VI. Topics for Future Meetings

	Item	Date Listed
A	Development of a Recycled Water Policy	3/27/2019
B	Development of a return flow accounting policy	3/27/2019
C	Development of a methodology and policy to account for groundwater storage losses in the basin / groundwater management	3/27/2019
D	Procurement Policy including thresholds for RFP process	8/17/2021
E	Incidental discharge	10/6/2021
F	Evaluation of Storage Issues in the Basin	Tabled from 12/2/2021 meeting
G	Monitoring of future west side well sites and methodologies, and potential collaboration with USGS	10/5/2022
H	Direction for use of different types of storage accounts	8/2/2023

I	Revision of Rules and Regulations: i. Mechanism for BBWM to collect funds if storage account is in deficit (Development of a rate for overproduction of right) ii. General modernization of rules and regulations iii. Clarification of overlier transfers process iv. Proposal from Dudek for this work	8/2/2023
J	Process and categorization of water production for the annual report	8/2/2023
K	Discussion on what to do when an Appropriator goes negative	10/4/2023 and 11/1/2023

VII. Comments from the Watermaster Committee Members

None.

VIII. Announcements

A. The next meeting of the Beaumont Basin Watermaster is scheduled for Wednesday, February 7, 2024, at 11 a.m.

B. 2024 Meeting Dates:

Wednesday, March 6 at 11 a.m.	Special Meeting / Workshop
Wednesday, April 3 at 11 a.m.	Regular Meeting
Wednesday, June 5 at 11 a.m.	Regular Meeting
Wednesday, August 7 at 11 a.m.	Regular Meeting
Wednesday, October 2 at 11 a.m.	Regular Meeting
Wednesday, December 4 at 11 a.m.	Regular Meeting

XI. Adjournment

Chair Vela adjourned the meeting at 12:26 p.m.

Attest:

Daniel Jaggers, Secretary
Beaumont Basin Watermaster

Record of the Minutes of the
Beaumont Basin Committee Meeting of the
Beaumont Basin Watermaster
Regular Meeting
Wednesday, February 7, 2024

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

City of Banning	*Art Vela*	*Present*
City of Beaumont	*Robert Vestal*	*Present*
Beaumont-Cherry Valley Water District	*Dan Jaggers*	*Present*
South Mesa Water Company	*David Armstrong*	*Present*
Yucaipa Valley Water District	*Joseph Zoba*	*Present*

Hanibal Blandon and Thomas Harder were present as engineers for the Beaumont Basin Watermaster (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
Joyce McIntire, Yucaipa Valley Water District
Mike Kostelecky, Yucaipa Valley Water District
Erin Anton, Yucaipa Valley Water District
Jennifer Ares, Yucaipa Valley Water District
Madeline Blua, Yucaipa Valley Water District
Lance Eckhart, San Gorgonio Pass Water Agency
Kevin Walton, San Gorgonio Pass Water Agency
Matt Howard, San Gorgonio Pass Water Agency
Emmett Campbell, San Gorgonio Pass Water Agency
Brittany Lim, South Mesa Water Company
John Covington, Beaumont-Cherry Valley Water District
Daniel Slawson, Beaumont-Cherry Valley Water District
James Bean, 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
Kevin Lee

III. Pledge of Allegiance

IV. Public Comments: None.

V. Consent Calendar

A. Meeting Minutes
   a. December 6, 2023 Regular Meeting
   b. January 10, 2024 Special Meeting

B. Status Report on Water Level Monitoring throughout the Beaumont Basin through January 22, 2024

C. A Comparison of Production Rights versus Production in Calendar Year 2023

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

AYES:	Armstrong, Jaggers, Vela, Vestal, Zoba
NOES:	None
ABSTAIN:	None
ABSENT:	None
STATUS:	Motion Approved

VI. Reports

A. Report from Engineering Consultant – Hannibal Blandon, ALDA Engineering
Mr. Blandon reported a potential metering problem with a well at the Tukwet golf course.

B. Report from Hydrogeological Consultant – Thomas Harder, Thomas Harder & Co.
Mr. Harder advised that the report on compliance with the Sustainable Groundwater Management Act (SGMA) was almost complete.

C. Report from Administrative Consultant – Steve Stuart, Dudek
Mr. Stuart reported that information is still being sought on well survey results. Dudek will be addressing the Topics for Future Discussion one by one.

D. Report from Legal Counsel – Thierry Montoya - Frost, Brown, Todd
Mr. Montoya reported that he has completed a motion to address the vacancy for the City of Beaumont with the appointment of member Dustin Christensen. The hearing date is 45 days out.

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 Jaggers and seconded by Member Zoba to reaffirm the current slate of officers for 2024:

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

and approved by the following vote:

AYES:	Armstrong, Jaggers, Vela, Vestal, Zoba
NOES:	None
ABSTAIN:	None
ABSENT:	None
STATUS:	Motion Approved

B. Consideration to Retain Dudek to Provide Professional Services to Review and Update the Rules and Regulations of the Beaumont Basin Watermaster

Recommendation: That the Watermaster Committee contract with Dudek for Services to Review and Update the Rules and Regulations of the Beaumont Basin Watermaster for a sum of $15,000 and send invoices to each Watermaster Committee member for 20% of the approved amount

Member Jaggers recalled a brief discussion at the last meeting and the recommendation of legal counsel to revise and modernize the Rules & Regulations.

Mr. Stuart concurred and said current sections need update, and new sections are needed. He recommended a full review. Chair Vela said he would like to see Dudek's list of recommendations.

Member Jaggers reminded about the obligation to send draft rules to the overliers and provide information to all parties in the judgment.

It was moved by Member Jaggers and seconded by Member Zoba to contract with Dudek for Services to Review and Update the Rules and Regulations of the Beaumont Basin Watermaster for a sum of $15,000 and send invoices to each Watermaster Committee member for 20% of the approved amount and approved by the following vote:

AYES:	Armstrong, Jaggers, Vela, Vestal, Zoba
NOES:	None
ABSTAIN:	None
ABSENT:	None
STATUS:	Motion Approved

C. Potential Incorporation of a Process and Categorization of Water Production for the Annual Report

Recommendation: That the Watermaster Committee consider engaging Dudek to revise the Rules and Regulations to include a process and categorization of Water Production for use in the annual reports

Mr. Stuart presented the categories of water production and posited that there does not appear to be a benefit to assigning categories for accounting for the "buckets" of water.

Member Zoba agreed and suggested it would be helpful to include it in the Annual Report. Chair Vela said he was uncertain of any benefit to assigning categories, as it is still a net zero. It may lead to unintended consequences, he noted.

Member Jaggers pointed out additional sources of water which are tracked and help understand the health of the Basin. In the long term, the information is modeled in but seeing this can provide detail on TDS which helps visualize what is happening in the Basin.

Member Zoba added that the detailed data tells the story of what is happening in the Basin and provides transparency.

Chair Vela suggested that if the New Yield items are already included in the policy, then leave them in the tables, but if not then leave them out pending further discussion by the Committee. Mr. Stuart advised that it is defined in the Judgment and is part of the equation for the Appropriators' production rights, so plays a role in comparing production vs. production rights. Member Jaggers suggested a footnote to identify new sources examples that are not conclusively limiting.

Member Armstrong said he was apprehensive about ow far this may go. Mr. Stuart assured these are the parameters / characteristics of water usage that go into calculating the value to compare against annual production. Basically, there is only one bucket and that is the storage account, and there is really no benefit in categorizing.

Creating a policy to classify might be a slippery slope, Chair Vela stated. Member Armstrong said he would hate to see a negative effect on those who have planned ahead and built up their storage accounts.

Mr. Blandon pointed out that all information presented here is already represented in the annual report. He suggested defining the annual appropriator production right and incorporating it into Table 3-8 of the annual report. Member Zoba concurred with adding to the annual report, along with a narrative to address the concerns.

Zoba pointed to the Judgment language on the use of temporary surplus, and suggested addressing in the annual report how it is being accounted for. A possible unintended consequence may be that the value of the water is equal to the current value of the SGPWA purchase price; however, this water in storage is more valuable than State Project Water, he suggested.

Member Jaggers suggested each agency examine and recommended to table this to the next meeting. Member Zoba suggested directing consultants to include it in the draft annual report, as it can be removed if desired.

Mr. Blandon said he will work with Mr. Stuart to revise tables and present a draft at the March meeting. Chair Vela said he would like to look at it before deciding to include it in the annual report.

There is also a recommendation to revise the Rules and Regulations to accomplish this, which could deal with some of the concerns raised, Chair Vela said.

Member Jaggers discussed the impacts of conservation mandates.

D. Update on the Safe Yield Reset of the Beaumont Basin

Recommendation: No recommendation

Mr. Harder reviewed the requirement for redetermination of the safe yield and provided history. He discussed calibration of the model, assumptions, and forecasts, and advised that the preliminary recommendation is 7,000 to 7,100 acre-feet for the next 10 years.

Mr. Harder pointed out that almost all overlier wells are on the west side of the Basin, and most recharge is occurring on the east side. He questioned what the safe yield of the east or west might be and proposed division of the Basin at the central Beaumont Plains fault.

Member Zoba said he agreed with the analysis, stating that 7,100 af is a 6 percent increase and seems reasonable; Chair Vela concurred.

In response to Chair Vela and Member Vestal, Mr. Harder provided detail on the projections based on the projected assumptions.

Member Jaggers pointed out the use of a 97 percent State Water Project allocation. Mr. Harder said the source of that data was the historical period from 2003 onward. Member Jaggers pointed to other sources in the SGPWA portfolio, and Mr. Harder said they were either not included or were buried in the data.

Member Jaggers noted that the effects of the Making Conservation a Way of Life regulations: the Safe Yield increases with pumping. He discussed Basin management and strategies and suggested reaching out to overliers for an opportunity to comment.

Mr. Campbell noted there is a 16,000 af deficit from the last 10 years based on the Safe Yield calculation. He pointed out that there has been a dry period, yet the Safe Yield is going up. All previous models may be less accurate, Member Jaggers noted and asked if there was a level of confidence in the reliability of the current model. Mr. Harder discussed the model.

Mr. Eckhart added some factors for consideration: there is a new groundwater sustainability agency on the east side of the Basin that depends on the underflow component, and the water portfolio has expanded and there will continue to be an active pushing of water into the east side of the Basin. Collaboration will be required to hold onto water the SGPWA is actively trying to harvest and store.

Modeling is complete, and it is now a matter of determining a number, Mr. Harder stated, and reiterated the recommendation. Member Jaggers reiterated the recommendation of contacting the overliers. Mr. Harder said a Technical Memo was being prepared and would be sent out as a draft with the 7,100 af safe yield.

E. Basin Management Scenarios

Recommendation: No recommendation.

In response to a question from Member Zoba about estimates of the leakage from the Basin toward Cabazon, Mr. Harder said there is a loss paper dated 2017 but does not include a specific number. Chair Vela pointed out the development of a policy or plan to calculate losses is listed in Topics for Future Meetings.

Mr. Harder reminded about discussion about significant and unreasonable Basin conditions and provided potential examples. The goal would be to establish a basis for identifying significant and unreasonable conditions, and provide a planning tool to avoid those. He said he would send scenarios to the Committee members to provide input.

Member Jaggers noted that other agencies have storage accounts in the Basin and should likely be included.

Mr. Harder further detailed potential scenarios. Following the process of identifying significant and unreasonable Basin conditions, then projects and management actions would be identified to help stay out of that condition. At the next meeting, he will present a scope and cost to run the scenarios.

At the request of Mr. Harder, the members discussed the potential of establishing Basin management areas. He reminded that the original vision was to put together a plan, and this model and these analyses would inform the plan. Chair Vela concurred, adding that the idea was to determine how to better manage the Basin as a whole, but it is two separate systems.

After substantive discussion, Member Zoba recommended pumping the brakes on this discussion and taking a fresh look at the next workshop. Chair Vela agreed on delaying the modeling until it is determined where this is to go.

F. Update on Development of Data Management System

Recommendation: No recommendation.

Chair Vela tabled this item to the March 6, 2024 meeting.

VIII. Topics for Future Meetings

	Item	Date Listed
A	Development of a Recycled Water Policy	3/27/2019
B	Development of a return flow accounting policy	3/27/2019
C	Development of a methodology and policy to account for groundwater storage losses in the basin / groundwater management	3/27/2019
D	Procurement Policy including thresholds for RFP process	8/17/2021
E	Incidental discharge	10/6/2021
F	Monitoring of future west side well sites and methodologies, and potential collaboration with USGS	10/5/2022
G	Discussion on what to do when an Appropriator goes negative	10/4/2023 and 11/1/2023

IX. Comments from the Watermaster Committee Members:

Member Jaggers noted there was good dialogue today, and he looks forward to further sophistication in understanding and management of the Basin.

X. Announcements

2024 Meeting Dates:

Wednesday, March 6 at 11 a.m.	Special Meeting
Wednesday, April 3 at 11 a.m.	Regular Meeting
Wednesday, June 5 at 11 a.m.	Regular Meeting
Wednesday, August 7 at 11 a.m.	Regular Meeting
Wednesday, October 2 at 11 a.m.	Regular Meeting
Wednesday, December 4 at 11 a.m.	Regular Meeting

XI. Adjournment

Vice Chair Armstrong adjourned the meeting at 1:09 p.m.

Attest:

Daniel Jaggers, Secretary
Beaumont Basin Watermaster

Record of the Minutes of the
Beaumont Basin Committee Meeting of the
Beaumont Basin Watermaster
Special Meeting
Wednesday, March 6, 2024

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

City of Banning	*Art Vela*	*Present*
City of Beaumont	*Robert Vestal*	*Present*
Beaumont-Cherry Valley Water District	*Dan Jaggers*	*Present*
South Mesa Water Company	*David Armstrong*	*Present*
Yucaipa Valley Water District	*Joseph Zoba*	*Present*

Hannibal Blandon and Thomas Harder were present as engineers for the Beaumont Basin Watermaster (BBWM).
Steve Stuart of Dudek was present as BBWM administrator.

Members of the public who registered and / or attended:
Brittany Lim, South Mesa Water Company
Ron Duncan, San Gorgonio Pass Water Agency
Lance Eckhart, San Gorgonio Pass Water Agency
Mike Kostelecky, Yucaipa Valley Water District
Joyce McIntire, Yucaipa Valley Water District
Alison Edmisten, Yucaipa Valley Water District
Erin Anton, Yucaipa Valley Water District
Thaxton Van Belle, City of Beaumont
John Covington, Morongo Band of Mission Indians
Robert Rasha, Beaumont-Cherry Valley Water District
Lynda Kerney, Beaumont-Cherry Valley Water District
Mark Swanson, Beaumont-Cherry Valley Water District

III. Pledge of Allegiance: Chair Vela led the pledge.

IV. Public Comments: None.

V. Workshop / Discussion Items

A. Discussion on Process and Categorization of Water Sources in Annual Report and Use of Different Types of Storage Accounts

Hannibal Blandon of ALDA reminded the Committee about discussion on the categorization of water sources and the consensus there was no need to differentiate, as water comes from the same storage account.

Discussion needs to be incorporated into the annual report, Blandon continued, and introduced a draft subsection showing Tables 3-8 and 3-9. He reviewed the content in detail.

Additional water supply is required when a storage account is at zero, which is the fundamental premise of the adjudication, Mr. Blandon stated. At that point, under the Rules and Regulations, that Appropriator would pay an assessment. Chair Vela asked what would happen if there was no additional water supply available to purchase. Mr. Blandon pointed out that the Judgment provides that all producers shall be allowed to pump sufficient water from the Basin to meet their respective requirements.

The Committee discussed:

- *Could the BBWM purchase water from the San Gorgonio Pass Water Agency*
- *The Basin adjudication was not established to allow harm to another entity*
- *Levy / penalty for a storage account going negative*
  - *Formula-based solution / daily charge*
  - *Punitive, intended to be corrective*
  - *Better for the Appropriator to solve the problem before going negative*
  - *May not be effective*
  - *It is the cost of doing business*
- *Fees could be collected in an escrow account*
  - *End result is the Appropriator would pay twice*
  - *How does that money get spent?*
  - *To supplement the Basin with additional water or similar use*
- *Intention of the judgment is to make the Basin whole*
- *This Committee is for accounting, not to cure someone's problem*
- *In the spirit of collaboration, there are management actions that can be done to maintain the Basin in balance*

Dudek has been retained to review the Rules and regulations and this seems like an element of discussion for that activity, Member Jaggers noted.

Member Armstrong requested a redline draft of the annual report.

Mr. Stuart suggested approaching management strategies by looking at potential future scenarios.

B. Discussion on Management Areas

Mr. Steve Stuart reminded of previous discussion and reviewed proposed Basin management areas. He noted recognition of the physical features / constraints affecting the groundwater flow and jurisdictional boundaries.

If implemented, water budgets would be quantified, which may lead to identifying undesirable results. It would also guide prioritization of projects such as additional artificial recharge. The judgment is the guiding document to use of groundwater resources, he assured.

The approach for the management areas is to break it down to try to understanding better what is going on.

Member Armstrong said he is not seeing an issue related to east vs. west side of the Basin; it is one Basin. Mr. Stuart reminded about the decline in storage of 41,000 af on the west side. He noted that SMWC is on the north side of the San Gorgonio Pass fault zone, but the drop in storage is on the other side.

It is a matter of looking deeper into the causes and potential issues to help address the decline, Stuart continued. Overall production far exceeds the Safe Yield, he advised. Looking at the impacts of scenarios is the purpose behind this, he said.

Mr. Armstrong advocated establishment of a recharge basin on the west side.

Mr. Stuart shared maps and described the fault lines and groundwater flow. He proposed four management areas driven by jurisdictional boundaries and physical boundaries that influence groundwater flow. Analysis in each management area would guide the prioritization of projects.

Member Jaggers discussed decline in precipitation and related return flow, the lack of overliers (who are the majority of the extractors) in the room, a well site request from BCVWD to SGPWA to pump the mound, and the safe yield calculation is probably wrong from a physical solution perspective. Before moving further, the overlier entities need to be in the room, he stated. Of additional concern are the conversion of overlier rights to appropriative rights, he noted.

Member Zoba said he liked the management areas and pointed to the groundwater contours. He suggested looking at change in storage in the four areas. Until a volume of water can be quantified, it is hard to determine how well such a large region is actually doing. There is potential for a better management strategy in the four zones.

Member Jaggers suggested renaming the areas "study zones."

Chair Vela agreed and noted that the Sustainable Groundwater Management Act was more restrictive than desired for the Basin's management. The intent is to understand how the subunits of the Basin are working and to develop management solutions, right-sizing projects. He said study should be based more on physical constraints.

Mr. Stuart presented a division into two areas based on hydrogeologic study areas.

Overlier rights are tied to the parcels identified in the judgment, Stuart continued. It is when an appropriator provides water to those particular parcels that the transfer of rights occurs. As these things come together, that is not going to be lost, he assured.

Member Zoba indicated that he was looking to more of a management area rather than study as that is the goal. If the west end is to be managed, impacts need to be understood. Agencies are not coordinating their actions, he noted. There should be an area of control and where activities are identified and tied together to link activity and results.

Member Jaggers explained that BCVWD has been managing based on the annual reports and areas the District overlies. He discussed management actions and the need to understand leakage, studying the Basin as a whole.

Member Armstrong indicated support for one study area: the Basin as a whole.

Mr. Stuart said he would talk to Mr. Harder about study areas and look at calculating water budgets for each of the proposed "study areas".

C. Update on Data Management System

Mr. Michael Palavido advised the Committee that there is a Quick Start Guide on ow to access the system. Between now and the next meeting he will enter additional data and create a function for members to enter their own data.

BCVWD will try to finalize well survey data in the next week or two, Member Jaggers noted.

D. Identify next steps:

No discussion.

VI. Topics for Future Meetings

	Item	Date Listed
A	Development of a Recycled Water Policy	3/27/2019
B	Development of a return flow accounting policy	3/27/2019
C	Development of a methodology and policy to account for groundwater storage losses in the basin / groundwater management	3/27/2019
D	Procurement Policy including thresholds for RFP process	8/17/2021
E	Incidental discharge	10/6/2021
F	Monitoring of future west side well sites and methodologies, and potential collaboration with USGS	10/5/2022
~~G~~	~~Direction for use of different types of storage accounts~~	~~8/2/2023~~
H	Discussion on what to do when an Appropriator goes negative	10/4/2023 and 11/1/2023

VII. Comments from the Watermaster Committee Members:

Member Jaggers said the group is better for the dialogue and the continued focus on understanding the Basin.

Member Armstrong noted that on March 15 the SMWC will be dedicating a reservoir to George Jorritsma.

VIII. Announcements

2024 Meeting Dates:

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

XI. Adjournment

Chair Vela adjourned the meeting at 12:06 p.m.

Attest:

Daniel Jaggers, Secretary
Beaumont Basin Watermaster

Record of the Minutes of the
Beaumont Basin Committee Meeting of the
Beaumont Basin Watermaster
Special Meeting
Wednesday, April 17, 2024

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 11:01 a.m.

II. Roll Call

City of Banning	*Art Vela*	*Present*
City of Beaumont	*Robert Vestal*	*Present*
Beaumont-Cherry Valley Water District	*Dan Jaggers*	*Present*
South Mesa Water Company	*David Armstrong*	*Present*
Yucaipa Valley Water District	*Joseph Zoba*	*Present*

Hanibal Blandon was present as engineer for the Beaumont Basin Watermaster (BBWM).
Jim van de Water was present and representing Thomas Harder as BBWM hydrogeologist
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
Jennifer Ares, Yucaipa Valley Water District
Madeline Blua, Yucaipa Valley Water District
Lance Eckhart, San Gorgonio Pass Water Agency
Matt Howard, San Gorgonio Pass Water Agency
Mickey Valdivia, San Gorgonio Pass Water Agency
Brittany Lim, South Mesa Water Company
James Bean, Beaumont-Cherry Valley Water District
Evan Ward, Beaumont-Cherry Valley Water District
Khalid Sebai, 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

III. Pledge of Allegiance

IV. Public Comments: None.

V. Consent Calendar

A. Meeting Minutes
   a. February 7, 2024 Regular Meeting
   b. March 6, 2024 Special Meeting

B. Status Report on Water Level Monitoring throughout the Beaumont Basin through March 11, 2024

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

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

AYES:	Armstrong, Jaggers, Vela, Vestal, Zoba
NOES:	None
ABSTAIN:	None
ABSENT:	None
STATUS:	Motion Approved

VI. Reports

A. Report from Engineering Consultant – Hannibal Blandon, ALDA Engineering
Mr. Blandon reminded about the water meter issues at the Oak Valley Golf Course wells, and said he would visit them today. In addition, there is a potential for a new observation well on the west side of the Basin.

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

C. Report from Legal Counsel – Thierry Montoya - Frost, Brown, Todd
Mr. Montoya reported that the Riverside Superior Court has appointed Dustin Christensen as the City of Beaumont alternate member.

VII. Discussion Items

A. Certification of Groundwater Production and Imported Water Use during Water Year 2023

Recommendation: Certify groundwater production, imported water spreading, and change in storage in the Beaumont Groundwater Basin during Water Year 2023

Mr. Blandon reminded that groundwater production information is due to the Department of Water Resources (DWR) on April 1 each year and advised

that the information is tardy. The 2023 Consolidated Annual and Engineering Report is typically approved by the Board at the June meeting, or a subsequent meeting, and needs to be submitted along with the production report, he added.

This is the first time production is being reported on a water year basis (October 1, 2022 to September 30, 2023), but the numbers in the Annual Report are provided on a calendar year basis, Blandon noted. He reviewed the figures in the report (water year):

- *Total production: 15,033 acre-feet (af)*
- *State Water Project deliveries: 16,147 af*
- *Total water use: 15,033 af*
- *2023 change in storage for the water year: +3,643 af*

Upon approval of the information, BCVWD staff will submit the documentation to the DWR and the Annual Report will be submitted upon final approval, Blandon noted.

Member Zoba pointed out a typo on the letter and asked about the purpose of sending out the Annual Report if the figures would be different based on water year vs. calendar year. Mr. Blandon suggested that including an explanation of the differences may suffice. Members discussed reporting figures on both the calendar year and water year basis in a new table for purposes of year-to-year comparison.

Mr. Blandon will update the letter to the State.

It was moved by Member Jaggers and seconded by Member Armstrong to certify groundwater production, imported water spreading, and change in water storage in the Beaumont Groundwater Basin during WY 2023 and approved by the following vote:

AYES:	Armstrong, Jaggers, Vela, Vestal, Zoba
NOES:	None
ABSTAIN:	None
ABSENT:	None
STATUS:	Motion Approved

B. Presentation of Draft 2023 Consolidated Annual and Engineering Report

Recommendation: For review and comment

Mr. Blandon presented highlights of the draft report.

- *Resolution 2023-01 recognized the transfer of 232.4 af of overlying water rights to the Beaumont-Cherry Valley Recreation and Park District*
- *Approved Budget in 2023-2024 just under $37,000 is much lower than the final expenses in the previous two years. Mr. Blandon understands that some of the funds from 2022-23 have accumulated and will be used to fund some of the projects in 2023-2024.*
- *Historical precipitation: the 25-year 13.3 inches average is significantly lower than the 100-year average*
- *Groundwater production by Appropriators totaled 12,709 af (80.6 percent of the five year average)*
- *Groundwater production by Overliers totaled 1,518 af*
- *Imported water spreading totaled 20,393 af (highest ever)*
- *SGPWA spread 10,508 af at the Little San Gorgonio Creek Spreading Basins between 2004 and 2018*
- *City of Beaumont Wastewater Treatment Plant discharged 3,790 af (below the 5-year average) at Cooper's Canyon*
- *2018 conversion of underproduction by Overliers totaled 4,480 af*
- *Conversion of Overlying Rights to Appropriative Rights – a total of 478.25 af have been permanently transferred from Oak Valley Partners to YVWD.*
- *Total 2023 production was 4,958 af*
- *12,642 af were added to storage in the 2023 calendar year*
- *Current water in storage in the Basin totals 108,790 af*
- *2023 allocation of unused Overlying water right / underproduction to 2028 is 4,704 af*
- *Storage increased by 11,462 af from winter 2022 to winter 2023.*
- *The Operating Safe Yield for 2023 is estimated at 5,297 af*
- *No primary water quality standards were exceeded*

Discussion ensued regarding documentation of the transfers from Oak Valley Partners (OVP) to YVWD in 2023. Member Jaggers suggested adding further discussion to a workshop agenda. Counsel Montoya clarified that the water has been transferred with finality. OVP has made it clear they are forgoing their rights to the water in the amounts set forth in the Form 5, granting that water to YVWD. There can be no ambiguity, he noted. The accounting of it is a different issue, but the legality of the transfer has occurred, he stated.

The development of a recycled water policy is on the to-do list for the subcommittee of Zoba and Jaggers, the Committee was reminded. Member Armstrong advised caution.

Members commended the SGPWA for their water supply efforts.

Mr. Blandon requested comments on the draft by May 17 with presentation of the final Report at the June 5 meeting for approval.

C. Update on Technical Memorandum on 2023 Safe Yield Redetermination

Recommendation: No recommendation

Principal Hydrogeologist Jim Van de Water of Thomas Harder and Associates reported that a working draft is in progress with the intent to include it in the June 5 agenda packet.

D. Discussion on Developing Policy to Document and Account for Emergency Potable Water Transfers from Appropriator to Overlying Party

Recommendation: Discussion only

Steve Stuart explained that BCVWD had received a letter from the Morongo Band of Mission Indians (MBMI) (an overlier) stating that they request a temporary, one-time transfer 44 af of water in lieu of water served that was provided by BCVWD to the MBMI in July 2022.

BCVWD entered into an Emergency Potable Water Service Connection Agreement with MBMI for the purpose of providing an emergency, temporary source of water when requested by MBMI. This is a different case than the permanent transfer of water rights via a Form 5, and is a new item to address in the Rules and Regulations, Stuart explained.

He pointed to the suggested process with adjusted appropriative water right and development of a new Form 9 to document the amount of water provided and when.

Member Jaggers provided detail on the emergency service request from the Tukwet Canyon Golf Club related to a well out of service. One of the elements of the agreement allowed for the transfer of overlier right to satisfy the cost of that water. BCVWD provided the water in August 2022, the agreement and the ask from the MBMI came in 2023, and it seems a Form would be a simple way to make the adjustment.

BCVWD understands the golf course is a community resource and does not want to see it blighted due to lack of water, Jaggers explained. He pointed out that the Beaumont-Cherry Valley Recreation and Park District now owns the Danny Thomas Ranch with some overlier water rights. If BCVRPD were to utilize their well to self-serve they may have the same type of ask in the future.

This is not in the judgment, Stuart noted. If agreeable, Dudek would begin working this into a new section as part of the revision of the Rules and Regulations, he stated. Legal Counsel Montoya voiced concern about acting outside of the ambit of the judgment; it is problematic, the BBWM does not have the authority, and it could set precedent, he advised. He said he did not want to stray down that path at all.

If this is to be discussed, Montoya continued, do not consider adding any rule or amending anything until more information is obtained about the request. The documentation about what has been promised should be examined to see if the action is within the ambit of the BBWM authority.

Chair Vela tabled the item for future discussion.

E. Update on Revising and Modernizing the BBWM Rules and Regulations

Recommendation: Presentation only. No action required.

Mr. Stuart requested clarification and direction from the committee on:

1. *Beaumont Basin Water Resources Management Plan, which is referred to in the Rules. Member Zoba said he believes that is the Salinity Plan under the San Timoteo Watershed Management Authority. Jaggers agreed, but said it is likely outdated.*
2. *Statement of Investment Policy: Member Zoba indicated this exists as Resolution 2004-01. He will check for any updates.*
3. *Standard Form of Intervention, when a party not connected to the judgment asks to be a part of it, but will not receive any water rights. Mr. Montoya noted that any "intervention as a matter of right" would have to be done by law and motion and approved by the Court, not on a form. Mr. Stuart will strike the reference to it.*
4. *Application for Recapture – submittal of a groundwater storage agreement but has no plan for recovery at the time, but later submits an application for recapture. No such form exists.*

Other terms referred to in the Rules and Regulations are:

- *Salt Credits – this has not yet been used. Jaggers provided examples when this might apply*
- *Redetermination of Operating Yield – The term is confusing as the judgment defines it. Stuart suggested recharacterizing as "Annualized Safe Yield"*

Stuart shared a table of items that have been identified for revision.

F. Consideration of Special Meetings / Workshops

Recommendation: Consider setting a schedule for special meetings / workshops for July 2024 and beyond

It was moved by Member Jaggers and seconded by Member Zoba to add workshops on July 10 and September 4 by the following vote:

AYES:	Armstrong, Jaggers, Vela, Vestal, Zoba
NOES:	None
ABSTAIN:	None
ABSENT:	None
STATUS:	Motion Approved

VIII. Topics for Future Meetings

	Item	Date Listed
A	Development of a Recycled Water Policy	3/27/2019
B	Development of a return flow accounting policy	3/27/2019
C	Development of a methodology and policy to account for groundwater storage losses in the basin / groundwater management	3/27/2019
D	Procurement Policy including thresholds for RFP process	8/17/2021
E	Incidental discharge	10/6/2021
F	Monitoring of future west side well sites and methodologies, and potential collaboration with USGS	10/5/2022
G	Discussion on what to do when an Appropriator goes negative	10/4/2023 and 11/1/2023
H	Development of a Policy to Document and Account for Emergency Potable Water Transfers from Appropriator to Overlying Party	4/17/24 (tabled)

IX. Comments from the Watermaster Committee Members: None.

X. Announcements

2024 Meeting Dates:

Wednesday, June 5 at 11 a.m.	Regular Meeting
Wednesday, July 10 at 11 a.m.	Special Meeting
Wednesday, August 7 at 11 a.m.	Regular Meeting
Wednesday, September 4 at 11 a.m.	Special Meeting
Wednesday, October 2 at 11 a.m.	Regular Meeting
Wednesday, December 4 at 11 a.m.	Regular Meeting

XI. Adjournment

Chair Vela adjourned the meeting at 12:51 p.m.

Attest:

Daniel Jaggers, Secretary
Beaumont Basin Watermaster

Record of the Minutes of the
Beaumont Basin Committee Meeting of the
Beaumont Basin Watermaster
Regular Meeting
Wednesday, June 5, 2024

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 11:01 a.m.

II. Roll Call

City of Banning	*Art Vela*	*Present*
City of Beaumont	*Robert Vestal*	*Present*
Beaumont-Cherry Valley Water District	*Dan Jaggers*	*Present*
South Mesa Water Company	*David Armstrong*	*Present*
Yucaipa Valley Water District	*Joseph Zoba*	*Present*

Hanibal 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:
Jennifer Ares, Yucaipa Valley Water District
Madeline Blua, Yucaipa Valley Water District
Erin Anton, Yucaipa Valley Water District
Joyce McIntire, Yucaipa Valley Water District
Mike Kostelecky, Yucaipa Valley Water District
Erin Anton, Yucaipa Valley Water District
Allison Edmisten, Yucaipa Valley Water District
Brittany Lim, South Mesa Water Company
Lance Eckhart, San Gorgonio Pass Water Agency
Matt Howard, San Gorgonio Pass Water Agency
Ron Duncan, San Gorgonio Pass Water Agency
Kevin Walton, San Gorgonio Pass Water Agency
Larry Smith, San Gorgonio Pass Water Agency
James Bean, Beaumont-Cherry Valley Water District
Evan Ward, Beaumont-Cherry Valley Water District
Khalid Sebai, Beaumont-Cherry Valley Water District
Mark Swanson, Beaumont-Cherry Valley Water District
Robert Rasha, Beaumont-Cherry Valley Water District

John Covington
Thaxton van Belle, City of Beaumont
Dustin Christensen, City of Beaumont

III. Pledge of Allegiance

IV. Public Comments: None.

V. Consent Calendar

A. Meeting Minutes (note the April 3 meeting was cancelled)
   a. April 17, 2024 Special Meeting

B. Status Report on Water Level Monitoring throughout the Beaumont Basin through May 20, 2024

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

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

AYES:	Armstrong, Jaggers, Vela, Vestal, Zoba
NOES:	None
ABSTAIN:	None
ABSENT:	None
STATUS:	Motion Approved

VI. Reports

A. Report from Engineering Consultant – Hannibal Blandon, ALDA Engineering
No report.

B. Report from Hydrogeological Consultant – Thomas Harder
No report.

C. Report from Administrative Consultant – Steve Stuart, Dudek – *Mr. Stuart provided an update that YVWD and BCVWD provided surveying results for their respective wells in the Beaumont Basin. This information will be incorporated into the Beaumont Basin Data Management System (DMS). Mr. Stuart also provided an update on the development of the DMS and reminded the Committee members that, on March 6, Mr. Palavido provided them with login information to access and test the DMS site. Mr. Stuart requested feedback from the Committee members by the end of June. After that, Mr. Palavido will provide documentation to the Committee members instructing them how to input data into the DMS.*

D. Report from Legal Counsel – Thierry Montoya – Frost, Brown, Todd
No report (Mr. Montoya was not present/online at this time to provide a report).

E. Report from BBWM Treasurer – Joe Zoba – Financial Status Report
Mr. Zoba directed the Committee's attention to page 29 that listed task orders that will be closing at end of this fiscal year where unspent funds will be returned back to an account(s) for those that participated in the task orders.

VII. Discussion Items

A. Consideration of the Watermaster Budget for Fiscal Year 2024-25

Recommendation: Approve the Budget as presented and invoice each committee member accordingly.

Mr. Zoba noted that the way the Watermaster works is any time that an item is approved by the participating members they share the cost. This fiscal budget includes administrative items, including bank fees, the annual audit and legal expenses, which come out of this budget. The budget is $29,675. If this is approved, then each agency will share in the administrative cost.

It was moved by Member Armstrong and seconded by Member Jaggers to approve Budget.

AYES:	Armstrong, Jaggers, Vela, Vestal, Zoba
NOES:	None
ABSTAIN:	None
ABSENT:	None
STATUS:	Motion Approved

B. 2023 Consolidated Annual and Engineering Report

Recommendation: That the Watermaster Committee Considers Approving the 2023 Annual Report after Comments Received on the Draft Report are presented and Discussed.

Mr. Blandon presented a summary of comments received on the draft report. The Watermaster had a previous discussion about reporting in calendar year vs. reporting to the State for the water year. A new section was created in the annual report titled, "Certification of Groundwater Production and Imported Water Use during Water Year 2023". Imported water deliveries documented in Table 3-10 of the annual report, but discrepancy in SGPWA delivered based on Point of Delivery vs. Retail

Agencies. Change in Storage documented in new figure, 3-17. Change in storage from October 2022 to October 2023 is 3,643 acre-feet.

Mr. Jaggers pointed out that SGPWA delivered water to their storage account, and then BCVWD purchased that amount. This transaction could explain the discrepancy between the SGPWA deliveries.

Comments received by BCVWD and City of Banning; no comments received by City of Beaumont, South Mesa, and YVWD.

Main concern by BCVWD was the absence of documentation of water services provided by YVWD to specific parcels as a result of the OVP transfers. Mr. Jaggers noted that the Committee approved previously that water service would be reported parcel by parcel on an annual basis. This is reflected in the proposed revisions to the rules and Regulations. Mr. Jaggers is not disputing the overall transfer.

[Note that Legal joined at 11:13 a.m.]

Mr. Blandon requested clarification from the Committee on how to report the OVP transfers of 478.25 acre-feet to YVWD to finalize the annual report. Mr. Jaggers noted that there was no submittal of data on parcels receiving water service from YVWD. Mr. Jaggers thought that an accounting of parcels served should be provided, even if the service was below the amount previously transferred. BCVWD's comments included two questions: (1) are we following this format moving through time? and (2) are we reflecting it in this report? Mr. Jaggers proposed that the report be amended to include 2023 conversions to parcels that received service from YVWD and report a total aggregate of parcels served to date. Mr. Zoba noted that the annual report documents conditions in the basin for the year, including transfers from Overlyers to Appropriators. There was no transfer of Overlying Water Right from OVP to YVWD in 2023, and so the 2023 report being silent on that is reflective of this. To satisfy Mr. Jaggers' concern, Mr. Zoba proposed that the 2023 annual report include a statement that confirms no additional Overlying Water Right was transferred to YVWD from OVP in 2023.

Mr. Jaggers proposed to approve the draft report as noted with the additional comments proposed by Mr. Zoba.

Public comments: Lance Eckhart, general manager of SGPWA, noted that the report stated there was a lack of monitoring data at the intersection of Brookside and Beaumont Ave., and that SGPWA is recharging a lot of water there this year. SGPWA would like to work with the Watermaster to add some monitoring sites in that area. Mr. Jaggers noted that BCVWD is looking into the possibility of installing a production well in the northwest corner of Noble Creek Recharge

Facility and asked Mr. Eckhart if that well would also serve for monitoring purposes. Mr. Eckhart reiterated that SGPWA is willing to work with the Watermaster to address the data gap as more imported water is brought into the area.

It was moved by Member Jaggers and seconded by Member Armstrong to approve the annual report by including the additional statements.

AYES:	Armstrong, Jaggers, Vela, Vestal, Zoba
NOES:	None
ABSTAIN:	None
ABSENT:	None
STATUS:	Motion Approved

C. Update on the Safe Yield Reset of the Beaumont Basin

Recommendation: for information and discussion

Thomas Harder presented an update on the Safe Yield Redetermination for the Beaumont Basin. Mr. Harder noted that the Safe Yield is to be redetermined every 10 years per the Judgement. Originally, the Safe Yield was 8,650 acre-feet per year (AFY). A redetermination in 2013 defined the Safe Yield at 6,700 AFY. Safe Yield is being redetermined in 2023 for the next 10-year period. Thomas Harder & Company (TH&C) performed an uncertainty analysis by looking at different combinations of parameters in the basin and analyzed multiple realizations. This gave a range of Safe Yield estimates for the basin. Based on that range and plotting the estimates on a probability plot, the 50% probability was 7,100 AFY. TH&C recommends that the Safe Yield be adjusted to 7,100 AFY for the next 10-year period. Mr. Harder stated that they are looking forward to any input from the Committee on the technical memo and results of the Safe Yield redetermination at their earliest convenience.

Mr. Zoba requested that TH&C include a table in the report that summarizes how the Overlying Water Rights are affected by the change in the Safe Yield. Mr. Vela asked Mr. Montoya where does the Court action to apply this to the Judgment take affect? Perhaps this remains in draft form until the Court takes action? Mr. Montoya recommended the draft should remain in draft form for the time being. Mr. Jaggers noted that the draft report should be shared with the Overlyers for their review before the Watermaster Committee approves and adopts the change in Safe Yield. Mr. Zoba noted that the Judgement only requires that the Watermaster adopts the redetermination of the Safe Yield and files it with the Court. The Judgement does not require the Court to approve the redetermination of the Safe Yield. Mr. Montoya concurred that the redetermination only be filed with the Court, but supported Mr. Jaggers' recommendation to disseminate the draft

report to the Overlyers before filing. Mr. Jaggers recommended defining a period of review and comments by the Overlyers before the Watermaster files the report. Mr. Vela concurred with a 45-day review period.

Public Comments: Mr. Eckhart noted in Section 3.3 in the report on imported water forecast and highlighted other sources of imported water outside the Table A allocations and that there could be other potential sources like Sites. Mr. Eckhart wanted to make sure the Watermaster was aware that the regional water portfolio is larger than the Table A allotment and that the Watermaster has a complete picture of the available imported water supply. Mr. Harder noted that they identified imported water supplies that they were aware of in the report.

Mr. Harder will revise the draft report per comments by the Committee today, including a new table summarizing the changes in the Overlying Water Rights as a result of the redetermination of the Safe Yield. Mr. Harder will turn around the revised draft to the Committee members in time to discuss by the August meeting.

D. Update on Revising the BBWM Rules and Regulations

Recommendation: for information and discussion

Mr. Stuart presented an update on revising the Rules and Regulations. Two versions of the recommended revisions to the Rules and Regulations: a red-lined version showing the edits, and a clean version with the recommended changes incorporated into the Rules and Regulations. New definitions added to the Rules and Regulations: "Storage Account" and "Storage Party".

Regarding Section 2.13, Interventions, last sentence reads, "Interveners shall have no water rights under the Judgement (unless acquired from an Appropriator Party)." No mention of this in the Judgement. Does this last question still apply? Mr. Montoya replied that there is no reason to have that last sentence in the Rules and Regulations. The stipulated Judgement deals with the rights of parties that have claims to water rights to the basin. An intervener, an unidentified third party, if they want to make any claim the burden is entirely upon the intervener to file a motion to intervene with the Court. Mr. Vela concurred with Mr. Montoya to remove the last sentence. Mr. Zoba suggested to remove the entire section on intervention. Mr. Montoya suggested that the Rules and Regulations say as little as possible on intervention. Mr. Jaggers requested time to review the Judgement before making a final decision, but concurs with striking out the last sentence.

Mr. Stuart noted that the last sentence in Section 4.3 on Losses or Spills from the basin reads, "Supplemental Water stored pursuant to Groundwater Storage Agreements shall be lost prior to Basin water (i.e.,

unused operating safe yield) held in Storage by a Party to the Judgement." Mr. Stuart inquired if this statement referred to the physical loss of water at these boundaries of the basin, and if that is the case then we need to know where the Stored Water was introduced to the basin as recharge and the migration of that water to the boundaries of the basin. Mr. Stuart asked the Committee members if his interpretation of this sentence is correct, or do we want to strike this sentence from the Rules and Regulations? Mr. Jaggers noted that the agencies work to store water and build up their respective storage accounts, and that when we start looking at how we aggregate losses he is concerned that we start differentiating and striking the last sentence is probably best because it allows us to work together for the maximum health of the basin. Mr. Zoba stated that we should understand losses from the basin. We have a great model, so let's get some information in front of us and see what water molecules are leaving the basin and make an educated decision on this topic. Mr. Zoba suggested that the language not be stricken but remain. Mr. Vela concurred with Mr. Zoba with using the model to help develop and implement a policy on water losses. Mr. Jaggers noted that the basin has always had losses, and would be interested in knowing what the losses were at the time of the Judgement and to differentiate between current losses to historical losses. Mr. Stuart mentioned that he will leave the sentence as it is, but will work with Mr. Harder on simulations with particles to see what the travel time is from the spreading basins to the basin boundaries.

Mr. Stuart posed a question on the definition of "Stored Water" in the Judgement, which reads, "means Supplemental Water stored in the Beaumont Basin pursuant to a Groundwater Storage Agreement with the Watermaster." Should "Stored Water" include New Yield Water? New Yield Water is created through the actions of a project and will add a new yield that is accessible to the Party that created that New Yield. This will allow New Yield Water to be identified as a source of water in a Groundwater Storage Agreement, to which the Party creating the New Yield will have a Storage Account to account for that New Yield, and will be available for recapture, transfers, etc. Mr. Jaggers noted that we all will be looking at developing other sources of water and is a proponent for analyzing everything. Mr. Vela doesn't mind adding New Yield to the definition.

Mr. Stuart, in reviewing the Rules and Regulations and documenting recommended revisions, realized that the Watermaster Forms will need updating and/or revisions. In particular, Forms 7 and 8 appear to be asking the same thing. We are not differentiating sources of water, and so Form 7 doesn't seem needed anymore. Recommend striking Form 7 and just use Form 8 to document the transfer of water between Appropriators. Mr. Vela noted from an administrative perspective that there has been so much discussion on Form 7 activities and would hate to have a new Form 7 that is completely different and whether we vacate Form 7 and move on to a new Form 9. Mr. Stuart reiterated that at this time he is looking for feedback

from the Committee members, including feedback on how to proceed with the Form 7. Mr. Jaggers noted that we have resolutions in place that track along some of these things, that if we are going to tie it all up we have to go back and pick all these up and handle it holistically.

Mr. Stuart provided a timeline for receiving comments from the Committee on the recommended revisions. Mr. Stuart will address any comments at the July 10 and August 7 meetings. Goal is to finalize the revisions by the end of 2024. Mr. Jaggers requested that Mr. Stuart provide digital copies of the Watermaster Forms that he is reviewing to the Committee members in the next week or two so that all members are reviewing the same documents.

Mr. Stuart referred back to the discussion on the transfer of Overlying Water Right from Oak Valley Partners to YVWD. The Rules and Regulations were revised to reflect the policy on documenting such transfers. Mr. Stuart reminded the Committee that one Form 5 was received and filed, which was dated in 2018, and in that Form 5 OVP agreed to transfer all of its Overlying Water Right to YVWD. As parcels are being developed and water service is brought to these parcels, the Committee agreed that YVWD would provide annually the amount of water that was served, a map showing the parcels that were served, and a table listing the parcels as they are defined today and their correlating APN at the time of the Judgement. Then, whenever the service exceeds the amount of water already transferred, YVWD would file the information documenting the water service. Mr. Stuart presumed that YVWD did not serve more than 478 AF in 2023, and so no documentation was required since no transfer was done. Only when the water service exceeds the amount already transferred, then documentation is required to note the transfer.

Public Comments: Mr. Eckhart noted that Section 4.3 is concerning with the statement that Supplemental Water is lost before Basin Water. Mr. Eckhart referred to the period of temporary surplus when a hole was developed to create space for imported water. Mr. Eckhart doesn't see how imported water that was brought in for that created storage could be lost first. In addition, the Basin losses could be considered an upstream obligation to a downstream basin. When thinking about basin losses to the east, coordination with the GSA to the east should be done as consideration in determining losses from the Basin. Mr. Eckhart addressed data gaps and looking to install monitoring wells in the area where there is active recharge via spreading basins. SGPWA is looking to install monitoring wells at the eastern boundary of the Basin to fill in the data gap there. Mr. Eckhart suggested that the Watermaster walk through these recommended changes at a paced, deliberative manner along with workshops to fully vet how these rules may affect the basin and the various entities to holistically manage supplies. Mr. Eckhart doesn't recommend the Watermaster adopt

full scale changes to the Rules without going through a transparent process that works through the issues with the region's water managers.

E. Analysis of Future Hydrogeologic Scenarios Using the Model

Recommendation: for information and discussion

Mr. Harder noted from previous special meetings the discussion on undesirable results in the Basin and what those may look like. Mr. Harder presented a proposal, for discussion only, for three scenarios to be evaluated against a baseline which was included in the Safe Yield analysis. Scenario 1 is a worst case scenario, a very, very dry scenario and includes assumptions for Overlyer and Appropriator pumping, plus injection of water by YVWD; scenario 2 would be an intermediate not as dry scenario; and scenario 3 less drier. Mr. Harder is requesting feedback from the Committee on running the simulations as proposed. Ideas for output may be looking at losses from the Basin, and what if Sites Reservoir water was available as an imported water supply. Mr. Harder suggested the Committee address this topic again at the July Special Meeting.

Public Comment: Mr. Eckhart wanted to make sure that all projects to increase artificial recharge to the Basin be considered in these scenarios. Mr. Eckhart pointed out that DWR's delivery capability report lays out the estimated water supply for the region. This is the foundation for imported supplies for SGPWA and is our realistic scenario.

F. Consideration of Amendment to Task Order No. 4 for Preparation and Attendance at Special Committee Meetings

Recommendation: Approve an amendment to Task Order No. 4 for a sum not-to-exceed $12,825.00.

Mr. Harder noted that additional three special meetings were approved by the Committee, and so Mr. Harder is requesting additional funds to prepare for and participate in the three additional special meetings.

It was moved by Member Zoba and seconded by Member Jaggers to approve an amendment to Task Order No. 4 for a sum not-to-exceed $12,825 by the following vote:

AYES:	Armstrong, Jaggers, Vela, Vestal, Zoba
NOES:	None
ABSTAIN:	None
ABSENT:	None
STATUS:	Motion Approved

G. Update on Annual Water Budget Analysis for Proposed Beaumont Basin Study Areas

Recommendation: Presentation only. No action required

Mr. Harder noted that this is another information item. Mr. Harder acknowledges that the basin is different on the west side compared to the east side. Most of the Overlyer pumping is on the west side of the Basin. We originally lookcd at the middle fault of the Beaumont Plains Fault zone as the divider between the west and east. By including well BCVWD-24 in the west side of the Basin, this tended to skew the water budget. So, Harder used the fault trace west of the middle trace to be the boundary between the west and east sides of the Basin. Mr. Harder did a water budget for the West Beaumont study area and the East Beaumont study area. Mr. Harder showed the results of a water budget for the west side using the numerical model, which indicated an average annual loss of 789 AFY in storage. This provides an idea of what needs to be done to overcome the losses and make this part of the Basin whole.

The average annual change in storage in the east side of the Basin is estimated at a positive 4,396 AFY. These results should help inform on how to manage the Basin. Mr. Zoba inquired about the losses to the east of the Basin, and how we need to account for these losses and that supplemental water may be what's lost prior to native water due to the increased hydraulic gradient caused by recharge in the east side of the Basin. Mr. Jaggers inquired about the model drains in the west side of the Basin domain in the narrow alluvial channels between the non-active model "islands". Mr. Harder pointed out that the USGS identified springs in that area of the Basin. TH&C was having some numerical instability in that area, so to stabilize the model they added drains. The drains are a modeling feature that basically takes water out of the model. In this particular case, it's a drain return. It takes water out of the model and dumps it back into the channel. Mr. Jaggers asked if the water is returned back to the basin. Mr. Harder responded that no, the water is returned out of the basin.

VIII. Topics for Future Meetings

	Item	Date Listed
A	Development of a Recycled Water Policy	3/27/2019
B	Development of a return flow accounting policy	3/27/2019
C	Development of a methodology and policy to account for groundwater storage losses in the basin / groundwater management	3/27/2019
D	Procurement Policy including thresholds for RFP process	8/17/2021
E	Incidental discharge	10/6/2021
F	Monitoring of future west side well sites and methodologies, and potential collaboration with USGS	10/5/2022
G	Discussion on what to do when an Appropriator goes negative	10/4/2023 and 11/1/2023
H	Development of a Policy to Document and Account for Emergency Potable Water Transfers from Appropriator to Overlying Party	4/17/24 (tabled)

IX. Comments from the Watermaster Committee Members: None.

X. Announcements

2024 Meeting Dates:

Wednesday, July 10 at 11 a.m.	Special Meeting
Wednesday, August 7 at 11 a.m.	Regular Meeting
Wednesday, September 4 at 11 a.m.	Special Meeting
Wednesday, October 2 at 11 a.m.	Regular Meeting
Wednesday, December 4 at 11 a.m.	Regular Meeting

XI. Adjournment

Chair Vela adjourned the meeting at 12:57 p.m.

Attest:

Daniel Jaggers, Secretary
Beaumont Basin Watermaster

Record of the Minutes of the
Beaumont Basin Committee Meeting of the
Beaumont Basin Watermaster
Special Meeting
Wednesday, July 10, 2024

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

City of Banning	*Art Vela*	*Present*
City of Beaumont	*Robert Vestal*	*Present*
Beaumont-Cherry Valley Water District	*Mark Swanson*	*Present*
South Mesa Water Company	*David Armstrong*	*Present*
Yucaipa Valley Water District	*Jennifer Ares*	*Present*

Hannibal Blandon and Thomas Harder were present as engineers for the Beaumont Basin Watermaster (BBWM).
Steve Stuart, Dudek, BBWM administrator
Thierry Montoya, BBWM legal counsel

Members of the public who registered and / or attended:
Ron Duncan, San Gorgonio Pass Water Agency
Lance Eckhart, San Gorgonio Pass Water Agency
Joyce McIntire, Yucaipa Valley Water District
Alison Edmisten, Yucaipa Valley Water District
Matt Ford, Thomas Harder & Co.
Erin Anton, Yucaipa Valley Water District
Thaxton Van Belle, City of Beaumont
Larry Smith, San Gorgonio Pass Water Agency
Robert Rasha, Beaumont-Cherry Valley Water District
Lynda Kerney, Beaumont-Cherry Valley Water District
Dan Jaggers, Beaumont-Cherry Valley Water District

III. Pledge of Allegiance: Chair Vela led the pledge.

IV. Public Comments: None.

V. Workshop / Discussion Items

A. Posting of Online Meeting Video Recordings to the Watermaster Website

Member Jaggers asked about the nature of the link and suggested the most judicious / accessible method. Mr. Rasha advised that BCVWD records the meeting in both audio and video, but YVWD manages the BBWM website. BCVWD would be happy to coordinate with YVWD for access to the recordings. To start, he said they would likely be posted on the BBWM website, but there is no technical limitation to prevent posting on YouTube or other online platform. Ms. Ares indicated YVWD would take responsibility for posting the recordings on the BBWM website.

It was moved by Member Armstrong and seconded by Member Vela to authorize posting of meeting video recordings to the Watermaster website.

AYES:	Armstrong, Swanson, Vela, Vestal, Ares
NOES:	None
ABSTAIN:	None
ABSENT:	None
STATUS:	Motion Approved

B. Update on Safe Yield Redetermination Technical Report

Mr. Harder indicated that comments on the Tech Memo are being addressed. The Committee had requested a table showing how the new safe yield would look in terms of overlying rights, and it is included in the agenda packet.

It was moved by Member Swanson and seconded by Member Armstrong to table items V-B, V-C, V-D and V-E to a future meeting.

AYES:	Armstrong, Swanson, Vela, Vestal, Ares
NOES:	None
ABSTAIN:	None
ABSENT:	None
STATUS:	Motion Approved

C. Discussion on Basin Losses

This item was tabled.

D. Discussion on Annual Water Budget Analysis for Proposed Beaumont Basin Study Areas

This item was tabled.

E. Discussion on Evaluating Future Hydrogeologic Scenarios Using the Model

This item was tabled.

VI. Topics for Future Meetings

	Item	Date Listed
A	Development of a Recycled Water Policy	3/27/2019
B	Development of a return flow accounting policy	3/27/2019
C	Development of a methodology and policy to account for groundwater storage losses in the basin / groundwater management	3/27/2019
D	Procurement Policy including thresholds for RFP process	8/17/2021
E	Incidental discharge	10/6/2021
F	Monitoring of future west side well sites and methodologies, and potential collaboration with USGS	10/5/2022
G	Discussion on what to do when an Appropriator goes negative	10/4/2023 and 11/1/2023
H	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

VII. Comments from the Watermaster Committee Members: None.

VIII. Announcements

2024 Meeting Dates:

Wednesday, August 7 at 11 a.m.	Regular Meeting
Wednesday, September 4 at 11 a.m.	Special Meeting
Wednesday, October 2 at 11 a.m.	Regular Meeting
Wednesday, December 4 at 11 a.m.	Regular Meeting

XI. Adjournment

Chair Vela adjourned the meeting at 11:15 a.m.

Attest:

Daniel Jaggers, Secretary
Beaumont Basin Watermaster

Record of the Minutes of the
Beaumont Basin Committee Meeting of the
Beaumont Basin Watermaster
Regular Meeting
Wednesday, August 7, 2024

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

City of Banning	*Art Vela*	*Present*
City of Beaumont	*Dustin Christensen*	*Present*
Beaumont-Cherry Valley Water District	*Dan Jaggers*	*Present*
South Mesa Water Company	*David Armstrong*	*Present*
Yucaipa Valley Water District	*Joseph Zoba*	*Present*

Hanibal 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:
Brittany Lim, South Mesa Water Company
Joyce McIntire, Yucaipa Valley Water District
Brett Granlund, Yucaipa Valley Water District
Jennifer Ares, Yucaipa Valley Water District
Lance Eckhart, San Gorgonio Pass Water Agency
Kevin Walton, San Gorgonio Pass Water Agency
Emmett Campbell, San Gorgonio Pass Water Agency
Mark Swanson, Beaumont-Cherry Valley Water District
Robert Rasha, Beaumont-Cherry Valley Water District
Mr. Rose

III. Pledge of Allegiance

IV. Public Comments: None.

V. Consent Calendar

A. Meeting Minutes
   a. June 5, 2024 Regular Meeting
   b. July 10, 2024 Special Meeting

B. Status Report on Water Level Monitoring throughout the Beaumont Basin through July 23, 2024

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

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

AYES:	Armstrong, Christiansen, Jaggers, Vela, Zoba
NOES:	None
ABSTAIN:	None
ABSENT:	None
STATUS:	Motion Approved

VI. Reports

A. Report from Engineering Consultant – Hannibal Blandon, ALDA Engineering
No report.

B. Report from Hydrogeological Consultant – Thomas Harder
No report.

C. Report from Administrative Consultant – Steve Stuart, Dudek – *Mr. Stuart advised that feedback is being sought from Committee members on use of the Beaumont Basin Data Management System (DMS). Matt Palavido has provided instructions on uploading data to the system.*

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

VII. Discussion Items

A. Update on Safe Yield Redetermination Technical Report (tabled from 7/10/2024 meeting)

Recommendation: For information and discussion.

Tom Harder of Thomas Harder & Co. reminded that a draft Technical Memorandum / report was submitted for review last May summarizing the updated safe yield. Forty-one comments were received from Dudek and all were addressed, most have been incorporated into the draft final report in the agenda packet. Those not addressed are noted in the comment letter, and supporting information was provided to address those comments that were not incorporated into the report. He said his understanding was that the draft final report would also be submitted to the overliers for review.

Mr. Harder reminded the Committee of the request to look at how the new safe yield of 7,100 acre-feet per year for the next 10-year period would be proportioned in terms of allocation, and presented a table showing Overlying Parties Production Rights.

There is a question about the when the Safe Yield calculation time periods are applicable, Harder noted, and asked about submittal of the draft report to the overliers. Mr. Jaggers said he would work to get a package together to go out Monday, August 12.

B. Update on Revising the BBWM Rules and Regulations
Recommendation: For discussion purposes only

- *Section 2.13 Interveners*

Steve Stuart reminded the Committee about discussion at the June 5 meeting and the recommendation to strike Section 2.13 Interventions and to examine the last sentence. Member Zoba noted that interveners are covered in the Judgment and would be addressed by a legal document filed with the Court, not with the Watermaster. Following recommendation from Legal Counsel Montoya of not having procedures relative to interveners, as the Watermaster cannot legally dictate that process, it was decided to strike Section 2.13 from the Rules and Regulations.

- *Section 4.3 Losses or Spills from the Basin*

Mr. Stuart pointed to the last sentence and asked about loss of supplemental recharge water loss prior to loss of native groundwater. He reminded that it was agreed that Basin losses and flow needed to be better understood. He noted the last sentence will remain.

Mr. Jaggers added that the original overlier allocation considered an opportunity without replenishment for the first 10 years to pump a hole in the Basin and create an opportunity for storage. He noted that BCVWD has been balancing through conjunctive use, but which water was pumped first could become muddied by the nuances of extraction vs. replenishment. He suggested finding a solution that would balance the health of the Basin with replenishment and assuring water for the future. He discussed water flow and suggested further discussion on Basin losses.

Chair Vela wondered why the designation of which water was lost first was important, and if it impacted the Safe Yield calculation. Mr. Stuart said it did not; the question is about the physical movement of water through the Basin and the effects when working through a policy on accounting for Basin losses. Mr. Jaggers added that there was thought about storage in the Basin and which entity might lose water first, making sure that the players of Basin are not adversely affected.

- *Definition of "stored water"*

Mr. Stuart reminded about the suggestion to include new yield water in the definition and said it will be revised accordingly.'

- *Revision of Watermaster forms*

Mr. Stuart indicated he sent out recommended revisions on June 19 and requested feedback.

- *Timeline*

Mr. Stuart indicated that the goal was to have a revised document for review and approval by the end of the year. This is a document that will be constantly reviewed and revised, but this is the first deep dive that has been taken in a number of years, he noted. He requested feedback.

In response to Chair Vela regarding Section 6.4.2, Mr. Stuart explained it is not creating a new process, it is a revision of a form related to an application for extraction for the purpose of clarity.

San Gorgonio Pass Water Agency General Manager Lance Eckhart commented on carefully working through the basin losses item, pointing to the pumping of supplemental water, previous years' unused operating safc yield, and temporary surplus water. He cautioned about economically disincentivizing from importing water and retaining a few years' supply that can be referenced in Urban Water Management Plans and keeps the Basin overall healthy.

Eckhart discussed Basin optimization, noting that stable water levels are being seen and those indicate the water is hanging around. He recommended performing an analysis of how long water remains in the Basin, similar to what has been done for a neighboring basin.

Member Jaggers added that Basin optimization incudes not only conjunctive use but mechanical activities such as moving wells and siting recharge facilities in other areas. He noted proximity of BCVWD facilities that could provide water without pumping to YVWD.

C. Revisions to the **2013** Annual Report and Revisions to the **2023** Consolidated Annual Report and Engineering Report

Recommendation: Approve the Revisions to the Final 2023 Consolidated Annual and Engineering Report or Delay Finalizing the Report until the Beaumont Basin Safe Yield for the 2023-32 Period is Approved and a Corresponding Resolution is Adopted

Hannibal Blandon pointed out that the 10-year periods of the Safe Yield redetermination are inconsistent with the annual reports since 2013. Based on Section VI, Article 5Y of the Judgment, the Safe Yield shall be redetermined at least every 10 years beginning 10 years after the date of entry of the judgment (February 2004). He explained that the first redetermination should have been applicable in 2014, but was adopted with Resolution 2015-01 for the period 2013 to 2022, which does not match the calculations in the annual report and resulted in a discrepancy of 1,950 acre-feet. He recommended revisions to the 2023 annual report adopted in June 2024 to be consistent with the Safe Yield analysis conducted in 2013, or delay finalizing the report until the 2023-2032 Safe Yield is adopted. He also recommended amendment of Resolution 2015-01 to render the previous annual reports correct regarding unused overlying water.

Mr. Blandon responded to questions from Member Zoba, noting that the 2023 annual report could be corrected in the 2024 report to reflect the Safe Yield of 7,100 af. Zoba posited that it may not be possible to be retroactive, as what is contained in an annual report occurs in that year. He suggested there is compliance with the judgment which says Safe Yield redetermination at least every 10 years but is silent about the application of the redetermined Safe Yield. He recommended stating in the next resolution the effective date of the new Safe Yield.

Mr. Blandon responded to questions from Member Jaggers, who concurred with some statements from Member Zoba. Legal Counsel Montoya stated the Watermaster has been acting consistent with its obligations under the judgment and within its discretion. Going back in time can be done, but there has been reasonable reliance on the information, he said. It can be corrected going forward, which is within the tenor, spirit, and restrictors of the judgment, and is consistent with the Watermaster's discretion, he advised.

Chair Vela emphasized consistency with the judgment and said he would rather correct in the upcoming year rather than muddy the record. He agreed with the identification of an implementation period in the resolution adopting the new safe yield.

Mr. Blandon concurred that the judgment is silent on applicability. He concluded, and Mr. Montoya stated, that the 2023 Annual Report will stand as approved.

D. Discussion on Basin Losses (tabled from 7/10/2024 meeting)
Recommendation: for information and discussion

Mr. Harder referred to earlier discussion at this meeting and at the June meeting and reminded that Basin losses have been evaluated in the past,

and establishing a policy to address those losses had been considered. It has been recommended that those losses be accounted for, as it is a part of the water balance.

He reminded about the different hydrogeologic conditions on the east side and west side of the Basin and differences in change in storage and other aspects. He recommended retaining the information as a reference and later considering a formal management area.

Natural Basin losses are accounted for in the Safe Yield estimates but imported (owned) water stored in the Basin is not, Harder continued. He reviewed the model information and discussed scenarios. He recommended the technical team revisit the 2018 basin loss analysis to see how it dovetails with the model analysis stress test and revise the scope of work to include a loss analysis policy for consideration and make recommendations.

Member Zoba supported the suggestion but added that he was uncertain that the temporary surplus existed for SMWC and YVWD in the westerly portion of the Basin. How would this have been done right from the start, and how does it move forward, he asked.

Member Jaggers acknowledged the imbalance in Basin storage, and advocated a consistent approach to management with all opportunities on the table and across boundaries. The health of the basin is the most important thing, and agencies must work together more and more as water supply is subject to whiplash hydrology, he stated.

Member Armstrong emphasized it is an adjudicated Basin with storage accounts, and advised caution amid talk of Sustainable Groundwater Management Act types of activities.

Chair Vela acknowledged this is a complicated analysis and there are solutions. He pointed to variables and differences in agencies' production activities. It is the right thing to do to develop the loss policy, he stated.

In response to a question from Jaggers, Harder indicated there are currently no undesirable results in the Basin and the groundwater levels are relatively stable in most areas. The model is a planning tool for information and asking "what if," he noted.

Jaggers emphasized reasonable balance in the Basin, and understanding where weaknesses are in order for the producers and overliers to be able to support them. He offered examples of management. Harder concurred and emphasized reasonable, plausible, and not unrealistic.

Mr. Eckhart pointed out the model will become more sophisticated with time. He advised caution in making decisions with some of these tools. He noted in another area that focus was placed on groundwater monitoring, and advised that the body of knowledge can change over time.

Eckhart pointed out that many overliers are on the west side of the Basin, and unused production is pumped on the west and east. There is potential to balance the basin by doing just a few things such as looking at the overliers pumping, or moving water from the mound area by partnering with corresponding agencies. He suggested doing things that encourage bringing water in on a consistent basis to get through drought periods and examining whether recharge water is needed if the model shows it is getting squeezed out. He suggested that SGPWA would like to participate in some of the BBWM workshops to help carefully and thoughtfully work through some of the technical issues.

Mr. Rose offered public comment. He cautioned about use of modeling to establish policy and suggested assuring that no policy would be implemented until the community verifies the information and all the questions of all participants are answered. He encouraged accountability for losses and over purchasing / over expenditures, and said fiduciary penalties should never occur to those who would be picking up the slack for the inefficiencies of a governing body. He commented on overpaying for technology with no real outcome.

E. Discussion on Evaluating Future Hydrogeologic Scenarios Using the Model (tabled from 7/10/2024 meeting)

   Recommendation: None.

Mr. Harder discussed management of the basin to avoid undesirable outcomes and reminded about the scope and cost to provide straw man scenarios that stress test the Basin. The purpose would be to use the groundwater flow model to develop a plausible range of hydrogeological conditions to stress the Basin and determine environmental results. The goal would be to establish a basis for identifying significant and unreasonable conditions that would be considered undesirable results. This would be a planning tool for future projects and management actions such as those suggested by Mr. Eckhart.

Mr. Harder described the proposed scope of work with recommended incorporation of the loss analysis.

Member Zoba clarified the scope of work in that this will be combined with the Basin Losses scope of work in one proposal, and Member Jaggers discussed scenarios and management actions for consideration. Chair Vela

pointed to recycled water production and potential for supplemental extraction. Mr. Harder noted these are ways to optimize the basin, and the consultants had not envisioned inclusion, but later evaluating varying ways of managing. He noted this work can be included if desired; Jaggers spoke in favor of including some elementary concepts.

Chair Vela commented on regional management strategy and agencies working together as key. He suggested creating different scenarios later as policy decisions change based on the regional approach. Mr. Eckhart recommended fine tuning the monitoring program and data wrap up before doing any modeling runs.

Eckhart suggested consideration of period of drought and local hydrology in addition to imported water delivery capability. He encouraged the current management actions and noted those along with a good monitoring program is where the Watermaster needs to be. He offered assistance and data from the SGPWA.

Director Kevin Walton of the SGPWA expressed concern that this meeting appears to show the consultants are the "tail wagging the dog." He said he hoped the Committee is looking at it from the perspective of the public who is paying for this work, and suggested spending money wisely.

Member Zoba assured that the Committee is frugal and cost effective. It is easy to do only the reports required by the judgment, but the Committee is turning the corner by looking at managing future water supply and the Basin. The Committee looks at the consultant work and makes sure that value is obtained. With the State Water Project reliability at 44 percent, there are other places to look where money is being spent on the SWP with no return to this area.

Member Armstrong concurred, noting there is a lot of information already, and his goal is to assure SMWC funds are being spent wisely. Although he sometimes feels the action is not going in the right direction, the BBWM is doing the right thing and collaboration is important, but to the Committee must be careful about expenditures of the agencies' money.

Jaggers reminded that the members had been siloed, but things are getting better. He said he was encouraged by the outlooks and action, and does not feel it is high cost. At the end of the day, all want the community to have an assured water supply over time and it is important to memorialize the Committee's discussions and actions to assure the next members have a roadmap.

Chair Vela agreed it is important to parcel out the things that the BBWM is required to do (annual report) and those that the Committee is electing to

do (modeling and analysis) in order to have the right information to make data-driven decisions. The costs are split among the members, he added.

VIII. Topics for Future Meetings

	Item	Date Listed
A	Development of a Recycled Water Policy	3/27/2019
B	Development of a return flow accounting policy	3/27/2019
C	Development of a methodology and policy to account for groundwater storage losses in the basin / groundwater management	3/27/2019
D	Procurement Policy including thresholds for RFP process	8/17/2021
E	Incidental discharge	10/6/2021
F	Monitoring of future west side well sites and methodologies, and potential collaboration with USGS	10/5/2022
G	Discussion on what to do when an Appropriator goes negative	10/4/2023 and 11/1/2023
H	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

IX. Comments from the Watermaster Committee Members: None.

X. Announcements

2024 Meeting Dates:

Wednesday, September 4 at 11 a.m.	Special Meeting
Wednesday, October 2 at 11 a.m.	Regular Meeting
Wednesday, December 4 at 11 a.m.	Regular Meeting

XI. Adjournment

Chair Vela adjourned the meeting at 1:05 p.m.

Attest:

Daniel Jaggers, Secretary
Beaumont Basin Watermaster

Record of the Minutes of the
Beaumont Basin Committee Meeting of the
Beaumont Basin Watermaster
Special Meeting
Wednesday, September 4, 2024

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

City of Banning	*Art Vela*	*Present*
City of Beaumont	*Robert Vestal*	*Present*
Beaumont-Cherry Valley Water District	*Dan Jaggers*	*Present*
South Mesa Water Company		*Absent*
Yucaipa Valley Water District	*Joe Zoba*	*Present*

Hannibal Blandon and Thomas Harder were present as engineers for the Beaumont Basin Watermaster (BBWM).
Steve Stuart, Dudek, BBWM administrator
Thierry Montoya, BBWM legal counsel

Members of the public who registered and / or attended:
David Armstrong, South Mesa Water Company
Ron Duncan, San Gorgonio Pass Water Agency
Kevin Walton, San Gorgonio Pass Water Agency
Lance Eckhart, San Gorgonio Pass Water Agency
Mickey Valdivia, San Gorgonio Pass Water Agency
Jennifer Ares, Yucaipa Valley Water District
Mike Kostelecky, Yucaipa Valley Water District
Matt Porras, Yucaipa Valley Water District
Nyles O'Harra, Yucaipa Valley Water District
Dustin Christiansen, City of Beaumont
Alison Edmisten, Yucaipa Valley Water District
Thaxton Van Belle, City of Beaumont
Larry Smith, San Gorgonio Pass Water Agency
Matthew Palavido, Dudek
Jim Van de Water, Thomas Harder & Co.
Robert Rasha, Beaumont-Cherry Valley Water District
Lynda Kerney, Beaumont-Cherry Valley Water District
Mark Swanson, Beaumont-Cherry Valley Water District
James Bean, Beaumont-Cherry Valley Water District

III. Pledge of Allegiance: Chair Vela led the pledge.

IV. Public Comments: None.

V. Workshop / Discussion Items

A. Update on Distribution of Safe Yield Redetermination Technical Report to Overliers

Member Jaggers indicated that staff had worked to verify and update the List of Overliers and Interested Parties. On or about August 26-27, a total of 44 communications were sent via email or regular mail. Comments were requested by September 16 and will be forwarded to the consultant.

B. Update on New U.S. Geological Survey (USGS) Monitoring Wells in Coordination with the San Gorgonio Pass Water Agency (SGPWA)

Steve Stuart of Dudek described the proposed monitoring sites. USGS would finalize the locations and install equipment in the second or third quarter of 2025. Chair Vela pointed to proposed Location 1 and explained that the City of Banning recently drilled Well C8 .4 miles west. There is no expected interference.

C. Proposal from Thomas Harder & Co. to Investigate Basin Losses and Evaluate Future Hydrogeologic Scenarios of the Beaumont Basin

Jim Van de Water of Thomas Harder & Co., reminded about prior discussion on stress analysis and loss analysis. So far, the west side and east side of the basin is defined, he said, and pointed to a plausible hydrogeologic issue, and possible limits to how much appropriators can draw from their storage accounts without causing undesirable results.

The Scope of Work (SOW) from Harder hinges on the safe yield reset, Van de Water continued, and will use the existing model. He described the questions to answer, modeling, assumptions, and capability of the model.

Discussion focused on needs from the model / analysis and assurance of accurate data.

Chair Vela asked if one analysis feeds into the other, or if the stress analysis would lead to the loss analysis. Mr. Van de Water said a loss analysis could be done right now using particle tracks, but the model would not consider dry conditions.

Chair Vela asked if the Committee was interested in the project, and whether there should be focus on the loss analysis. Member Jaggers

indicated he saw value in the perspective and said and assessment would help understand and create a multi-year strategy.

Lance Eckhart, General Manager of the San Gorgonio Pass Water Agency, noted that it would be important to reflect the water portfolio; the SOW inputs do not reflect reality. Mr. Eckhart cautioned against a modeling exercise of multiple scenarios that do not reflect the imported water supply. He pointed to the Department of Water Resources State Water Project delivery capability report and described further inputs for consideration in the model.

Member Zoba emphasized identifying what questions are to be answered, such as how have losses increased or decreased over the life of the adjudication. That would lead to a policy on how to manage the losses. What does the Basin look like if storage accounts were depleted, he continued. He described the Basin management actions of YVWD and noted that some of the current Rules are not realistic. Member Zoba recommended reducing the SOW to consider only two or three scenarios for losses and stress analysis and review the results.

Chair Vela cautioned that the SOW could get away and expressed concern about looking like SGMA. It should provide guidance, if anything. Member Zoba emphasized that adjudication of the Basin came about because of potential damages caused by one pumper on another, and stated his concern was whether someone could be damaged by another's activity just by following the rules.

Mr. Eckhart emphasized management strategies and understanding of the Basin. He suggested moving into Basin operation and learning how to operate it effectively. Mr. Stuart added that overliers have a right to the safe yield, and it should be looked at who is most vulnerable to declining water levels and how to protect those users.

Member Jaggers recalled that the Watermaster role is to understand strengths and weaknesses and learn how to leverage the Basin. He suggested the possibility of sharing wells and facilities where needed, and negotiating deals to preserve the west side, with actions complementary to preserve the Basin.

Member Zoba recommended putting together five to 10 questions by the next meeting and then choosing two to answer using the model. Chair Vela asked what would be needed for the model to help inform the development of a loss policy. Member Vestal asked if the results of the loss analysis could be obtained to refine the steps for running the stress analysis. The Committee requested the consultant bring back a proposal to tackle the loss question.

D. Proposal to Renew Annual ESRI Subscriptions and Services for the Beaumont Basin Data Management System

Mr. Stuart reminded that development of the Data Management System (DMS) was presented to the Watermaster Committee in June 2023. The proposal included subscribing to ESRI licenses that were good for one year, and those licenses have expired. This proposal is to renew those ESRI licenses for another year and includes labor hours for Dudek personnel to manage the DMS over the next year. Mr. Jaggers stated the Watermaster should get annual submittal of the data sets in case the relationship with ESRI expires, and a repository for the activities in case of discontinuation. Chair Vela directed the information be sent to BCVWD as the Recording Secretary, to be made available to all members.

It was moved by Member Zoba and seconded by Member Jaggers to renew the annual ESRI online subscriptions and Dudek support services for the Beaumont Basin Data Management System from August 3, 2024 to August 2, 2025 for a sum of $15,824.46 and send invoices to each Watermaster Committee member for 20% of the approved amount. Approved by the following vote:

AYES:	Jaggers, Vela, Vestal, Zoba
NOES:	None
ABSTAIN:	None
ABSENT:	South Mesa Water Company
STATUS:	Motion Approved

E. Scheduling of Future Special Meetings

The Committee set the following Special Meeting schedule:

- Wednesday, January 15, 2025 at 11 a.m.
- Wednesday, March 5, 2025 at 11 a.m.

It was moved by Member Jaggers and seconded by Member Zoba to approve the above schedule. Approved by the following vote:

AYES:	Jaggers, Vela, Vestal, Zoba
NOES:	None
ABSTAIN:	None
ABSENT:	South Mesa Water Company
STATUS:	Motion Approved

VI. Topics for Future Meetings

	Item	Date Listed
A	Development of a Recycled Water Policy	3/27/2019
B	Development of a return flow accounting policy	3/27/2019
C	Development of a methodology and policy to account for groundwater storage losses in the basin / groundwater management	3/27/2019
D	Procurement Policy including thresholds for RFP process	8/17/2021
E	Incidental discharge	10/6/2021
F	Monitoring of future west side well sites and methodologies, and potential collaboration with USGS	10/5/2022
G	Discussion on what to do when an Appropriator goes negative	10/4/2023 and 11/1/2023
H	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
I	Table to be included in the Safe Yield Technical Memorandum showing the recalculated safe yield allocation to overliers	9/4/2024

VII. Comments from the Watermaster Committee Members:

Chair Vela noted the roundtable / workshop format of this meeting. Attendees advised it was difficult to hear others.

VIII. Announcements

2024/2025 Meeting Dates:

Wednesday, October 2 at 11 a.m.	Regular Meeting
Wednesday, December 4 at 11 a.m.	Regular Meeting
Wednesday, January 15 at 11 a.m.	Special Meeting
Wednesday, February 5 at 11 a.m.	Regular Meeting
Wednesday, March 5 at 11 a.m.	Special Meeting

XI. Adjournment

Chair Vela adjourned the meeting at 12:30 p.m.

Attest:

Daniel Jaggers, Secretary
Beaumont Basin Watermaster

Record of the Minutes of the
Beaumont Basin Committee Meeting of the
Beaumont Basin Watermaster
Regular Meeting
Wednesday, October 2, 2024

Meeting Location:

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

I. Call to Order

Vice Chair David Armstrong called the meeting to order at 11:00 a.m.

II. Roll Call

City of Banning		*Absent*
City of Beaumont	*Robert Vestal*	*Present*
Beaumont-Cherry Valley Water District	*Dan Jaggers*	*Present*
South Mesa Water Company	*David Armstrong*	*Present*
Yucaipa Valley Water District	*Joseph Zoba*	*Present*

Hanibal 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:
Art Vela, City of Beaumont (via teleconference as a member of the public)
Brittany Lim, South Mesa Water Company
Nyles O'Harra, Yucaipa Valley Water District
Jennifer Ares, Yucaipa Valley Water District
Lance Eckhart, San Gorgonio Pass Water Agency
Ron Duncan, San Gorgonio Pass Water Agency
Kevin Walton, San Gorgonio Pass Water Agency
Larry Smith, San Gorgonio Pass Water Agency
Jim Van de Water, Thomas Harder & Co.
Matt Ford, Thomas Harder & Co.
Kenyon Potter, City of Beaumont
d.lee
Clay Sorenson, West Yost
Matt Baillie, West Yost
Mark Swanson, Beaumont-Cherry Valley Water District
James Bean, 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. Consent Calendar

A. Meeting Minutes
August 7, 2024 Regular Meeting – as Revised

B. Status Report on Water Level Monitoring throughout the Beaumont Basin through September 16, 2024

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

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

AYES:	Armstrong, Jaggers, Vestal, Zoba
NOES:	None
ABSTAIN:	None
ABSENT:	Vela
STATUS:	Motion Approved

VI. Reports

A. Report from Engineering Consultant – Hannibal Blandon, ALDA Engineering
No report.

B. Report from Hydrogeological Consultant – Thomas Harder
No report.

C. Report from Administrative Consultant – Steve Stuart, Dudek – *At the July 7, 2024 Special Meeting, the Committee approved upload of meeting videos to the website, but the videos are not yet posted.*
The online data management system is operational, and Committee members are encouraged to log in, browse the site, and provide feedback.

D. Report from Legal Counsel – Thierry Montoya – Frost, Brown, Todd
Counsel Montoya reported on response to a Public Records Act request from the Morongo Band of Mission Indians.

VII. Discussion Items

A. Update on the Redetermination of the Safe Yield in the Beaumont Basin

Recommendation: For information and discussion

Tom Harder of Thomas Harder & Co. reminded that the Safe Yield had been updated to 7,100 acre-feet (af). Comments were received on the draft report submitted in May and a draft final was resubmitted in July. In August, a table was added indicating how the 7,100 af was to be allocated among the overliers. The draft was transmitted to the overliers in August and one comment was addressed. Mr. Stuart requested feedback in order to finalize the document.

Member Jaggers advised that BCWVD staff had worked to update the list of overlying parties and interested persons.

This Report will be placed on the December 4, 2024 meeting agenda for approval.

B. Analysis of Beaumont Basin Storage Losses using the Model

Recommendation: For information and discussion

Tom Harder discussed the analyses presented, scope of work and cost estimates to evaluate significant and unreasonable impacts in the Basin; using the model to stress test the Basin. At the Sept. 4, 2024 Workshop, it was understood that the Committee's direction was to narrow the focus to losses. The scope of work and cost estimate was revised and is in the meeting packet.

Mr. Harder reviewed questions to be answered with the analysis.

C. Approval of costs and work of Thomas Harder & Co for preparation of data in response to California Public Records Act Request

Recommendation: Approve the proposal from Thomas Harder & Co for preparation of data in response to California Public Records Act Request

Tom Harder explained the request for files from the City of Beaumont related to an analysis of San Timoteo Creek and discharges from the wastewater treatment plant. Thomas Harder & Co. would be happy to provide the data, but Mr. Harder stated that the model is not set up to do what the City is asking, and changes would be needed. It would take some

time to pull those files together. The cost estimate for that work is $1,300, which is consistent with the previous data request.

Member Jaggers moved approval of the request. Second by Member Vestal.

Member Zoba expressed concern that the request is for data that does not apply to the City's likely questions and is outside of the Basin. He also pointed to the implication that the Watermaster blesses whatever analysis is done as it relied on BBWM data, when this is outside the study area. He asked about legal protection of the BBWM and suggested the data was exempt from the PRA as it could be considered in draft form.

Member Jaggers suggested a disclaimer from legal counsel may be an additional caveat about the study area.

Counsel Montoya advised limiting documents to those responsive to the request. If the City is asking for something outside of BBWM jurisdiction, there is no obligation to provide it.

Mr. Montoya indicated he was not comfortable producing records of data outside the Basin and will review the response. Documents in draft format are not public records, Montoya advised, and Mr. Harder said it would be final when the BBWM approves the final report.

Vice Chair Armstrong called the question and Member Jaggers amended his motion to include review by legal counsel.

It was moved by Member Jaggers and seconded by Member Vestal to approve the proposal from Thomas Harder & Co. for preparation of data in response to California Public Records Act Request.

AYES:	Armstrong, Jaggers, Vestal
NOES:	Zoba
ABSTAIN:	None
ABSENT:	Vela
STATUS:	Motion Approved 3-1-0

D. Discussion on Proposed Revisions to Rules & Regulations
Recommendation: No recommendation

Mr. Stuart presented proposed modifications to the Rules and Regulations.

- *Adjustment of overlying water rights as a result of a redetermination of the safe yield, and further adjustment if the overlier transfers a water right to an appropriator*

- *Time for creating a table that summarizes the readjusted overlying water rights due to the redetermination of the safe yield after a 45-day review period, and a 30-day period for the Committee to respond*
- *Negative storage account – should a storage party encounter a negative storage account and what that means for basin management and effect*
- *Accounting for Basin losses*

Mr. Stuart cautioned the Committee to consider the impact of the revisions on management of the basin. These will be addressed in further public meetings.

Mr. Stuart presented a table summarizing overlying water rights and transfers to appropriators. Mr. Jaggers clarified that the Oak Valley Partners transfer appears in the footnotes to the table.

VIII. Topics for Future Meetings

Vice Chair Armstrong suggested reviewing these items at the next meeting when Chair Vela is present.

	Item	Date Listed
A	Development of a Recycled Water Policy	3/27/2019
B	Development of a return flow accounting policy	3/27/2019
C	Development of a methodology and policy to account for groundwater storage losses in the basin / groundwater management	3/27/2019
D	Procurement Policy including thresholds for RFP process	8/17/2021
E	Incidental discharge	10/6/2021
F	Monitoring of future west side well sites and methodologies, and potential collaboration with USGS	10/5/2022
G	Discussion on what to do when an Appropriator goes negative	10/4/2023 and 11/1/2023
H	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

IX. Comments from the Watermaster Committee Members: None.

X. Announcements

2024

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

2025

Wednesday, January 15 at 11 a.m.	Special Meeting
Wednesday, February 5 at 11 a.m.	Regular Meeting
Wednesday, March 5 at 11 a.m.	Special Meeting

XI. Adjournment

Vice Chair Armstrong adjourned the meeting at 11:46 a.m.

Attest:

Daniel Jaggers, Secretary
Beaumont Basin Watermaster

Record of the Minutes of the
Beaumont Basin Committee Meeting of the
Beaumont Basin Watermaster
Regular Meeting
Wednesday, December 4, 2024

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

City of Banning	*Art Vela*	*Present*
City of Beaumont	*Robert Vestal*	*Present*
Beaumont-Cherry Valley Water District	*Dan Jaggers*	*Present*
South Mesa Water Company	*David Armstrong*	*Present*
Yucaipa Valley Water District	*Joseph Zoba*	*Present*

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:
Brittany Lim, South Mesa Water Company
Allison Edmisten, Yucaipa Valley Water District
Erin Anton, Yucaipa Valley Water District
Jennifer Ares, Yucaipa Valley Water District
Micha Knox, Yucaipa Valley Water District
Joyce McIntire, Yucaipa Valley Water District
Brett Granlund, Yucaipa Valley Water District
Ron Duncan, San Gorgonio Pass Water Agency
Matt Ford, Thomas Harder & Co.
Mark Swanson, Beaumont-Cherry Valley Water District
Carmen Healey, Thomas Harder & Co.
Robert Rasha, Beaumont-Cherry Valley Water District
Lynda Kerney, Beaumont-Cherry Valley Water District

III. Pledge of Allegiance

IV. Public Comments: None.

V. Consent Calendar

A. Meeting Minutes
   a. September 4, 2024 Special Meeting
   b. October 2, 2024 Regular Meeting

B. Status Report on Water Level Monitoring throughout the Beaumont Basin through November 18, 2024

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

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

AYES:	Armstrong, Jaggers, 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 that the well probe at Banning M8 is not recording properly. He will visit the site after the meeting.

B. Report from Hydrogeological Consultant – Thomas Harder, Thomas Harder & Co. (TH&Co)
Mr. Harder reminded that the Water Year began in October 2024. TH&Co has begun looking at groundwater levels and storage change for the required submittals to the Department of Water Resources in April. Storage numbers will be presented at the February meeting to finalize the submittal.

C. Report from Administrative Consultant – Steve Stuart, Dudek – *Meeting videos going back to June are now available on the BBWM website.*

D. Report from Legal Counsel – Thierry Montoya – Frost, Brown, Todd
Counsel Montoya reported on response to a Public Records Act request from the City of Beaumont. He advised that the data produced by TH&Co was for the exclusive use of the BBWM and is based on the Basin's unique characteristics. Therefore, he had prepared a hold harmless agreement so the City of Beaumont would indemnify and hold harmless the BBWM and Mr. Harder as to any claim that the data fails to confirm or support whatever use Beaumont seeks to apply.

Mr. Montoya also reported that he and Steve Stuart examined and modified the draft resolution language applicable to the safe yield determination in terms of when the resolution would become effective, legally and to clarify that safe yield adjustments would be applied, not retroactively, but going forward over the next 10-year, safe calculation.

VII. Discussion Items

A. Consideration of Thomas Harder & Co. Proposal to Investigate Basin Losses from the Beaumont Basin

Recommendation: Approve the Scope of Work as submitted by Thomas Harder & Co. and expenditure not to exceed $64,380

Tom Harder of Thomas Harder & Co. reminded the Committee of past discussion and direction on the item. Member Jaggers pointed out a written public comment received from the San Gorgonio Pass Water Agency (SGPWA) (handout). Mr. Harder assured that Task no. 2 in the Proposal is to coordinate with the SGPWA and he saw no reason to hold it up; the concerns will be addressed as part of the process.

Member Jaggers pointed out the identification of pre-overdraft, post overdraft, and supplemental recharge, along with outflows to the east which can be addressed during the process.

It was moved by Member Zoba and seconded by Member Jaggers to approve the Scope of Work as submitted by Thomas Harder & Co. and expenditure not to exceed $64,380.

AYES:	Armstrong, Jaggers, 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

Recommendation: For information purposes only

Tom Harder noted the earlier report from Legal Counsel Montoya (Item VI-D) and stated the indemnification letter has been sent to the City of Beaumont for signature. The files are compiled and as soon as it is signed, they will be released.

C. Consideration to Retain Dudek to Provide Professional Administrative and Technical Support Services to the Beaumont Basin Watermaster in Calendar Year 2025

Recommendation: Extend the contract with Dudek for Professional Administrative and Technical Support Services for the 2025 calendar year

Steve Stuart of Dudek presented the proposal for calendar year 2025. This will be the third year of the contract. Chair Vela indicated that the Committee has accomplished more, and the work is appreciated.

It was moved by Member Jaggers and seconded by Member Zoba to approve the extension of the contract with Dudek for Professional Administrative and Technical Support Services for the 2025 calendar year.

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

D. Task Order No. 8: Thomas Harder & Co. Proposal for 2025 Engineering Services and Preparation of the 2024 Annual Report

Recommendation: Approve Task Order No. 8 in an amount not to exceed $101,930

Mr. Harder presented the proposal for the work for next year to prepare the annual report in conjunction with ALDA. The cost estimate is slightly higher, he explained: the meeting budget was increased due to needed preparation time. Chair Vela noted this amounts to an invoice to each Watermaster member of about $20,386.

It was moved by Member Jaggers and seconded by Member Zoba to Approve Task Order No. 8 in an amount not to exceed $101,930 for 2025 engineering services and preparation of the 2024 Annual Report.

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

E. Adoption of Resolution 2024-01 Adopting the Final 2023 Reevaluation of the Beaumont Basin Safe Yield Report and Redetermination of the Safe Yield of the Beaumont Basin, and Authorization for Submittal to the Court

Recommendation: Adopt Resolution 2024-01 as presented and authorize BBWM legal counsel to submit the Report to the Riverside County Superior Court

Mr. Harder indicated the final safe yield reset report is in the agenda packet and was posted on the website. He pointed out the only change being revision of Appendix D, the table of the allocation of the safe yield to overliers.

Member Jaggers commented that he reviewed the safe yield and found the graphics and projections of well levels to be interesting and supportive of the Watermaster's management of the Basin. He noted that overall, the Basin appears to be reasonably stable over the last few decades compared to other districts he has seen. Jaggers expressed appreciation for the work done and said it reflects well on the historical and future management of the basin.

It was moved by Member Jaggers and seconded by Member Zoba to Adopt Resolution 2024-01 as presented and authorize BBWM legal counsel to submit the Report to the Riverside County Superior Court.

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

The Committee heard comments by Mr. Blandon and discussed the possibility of revising the effective date of the Safe Yield. Mr. Montoya confirmed that the Committee had decided it would be effective 2024 moving forward, not retroactive, and advised that was the right decision. The Committee reviewed the 4th "whereas" in the resolution and Mr. Stuart noted the judgment requires only reevaluation of the safe yield every 10 years, and it is now effective today and scheduled to be revaluated in 2033. The 2023 Annual Report does not need to be revised.

VIII. Topics for Future Meetings

Steve Stuart noted that items A – E were slated to be tackled in the first six months of 2025. Member Zoba suggested open discussion at the next meeting

of items that are or are not moving forward, and whether the committee wants to proceed.

	Item	Date Listed
A	Development of a Recycled Water Policy	3/27/2019
B	Development of a return flow accounting policy	3/27/2019
~~C~~	~~Development of a methodology and policy to account for groundwater storage losses in the basin / groundwater management~~	3/27/2019 (now in progress)
D	Procurement Policy including thresholds for RFP process	8/17/2021
E	Incidental discharge	10/6/2021
F	Monitoring of future west side well sites and methodologies, and potential collaboration with USGS	10/5/2022
G	Discussion on what to do when an Appropriator goes negative	10/4/2023 and 11/1/2023
H	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

IX. Comments from the Watermaster Committee Members:

Chair Vela reported that the City of Banning had hired a new Deputy Water – Wastewater Director and he would likely submit a request to replace the City's alternate (currently Nathan Smith).

X. Announcements

2025

Wednesday, January 15 at 11 a.m.	Special Meeting
Wednesday, February 5 at 11 a.m.	Regular Meeting
Wednesday, March 5 at 11 a.m.	Special Meeting

XI. Adjournment

Chair Vela adjourned the meeting at 11:30 a.m.

Attest:

Daniel Jaggers, Secretary
Beaumont Basin Watermaster

Appendix C

Active and Interested Party List

Beaumont Basin - 2024 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 Jaggers, General Manager
560 Magnolia Avenue
Beaumont, CA 92223
dan.jaggers@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 Gorgonio 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
Riversice, CA 92501

Niki Magee
38455 Vineland Street
Cherry Valley, CA 92223

Beaumont Basin - 2024 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 D

Fiscal Year 2023-24 Audit Letter

Rogers, Anderson, Malody & Scott, LLP
735 E. Carnegie Drive, Suite 100
San Bernardino, CA 92408

We are providing this letter in connection with your agreed-upon procedures to the Beaumont Basin Watermaster's (the Watermaster) solely to assist the Yucaipa Valley Water District (the District) and the Watermaster in evaluating certain amounts reported in the Watermaster Schedules (Schedules) 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 for the same period.

We confirm, to the best of our knowledge and belief, as of August 7, 2024, the following representations made to you during your engagement:

1. The District, the Watermaster, and its member agencies are responsible for complying with the Rules and Regulations and the Judgment Pursuant to Stipulation Adjudicating Groundwater Rights in the Beaumont Basin. We are also responsible for the amounts recorded as assessments and expenses of the Watermaster.

2. We are responsible for establishing and maintaining effective internal controls over the requirements of the Rules and Regulations and Judgment Pursuant to Stipulation Adjudicating Groundwater Rights in the Beaumont Basin.

3. We have performed an evaluation of the Watermaster's compliance with the Rules and Regulations and the Judgment Pursuant to Stipulation Adjudicating Groundwater Rights in the Beaumont Basin. Based on our evaluation, we have complied with the Rules and Regulations and the Judgment Pursuant to Stipulation Adjudicating Groundwater Rights in the Beaumont Basin.

4. We have agreed to the procedures performed which were provided to us in your letter dated July 10, 2024 and agree they are appropriate for their purpose.

5. We have disclosed to you all known noncompliance, if applicable, with the Rules and Regulations and the Judgment Pursuant to Stipulation Adjudicating Groundwater Rights in the Beaumont Basin.

6. We have provided you with access to all relevant information and access, as applicable, that we believe are relevant to the compliance with the Rules and Regulations and the Judgment Pursuant to Stipulation Adjudicating Groundwater Rights in the Beaumont Basin.

7. There have been no matters contradicting any information provided or communications from regulatory agencies, internal or external auditors, or other independent accountants or consultants regarding possible noncompliance with the Rules and Regulations and the Judgment Pursuant to Stipulation Adjudicating Groundwater Rights in the Beaumont Basin including communications received between July 1, 2023 and August 7, 2024.

8. We have responded fully to all inquiries made to us by you during the engagement.

9. We are not aware of any material misstatements in either of the schedules.

10. Your report is solely for the information and use of the Beaumont Basin Watermaster and its members and is not intended to be and should not be used by anyone other than those specified parties.

11. We understand that your agreed-upon procedures engagement was conducted in accordance with attestation standards established by the American Institute of Certified Public Accountants and was designed for the purpose of reporting your findings in regards to the subject matter described above, and that your procedures were limited to those that you considered necessary for that purpose.

12. No material events have occurred subsequent to August 7, 2024 that would require adjustment to or modification of our report issued.

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

735 E. Carnegie Dr. Suite 100
San Bernardino, CA 92408
909 889 0871 T
909 889 5361 F
ramscpa.net

PARTNERS
Scott W. Manno, CPA, CGMA
Leena Shanbhag, CPA, MST, CGMA
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)

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 McKennan, CPA
Monica Wysocki, CPA

MEMBERS
American Institute of Certified Public Accountants
PCPS The AICPA Alliance for CPA Firms
Governmental Audit Quality Center
California Society of Certified Public Accountants

Proud Member of AlliottGlobalAlliance™

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.

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.

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	$ 60,024
Total assets	60,024
Liabilities	
Accounts payable	-
Net position	
Unrestricted	$ 60,024

Exhibit B

Beaumont Basin Watermaster
Schedule of Revenues and Expenses
(Unaudited)
For the year ended June 30, 2024

Revenues	
Assessments	$ 197,665
Interest	65
Total revenues	197,730
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	19
Total expenses	462,303
Change in net position	(264,573)
Unrestricted net position, beginning of year	324,597
Unrestricted net position, end of year	$ 60,024

Appendix E

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

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

Year	Total Use
2011	12.67
2012	13.07
2013	12.91
2014	13.28
2015	12.84
2016	12.71
2017	12.28

Year	Total Use
2018	12.64
2019	12.46
2020	12.94
2021	12.86
2022	13.18
2023	12.34
2024	12.43

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

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

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

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

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

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

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

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

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

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

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

Appendix F

Supporting Documentation Provided by YVWD on February 11, 2025 as part of the Transfer of Overlying Rights from OVP to YVWD for CY 2024

Yucaipa Valley Water District
12770 Second Street • Post Office Box 730 • Yucaipa, California 92399-0730
(909) 797-5117 • Fax: (909) 797-6381 • www.yvwd.us

February 11, 2025

Beaumont Basin Watermaster
c/o Dan Jaggers, Secretary
560 Magnolia Avenue
Beaumont, California 92223

Transmitted via Email

Subject: **Notice to Adjust Rights of an Overlying Party Due to Water Service by an Appropriator for Calendar Year 2024**

Dear Mr. Jaggers:

On November 20, 2019, the Yucaipa Valley Water District transmitted the executed Beaumont Basin Watermaster Form 5 – *Notice to Adjust Rights of an Overlying Party Due to Proposed Provision of Water Service* by an Appropriator for the Oak Valley Partners (attached). Since this time, the Watermaster Committee effectuated the permanent transfer of 478.25 acre feet of the 1,482.35 acre feet of Overlying Water Rights from the Oak Valley Partners.

The Yucaipa Valley Water District has performed the required data acquisition and analysis and has determined that the permanent aggregated transfer of 478.25 acre feet (155,837 kgal) of Overlying Water Rights from the Oak Valley Development Company / Oak Valley Partners to Yucaipa Valley Water should remain unchanged for Calendar Year 2024.

Accordingly, (1) the aggregated transfer of Overlying Water Rights should continue to be reduced from the Overlying Water Rights of Oak Valley Partners in the Judgment, Exhibit B (and future subsequent redeterminations of the safe yield), (2) the aggregated transferred amount should be credited to Yucaipa Valley Water District as an Appropriative/Overlying Water Right, and (3) the remaining quantity of Overlying Water Rights from the Oak Valley Development Company / Oak Valley Partners adjusted pursuant to the latest redetermination of safe yield to reflect a remaining balance of 1,004.1 acre feet of water rights clearly earmarked to Yucaipa Valley Water District.

Should you have any questions, please contact me directly at (909) 797-5119 x2.

Sincerely,

Joseph B. Zoba
General Manager

Attachments

Greg Bogh Division 1 | **Nyles O'Harra** Division 2 | **Jay Bogh** Division 3 | **Brett Granlund** Division 4 | **Joyce McIntire** Division 5

Summary of Water Rights Transferred

Oak Valley Development Company / Oak Valley Partners

Calendar Year	Overlying Water Rights per Safe Yield Determination (acre feet) Oak Valley Partners	Aggregated Water Rights Transferred to Yucaipa Valley Water District from Oak Valley Partners (acre feet)	Remaining Overlying Water Rights Earmarked for Transfer from Oak Valley Partners to Yucaipa Valley Water District (acre feet)
2018	1,398.9	0.11	1,398.79
2019	1,398.9	63.96	1,334.94
2020	1,398.9	194.82	1,204.08
2021	1,398.9	366.77	1,032.13
2022	1,398.9	478.25	920.65
2023	1,398.9	478.25	920.65
2024	1,482.35	478.25	1,004.10

Yucaipa Valley Water District

12770 Second Street • Post Office Box 730 • Yucaipa, California 92399-0730
(909) 797-5117 • Fax: (909) 797-6381 • www.yvwd.dst.ca.us

November 20, 2019

Mr. Dan Jaggers, Secretary
Beaumont Basin Watermaster
c/o Beaumont Cherry Valley Water District
560 Magnolia Avenue
Beaumont, California 92223

Subject: Transmittal of Executed Beaumont Basin Watermaster Form 5 - *Notice to Adjust Rights of an Overlying Party Due to Proposed Provision of Water Service by an Appropriator*

Dear Mr. Jaggers:

On November 19, 2019, the Yucaipa Valley Water Board of Directors authorized the execution and acceptance of Beaumont Basin Watermaster Form 5 related to the transfer of overlying water rights from Oak Valley Development Company / Oak Valley Partners to the Yucaipa Valley Water District. This form provides that the original 1,806 acre feet, now the revised 1,398.90 acre feet of overlying water rights based on the redetermination of safe yield, is transferred to the Yucaipa Valley Water District. The Parties to Form 5 recognize that the transferred overlying water rights will be adjusted for Yucaipa Valley Water District in the future each time the redetermination of safe yield is calculated.

A copy of the fully executed Beaumont Basin Watermaster Form 5 *Notice to Adjust Rights of an Overlying Party Due to Proposed Provision of Water Service by an Appropriator* is attached. Please file this document as part of the permanent records of the Beaumont Basin Watermaster.

Thank you.

Sincerely,

Joseph B. Zoba
General Manager

attachment

Copies to:
- Hannibal Blandon, Alda Engineering
- Thierry Montoya, Alvarado Smith

Chris Mann Division 1 | **Bruce Granlund** Division 2 | **Jay Bogh** Division 3 | **Lonni Granlund** Division 4 | **Joyce McIntire** Division 5

NOTICE TO ADJUST RIGHTS OF AN OVERLYING PARTY DUE TO PROPOSED PROVISION OF WATER SERVICE BY AN APPROPRIATOR

Please take notice that Yucaipa Valley Water District ("Appropriator") proposes to provide retail water service to Oak Valley Partners ("Overlying Owner") and that all original 1,806 / revised 1,398.90 acre feet ("Earmarked Water") of Overlying Water Rights will be transferred to the Appropriator when the Overlying Owner received water service on October 9, 2018.

Notice is hereby given that the Watermaster will reduce the Overlying Owner's Overlying Water Right(s) (as shown in Exhibit B, Column 4 of the Judgment and modified by the redetermination of safe yield) by the amount of Earmarked Water and adjust the Appropriative Water Rights of the Appropriator effective on the day when water service is first provided by the Appropriator.

OVERLYING OWNER

Oak Valley Development Company / Oak Valley Partners
Overlying Party

John Ohanian
Authorized Agent – Print Name

Director of Development
Title

Signature

11/18/2019
Date

Post Office Box 645

Calimesa, California 92320
Address for Notice

(909) 795-8941
Telephone

johanian@tvgllc.com
Email Address

APPROPRIATOR

Yucaipa Valley Water District
Appropriator Party

Joseph B. Zoba
Authorized Agent – Print Name

General Manager
Title

Signature

Nov. 9, 2019
Date

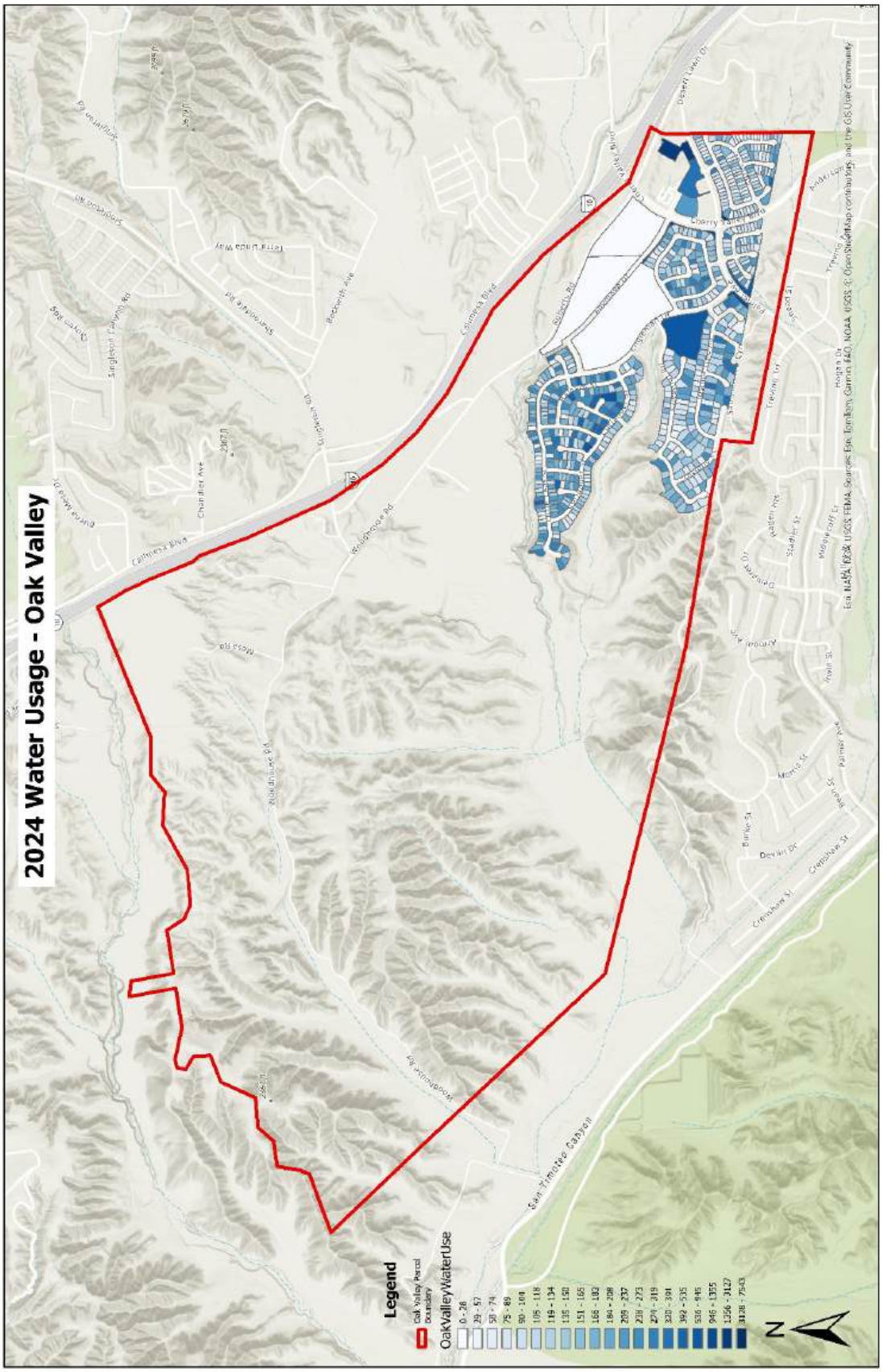
Post Office Box 730

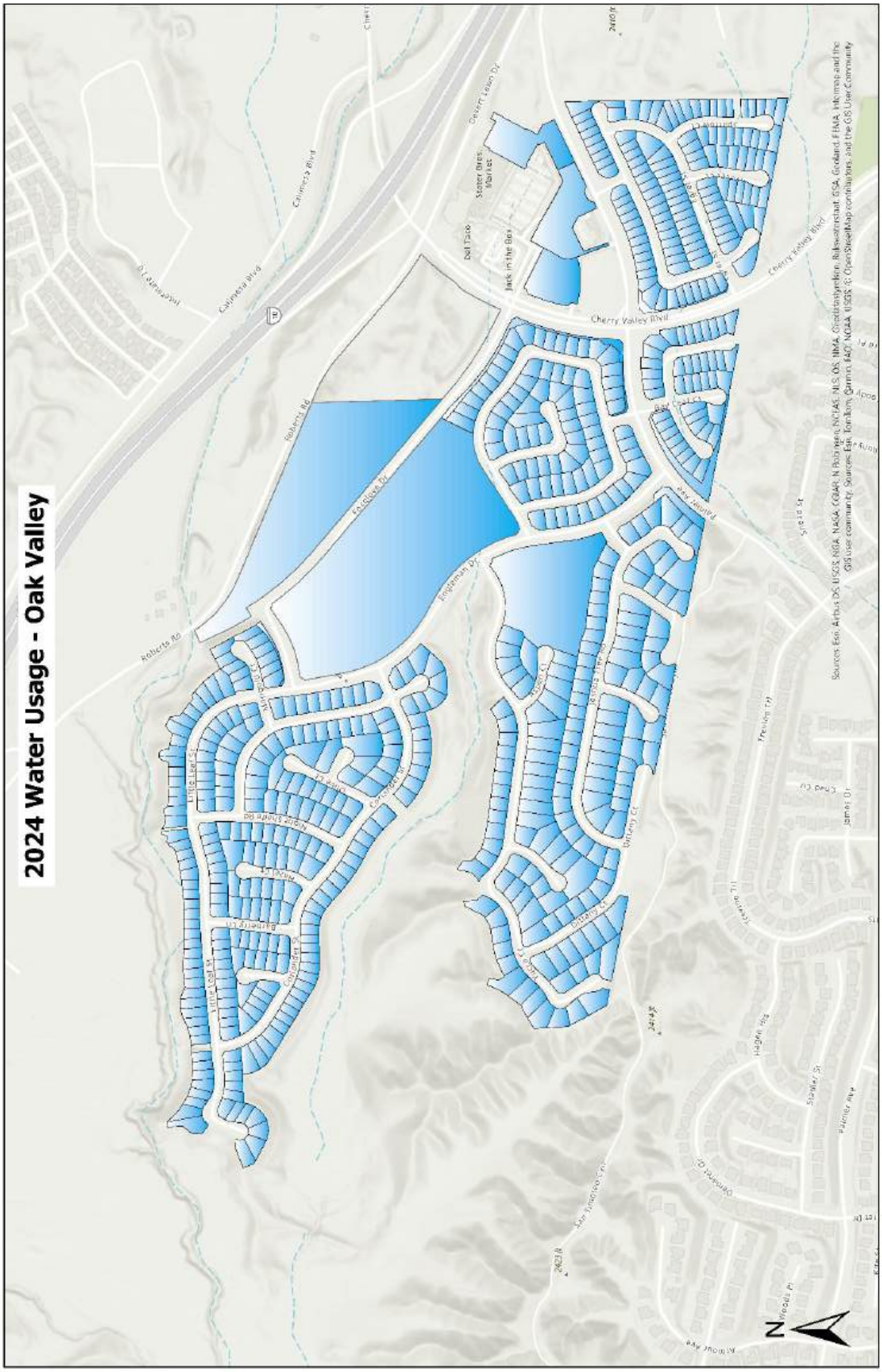
Yucaipa, California 92399
Address for Notice

(909) 797-5119 x2
Telephone

jzoba@yvwd.us
Email Address

For Watermaster Use
Date Form is Received:
Date Earmarked Water is First Used:


2024 Water Usage - Oak Valley
Legend
Oak Valley Parcel Boundary
OakValleyWaterUse
0 - 28
29 - 57
58 - 74
75 - 89
90 - 104
105 - 118
119 - 134
135 - 150
151 - 165
166 - 183
184 - 208
209 - 232
233 - 273
274 - 319
320 - 391
392 - 535
536 - 945
946 - 1355
1356 - 2127
2128 - 7543
N
Cherry Valley Blvd
Oak Valley Pkwy
Roberts Rd
Singleton Rd
Chandler Ave
Wildflower Way
Wildflower Rd
Meadowlark Rd
Woodhaven Rd
Sandalwood Dr
Sunset Ave
Hoagan Dr
Trevino Ln
Stadler St
Middle Creek Dr
Dewitt Dr
Crenshaw St
Palmer Ave
Morrill St
Burke St
Avenue 4
Avenue 6
Avenue 8
San Timoteo Canyon
Esri, NASA, NGA, USGS, FEMA, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and the GIS User Community


2024 Water Usage - Oak Valley
Cherry Valley Blvd
Calimesa Blvd
Roberts Rd
Singleton Rd
Stater Bros. Market
Jack in the Box
Del Taco
N

Assessor's Parcel Number	Assessor's Parcel Number in Exhibit D of Judgment	Water Served in Calendar Year 2024 (kgal)
407370001	413290061	66
407370002	413290061	114
407370003	413290061	328
407370004	413290061	148
407370005	413290061	103
407370006	413290061	170
407370007	413290061	85
407370008	413290061	332
407370009	413290061	148
407370010	413290061	234
407370011	413290061	132
407370012	413290061	109
407370014	413290072	287
407370015	413290072	155
407370016	413290072	168
407370017	413290072	56
407370018	413290072	77
407370019	413290072	1,355
407370020	413290071	93
407370021	413290071	166
407370022	413290071	332
407370023	413290071	332
407370024	413290071	209
407370025	413290071	241
407371001	413290061	145
407371002	413290061	119
407371003	413290061	144
407371004	413290061	123
407371005	413290061	145
407371006	413290061	94
407371007	413290061	216
407371008	413290061	104
407380001	413290061	116
407380002	413290061	160
407380003	413290061	234
407380004	413290061	240
407380005	413290061	141
407380006	413290061	370
407380007	413290061	144
407380008	413290061	167
407380009	413290061	73
407380010	413290061	309
407380011	413290061	159
407380012	413290061	197
407380013	413290061	112
407380014	413290061	128
407380015	413290061	80
407380016	413290061	72
407380017	413290061	107
407380018	413290061	61
407380019	413290061	191
407380020	413290071	128
407380021	413290071	168
407380022	413290071	330
407381001	413290061	182
407381002	413290061	121
407381003	413290061	140
407381004	413290061	153

Assessor's Parcel Number	Assessor's Parcel Number in Exhibit D of Judgment	Water Served in Calendar Year 2024 (kgal)
407381005	413290061	93
407381006	413290061	174
407381007	413290061	175
407381008	413290061	74
407381009	413290061	78
407381010	413290061	110
407381011	413290061	70
407381012	413290061	125
407381013	413290061	62
407381014	413290061	84
407381015	413290061	52
407381016	413290061	99
407381017	413290061	175
407390001	413290061	171
407390002	413290061	165
407390003	413290061	110
407390004	413290061	70
407390005	413290061	84
407390006	413290061	111
407390007	413290061	158
407390008	413290061	172
407390009	413290061	72
407390010	413290061	205
407390011	413290061	16
407390012	413290061	79
407390013	413290061	88
407390014	413290061	169
407390015	413290061	144
407390016	413290061	156
407390017	413290061	191
407390018	413290061	161
407390019	413290061	175
407390020	413290061	194
407390021	413290061	126
407390022	413290061	243
407390023	413290061	273
407391001	413290061	40
407391002	413290061	106
407391003	413290061	203
407391004	413290061	137
407391005	413290061	109
407391006	413290061	143
407391007	413290061	130
407391008	413290061	56
407391009	413290061	73
407391010	413290061	153
407391011	413290061	66
407391012	413290061	228
407391013	413290061	115
407391014	413290061	132
407391015	413290061	70
407391016	413290061	93
407391017	413290061	146
407391018	413290061	72
407391019	413290061	262
407391020	413290061	132
407400001	413290061	137
407400002	413290061	88

Assessor's Parcel Number	Assessor's Parcel Number in Exhibit D of Judgment	Water Served in Calendar Year 2024 (kgal)
407400003	413290061	117
407400004	413290061	70
407400005	413290061	22
407400006	413290061	89
407400007	413290061	124
407400008	413290061	166
407400009	413290061	90
407400010	413290061	155
407400011	413290061	72
407400012	413290061	85
407400013	413290061	121
407401001	413290061	74
407401002	413290061	90
407401003	413290061	110
407401004	413290061	52
407401005	413290061	108
407401006	413290061	200
407402001	413290061	96
407402002	413290061	112
407402003	413290061	193
407402004	413290061	268
407402005	413290061	89
407402006	413290061	226
407402007	413290061	206
407402008	413290061	68
407402009	413290061	82
407402010	413290061	81
407402011	413290061	126
407402012	413290061	94
407402013	413290061	57
413290044	407230014, 413290039	0
413290048	413290033	1,124
413290048	413290033	0
413290062	413290036, 413290037, 413290054, 413290055, 413460038	885
413290062	413290036, 413290037, 413290054, 413290055, 413460038	5,568
413290064	413290036, 413290037, 413290054, 413290055, 413460038	0
413290064	413290036, 413290037, 413290054, 413290055, 413460038	945
413290064	413290036, 413290037, 413290054, 413290055, 413460038	1,302
413290064	413290036, 413290037, 413290054, 413290055, 413460038	7,543
413780012	413780010	3,127
413780012	413780010	351
413780014	413780010	1,231
413780014	413780010	2,361
413780014	413780010	348
413780014	413780010	354
413780014	413780010	0

Assessor's Parcel Number	Assessor's Parcel Number in Exhibit D of Judgment	Water Served in Calendar Year 2024 (kgal)
413780016	413780010	2,394
413780016	413780010	318
413780016	413780010	323
413780016	413780010	230
413780016	413780010	111
413780016	413780010	812
413900001	413290057	535
413900002	413290057	188
413900003	413290057	57
413900004	413290057	188
413900005	413290057	118
413900006	413290057	118
413900007	413290057	109
413900008	413290057	43
413900009	413290057	146
413900010	413290057	96
413900011	413290057	155
413900012	413290057	199
413900013	413290057	86
413900014	413290057	45
413900015	413290057	170
413900016	413290057	97
413900017	413290057	58
413900018	413290057	166
413900019	413290057	194
413901001	413290057	288
413901002	413290057	89
413901003	413290057	101
413901004	413290057	66
413901005	413290057	49
413901006	413290057	90
413901007	413290057	54
413901008	413290057	112
413901009	413290057	117
413901010	413290057	41
413901011	413290057	107
413901012	413290057	99
413901013	413290057	192
413901014	413290057	56
413901015	413290057	91
413901016	413290057	132
413901017	413290057	55
413901018	413290057	114
413901019	413290057	41
413901020	413290057	101
413901021	413290057	143
413901022	413290057	2,150
413902001	413290057	42
413902002	413290057	149
413902003	413290057	73
413902004	413290057	45
413902005	413290057	120
413902006	413290057	62
413902007	413290057	161
413902008	413290057	62
413902009	413290057	130
413902010	413290057	71
413902011	413290057	115

Assessor's Parcel Number	Assessor's Parcel Number in Exhibit D of Judgment	Water Served in Calendar Year 2024 (kgal)
413902012	413290057	153
413902013	413290057	146
413902014	413290057	94
413902015	413290057	157
413902016	413290057	61
413902017	413290057	89
413902018	413290057	43
413902019	413290057	72
413902020	413290057	71
413902021	413290057	130
413902022	413290057	64
413902023	413290057	118
413902024	413290057	110
413902025	413290057	146
413910001	413290057	249
413910002	413290057	173
413910003	413290057	83
413910004	413290057	101
413910005	413290057	52
413910006	413290057	121
413910007	413290057	201
413910008	413290057	123
413910009	413290057	74
413910010	413290057	100
413910011	413290057	165
413910012	413290057	207
413910013	413290057	124
413910014	413290057	103
413910015	413290057	58
413910016	413290057	86
413910017	413290057	18
413910018	413290057	142
413910019	413290057	192
413910020	413290057	192
413910021	413290057	125
413910022	413290057	130
413910023	413290057	180
413910024	413290057	106
413910025	413290057	93
413910026	413290057	59
413910027	413290057	69
413910028	413290057	18
413910029	413290057	85
413910030	413290057	75
413910031	413290057	23
413910032	413290057	57
413910033	413290057	70
413910034	413290057	73
413910035	413290057	158
413910036	413290057	122
413910037	413290057	194
413910038	413290057	95
413910039	413290057	87
413910040	413290057	182
413910041	413290057	101
413910042	413290057	99
413910043	413290057	104
413910044	413290057	47

Assessor's Parcel Number	Assessor's Parcel Number in Exhibit D of Judgment	Water Served in Calendar Year 2024 (kgal)
413910045	413290057	82
413910046	413290057	52
413910047	413290057	128
413910048	413290057	268
413911001	413290057	64
413911002	413290057	59
413911003	413290057	158
413911004	413290057	137
413911005	413290057	104
413911006	413290057	43
413911007	413290057	246
413911008	413290057	97
413920001	413290058	179
413920002	413290058	134
413920003	413290058	103
413920004	413290058	86
413920005	413290058	303
413920006	413290058	122
413920007	413290058	55
413920008	413290058	62
413920009	413290058	78
413920010	413290058	84
413920011	413290058	98
413920012	413290058	64
413920013	413290058	123
413920014	413290058	160
413920015	413290058	97
413920016	413290058	263
413920017	413290058	104
413920018	413290058	171
413920019	413290058	63
413920020	413290058	49
413920021	413290058	170
413920022	413290058	127
413920023	413290058	58
413920024	413290058	114
413920025	413290058	132
413920026	413290058	96
413920027	413290058	69
413920028	413290058	214
413920029	413290058	140
413920030	413290058	74
413920031	413290058	228
413920032	413290058	68
413920033	413290058	93
413920034	413290058	86
413920035	413290058	195
413920036	413290058	64
413920037	413290058	264
413920038	413290058	86
413920039	413290058	161
413920040	413290058	60
413920041	413290058	36
413920042	413290058	736
413930001	413290065	122
413930002	413290065	51
413930003	413290065	158
413930004	413290065	197

Assessor's Parcel Number	Assessor's Parcel Number in Exhibit D of Judgment	Water Served in Calendar Year 2024 (kgal)
413930005	413290065	121
413930006	413290065	129
413930007	413290065	199
413930008	413290065	188
413930009	413290065	199
413930010	413290065	124
413930011	413290065	131
413930012	413290065	66
413930013	413290065	77
413930014	413290065	99
413930015	413290065	179
413931001	413290065	216
413931002	413290065	303
413931003	413290065	140
413931004	413290065	187
413931005	413290065	319
413931006	413290065	125
413931007	413290065	281
413931008	413290065	259
413931009	413290065	114
413932001	413290065	239
413932002	413290065	426
413932003	413290065	129
413932004	413290065	211
413932005	413290065	287
413932006	413290065	182
413932007	413290065	251
413932008	413290065	428
413932009	413290065	249
413933001	413290065	337
413933002	413290065	136
413933003	413290065	225
413933004	413290065	211
413933005	413290065	432
413933006	413290065	305
413933007	413290065	349
413933008	413290065	287
413933009	413290065	221
413933010	413290065	680
413933011	413290065	419
413933012	413290065	254
413933013	413290065	169
413933014	413290065	180
413933015	413290065	125
413933016	413290065	98
413933017	413290065	280
413933018	413290065	265
413933019	413290065	185
413933020	413290065	333
413933021	413290065	405
413933022	413290065	430
413933023	413290065	190
413933024	413290065	183
413933025	413290065	457
413933026	413290065	147
413933027	413290065	96
413933028	413290065	183
413933029	413290065	48

Assessor's Parcel Number	Assessor's Parcel Number in Exhibit D of Judgment	Water Served in Calendar Year 2024 (kgal)
413933030	413290065	150
413933031	413290065	246
413933032	413290065	169
413933033	413290065	465
413933034	413290065	238
413933035	413290065	64
413933036	413290065	244
413933037	413290065	145
413933038	413290065	216
413933039	413290065	186
413933040	413290065	234
413933041	413290065	103
413940001	413290065	112
413940002	413290065	114
413940003	413290065	69
413940004	413290065	125
413940005	413290065	19
413940006	413290065	174
413940007	413290065	300
413940008	413290065	149
413940009	413290065	153
413941001	413290065	96
413941002	413290065	190
413941003	413290065	126
413941004	413290065	103
413941005	413290065	299
413941006	413290065	260
413941007	413290065	391
413941008	413290065	128
413941009	413290065	78
413941010	413290065	331
413941011	413290065	98
413941012	413290065	144
413941013	413290065	632
413941014	413290065	363
413941015	413290065	79
413941016	413290065	286
413941017	413290065	175
413941018	413290065	354
413941019	413290065	78
413941020	413290065	152
413941021	413290065	28
413941022	413290065	138
413941023	413290065	307
413950001	413290066	144
413950002	413290066	68
413950003	413290066	135
413950004	413290066	110
413950005	413290066	204
413950006	413290066	155
413950007	413290066	378
413950008	413290066	44
413950009	413290066	107
413950010	413290066	278
413950011	413290066	178
413950012	413290066	74
413950013	413290066	183
413950014	413290066	156

Assessor's Parcel Number	Assessor's Parcel Number in Exhibit D of Judgment	Water Served in Calendar Year 2024 (kgal)
413950015	413290066	107
413950016	413290066	40
413950017	413290066	168
413950018	413290066	243
413950019	413290066	146
413950020	413290066	79
413950021	413290066	167
413950022	413290066	223
413950023	413290066	159
413950024	413290066	171
413950025	413290066	263
413950026	413290066	140
413950027	413290066	14
413950028	413290066	243
413950029	413290066	151
413950030	413290066	388
413950031	413290066	51
413950032	413290066	235
413950033	413290066	77
413950034	413290066	187
413951001	413290066	70
413951002	413290066	319
413951003	413290066	310
413951004	413290066	70
413951005	413290066	126
413951006	413290066	218
413951007	413290066	166
413952001	413290066	166
413952002	413290066	108
413952003	413290066	100
413952004	413290066	147
413952005	413290066	124
413952006	413290066	97
413952007	413290066	185
413952008	413290066	61
413952009	413290066	251
413952010	413290066	255
413952011	413290066	181
413960001	413290066	43
413960002	413290066	84
413960003	413290066	121
413960004	413290066	166
413960005	413290066	189
413960006	413290066	235
413960007	413290066	86
413960008	413290066	140
413960009	413290066	85
413960010	413290066	142
413960011	413290066	243
413960012	413290066	408
413960013	413290066	230
413960014	413290066	144
413960015	413290066	53
413960016	413290066	36
413960017	413290066	259
413960018	413290066	98
413960019	413290066	190
413960020	413290066	271

Assessor's Parcel Number	Assessor's Parcel Number in Exhibit D of Judgment	Water Served in Calendar Year 2024 (kgal)
413960021	413290066	216
413960022	413290066	130
413960023	413290066	182
413960024	413290066	297
413960025	413290066	0
413961001	413290066	238
413961002	413290066	187
413961003	413290066	92
413961004	413290066	232
413961005	413290066	127
413961006	413290066	297
413961007	413290066	314
413961008	413290066	220
413961009	413290066	71
413961010	413290066	138
413961011	413290066	206
413961012	413290066	109
413961013	413290066	172
413961014	413290066	47
413961015	413290066	75
413961016	413290066	62
413961017	413290066	128
413961018	413290066	117
413961019	413290066	160
413961020	413290066	149
413961021	413290066	123
413961022	413290066	90
413961023	413290066	97
413961024	413290066	177
413961025	413290066	106
413961026	413290066	52
413961027	413290066	91
413961028	413290066	88
413961029	413290066	128
413961030	413290066	242
413962001	413290066	244
413962002	413290066	161
413962003	413290066	84
413962004	413290066	198
413962005	413290066	133
413962006	413290066	175
413962007	413290066	185
413962008	413290066	226
413963001	413290066	203
413963002	413290066	143
413963003	413290066	146
413963004	413290066	153
413963005	413290066	198
413963006	413290066	216
413963007	413290066	218
413963008	413290066	139
413963009	413290066	215
413963010	413290066	43
413963011	413290066	463
413963012	413290066	224
413963013	413290066	264
413963014	413290066	148
413963015	413290066	114

Assessor's Parcel Number	Assessor's Parcel Number in Exhibit D of Judgment	Water Served in Calendar Year 2024 (kgal)
413963016	413290066	209
413963017	413290066	271
413963018	413290066	193
413963019	413290066	142
413963020	413290066	185
413963021	413290066	201
413963022	413290066	218
413963023	413290066	125
413963024	413290066	137
413963025	413290066	189
413963026	413290066	101
413963027	413290066	228
413963028	413290066	198
413970001	413290063	142
413970002	413290063	185
413970003	413290063	63
413970004	413290063	78
413970005	413290063	173
413970006	413290063	70
413970007	413290063	76
413970008	413290063	32
413970009	413290063	135
413970010	413290063	96
413970011	413290063	125
413970012	413290063	304
413970013	413290063	84
413970014	413290063	127
413971001	413290063	201
413971002	413290063	252
413971003	413290063	198
413971004	413290063	145
413971005	413290063	128
413971006	413290063	243
413971007	413290063	276
413971008	413290063	237
413971009	413290063	339
413971010	413290063	160
413971011	413290063	197
413971012	413290063	54
413971013	413290063	208
413971014	413290063	280
413971015	413290063	216
413971016	413290063	102
413971017	413290063	121
413971018	413290063	219
413971019	413290063	369
413980001	413290063	173
413980002	413290063	138
413980003	413290063	168
413980004	413290051	212
413980005	413290051	79
413980006	413290051	204
413980007	413290051	282
413980008	413290051	206
413980009	413290051	217
413980010	413290051	71
413980011	413290063	182
413980012	413290063	60

Assessor's Parcel Number	Assessor's Parcel Number in Exhibit D of Judgment	Water Served in Calendar Year 2024 (kgal)
413980013	413290063	107
413980014	413290063	134
413980015	413290063	205
413980016	413290063	130
413980017	413290063	124
413980018	413290063	52
413980019	413290063	132
413980020	413290063	198
413980021	413290063	128
413980022	413290051	143
413980023	413290051	79
413980024	413290063	173
413980025	413290063	279
413980026	413290063	76
413981001	413290063	123
413981002	413290063	108
413981003	413290063	53
413981004	413290051	86
413981005	413290051	61
413981006	413290051	177
413981007	413290051	159
413981008	413290051	233
413981009	413290051	159
413981010	413290051	101
413981011	413290051	126
413981012	413290051	109
413981013	413290051	106
413981014	413290051	96
413981015	413290051	239
413981016	413290051	145
413981017	413290051	80
413981018	413290051	146
413981019	413290051	155
413981020	413290063	164
413981021	413290063	137
413981022	413290051	1,084
	Total Water Served (kgal)	**131,995**
	Total Water Served (acre feet)	**405.1**

RESOLUTION NO. 2017-02

A RESOLUTION OF THE BEAUMONT BASIN WATERMASTER APPROVING THE TRANSFER OF OVERLYING WATER RIGHTS TO SPECIFIC PARCELS

WHEREAS, the Stipulated Judgment establishing the Beaumont Basin Watermaster (Riverside Superior Court Case No. 389197) ("Adjudication") was filed with the Superior Count of California, County of Riverside on February 4, 2004; and

WHEREAS, Oak Valley Partners, L.P. ("OVP") was designated as holding Overlying Water Rights within the Adjudication, with an overall water amount of 1806 acre-feet/year spread over 5,331.65 acres under the then-specified Safe Yield of the basin as described in the Adjudication. As specified in the Adjudication, OVP's property consists of numerous assessor parcels that are identified within Exhibit D of the Adjudication ("OVP Adjudication Parcels"). Section III, 3(G) of the Adjudication outlines OVP's intended development of its property and specifies the process that OVP may utilize to arrange the transfer of its Overlying Water Rights to particular development parcels eventually to be serviced by one or more retail water service providers upon annexation; and

WHEREAS, OVP now desires to have its designated Overlying Water Rights acknowledged in the Adjudication assigned to the requisite Assessor Parcel Numbers within the Summerwind Ranch Specific Plan ("Project") that correlate to certain of the OVP Adjudication Parcels; and

WHEREAS, the OVP Adjudication Parcels listed on Exhibit D of the Adjudication that correlate to the Project parcels and which total 2409.02 acres include the following parcel numbers from Exhibit D:

- 413-040-002;
- 413-160-003 through 007;
- 413-170-020, 021, 023, 027 through 031, 033, and 035;
- 413-180-017 and 019;
- 413-190-001 and 011;
- 413-200-002, 010, 014, 015, 020, 023, 024, 026 through 030, and 034 through 037;
- 413-290-003 and 007;
- 413-460-038; and

WHEREAS, the Assessor Parcel Numbers for the Project parcels that correlate to the above-designated OVP Adjudication Parcels as contained in Exhibit D to the Adjudication are listed and specified in Exhibit 1 attached hereto; and

WHEREAS, OVP desires that Watermaster approve the transfer of all of OVP's Overlying Water Rights designated within the Adjudication to the Project parcels identified in Exhibit 1 attached hereto for the development of the Project by OVP and its successors and/or assigns; and

WHEREAS, OVP further intends to secure commitments from the Yucaipa Valley Water District to provide water service to development phases of the Project, and requests that when those commitments are made and water service is provided to the designated Project parcels that the Overlying Water Rights for those Project parcels be transferred to the Yucaipa Valley Water District ("YVWD") consistent with the Adjudication.

NOW, THEREFORE, BE IT RESOLVED BY THE BEAUMONT BASIN WATERMASTER as follows:

1. Transfer of Overlying Water Rights. Watermaster hereby approves the transfer of all of OVP's Overlying Water Rights to the Project parcels listed on Exhibit 1 attached hereto to provide for the development phases of the Project by OVP and its successors/assigns. OVP shall immediately inform Watermaster of any successor or assign who takes ownership of one or more Project parcels listed on Exhibit 1 to which Overlying Water Rights have been transferred. As of this time, the amount of water associated with the OVP Overlying Water Rights is consistent with the relationship between the redetermined safe yield (6700 acre-feet) and the original Safe Yield (8650 acre-feet), or in other words 77.5% of the original amount identified to OVP in Exhibit B to the Adjudication.

2. Transfer of Rights on Confirmed Water Service by YVWD. Once OVP and/or its successor(s) or assigns secures commitments from the Yucaipa Valley Water District to provide water service to the development phases of the Project, and when water service is provided to the designated Project parcels, then the overlying water rights for those Project parcels shall be transferred to YVWD. YVWD shall report to Watermaster when it has provided retail water service to various properties making up portions of the Project and Watermaster shall account for the same consistent with Section VI, 5. W. of the Adjudication.

3. Use of Wells. The existing and future wells on the Project parcels may be used to extract water for use on the Project parcels and/or any remaining OVP parcels, consistent with the Adjudication and current and future Watermaster rules, regulations and policies.

4. Further Documentation or Action. The Chief of Watermaster Services or Watermaster Engineer is hereby authorized and directed to execute such further documents and instruments, and take such further action, as shall be reasonably required to carry out the purposes and intent of this resolution.

5. Effective Date. The effective date of this resolution is August 30, 2017.

PASSED AND ADOPTED by the Beaumont Basin Watermaster this 30th day of August 2017.

BEAUMONT BASIN WATERMASTER

By: _____

Art Vela, Chairman of the
Beaumont Basin Watermaster

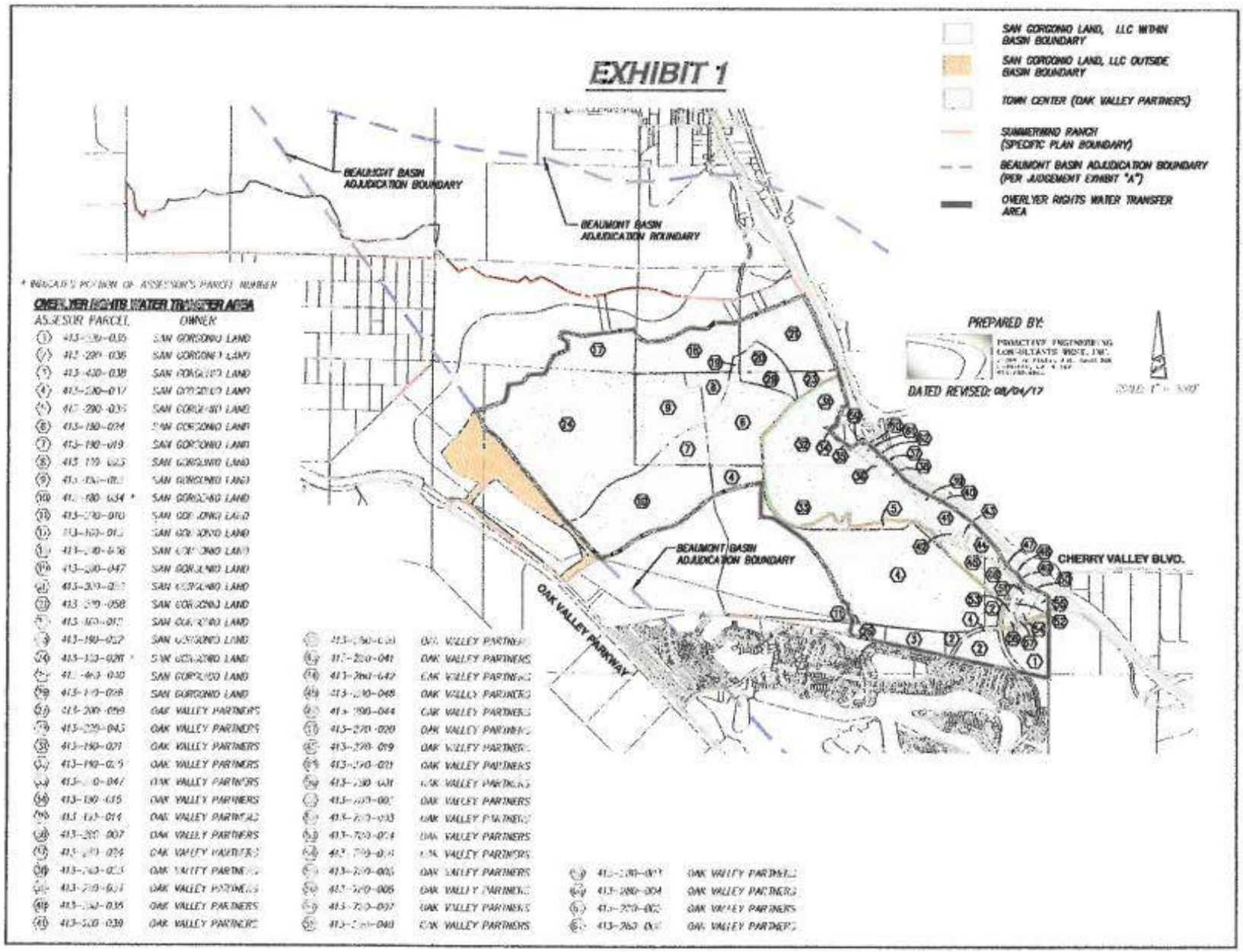


EXHIBIT 1
SAN GORGONIO LAND, LLC WITHIN BASIN BOUNDARY
SAN GORGONIO LAND, LLC OUTSIDE BASIN BOUNDARY
TOWN CENTER (OAK VALLEY PARTNERS)
SUMMERWIND RANCH (SPECIFIC PLAN BOUNDARY)
BEAUMONT BASIN ADJUDICATION BOUNDARY (PER JUDGEMENT EXHIBIT "A")
OVERLYER RIGHTS WATER TRANSFER AREA
BEAUMONT BASIN ADJUDICATION BOUNDARY
BEAUMONT BASIN ADJUDICATION BOUNDARY
BEAUMONT BASIN ADJUDICATION BOUNDARY
CHERRY VALLEY BLVD.
OAK VALLEY PARKWAY
PREPARED BY:
DATED REVISED: 08/04/17
* INDICATES PORTION OF ASSESSOR'S PARCEL NUMBER
OVERLYER RIGHTS WATER TRANSFER AREA
ASSESSOR PARCEL
OWNER
SAN GORGONIO LAND
OAK VALLEY PARTNERS

Appendix G

GAMA Water Quality Analysis Summary (2020-2024) for Drinking Water Production Wells

Well	Sample Date	Analyte Name	Result	Units
Banning - C2A	3/17/2020	1,2-DIBROMO-3-CHLOROPROPANE		UG/L
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	3/17/2020	ALKALINITY, BICARBONATE	160	MG/L
Banning - C2A	3/17/2020	ALKALINITY, TOTAL	160	MG/L
Banning - C2A	3/17/2020	ALUMINUM		UG/L
Banning - C2A	3/17/2020	ANTIMONY, TOTAL		UG/L
Banning - C2A	3/17/2020	ARSENIC		UG/L
Banning - C2A	3/17/2020	ASBESTOS		MFL
Banning - C2A	3/9/2023	ASBESTOS		MFL
Banning - C2A	3/17/2020	BARIUM		UG/L
Banning - C2A	3/17/2020	BERYLLIUM, TOTAL		UG/L
Banning - C2A	3/17/2020	CADMIUM		UG/L
Banning - C2A	3/17/2020	CALCIUM	41	MG/L
Banning - C2A	3/17/2020	CHLORIDE	9.2	MG/L
Banning - C2A	3/17/2020	CHROMIUM	16.0	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	3/17/2020	COPPER, FREE		UG/L
Banning - C2A	3/17/2020	CYANIDE		UG/L
Banning - C2A	3/17/2020	FLUORIDE	0.2	MG/L
Banning - C2A	3/17/2020	HARDNESS, TOTAL (AS CACO3)	140	MG/L
Banning - C2A	3/17/2020	IRON		UG/L
Banning - C2A	3/17/2020	LEAD		UG/L
Banning - C2A	3/17/2020	MAGNESIUM	8.8	MG/L
Banning - C2A	3/17/2020	MANGANESE		UG/L
Banning - C2A	3/17/2020	MERCURY		UG/L
Banning - C2A	3/17/2020	NICKEL		UG/L
Banning - C2A	1/30/2020	NITRATE	1.9	MG/L
Banning - C2A	3/17/2020	NITRATE	1.3	MG/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	1/30/2020	NITRITE		MG/L
Banning - C2A	3/17/2020	NITRITE		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

Well	Sample Date	Analyte Name	Result	Units
Banning - C2A	1/18/2023	NITRITE		MG/L
Banning - C2A	1/25/2024	NITRITE		MG/L
Banning - C2A	3/17/2020	PERCHLORATE		UG/L
Banning - C2A	3/17/2020	PH	8.2	PH
Banning - C2A	3/17/2020	POTASSIUM	1.3	MG/L
Banning - C2A	3/17/2020	SELENIUM		UG/L
Banning - C2A	3/17/2020	SILVER		UG/L
Banning - C2A	3/17/2020	SODIUM	24.0	MG/L
Banning - C2A	3/17/2020	SULFATE	8.5	MG/L
Banning - C2A	3/17/2020	TDS	220	MG/L
Banning - C2A	3/17/2020	TETRACHLOROETHYLENE		UG/L
Banning - C2A	3/17/2020	THALLIUM, TOTAL		UG/L
Banning - C2A	3/17/2020	TRICHLOROETHYLENE		UG/L
Banning - C2A	3/17/2020	ZINC		UG/L
Banning - C3	10/29/2020	1,2-DIBROMO-3-CHLOROPROPANE		UG/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	10/29/2020	ALKALINITY, BICARBONATE	140	MG/L
Banning - C3	10/29/2020	ALKALINITY, TOTAL	140	MG/L
Banning - C3	10/29/2020	ALUMINUM		UG/L
Banning - C3	10/29/2020	ANTIMONY, TOTAL		UG/L
Banning - C3	10/29/2020	ARSENIC		UG/L
Banning - C3	10/29/2020	ASBESTOS		MFL
Banning - C3	3/8/2023	ASBESTOS		MFL
Banning - C3	10/29/2020	BARIUM		UG/L
Banning - C3	10/29/2020	BERYLLIUM, TOTAL		UG/L
Banning - C3	10/29/2020	CADMIUM		UG/L
Banning - C3	10/29/2020	CALCIUM	31	MG/L
Banning - C3	10/29/2020	CHLORIDE	16	MG/L
Banning - C3	10/29/2020	CHROMIUM	12	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	10/29/2020	COPPER, FREE		UG/L
Banning - C3	10/29/2020	CYANIDE		UG/L
Banning - C3	10/29/2020	FLUORIDE	0.3	MG/L
Banning - C3	10/29/2020	HARDNESS, TOTAL (AS CACO3)	100	MG/L
Banning - C3	10/29/2020	IRON	140	UG/L
Banning - C3	10/29/2020	LEAD		UG/L
Banning - C3	10/29/2020	MAGNESIUM	5.7	MG/L
Banning - C3	10/29/2020	MANGANESE		UG/L

Well	Sample Date	Analyte Name	Result	Units
Banning - C3	10/29/2020	MERCURY		UG/L
Banning - C3	10/29/2020	NICKEL		UG/L
Banning - C3	10/29/2020	NITRATE	1.7	MG/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	10/29/2020	NITRITE		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	10/29/2020	PERCHLORATE		UG/L
Banning - C3	10/29/2020	PH	8.1	PH
Banning - C3	10/29/2020	POTASSIUM	1.6	MG/L
Banning - C3	10/29/2020	SELENIUM		UG/L
Banning - C3	10/29/2020	SILVER		UG/L
Banning - C3	10/29/2020	SODIUM	29	MG/L
Banning - C3	10/29/2020	SULFATE	5.5	MG/L
Banning - C3	10/29/2020	TDS	170	MG/L
Banning - C3	10/29/2020	TETRACHLOROETHYLENE		UG/L
Banning - C3	10/29/2020	THALLIUM, TOTAL		UG/L
Banning - C3	10/29/2020	TRICHLOROETHYLENE		UG/L
Banning - C3	10/29/2020	ZINC		UG/L
Banning - C4	3/11/2020	1,2-DIBROMO-3-CHLOROPROPANE		UG/L
Banning - C4	4/17/2023	1,2-DIBROMO-3-CHLOROPROPANE		UG/L
Banning - C4	3/11/2020	ALKALINITY, BICARBONATE	150	MG/L
Banning - C4	4/17/2023	ALKALINITY, BICARBONATE	150	MG/L
Banning - C4	3/11/2020	ALKALINITY, TOTAL	150	MG/L
Banning - C4	4/17/2023	ALKALINITY, TOTAL	150	MG/L
Banning - C4	3/11/2020	ALUMINUM		UG/L
Banning - C4	4/17/2023	ALUMINUM		UG/L
Banning - C4	3/11/2020	ANTIMONY, TOTAL		UG/L
Banning - C4	4/17/2023	ANTIMONY, TOTAL		UG/L
Banning - C4	3/11/2020	ARSENIC		UG/L
Banning - C4	4/17/2023	ARSENIC		UG/L
Banning - C4	3/11/2020	ASBESTOS		MFL
Banning - C4	4/17/2023	ASBESTOS		MFL
Banning - C4	3/11/2020	BARIUM		UG/L
Banning - C4	4/17/2023	BARIUM		UG/L
Banning - C4	3/11/2020	BERYLLIUM, TOTAL		UG/L
Banning - C4	4/17/2023	BERYLLIUM, TOTAL		UG/L
Banning - C4	3/11/2020	CADMIUM		UG/L
Banning - C4	4/17/2023	CADMIUM		UG/L

Well	Sample Date	Analyte Name	Result	Units
Banning - C4	3/11/2020	CALCIUM	36	MG/L
Banning - C4	4/17/2023	CALCIUM	26	MG/L
Banning - C4	3/11/2020	CHLORIDE	8.2	MG/L
Banning - C4	4/17/2023	CHLORIDE	10	MG/L
Banning - C4	3/11/2020	CHROMIUM	16	UG/L
Banning - C4	4/17/2023	CHROMIUM	12	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	3/11/2020	COPPER, FREE		UG/L
Banning - C4	4/17/2023	COPPER, FREE		UG/L
Banning - C4	3/11/2020	CYANIDE		UG/L
Banning - C4	4/17/2023	CYANIDE		UG/L
Banning - C4	3/11/2020	FLUORIDE	0.25	MG/L
Banning - C4	4/17/2023	FLUORIDE	0.41	MG/L
Banning - C4	3/11/2020	HARDNESS, TOTAL (AS CACO3)	120	MG/L
Banning - C4	4/17/2023	HARDNESS, TOTAL (AS CACO3)	90	MG/L
Banning - C4	3/11/2020	IRON		UG/L
Banning - C4	4/17/2023	IRON		UG/L
Banning - C4	3/11/2020	LEAD		UG/L
Banning - C4	4/17/2023	LEAD		UG/L
Banning - C4	3/11/2020	MAGNESIUM	7.2	MG/L
Banning - C4	4/17/2023	MAGNESIUM	6.0	MG/L
Banning - C4	3/11/2020	MANGANESE		UG/L
Banning - C4	4/17/2023	MANGANESE		UG/L
Banning - C4	3/11/2020	MERCURY		UG/L
Banning - C4	4/17/2023	MERCURY		UG/L
Banning - C4	3/11/2020	NICKEL		UG/L
Banning - C4	4/17/2023	NICKEL		UG/L
Banning - C4	1/30/2020	NITRATE	0.9	MG/L
Banning - C4	3/11/2020	NITRATE	0.97	MG/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	1/30/2020	NITRITE		MG/L
Banning - C4	3/11/2020	NITRITE		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

Well	Sample Date	Analyte Name	Result	Units
Banning - C4	4/17/2023	NITRITE		MG/L
Banning - C4	1/25/2024	NITRITE		MG/L
Banning - C4	3/11/2020	PERCHLORATE		UG/L
Banning - C4	4/17/2023	PERCHLORATE		UG/L
Banning - C4	3/11/2020	PH	8.1	PH
Banning - C4	4/17/2023	PH	8.0	PH
Banning - C4	3/11/2020	POTASSIUM	1.5	MG/L
Banning - C4	4/17/2023	POTASSIUM	1.1	MG/L
Banning - C4	3/11/2020	SELENIUM		UG/L
Banning - C4	4/17/2023	SELENIUM		UG/L
Banning - C4	3/11/2020	SILVER		UG/L
Banning - C4	4/17/2023	SILVER		UG/L
Banning - C4	3/11/2020	SODIUM	27	MG/L
Banning - C4	4/17/2023	SODIUM	32	MG/L
Banning - C4	3/11/2020	SULFATE	12	MG/L
Banning - C4	4/17/2023	SULFATE	14	MG/L
Banning - C4	3/11/2020	TDS	200	MG/L
Banning - C4	4/17/2023	TDS	180	MG/L
Banning - C4	3/11/2020	TETRACHLOROETHYLENE		UG/L
Banning - C4	4/17/2023	TETRACHLOROETHYLENE		UG/L
Banning - C4	3/11/2020	THALLIUM, TOTAL		UG/L
Banning - C4	4/17/2023	THALLIUM, TOTAL		UG/L
Banning - C4	3/11/2020	TRICHLOROETHYLENE		UG/L
Banning - C4	4/17/2023	TRICHLOROETHYLENE		UG/L
Banning - C4	3/11/2020	ZINC		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

Well	Sample Date	Analyte Name	Result	Units
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	3/10/2022	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	1/30/2020	NITRATE	1.6	MG/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

Well	Sample Date	Analyte Name	Result	Units
Banning - M3	1/25/2024	NITRATE	2.7	MG/L
Banning - M3	1/25/2024	NITRATE	2.7	MG/L
Banning - M3	1/30/2020	NITRITE		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
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
BCVWD - 03	12/3/2024	ZINC		UG/L
BCVWD - 03	12/16/2020	1,2-DIBROMO-3-CHLOROPROPANE		UG/L
BCVWD - 03	3/22/2022	1,2-DIBROMO-3-CHLOROPROPANE		UG/L
BCVWD - 03	9/28/2022	1,2-DIBROMO-3-CHLOROPROPANE	160	MG/L
BCVWD - 03	12/16/2020	ALKALINITY, BICARBONATE	140	MG/L
BCVWD - 03	12/13/2023	ALKALINITY, BICARBONATE	160	MG/L
BCVWD - 03	12/16/2020	ALKALINITY, TOTAL	140	MG/L
BCVWD - 03	12/13/2023	ALKALINITY, TOTAL		UG/L

Well	Sample Date	Analyte Name	Result	Units
BCVWD - 03	12/16/2020	ALUMINUM		UG/L
BCVWD - 03	12/13/2023	ALUMINUM		UG/L
BCVWD - 03	12/16/2020	ANTIMONY, TOTAL		UG/L
BCVWD - 03	12/13/2023	ANTIMONY, TOTAL		UG/L
BCVWD - 03	12/16/2020	ARSENIC		UG/L
BCVWD - 03	12/13/2023	ARSENIC		UG/L
BCVWD - 03	12/16/2020	BARIUM		UG/L
BCVWD - 03	12/13/2023	BARIUM		UG/L
BCVWD - 03	12/16/2020	BERYLLIUM, TOTAL		UG/L
BCVWD - 03	12/13/2023	BERYLLIUM, TOTAL		UG/L
BCVWD - 03	12/16/2020	CADMIUM		UG/L
BCVWD - 03	12/13/2023	CADMIUM		MG/L
BCVWD - 03	12/16/2020	CALCIUM	35	MG/L
BCVWD - 03	12/13/2023	CALCIUM	32	MG/L
BCVWD - 03	12/16/2020	CHLORIDE	8	MG/L
BCVWD - 03	12/13/2023	CHLORIDE	6.6	UG/L
BCVWD - 03	12/16/2020	CHROMIUM	11	UG/L
BCVWD - 03	12/13/2023	CHROMIUM	11	PCI/L
BCVWD - 03	9/14/2021	COMBINED URANIUM	1.1	UG/L
BCVWD - 03	12/16/2020	COPPER, FREE		UG/L
BCVWD - 03	12/13/2023	COPPER, FREE		UG/L
BCVWD - 03	12/16/2020	CYANIDE		UG/L
BCVWD - 03	12/13/2023	CYANIDE		MG/L
BCVWD - 03	12/16/2020	FLUORIDE	0.3	MG/L
BCVWD - 03	12/13/2023	FLUORIDE	0.28	MG/L
BCVWD - 03	12/16/2020	HARDNESS, TOTAL (AS CACO3)	120	MG/L
BCVWD - 03	12/13/2023	HARDNESS, TOTAL (AS CACO3)	110	UG/L
BCVWD - 03	12/16/2020	IRON		UG/L
BCVWD - 03	12/13/2023	IRON	110	UG/L
BCVWD - 03	12/16/2020	LEAD		UG/L
BCVWD - 03	12/13/2023	LEAD		MG/L
BCVWD - 03	12/16/2020	MAGNESIUM	8.5	MG/L
BCVWD - 03	12/13/2023	MAGNESIUM	6.7	UG/L
BCVWD - 03	12/16/2020	MANGANESE		UG/L
BCVWD - 03	12/13/2023	MANGANESE	24	UG/L
BCVWD - 03	12/16/2020	MERCURY		UG/L
BCVWD - 03	12/13/2023	MERCURY		UG/L
BCVWD - 03	12/16/2020	NICKEL		UG/L
BCVWD - 03	12/13/2023	NICKEL		MG/L
BCVWD - 03	12/16/2020	NITRATE	0.9	MG/L
BCVWD - 03	12/9/2021	NITRATE	0.87	MG/L
BCVWD - 03	11/30/2022	NITRATE	0.98	MG/L

Well	Sample Date	Analyte Name	Result	Units
BCVWD - 03	12/13/2023	NITRATE	0.54	MG/L
BCVWD - 03	12/16/2020	NITRITE		MG/L
BCVWD - 03	12/13/2023	NITRITE		UG/L
BCVWD - 03	12/16/2020	PERCHLORATE		UG/L
BCVWD - 03	12/13/2023	PERCHLORATE		PH
BCVWD - 03	12/16/2020	PH	8.1	PH
BCVWD - 03	12/13/2023	PH	8.1	MG/L
BCVWD - 03	12/16/2020	POTASSIUM	1.5	MG/L
BCVWD - 03	12/13/2023	POTASSIUM	1.8	UG/L
BCVWD - 03	12/16/2020	SELENIUM		UG/L
BCVWD - 03	12/13/2023	SELENIUM		UG/L
BCVWD - 03	12/16/2020	SILVER		UG/L
BCVWD - 03	12/13/2023	SILVER		MG/L
BCVWD - 03	12/16/2020	SODIUM	23	MG/L
BCVWD - 03	12/13/2023	SODIUM	30	MG/L
BCVWD - 03	12/16/2020	SULFATE	11	MG/L
BCVWD - 03	12/13/2023	SULFATE	12	MG/L
BCVWD - 03	12/16/2020	TDS	190	MG/L
BCVWD - 03	12/13/2023	TDS	180	UG/L
BCVWD - 03	12/16/2020	TETRACHLOROETHYLENE		UG/L
BCVWD - 03	12/13/2023	TETRACHLOROETHYLENE		UG/L
BCVWD - 03	12/16/2020	THALLIUM, TOTAL		UG/L
BCVWD - 03	12/13/2023	THALLIUM, TOTAL		UG/L
BCVWD - 03	12/16/2020	TRICHLOROETHYLENE		UG/L
BCVWD - 03	12/13/2023	TRICHLOROETHYLENE		UG/L
BCVWD - 03	12/16/2020	ZINC		UG/L
BCVWD - 16	12/13/2023	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		MG/L
BCVWD - 16	11/30/2022	ALKALINITY, BICARBONATE	190	MG/L
BCVWD - 16	11/30/2022	ALKALINITY, TOTAL	190	UG/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		MG/L
BCVWD - 16	11/30/2022	CALCIUM	53	MG/L
BCVWD - 16	11/30/2022	CHLORIDE	34	UG/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

Well	Sample Date	Analyte Name	Result	Units
BCVWD - 16	11/30/2022	CYANIDE		MG/L
BCVWD - 16	11/30/2022	FLUORIDE	0.64	MG/L
BCVWD - 16	11/30/2022	HARDNESS, TOTAL (AS CACO3)	210	UG/L
BCVWD - 16	11/30/2022	IRON		UG/L
BCVWD - 16	11/30/2022	LEAD		MG/L
BCVWD - 16	11/30/2022	MAGNESIUM	19	UG/L
BCVWD - 16	11/30/2022	MANGANESE		UG/L
BCVWD - 16	11/30/2022	MERCURY		UG/L
BCVWD - 16	11/30/2022	NICKEL		MG/L
BCVWD - 16	5/26/2020	NITRATE	7.0	MG/L
BCVWD - 16	6/16/2020	NITRATE	6.8	MG/L
BCVWD - 16	7/27/2020	NITRATE	6.7	MG/L
BCVWD - 16	10/27/2020	NITRATE	5.1	MG/L
BCVWD - 16	12/10/2020	NITRATE	6.2	MG/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

Well	Sample Date	Analyte Name	Result	Units
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
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	11/30/2022	NITRITE		UG/L
BCVWD - 16	11/30/2022	PERCHLORATE		PH
BCVWD - 16	11/30/2022	PH	7.9	MG/L
BCVWD - 16	11/30/2022	POTASSIUM	1.4	UG/L
BCVWD - 16	11/30/2022	SELENIUM		UG/L
BCVWD - 16	11/30/2022	SILVER		MG/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	UG/L
BCVWD - 16	11/30/2022	TETRACHLOROETHYLENE		UG/L
BCVWD - 16	11/30/2022	THALLIUM, TOTAL		UG/L
BCVWD - 16	11/30/2022	TRICHLOROETHYLENE		UG/L
BCVWD - 21	11/30/2022	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		MG/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	UG/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
BCVWD - 21	12/9/2021	BARIUM	22	UG/L
BCVWD - 21	12/4/2024	BARIUM	22	UG/L

Well	Sample Date	Analyte Name	Result	Units
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		MG/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	UG/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	PCI/L
BCVWD - 21	12/10/2020	COMBINED URANIUM	1.0	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		MG/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	UG/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		MG/L
BCVWD - 21	12/9/2021	MAGNESIUM	19	MG/L
BCVWD - 21	12/4/2024	MAGNESIUM	18	UG/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		MG/L
BCVWD - 21	7/27/2020	NITRATE	3.2	MG/L
BCVWD - 21	10/27/2020	NITRATE	3.1	MG/L
BCVWD - 21	12/10/2020	NITRATE	3.1	MG/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

Well	Sample Date	Analyte Name	Result	Units
BCVWD - 21	9/21/2021	NITRATE	3.3	MG/L
BCVWD - 21	10/28/2021	NITRATE	3.0	MG/L
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	12/9/2021	NITRITE		MG/L
BCVWD - 21	12/4/2024	NITRITE		UG/L
BCVWD - 21	12/9/2021	PERCHLORATE		UG/L
BCVWD - 21	12/4/2024	PERCHLORATE		PH
BCVWD - 21	12/9/2021	PH	8.1	PH
BCVWD - 21	12/4/2024	PH	7.8	MG/L
BCVWD - 21	12/9/2021	POTASSIUM	1.8	MG/L
BCVWD - 21	12/4/2024	POTASSIUM	1.7	UG/L
BCVWD - 21	12/9/2021	SELENIUM		UG/L
BCVWD - 21	12/4/2024	SELENIUM		UG/L

Well	Sample Date	Analyte Name	Result	Units
BCVWD - 21	12/9/2021	SILVER		UG/L
BCVWD - 21	12/4/2024	SILVER		MG/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	UG/L
BCVWD - 21	11/30/2022	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	12/9/2021	ZINC		UG/L
BCVWD - 22	12/4/2024	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		MG/L
BCVWD - 22	11/30/2022	ALKALINITY, BICARBONATE	200	MG/L
BCVWD - 22	11/30/2022	ALKALINITY, TOTAL	200	UG/L
BCVWD - 22	11/30/2022	ALUMINUM		UG/L
BCVWD - 22	11/30/2022	ANTIMONY, TOTAL		UG/L
BCVWD - 22	11/30/2022	ARSENIC		UG/L
BCVWD - 22	11/30/2022	BARIUM		UG/L
BCVWD - 22	11/30/2022	BERYLLIUM, TOTAL		UG/L
BCVWD - 22	11/30/2022	CADMIUM		MG/L
BCVWD - 22	11/30/2022	CALCIUM	40	MG/L
BCVWD - 22	11/30/2022	CHLORIDE	8.1	UG/L
BCVWD - 22	11/30/2022	CHROMIUM		UG/L
BCVWD - 22	5/7/2024	CHROMIUM, HEX	7.3	UG/L
BCVWD - 22	11/30/2022	COPPER, FREE		UG/L
BCVWD - 22	11/30/2022	CYANIDE		MG/L
BCVWD - 22	11/30/2022	FLUORIDE	0.32	MG/L
BCVWD - 22	11/30/2022	HARDNESS, TOTAL (AS CACO3)	170	UG/L
BCVWD - 22	11/30/2022	IRON		UG/L
BCVWD - 22	11/30/2022	LEAD		MG/L
BCVWD - 22	11/30/2022	MAGNESIUM	17	UG/L
BCVWD - 22	11/30/2022	MANGANESE		UG/L
BCVWD - 22	11/30/2022	MERCURY		UG/L
BCVWD - 22	11/30/2022	NICKEL		MG/L
BCVWD - 22	12/10/2020	NITRATE	0.94	MG/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

Well	Sample Date	Analyte Name	Result	Units
BCVWD - 22	10/3/2024	NITRATE	1.8	MG/L
BCVWD - 22	11/30/2022	NITRITE		UG/L
BCVWD - 22	11/30/2022	PERCHLORATE		PH
BCVWD - 22	11/30/2022	PH	8.0	MG/L
BCVWD - 22	11/30/2022	POTASSIUM	1.5	UG/L
BCVWD - 22	11/30/2022	SELENIUM		UG/L
BCVWD - 22	11/30/2022	SILVER		MG/L
BCVWD - 22	11/30/2022	SODIUM	18	MG/L
BCVWD - 22	11/30/2022	SULFATE	11	MG/L
BCVWD - 22	11/30/2022	TDS	200	UG/L
BCVWD - 22	11/30/2022	TETRACHLOROETHYLENE		UG/L
BCVWD - 22	11/30/2022	THALLIUM, TOTAL		UG/L
BCVWD - 22	11/30/2022	TRICHLOROETHYLENE		UG/L
BCVWD - 23	11/30/2022	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	MG/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	UG/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		MG/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	UG/L
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

Well	Sample Date	Analyte Name	Result	Units
BCVWD - 23	12/15/2021	CYANIDE		UG/L
BCVWD - 23	12/3/2024	CYANIDE		MG/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	UG/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	12/15/2021	LEAD		UG/L
BCVWD - 23	12/3/2024	LEAD		MG/L
BCVWD - 23	12/15/2021	MAGNESIUM	18	MG/L
BCVWD - 23	12/3/2024	MAGNESIUM	13	UG/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		MG/L
BCVWD - 23	12/10/2020	NITRATE	1.9	MG/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	12/15/2021	NITRITE		MG/L
BCVWD - 23	12/3/2024	NITRITE		UG/L
BCVWD - 23	12/15/2021	PERCHLORATE		UG/L
BCVWD - 23	12/3/2024	PERCHLORATE		PH
BCVWD - 23	12/15/2021	PH	8.0	PH
BCVWD - 23	12/3/2024	PH	7.8	MG/L
BCVWD - 23	12/15/2021	POTASSIUM	1.5	MG/L
BCVWD - 23	12/3/2024	POTASSIUM	1.6	UG/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		MG/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

Well	Sample Date	Analyte Name	Result	Units
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	UG/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 - 24	12/3/2024	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		MG/L
BCVWD - 24	11/30/2022	ALKALINITY, BICARBONATE	170	MG/L
BCVWD - 24	11/30/2022	ALKALINITY, TOTAL	170	UG/L
BCVWD - 24	11/30/2022	ALUMINUM		UG/L
BCVWD - 24	11/30/2022	ANTIMONY, TOTAL		UG/L
BCVWD - 24	11/30/2022	ARSENIC		UG/L
BCVWD - 24	11/30/2022	BARIUM		UG/L
BCVWD - 24	11/30/2022	BERYLLIUM, TOTAL		UG/L
BCVWD - 24	11/30/2022	CADMIUM		MG/L
BCVWD - 24	11/30/2022	CALCIUM	38	MG/L
BCVWD - 24	11/30/2022	CHLORIDE	6.7	UG/L
BCVWD - 24	11/30/2022	CHROMIUM		UG/L
BCVWD - 24	5/7/2024	CHROMIUM, HEX	8.6	UG/L
BCVWD - 24	11/30/2022	COPPER, FREE		UG/L
BCVWD - 24	11/30/2022	CYANIDE		MG/L
BCVWD - 24	11/30/2022	FLUORIDE	0.38	MG/L
BCVWD - 24	11/30/2022	HARDNESS, TOTAL (AS CACO3)	150	UG/L
BCVWD - 24	11/30/2022	IRON		UG/L
BCVWD - 24	11/30/2022	LEAD		MG/L
BCVWD - 24	11/30/2022	MAGNESIUM	13	UG/L
BCVWD - 24	11/30/2022	MANGANESE		UG/L
BCVWD - 24	11/30/2022	MERCURY		UG/L
BCVWD - 24	11/30/2022	NICKEL		MG/L
BCVWD - 24	12/10/2020	NITRATE	1.0	MG/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	11/30/2022	NITRITE		UG/L
BCVWD - 24	11/30/2022	PERCHLORATE		PH

Well	Sample Date	Analyte Name	Result	Units
BCVWD - 24	11/30/2022	PH	7.9	MG/L
BCVWD - 24	11/30/2022	POTASSIUM	1.6	UG/L
BCVWD - 24	11/30/2022	SELENIUM		UG/L
BCVWD - 24	11/30/2022	SILVER		MG/L
BCVWD - 24	11/30/2022	SODIUM	19	MG/L
BCVWD - 24	11/30/2022	SULFATE	11	MG/L
BCVWD - 24	11/30/2022	TDS	200	UG/L
BCVWD - 24	11/30/2022	TETRACHLOROETHYLENE		UG/L
BCVWD - 24	11/30/2022	THALLIUM, TOTAL		UG/L
BCVWD - 24	11/30/2022	TRICHLOROETHYLENE		UG/L
BCVWD - 25	11/30/2022	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		MG/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	UG/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		MG/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	UG/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	PCI/L
BCVWD - 25	12/10/2020	COMBINED URANIUM	1.12	UG/L
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		MG/L

Well	Sample Date	Analyte Name	Result	Units
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	UG/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		MG/L
BCVWD - 25	12/15/2021	MAGNESIUM	13	MG/L
BCVWD - 25	12/4/2024	MAGNESIUM	14	UG/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		MG/L
BCVWD - 25	12/10/2020	NITRATE	1.1	MG/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	12/15/2021	NITRITE		MG/L
BCVWD - 25	12/4/2024	NITRITE		UG/L
BCVWD - 25	12/15/2021	PERCHLORATE		UG/L
BCVWD - 25	12/4/2024	PERCHLORATE		PH
BCVWD - 25	12/15/2021	PH	8.1	PH
BCVWD - 25	12/4/2024	PH	8.0	MG/L
BCVWD - 25	12/15/2021	POTASSIUM	1.6	MG/L
BCVWD - 25	12/4/2024	POTASSIUM	1.6	UG/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		MG/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
BCVWD - 25	12/4/2024	TDS	230	UG/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

Well	Sample Date	Analyte Name	Result	Units
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 - 26	12/4/2024	ZINC		UG/L
BCVWD - 26	5/7/2024	CHROMIUM, HEX	14	PCI/L
BCVWD - 26	11/30/2022	COMBINED URANIUM		MG/L
BCVWD - 26	12/10/2020	NITRATE	0.72	MG/L
BCVWD - 26	12/9/2021	NITRATE	0.74	MG/L
BCVWD - 26	11/30/2022	NITRATE	1.0	MG/L
BCVWD - 29	11/22/2023	NITRATE	0.96	UG/L
BCVWD - 29	12/15/2021	1,2-DIBROMO-3-CHLOROPROPANE		MG/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	UG/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		MG/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	UG/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
BCVWD - 29	12/3/2024	CYANIDE		MG/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

Well	Sample Date	Analyte Name	Result	Units
BCVWD - 29	12/3/2024	HARDNESS, TOTAL (AS CACO3)	140	UG/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		MG/L
BCVWD - 29	12/15/2021	MAGNESIUM	14	MG/L
BCVWD - 29	12/3/2024	MAGNESIUM	12	UG/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		MG/L
BCVWD - 29	12/10/2020	NITRATE	2.4	MG/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	2.7	MG/L
BCVWD - 29	12/3/2024	NITRATE	1.2	MG/L
BCVWD - 29	12/15/2021	NITRITE		MG/L
BCVWD - 29	12/3/2024	NITRITE		UG/L
BCVWD - 29	12/15/2021	PERCHLORATE		UG/L
BCVWD - 29	12/3/2024	PERCHLORATE		PH
BCVWD - 29	12/15/2021	PH	8.1	PH
BCVWD - 29	12/3/2024	PH	8.0	MG/L
BCVWD - 29	12/15/2021	POTASSIUM	1.7	MG/L
BCVWD - 29	12/3/2024	POTASSIUM	1.6	UG/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		MG/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	UG/L
BCVWD - 29	12/15/2021	TETRACHLOROETHYLENE		UG/L
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

Well	Sample Date	Analyte Name	Result	Units
BCVWD - 29	12/15/2021	ZINC		UG/L
Plantation - 01	3/24/2020	ALKALINITY, BICARBONATE	200	MG/L
Plantation - 01	3/23/2023	ALKALINITY, BICARBONATE	240	MG/L
Plantation - 01	3/24/2020	ALKALINITY, TOTAL	190	MG/L
Plantation - 01	3/23/2023	ALKALINITY, TOTAL	200	MG/L
Plantation - 01	3/24/2020	ALUMINUM		UG/L
Plantation - 01	3/23/2023	ALUMINUM		UG/L
Plantation - 01	3/24/2020	ANTIMONY, TOTAL		UG/L
Plantation - 01	3/23/2023	ANTIMONY, TOTAL		UG/L
Plantation - 01	3/24/2020	ARSENIC		UG/L
Plantation - 01	3/23/2023	ARSENIC		UG/L
Plantation - 01	3/23/2023	ASBESTOS		MFL
Plantation - 01	3/24/2020	BARIUM		UG/L
Plantation - 01	3/23/2023	BARIUM		UG/L
Plantation - 01	3/24/2020	BERYLLIUM, TOTAL		UG/L
Plantation - 01	3/23/2023	BERYLLIUM, TOTAL		UG/L
Plantation - 01	3/24/2020	CADMIUM		UG/L
Plantation - 01	3/23/2023	CADMIUM		UG/L
Plantation - 01	3/24/2020	CALCIUM	52	MG/L
Plantation - 01	3/23/2023	CALCIUM	50	MG/L
Plantation - 01	3/24/2020	CHLORIDE	17	MG/L
Plantation - 01	3/23/2023	CHLORIDE	15	MG/L
Plantation - 01	3/24/2020	CHROMIUM		UG/L
Plantation - 01	3/23/2023	CHROMIUM		UG/L
Plantation - 01	3/24/2020	COPPER, FREE		UG/L
Plantation - 01	3/23/2023	COPPER, FREE		UG/L
Plantation - 01	3/23/2023	CYANIDE		UG/L
Plantation - 01	3/24/2020	FLUORIDE	0.41	MG/L
Plantation - 01	3/23/2023	FLUORIDE	0.42	MG/L
Plantation - 01	3/24/2020	HARDNESS, TOTAL (AS CACO3)	210	MG/L
Plantation - 01	3/23/2023	HARDNESS, TOTAL (AS CACO3)	200	MG/L
Plantation - 01	3/24/2020	IRON		UG/L
Plantation - 01	3/23/2023	IRON		UG/L
Plantation - 01	3/24/2020	LEAD		UG/L
Plantation - 01	3/23/2023	LEAD		UG/L
Plantation - 01	3/24/2020	MAGNESIUM	18	MG/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	3/24/2020	MERCURY		UG/L
Plantation - 01	3/23/2023	MERCURY		UG/L
Plantation - 01	3/24/2020	NICKEL		UG/L

Well	Sample Date	Analyte Name	Result	Units
Plantation - 01	3/23/2023	NICKEL		UG/L
Plantation - 01	12/16/2020	NITRATE	2.2	MG/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	3/23/2023	NITRATE-NITRITE	1.9	MG/L
Plantation - 01	3/24/2020	NITRITE		MG/L
Plantation - 01	3/23/2023	NITRITE		MG/L
Plantation - 01	3/24/2020	PERCHLORATE		UG/L
Plantation - 01	3/23/2023	PERCHLORATE		UG/L
Plantation - 01	3/24/2020	PH	7.5	PH
Plantation - 01	3/23/2023	PH	7.7	PH
Plantation - 01	3/23/2023	POTASSIUM		MG/L
Plantation - 01	3/24/2020	SELENIUM		UG/L
Plantation - 01	3/23/2023	SELENIUM		UG/L
Plantation - 01	3/24/2020	SILVER		UG/L
Plantation - 01	3/23/2023	SILVER		UG/L
Plantation - 01	3/24/2020	SODIUM	19	MG/L
Plantation - 01	3/23/2023	SODIUM	19	MG/L
Plantation - 01	3/24/2020	SULFATE	12	MG/L
Plantation - 01	3/23/2023	SULFATE	12	MG/L
Plantation - 01	3/24/2020	TDS	260	MG/L
Plantation - 01	3/23/2023	TDS	280	MG/L
Plantation - 01	3/24/2020	THALLIUM, TOTAL		UG/L
Plantation - 01	3/23/2023	THALLIUM, TOTAL		UG/L
Plantation - 01	3/24/2020	ZINC		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	3/19/2024	COPPER, FREE		UG/L
RCMHP - 01	3/19/2024	FLUORIDE	0.36	MG/L

Well	Sample Date	Analyte Name	Result	Units
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	1/13/2020	NITRATE	5.2	MG/L
RCMHP - 01	7/6/2020	NITRATE	4.7	MG/L
RCMHP - 01	10/5/2020	NITRATE	5.2	MG/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	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

Well	Sample Date	Analyte Name	Result	Units
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	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	1/13/2020	NITRATE	6.1	MG/L
RCMHP - 02	4/20/2020	NITRATE	4.8	MG/L
RCMHP - 02	7/7/2020	NITRATE	6.4	MG/L
RCMHP - 02	10/5/2020	NITRATE	6.2	MG/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
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	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

Well	Sample Date	Analyte Name	Result	Units
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	11/8/2021	ALKALINITY, TOTAL	200	MG/L
Sharondale MHOA - 01	11/8/2021	ALUMINUM		UG/L
Sharondale MHOA - 01	11/8/2021	ANTIMONY, TOTAL		UG/L
Sharondale MHOA - 01	11/8/2021	ARSENIC		UG/L
Sharondale MHOA - 01	11/21/2022	ASBESTOS		MFL
Sharondale MHOA - 01	11/8/2021	BARIUM	42	UG/L
Sharondale MHOA - 01	11/8/2021	BERYLLIUM, TOTAL		UG/L
Sharondale MHOA - 01	11/8/2021	CADMIUM		UG/L
Sharondale MHOA - 01	11/8/2021	CALCIUM	47	MG/L
Sharondale MHOA - 01	11/8/2021	CHLORIDE	28	MG/L
Sharondale MHOA - 01	11/8/2021	CHROMIUM	6.2	UG/L
Sharondale MHOA - 01	11/8/2021	COPPER, FREE		UG/L
Sharondale MHOA - 01	12/19/2022	CYANIDE		UG/L
Sharondale MHOA - 01	11/8/2021	FLUORIDE	0.47	MG/L
Sharondale MHOA - 01	11/8/2021	HARDNESS, TOTAL (AS CACO3)	190	MG/L
Sharondale MHOA - 01	11/8/2021	IRON		UG/L
Sharondale MHOA - 01	11/8/2021	LEAD		UG/L
Sharondale MHOA - 01	11/8/2021	MAGNESIUM	17	MG/L
Sharondale MHOA - 01	11/8/2021	MANGANESE		UG/L
Sharondale MHOA - 01	11/8/2021	MERCURY		UG/L
Sharondale MHOA - 01	12/20/2021	NICKEL		UG/L
Sharondale MHOA - 01	1/13/2020	NITRATE	4.7	MG/L
Sharondale MHOA - 01	4/20/2020	NITRATE	5.1	MG/L
Sharondale MHOA - 01	7/6/2020	NITRATE	5.2	MG/L
Sharondale MHOA - 01	10/5/2020	NITRATE	4.9	MG/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
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

Well	Sample Date	Analyte Name	Result	Units
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	11/21/2022	NITRITE		MG/L
Sharondale MHOA - 01	12/20/2021	PERCHLORATE		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	12/20/2021	SELENIUM		UG/L
Sharondale MHOA - 01	11/8/2021	SILVER		UG/L
Sharondale MHOA - 01	11/8/2021	SODIUM	44	MG/L
Sharondale MHOA - 01	11/8/2021	SULFATE	21	MG/L
Sharondale MHOA - 01	11/8/2021	TDS	330	MG/L
Sharondale MHOA - 01	11/21/2022	TETRACHLOROETHYLENE		UG/L
Sharondale MHOA - 01	12/20/2021	THALLIUM, TOTAL		UG/L
Sharondale MHOA - 01	11/21/2022	TRICHLOROETHYLENE		UG/L
Sharondale MHOA - 01	11/8/2021	ZINC		UG/L
Sharondale MHOA - 02	11/21/2022	1,2-DIBROMO-3-CHLOROPROPANE		UG/L
Sharondale MHOA - 02	11/8/2021	ALKALINITY, BICARBONATE	200	MG/L
Sharondale MHOA - 02	11/8/2021	ALKALINITY, TOTAL	200	MG/L
Sharondale MHOA - 02	11/8/2021	ALUMINUM		UG/L
Sharondale MHOA - 02	11/8/2021	ANTIMONY, TOTAL		UG/L
Sharondale MHOA - 02	11/8/2021	ARSENIC		UG/L
Sharondale MHOA - 02	11/21/2022	ASBESTOS		MFL
Sharondale MHOA - 02	11/8/2021	BARIUM	44	UG/L
Sharondale MHOA - 02	11/8/2021	BERYLLIUM, TOTAL		UG/L
Sharondale MHOA - 02	11/8/2021	CADMIUM		UG/L
Sharondale MHOA - 02	11/8/2021	CALCIUM	50	MG/L
Sharondale MHOA - 02	11/8/2021	CHLORIDE	40	MG/L
Sharondale MHOA - 02	11/8/2021	CHROMIUM	9.5	UG/L
Sharondale MHOA - 02	11/8/2021	COPPER, FREE		UG/L
Sharondale MHOA - 02	12/19/2022	CYANIDE		UG/L
Sharondale MHOA - 02	11/8/2021	FLUORIDE	0.57	MG/L
Sharondale MHOA - 02	11/8/2021	HARDNESS, TOTAL (AS CACO3)	200	MG/L
Sharondale MHOA - 02	11/8/2021	IRON		UG/L
Sharondale MHOA - 02	11/8/2021	LEAD		UG/L
Sharondale MHOA - 02	11/8/2021	MAGNESIUM	19	MG/L
Sharondale MHOA - 02	11/8/2021	MANGANESE		UG/L
Sharondale MHOA - 02	11/8/2021	MERCURY		UG/L
Sharondale MHOA - 02	12/20/2021	NICKEL		UG/L

Well	Sample Date	Analyte Name	Result	Units
Sharondale MHOA - 02	1/13/2020	NITRATE	5.5	MG/L
Sharondale MHOA - 02	4/20/2020	NITRATE	5.5	MG/L
Sharondale MHOA - 02	7/6/2020	NITRATE	5.3	MG/L
Sharondale MHOA - 02	10/5/2020	NITRATE	5.6	MG/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	11/21/2022	NITRITE		MG/L
Sharondale MHOA - 02	12/20/2021	PERCHLORATE		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	12/20/2021	SELENIUM		UG/L
Sharondale MHOA - 02	11/8/2021	SILVER		UG/L
Sharondale MHOA - 02	11/8/2021	SODIUM	41	MG/L
Sharondale MHOA - 02	11/8/2021	SULFATE	18	MG/L
Sharondale MHOA - 02	11/8/2021	TDS	340	MG/L
Sharondale MHOA - 02	11/21/2022	TETRACHLOROETHYLENE		UG/L
Sharondale MHOA - 02	12/20/2021	THALLIUM, TOTAL		UG/L
Sharondale MHOA - 02	11/21/2022	TRICHLOROETHYLENE		UG/L
Sharondale MHOA - 02	11/8/2021	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	4/19/2022	ALKALINITY, TOTAL	100	MG/L
SMWC - 04	4/19/2022	ALUMINUM		UG/L
SMWC - 04	4/19/2022	ANTIMONY, TOTAL		UG/L
SMWC - 04	4/19/2022	ARSENIC	4.4	UG/L
SMWC - 04	4/19/2022	BARIUM		UG/L
SMWC - 04	4/19/2022	BERYLLIUM, TOTAL		UG/L
SMWC - 04	4/19/2022	BORON, TOTAL		UG/L
SMWC - 04	4/19/2022	CADMIUM		UG/L

Well	Sample Date	Analyte Name	Result	Units
SMWC - 04	4/19/2022	CALCIUM	5.3	MG/L
SMWC - 04	4/19/2022	CHLORIDE	16	MG/L
SMWC - 04	4/19/2022	CHROMIUM		UG/L
SMWC - 04	4/19/2022	CHROMIUM, HEX	1.9	UG/L
SMWC - 04	4/19/2022	COPPER, FREE		UG/L
SMWC - 04	4/19/2022	CYANIDE		UG/L
SMWC - 04	4/19/2022	FLUORIDE	0.39	MG/L
SMWC - 04	4/19/2022	HARDNESS, TOTAL (AS CACO3)	13	MG/L
SMWC - 04	4/19/2022	IRON		UG/L
SMWC - 04	4/19/2022	LEAD		UG/L
SMWC - 04	4/19/2022	MAGNESIUM		MG/L
SMWC - 04	4/19/2022	MANGANESE		UG/L
SMWC - 04	4/19/2022	MERCURY		UG/L
SMWC - 04	4/19/2022	NICKEL		UG/L
SMWC - 04	6/3/2020	NITRATE	3.1	MG/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	4/19/2022	NITRATE-NITRITE	3.1	MG/L
SMWC - 04	4/19/2022	NITRITE		MG/L
SMWC - 04	4/19/2022	PERCHLORATE		UG/L
SMWC - 04	4/19/2022	PH	8.8	PH
SMWC - 04	4/19/2022	POTASSIUM		MG/L
SMWC - 04	4/19/2022	SELENIUM		UG/L
SMWC - 04	4/19/2022	SILVER		UG/L
SMWC - 04	4/19/2022	SODIUM	63	MG/L
SMWC - 04	4/19/2022	SULFATE	15	MG/L
SMWC - 04	4/19/2022	TDS	220	MG/L
SMWC - 04	5/26/2023	TETRACHLOROETHYLENE		UG/L
SMWC - 04	4/19/2022	THALLIUM, TOTAL		UG/L
SMWC - 04	5/26/2023	TRICHLOROETHYLENE		UG/L
SMWC - 04	4/19/2022	VANADIUM, TOTAL	93	UG/L
SMWC - 04	4/19/2022	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	ALUMINUM		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

Well	Sample Date	Analyte Name	Result	Units
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	11/12/2020	NITRATE	1.6	MG/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
Tukwet - A	8/15/2023	SODIUM	59	MG/L
Tukwet - A	8/15/2023	SULFATE	5.6	MG/L
Tukwet - A	11/12/2020	TDS	170	
Tukwet - A	4/28/2021	TDS	180	
Tukwet - A	11/10/2021	TDS	230	
Tukwet - A	3/16/2022	TDS	160	
Tukwet - A	10/26/2022	TDS	180	
Tukwet - A	8/15/2023	TDS	160	MG/L
Tukwet - A	8/15/2023	TDS	160	
Tukwet - A	10/18/2023	TDS	200	
Tukwet - A	4/4/2024	TDS	190	

Well	Sample Date	Analyte Name	Result	Units
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	5/20/2020	NITRATE	2.4	MG/L
Tukwet - D	11/12/2020	NITRATE	1.7	MG/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
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

Well	Sample Date	Analyte Name	Result	Units
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	5/20/2020	TDS	210	
Tukwet - D	11/12/2020	TDS	180	
Tukwet - D	4/28/2021	TDS	210	
Tukwet - D	11/10/2021	TDS	250	
Tukwet - D	3/16/2022	TDS	170	
Tukwet - D	10/26/2022	TDS	220	
Tukwet - D	4/5/2023	TDS	160	
Tukwet - D	8/15/2023	TDS	200	MG/L
Tukwet - D	10/18/2023	TDS	220	
Tukwet - D	4/4/2024	TDS	180	
Tukwet - D	10/16/2024	TDS	200	
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	7/14/2020	ALKALINITY, BICARBONATE	170	MG/L
YVWD - 48	7/14/2020	ALKALINITY, TOTAL	140	MG/L
YVWD - 48	7/14/2020	ALUMINUM		UG/L
YVWD - 48	7/14/2020	ANTIMONY, TOTAL		UG/L
YVWD - 48	7/14/2020	ARSENIC		UG/L
YVWD - 48	7/14/2020	BARIUM		UG/L
YVWD - 48	7/14/2020	BERYLLIUM, TOTAL		UG/L
YVWD - 48	7/14/2020	BORON, TOTAL		UG/L
YVWD - 48	7/14/2020	CADMIUM		UG/L
YVWD - 48	7/14/2020	CALCIUM	32	MG/L
YVWD - 48	7/14/2020	CHLORIDE	11	MG/L
YVWD - 48	7/14/2020	CHROMIUM		UG/L
YVWD - 48	7/14/2020	CHROMIUM, HEX	7.5	UG/L
YVWD - 48	7/14/2020	COPPER, FREE		UG/L
YVWD - 48	7/14/2020	CYANIDE		UG/L
YVWD - 48	7/14/2020	FLUORIDE	0.39	MG/L
YVWD - 48	7/14/2020	HARDNESS, TOTAL (AS CACO3)	100	MG/L
YVWD - 48	7/14/2020	IRON		UG/L
YVWD - 48	7/14/2020	LEAD		UG/L
YVWD - 48	7/14/2020	MAGNESIUM	4.8	MG/L
YVWD - 48	7/14/2020	MANGANESE		UG/L

Well	Sample Date	Analyte Name	Result	Units
YVWD - 48	7/14/2020	MERCURY		UG/L
YVWD - 48	7/14/2020	NICKEL		UG/L
YVWD - 48	7/14/2020	NITRATE	2.4	MG/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
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	7/14/2020	NITRATE-NITRITE	2.4	MG/L
YVWD - 48	7/14/2020	NITRITE		MG/L
YVWD - 48	7/14/2020	PERCHLORATE		UG/L
YVWD - 48	7/14/2020	PH	8.1	PH
YVWD - 48	7/14/2020	POTASSIUM	2.0	MG/L
YVWD - 48	7/14/2020	SELENIUM		UG/L
YVWD - 48	7/14/2020	SILVER		UG/L
YVWD - 48	7/14/2020	SODIUM	36	MG/L
YVWD - 48	7/14/2020	SULFATE	13	MG/L
YVWD - 48	7/14/2020	TDS	200	MG/L
YVWD - 48	8/17/2022	TETRACHLOROETHYLENE		UG/L
YVWD - 48	7/14/2020	THALLIUM, TOTAL		UG/L
YVWD - 48	8/17/2022	TRICHLOROETHYLENE		UG/L
YVWD - 48	7/14/2020	VANADIUM, TOTAL	22	UG/L
YVWD - 48	7/14/2020	ZINC		UG/L

ALDA Inc.

In Association with

Thomas Harder & Co.
Groundwater Consulting