Call and Notice of Special Meeting of Borrego Springs Watermaster Board

The undersigned Chairperson of the Borrego Springs Watermaster Board of Directors does hereby call and set a Special Meeting of that Board to occur December 19, 2024 at 3:00 pm. The purpose of the meeting is for the Board to consider approval of the following items: (i) Scope and Budget for the Redetermination of the 2030 Sustainable Yield, (ii) Analysis of Carryover Rules, and (iii) WY 2025 Budget Amendment Request. The agenda for the Special Meeting and the direction for the public to access the meeting will be sent to the Watermaster distribution list and posted to the Watermaster website (https://borregospringswatermaster.com) at least 24 hours in advance of the meeting.

Dated: 12/11/24

David Duncan, Chairperson
Borrego Springs Watermaster Board

Borrego Springs Watermaster
Special Board Meeting
December 19, 2024 @ 3:00 p.m.
Meeting Available by Remote Access Only*

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https://meet.goto.com/189312717

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United States (Toll Free): 1 877 309 2073 or United States: +1 (646) 749-3129

Access Code: 189-312-717

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https://global.gotomeeting.com/install

Instructions for Public Comment

The public may address the Board on items within the Watermaster's Jurisdiction that are included or not included on the meeting agenda.

To address the Board on items that are not included on the meeting agenda, the public may request to speak during ***Agenda Item II – Public Correspondence***. Comments may be limited to three minutes per speaker.

To address the Board on items that are included on the meeting agenda, the Board Chairperson will call for public comments immediately following the agenda item's staff report presentation and prior to Board discussion.

AGENDA

Items with supporting documents in the Board Package are denoted with a page number.

I. OPENING PROCEDURES (Chair)

A. Call to Order and Begin Meeting Recording
B. Pledge of Allegiance
C. Roll Call
D. Approval of Agenda

II. PUBLIC COMMENT (Chair)

The Board may direct staff to include topics brought forward during Public Correspondence and Comment on a future meeting agenda. No action or discussion is otherwise taken by the Board. Written correspondence includes items received between November 27, 2024 and December 11, 2024.

A. Correspondence Received – *none received*

B. Public Comment

III. **CONSENT CALENDAR (Chair)**

Action Item: All items may be approved with a single motion

MINUTES
BORREGO SPRINGS WATERMASTER BOARD MEETING
Conducted Virtually via GoToMeeting
Thursday, December 5, 2024, 3:00 p.m.

The following individuals were present at the meeting:

Directors Present	Chair Dave Duncan – Borrego Water District (BWD)
	Vice Chair Tyler Bilyk – Agricultural Sector
	Secretary and Treasurer Shannon Smith – Recreational Sector[1]
	Mark Jorgensen – Community Representative
	Jim Bennett – County of San Diego
Watermaster Staff Present	James M. Markman, Legal Counsel
	Samantha Adams, Executive Director, West Yost
	Andrew Malone, Lead Technical Consultant, West Yost
	Lauren Salberg, Staff Geologist, West Yost
Others Present	David Garmon
	Diane Johnson, BWD Board Member
	Geoff Poole, BWD General Manager
	George Peraza, DWR
	Jessica Clabaugh, BWD Finance Office
	Jim Dax, Board Alternate – Community Representative
	Kathy Dice, Board Alternate - BWD
	Leanne Crow, Board Alternate – County of San Diego
	Rich Pinel, Board Alternate – Recreational Sector
	Steve Anderson, BB&K, representing BWD
	Tammy Baker, BWD Board Member
	Trey Driscoll, Intera, TAC Member representing BWD

Please visit the Watermaster's Website[2] to access the Agenda Packet, recording, and presentation for the December 5, 2024 Meeting.

I. **Opening Procedures**
   A. Chair Duncan called the meeting to order at 3:00 PM at which time the meeting recording was started.
   B. Chair Duncan led the meeting participants in the Pledge of Allegiance.
   C. Samantha Adams, Executive Director (ED) called roll and confirmed that a quorum of all members of the Board were present.
   D. Approval of Agenda.

Motion: Motioned by Director Jorgensen, seconded by Vice Chair Bilyk to approve the Agenda.
Motion carried unanimously by voice vote (5-0-0).

[1] Director Smith departed the meeting at 5:13 pm, just before the start of Agenda Item VI.B – the Technical Consultant Report.
[2] https://borregospringswatermaster.com/past-watermaster-meetings/

Unapproved

II. **Public Correspondence**

A. Correspondence Received. Director Duncan referenced the correspondence included in the agenda package.

B. Public Comments. Chair Duncan called for public comments. There were no public comments.

III. **Consent Calendar.** Chair Duncan called for any discussion on the Consent Calendar items included in the December 5, 2024 agenda package. There were no public or Board comments.

Motion: Motioned by Director Smith, seconded by Director Bennett to approve the Consent Calendar. *Motion carried unanimously by roll-call vote (5-0-0).*

IV. **Closed Session.** The Board of Directors entered a Closed Session at 3:04 PM. The public meeting was reconvened at 3:35 PM. There were no reportable actions from the Closed Session.

V. **Items for Board Consideration and Possible Action**

A. *Redetermination of 2025 Sustainable Yield.* Andy Malone presented the Technical Consultant and Technical Advisory Committee (TAC) recommendations for the redetermination of the 2025 Sustainable Yield. Chair Duncan opened the floor to public comment, followed by Board discussion. Public comment was made by Rich Pinel and David Garmon.

Public questions and comments, including Board and staff response if any, included:

- Why did the Technical Consultant round-down their recommendation (instead of rounding up)? The Technical Consultant reiterated the recommended value is rounded-down from the model-estimated result of the "best" realization towards the average estimate from the 10 realizations in the uncertainty analysis.
- The full range of estimates of Sustainable Yield from the 10 realizations used in the uncertainty analysis should be considered in the redetermination to be consistent with best available science.

The key points of discussion by the Board included:

- The definition of "Sustainable Yield" in the Judgment is: "The maximum quantity of water, calculated over a base period representative of long-term conditions in the Basin that can be cumulatively Pumped on an annual basis from the Basin without causing an Undesirable Result, consistent with SGMA" (Section I.A). Emphasizing that the Judgment states the Sustainable Yield represents the ***maximum*** quantity of water that can be pumped, which supports selection of 7,952 af as opposed to a number that is rounded down.
- Differing opinions as to how the uncertainty analysis factors into Best Available Science given that there is only one "best" version of the model.
- The differences in the Sustainable Yield values recommended by the TAC and Technical Consultant are minimal (52 afy).

Unapproved

- The 2025 Sustainable Yield should be based on the most defensible model realization, which produced a Sustainable Yield of 7,952 afy.
- Significant improvements have been made to the Borrego Valley Hydrologic Model (BVHM) in a short amount of time, and the Watermaster should be proud of the work accomplished.
- Rounding down the Sustainable Yield from 7,952 to 7,900 afy may represent a significant reduction in water over time. Recommendation to consider rounding down to 7,950 afy instead.
- The Technical Consultant is comfortable with and is supportive of any Sustainable Yield value derived from the range from the uncertainty analysis.
- Communication of the redetermined Sustainable Yield should avoid conveying a certain level of precision (*i.e.* to the nearest acre-foot). The communication of the final result should emphasize the range of values from the uncertainty analysis and that Sustainable Yield will be evaluated and redetermined again in five years.

Motion: Motioned by Vice Chair Bilyk, seconded by Director Smith, to approve a 2025 Sustainable Yield of 7,952 afy and, with the requirement to report the range in values from the uncertainty analysis and that another redetermination will occur in five years when communicating the new value. *Motion carried by majority roll-call vote (4-1-0).* Chair Duncan voted noted.

B. Entry Agreement with BWD for Access to the Viking Well. Mr. Malone provided an update on the effort to execute an Entry Agreement with the BWD for access to the Viking Well. At the conclusion of the presentation, Chair Duncan opened the floor to public comment, followed by Board discussion. There was no public comment.

The key points of discussion by the Board included:

- The Board thanked BWD for their efforts to add another well to the monitoring program.

Motion: Motioned by Director Jorgensen, seconded by Vice Chair Bilyk, to execute the Entry Agreement with BWD. *Motion carried unanimously by roll-call vote (5-0-0).*

C. *Scope and Budget for WYs 2026 through 2029 to complete the Redetermination of the 2030 Sustainable Yield.* Mr. Malone described the memo included in the agenda package. At the conclusion of the presentation, Chair Duncan opened the floor to public comment, followed by Board discussion. Public comment was made by Diane Johnson and David Garmon.

Public questions and comments, including Board and staff response if any, included:

- The version of the BVHM to redetermine the 2030 Sustainable Yield will incorporate new historical climate data through WY 2028.
- Appreciation that different types of data may be considered and incorporated into the BVHM to develop the best model. This is a demonstration of best available science.
- Why did the TAC not recommend the task for estimating natural inflows when there has been previous discussion on the importance of inflows to the Basin? Mr. Malone described

Unapproved

that the TAC did not prioritize the task evaluating estimates of natural inflows because there are no feasible means for collecting measurements and alternative methods also have uncertainties. The model is currently well calibrated, which indicates that the current estimates of inflows are reasonable. Therefore, this is not considered a high priority task of the TAC.

The key points of discussion by the Board included:

- The workflow process is useful to understand how the scope may unfold over the next four years.
- Understanding natural inflows is important but monitoring is impractical and expensive under Coyote Creek flow conditions.
- Leaning on the expertise of Director Jorgensen on the need/ability to estimate natural inflows to the Basin, since he has experience and knowledge about Coyote Creek.
- Concern about the cost estimates associated with the Additional/Optional Tasks. Mr. Malone clarified that these are high-level cost estimates that will be refined once the Board approves a scope of work and that costs represent more than just the technical work, such as running the TAC process. Following approval of items to include in the scope, a detailed line-item scope and cost estimate will be prepared prior to proceeding with the task(s).
- Future redeterminations will have more data available to assess Basin responses (*e.g.* groundwater-levels) to reduced pumping under the Rampdown.
- Hope that less work will be needed on the model in future redeterminations because significant improvements were made for the 2025 Sustainable Yield.

No Board action was taken.

D. Analysis of Carryover Rules. ED Adams presented a summary of the memo included in the agenda package. At the conclusion of the presentation, Chair Duncan opened the floor to public comment, followed by Board discussion. Public comment was made by Jim Dax and David Garmon.

Public questions and comments, including Board and staff response if any, included:

- Concern about assuming there are no Undesirable Results through 2040 because the Basin is currently ahead of Rampdown and because 2040 is an arbitrary milestone set by the Department of Water Resources (DWR).
- Do other Basins use Carryover? ED Adams described that in her experience, other Basins use similar mechanisms to store water rights and for future use. Mr. Markman described that mechanisms like Carryover are common in other Basins and described the reasons why they are so important in water rights adjudications.

The key points of discussion by the Board included:

- The draft recommendations are based on the results of the analysis of a subset of Pumpers, not all Parties to the Judgment (*i.e.* Basin as a whole). Recommendation that the analysis

Unapproved

should be of the entire Basin, not just a subset of Parties. Sustainability is not judged against individuals or subset of Parties; it is judged on total pumping and basin-wide conditions.

- Director Smith described the history and rationale of the accelerated Rampdown, which has resulted in less pumping than the initial, approved "straight-line" Rampdown. The analysis of Carryover rules should acknowledge the differences between the initial, linear Rampdown and accelerated Rampdown in the Judgment.
- The analysis should acknowledge how important Carryover is to achieve Rampdown:
    - The Judgment specifies that if Undesirable Results are encountered, Rampdown is adjusted, not Carryover.
    - Pumpers have made financial decisions to remain in the Basin with the expectation that Carryover will be available.

No Board action was taken.

VI. **Reports.**

A. Legal Counsel Report. There are three pending motions of Party intervention to the Judgment, which will be heard in February 2025.

B. Technical Consultant Report. Mr. Malone reported on the items listed in the agenda package memo (see slides 57 through 79 of the Board presentation slides). There were no additional topics discussed. Public comment was made by Diane Johnson.

Public questions and comments, including Board and staff response if any, included:

- Has DWR ever reviewed our technical analysis of storage change in the Basin. ED Adams explained that last year, the DWR began reviewing Annual Reports. Following completion of the WY 2023 Annual Report, Watermaster received a letter confirming that the requirements of the Annual Report were met, and the report was accepted.

Board questions and comments included:

- All work on the conversion of abandoned wells project is on pause until DWR provides guidance on the execution of the Entry Agreements. There are approximately 15 wells that are planned to be converted. Watermaster will make the call to forgo performing the conversion of abandoned wells if no direction from the DWR regarding the Entry Agreements is received by early 2025.
- If the well conversion work cannot be performed due to schedule constraints, other grant-eligible tasks can be performed prior to the end of March 2025 (*i.e.* purchasing additional transducers or performing the spring 2025 semi-annual monitoring event).
- BWD has been in communication with DWR regarding their review of the Entry Agreements and have relayed the urgency in receiving direction to DWR.
- Some of the wells that have planned conversions are already part of the monitoring program. If the conversions are not performed at these wells, these wells can still be

Unapproved

monitored and will remain in the monitoring program, they will just continue to have some maintenance challenges.

C. Executive Director Reports. ED Adams reported on the items listed in the agenda package memo (see slides 80 through 82 of the Board presentation slides). There were no additional topics discussed and there were no Board or public comments.

D. Chairperson's Report. Chair Duncan reported on the following items:

- The Board approved a request for the Technical Consultant to present the redetermined 2025 Sustainable Yield to the Borrego Springs Sponsor Group in January 2025.
- Chair Duncan elaborated on the rational for his opposition to a 2025 Sustainable Yield of 7,952 afy (see Agenda Item V.A). He does not disagree with the redetermined number; however, he noted that the Board again ignored the recommendation of the Technical Consultant and asked the Board to consider why the Board is paying for West Yost's technical advice but ignoring their recommendation.

VII. **Approval of Agenda Items for December 19, 2024 Special Board Meeting.** ED Adams reviewed the potential agenda items for the next Board meetings listed in the agenda package. The Board discussed items to be included on the December 19, 2024 Special Board meeting agenda, in addition to items listed in the Agenda package. Discussion included:

- Requests to add the following items for consideration on the January 2025 agenda:
  - Update from Travis Huxman of UCI on the Groundwater Dependent Ecosystem project
  - Land IQ Presentation of Biological Restoration Project results to date
- ED Adams updated the proposed Agenda for the December 19, 2024 Special Board meeting on the meeting screen based on discussion, noting it now includes the following items:
  - Consideration of Approval for Scope and Budget for the Redetermination of the Sustainable Yield by 2030
  - Consideration of Approval of Carryover Analysis Findings
  - Consideration of Approval of WY 2025 Budget Amendment to Carry Forward Unspent Budget from WY 2024 for certain Grant-funded work
  - DWR Review of 2020 GMP (if available)

Motion: Motioned by Vice Chair Bilyk seconded by Director Jorgensen, to approve the December 19, 2024 Special Board meeting agenda presented. *Motion carried by majority roll-call vote (4-0-0).* Director Smith was absent.

VIII. **Board Member Comments.** Chair Duncan called for comments.

- Vice Chair Bilyk thanked everyone for their hard work, for meeting deadlines, and encouraged everyone to keep up the energy through the new year.

Unapproved

IX. **Next Meetings of the Borrego Springs Watermaster.** Chair Duncan reviewed the meetings listed in the agenda package.

X. **Adjournment**
   A. Chair Duncan adjourned the meeting at 5:44 PM.

Recorded by:
Lauren Salberg, Staff Geologist, West Yost

Attest:
Shannon Smith, Secretary and Treasurer of the Board

Unapproved

12:13 PM

12/10/24

Accrual Basis

Borrego Springs Watermaster
Profit & Loss for Fiscal Year 2024-2025
October through November 2024

	Oct 24	Nov 24	TOTAL
Ordinary Income/Expense			
Income			
DWR Grant Reimbursement t	0.00	408,323.49	408,323.49
Pumping Assessment	(824.30)	164,335.46	163,511.16
WY 2024 - Expected Grant Reimb v	0.00	(408,323.49)	(408,323.49)
WY 2025 - Expected Grant Reimb	136,962.85	49,880.97	186,843.82
Total Income	136,138.55	214,216.43	350,354.98
Expense			
Consult Serv Land IQ-Grant Reim **	40,541.61	22,282.97	62,824.58
Consult Serv WY-Grant Reim **	96,421.24	27,598.00	124,019.24
Consulting Services *	27,124.75	27,751.35	54,876.10
Consulting Services- Meter Read	517.50	(155.25)	362.25
Insurance	3,579.54	3,579.54	7,159.08
Interest Expense	5,897.50	5,972.34	11,869.84
Legal	4,500.00	4,865.00	9,365.00
Reimbursed to BWD for GSP	0.60	0.00	0.60
Total Expense	178,582.74	91,893.95	270,476.69
Net Ordinary Income	(42,444.19)	122,322.48	79,878.29
Net Income	**(42,444.19)**	**122,322.48**	**79,878.29**

* Represents Consulting services by West Yost that are not grant reimbursable.

** Represents expenses that can be reimbursed with grant funding from DWR.

t Reflects actual reimbursement received from DWR.

v Reflects reversal of estimated reimbursement amounts in prior WYs.

12:05 PM
12/10/24
Accrual Basis

Borrego Springs Watermaster
Balance Sheet for Fiscal Year 2024-2025
As of November 30, 2024

	Nov 30, 24
ASSETS	
Current Assets	
Checking/Savings	
US Bank	725,454.85
Total Checking/Savings	725,454.85
Accounts Receivable	
Accounts Receivable	179,919.10
Total Accounts Receivable	179,919.10
Other Current Assets	
Accrued Grant Reimburse 2024	535,775.03
Accrued Grant Reimburse 2025	186,843.82
Prepaid Expenses	21,477.20
Total Other Current Assets	744,096.05
Total Current Assets	1,649,470.00
TOTAL ASSETS	**1,649,470.00**
LIABILITIES & EQUITY	
Liabilities	
Current Liabilities	
Accounts Payable	
Accounts Payable	354,857.84
Total Accounts Payable	354,857.84
Other Current Liabilities	
Accrued Payables	101,817.42
Total Other Current Liabilities	101,817.42
Total Current Liabilities	456,675.26
Total Liabilities	456,675.26
Equity	
Retained Earnings	1,112,916.45
Net Income	79,878.29
Total Equity	1,192,794.74
TOTAL LIABILITIES & EQUITY	**1,649,470.00**

12:11 PM

12/10/24

Accrual Basis

Borrego Springs Watermaster
Expense Distribution Detail
November 2024

Type	Date	Num	Memo	Account	Amount
Land IQ, LLC					
General Journal	11/01/2024	82R	Land IQ Estimate for October 1, 2024 to October 31, 2024	Consult Serv Land IQ-Grant Reim	(40,541.61)
Bill	11/30/2024	LandIQ Int Nov24 Est	November 2024 Estimated Interest	Interest Expense	1,330.28
Bill	11/30/2024	6353	Services from October 1, 2024 to October 31, 2024	Consult Serv Land IQ-Grant Reim	40,790.41
Bill	11/30/2024	LandIQ Int Nov24	November 2024 Final Interest, Including Payments	Interest Expense	184.30
General Journal	11/30/2024	85	Land IQ Estimate for November 1, 2024 to November 30, 2024	Consult Serv Land IQ-Grant Reim	22,034.17
Total Land IQ, LLC					23,797.55
RWG Law					
General Journal	11/01/2024	82R	RWG Estimate for October 1, 2024 to October 31, 2024	Legal	(4,500.00)
Bill	11/12/2024	250363	Services rendered through October 31, 2024	Legal	6,055.00
Bill	11/30/2024	250865	Services rendered through November 30, 2024	Legal	3,310.00
Total RWG Law					4,865.00
West Yost & Associates					
General Journal	11/01/2024	82R	WY Estimate for October 1, 2024 to October 31, 2024	Consulting Services	(27,124.75)
General Journal	11/01/2024	82R	WY Estimate for October 1, 2024 to October 31, 2024	Consulting Services- Meter Read	(517.50)
General Journal	11/01/2024	82R	WY Estimate for October 1, 2024 to October 31, 2024	Consult Serv WY-Grant Reim	(96,421.24)
Bill	11/30/2024	Interest Nov24 Est	November 2024 Estimated Interest	Interest Expense	4,051.35
Bill	11/30/2024	2060589	West Yost Consulting Services October 1, 2024 to October 31, 2024	Consulting Services	28,939.60
Bill	11/30/2024	2060589	West Yost Consulting Services October 1, 2024 to October 31, 2024	Consulting Services- Meter Read	207.00
Bill	11/30/2024	2060590	West Yost Consulting Services October 1, 2024 to October 31, 2024	Consult Serv WY-Grant Reim	64,900.50
Bill	11/30/2024	2060590	West Yost Vendor Portion – Well Tec Services	Consult Serv WY-Grant Reim	2,760.00
Bill	11/30/2024	2060590	West Yost Vendor Portion – In-Situ	Consult Serv WY-Grant Reim	2,019.74
Bill	11/30/2024	2060591	West Yost Consulting Services October 1, 2024 to October 31, 2024	Consult Serv WY-Grant Reim	647.50
Bill	11/30/2024	Interest Nov24 Final	November 2024 Final Interest, Including Payments	Interest Expense	406.41
General Journal	11/30/2024	85	WY Estimate for November 1, 2024 to November 30, 2024	Consulting Services	25,936.50
General Journal	11/30/2024	85	WY Estimate for November 1, 2024 to November 30, 2024	Consulting Services- Meter Read	155.25
General Journal	11/30/2024	85	WY Estimate for November 1, 2024 to November 30, 2024	Consult Serv WY-Grant Reim	53,691.50
Total West Yost & Associates					59,651.86
TOTAL					**88,314.41**

Borrego Springs Watermaster

Register: US Bank
From 11/01/2024 through 11/30/2024
Sorted by: Date, Type, Number/Ref

Date	Number	Payee	Account	Memo	Payment	C	Deposit	Balance
11/6/2024	2169	Land IQ, LLC	Accounts Payable		1,715.87	X		750,471.11
11/6/2024	2170	RWG Law	Accounts Payable		13,546.00	X		736,925.11
11/6/2024	2171	West Yost & Associates	Accounts Payable		85,000.00	X		651,925.11
11/20/2024			DWR Grant Reimbursement	Deposit		X	408,323.49	1,060,248.60
11/25/2024	2172	Land IQ, LLC	Accounts Payable		31,090.97			1,029,157.63
11/25/2024	2173	RWG Law	Accounts Payable	Services rendered through October 31, 2024	6,055.00			1,023,102.63
11/25/2024	2174	West Yost & Associates	Accounts Payable		297,647.78			725,454.85

West Yost Associates
2020 Research Park Drive, Suite 100
Davis, CA 95618

To: Borrego Springs Watermaster
c/o West Yost Associates
25 Edelman, Suite 120
Irvine, CA 92618

Interest Schedule: 11/30/2024

Invoice No.	Invoice Date / Payment Date	Invoice Amount	Prime Rate (Plus 2%)	Interest Charge	Starting Balance	Ending Balance
2057697	2/29/2024	$ 34,663.75				$ 34,663.75
	3/31/2024		10.50%	$ 309.12	$ 34,663.75	$ 34,972.87
	4/23/2024	$ (301.82)	10.50%	$ 231.40	$ 34,671.05	$ 34,902.45
	4/30/2024		10.50%	$ 70.28	$ 34,902.45	$ 34,972.73
	5/29/2024	$ (311.88)	10.50%	$ 291.76	$ 34,660.85	$ 34,952.61
	5/31/2024		10.50%	$ 20.11	$ 34,952.61	$ 34,972.72
	6/27/2024	$ (301.82)	10.50%	$ 271.64	$ 34,670.90	$ 34,942.54
	6/30/2024		10.50%	$ 30.16	$ 34,942.54	$ 34,972.70
	7/25/2024	$ (311.88)	10.50%	$ 251.52	$ 34,660.82	$ 34,912.33
	7/31/2024		10.50%	$ 60.26	$ 34,912.33	$ 34,972.59
	8/22/2024	$ (312.45)	10.50%	$ 221.33	$ 34,660.14	$ 34,881.47
	8/31/2024		10.50%	$ 90.31	$ 34,881.47	$ 34,971.78
	9/18/2024	$ (302.44)	10.50%	$ 181.09	$ 34,669.35	$ 34,850.43
	9/30/2024		10.50%	$ 120.31	$ 34,850.43	$ 34,970.74
	10/28/2024	$ (6,923.22)	10.00%	$ 268.27	$ 28,047.52	$ 28,315.79
	10/31/2024		10.00%	$ 23.27	$ 28,315.79	$ 28,339.06
	11/12/2024	$ (28,432.23)	10.00%	$ 93.17	$ (93.17)	$ 0.00
2057698	2/29/2024	$ 1,206.25				$ 1,206.25
	3/31/2024		10.50%	$ 10.76	$ 1,206.25	$ 1,217.01
	4/23/2024	$ (10.50)	10.50%	$ 8.05	$ 1,206.51	$ 1,214.56
	4/30/2024		10.50%	$ 2.45	$ 1,214.56	$ 1,217.01
	5/29/2024	$ (10.85)	10.50%	$ 10.15	$ 1,206.16	$ 1,216.31
	5/31/2024		10.50%	$ 0.70	$ 1,216.31	$ 1,217.01
	6/27/2024	$ (10.50)	10.50%	$ 9.45	$ 1,206.51	$ 1,215.96
	6/30/2024		10.50%	$ 1.05	$ 1,215.96	$ 1,217.01
	7/25/2024	$ (10.85)	10.50%	$ 8.75	$ 1,206.16	$ 1,214.91
	7/31/2024		10.50%	$ 2.10	$ 1,214.91	$ 1,217.01
	8/22/2024	$ (10.87)	10.50%	$ 7.70	$ 1,206.14	$ 1,213.84
	8/31/2024		10.50%	$ 3.14	$ 1,213.84	$ 1,216.98
	9/18/2024	$ (10.52)	10.50%	$ 6.30	$ 1,206.46	$ 1,212.76
	9/30/2024		10.50%	$ 4.19	$ 1,212.76	$ 1,216.95
	10/28/2024	$ (10.85)	10.00%	$ 9.34	$ 1,206.10	$ 1,215.43
	10/31/2024		10.00%	$ 1.00	$ 1,215.43	$ 1,216.43
	11/12/2024	$ (1,220.43)	10.00%	$ 4.00	$ (4.00)	$ 0.00

West Yost Associates
2020 Research Park Drive, Suite 100
Davis, CA 95618

To: Borrego Springs Watermaster
c/o West Yost Associates
25 Edelman, Suite 120
Irvine, CA 92618

Interest Schedule: 11/30/2024

Invoice No.	Invoice Date / Payment Date	Invoice Amount	Prime Rate (Plus 2%)	Interest Charge	Starting Balance	Ending Balance
2057887	3/31/2024	$ 13,622.25				$ 13,622.25
	4/30/2024		10.50%	$ 117.56	$ 13,622.25	$ 13,739.81
	5/29/2024	$ (240.09)	10.50%	$ 114.62	$ 13,499.72	$ 13,614.35
	5/31/2024		10.50%	$ 7.83	$ 13,614.35	$ 13,622.18
	6/27/2024	$ (117.56)	10.50%	$ 105.81	$ 13,504.62	$ 13,610.42
	6/30/2024		10.50%	$ 11.75	$ 13,610.42	$ 13,622.17
	7/25/2024	$ (121.48)	10.50%	$ 97.97	$ 13,500.69	$ 13,598.66
	7/31/2024		10.50%	$ 23.47	$ 13,598.66	$ 13,622.13
	8/22/2024	$ (121.70)	10.50%	$ 86.21	$ 13,500.43	$ 13,586.64
	8/31/2024		10.50%	$ 35.18	$ 13,586.64	$ 13,621.82
	9/18/2024	$ (117.80)	10.50%	$ 70.53	$ 13,504.02	$ 13,574.55
	9/30/2024		10.50%	$ 46.86	$ 13,574.55	$ 13,621.41
	10/28/2024	$ (121.47)	10.00%	$ 104.49	$ 13,499.94	$ 13,604.43
	10/31/2024		10.00%	$ 11.18	$ 13,604.43	$ 13,615.61
	11/12/2024	$ (13,660.38)	10.00%	$ 44.76	$ (44.77)	$ (0.00)
2057889	3/31/2024	$ 33,872.75				$ 33,872.75
	4/30/2024		10.50%	$ 292.33	$ 33,872.75	$ 34,165.08
	5/29/2024	$ (292.33)	10.50%	$ 285.02	$ 33,872.75	$ 34,157.77
	5/31/2024		10.50%	$ 19.65	$ 34,157.77	$ 34,177.42
	6/27/2024	$ (294.96)	10.50%	$ 265.46	$ 33,882.46	$ 34,147.92
	6/30/2024		10.50%	$ 29.47	$ 34,147.92	$ 34,177.39
	7/25/2024	$ (304.79)	10.50%	$ 245.80	$ 33,872.60	$ 34,118.40
	7/31/2024		10.50%	$ 58.89	$ 34,118.40	$ 34,177.29
	8/22/2024	$ (305.35)	10.50%	$ 216.30	$ 33,871.94	$ 34,088.24
	8/31/2024		10.50%	$ 88.26	$ 34,088.24	$ 34,176.49
	9/18/2024	$ (295.56)	10.50%	$ 176.97	$ 33,880.93	$ 34,057.90
	9/30/2024		10.50%	$ 117.57	$ 34,057.90	$ 34,175.47
	10/28/2024	$ (304.77)	10.00%	$ 262.17	$ 33,870.70	$ 34,132.87
	10/31/2024		10.00%	$ 28.05	$ 34,132.87	$ 34,160.92
	11/12/2024	$ (34,273.23)	10.00%	$ 112.31	$ (112.31)	$ 0.00

West Yost Associates
2020 Research Park Drive, Suite 100
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To: Borrego Springs Watermaster
c/o West Yost Associates
25 Edelman, Suite 120
Irvine, CA 92618

Interest Schedule: 11/30/2024

Invoice No.	Invoice Date / Payment Date	Invoice Amount	Prime Rate (Plus 2%)	Interest Charge	Starting Balance	Ending Balance
2057890	3/31/2024	$ 497.25				$ 497.25
	4/30/2024		10.50%	$ 4.29	$ 497.25	$ 501.54
	5/29/2024	$ (8.76)	10.50%	$ 4.18	$ 492.78	$ 496.97
	5/31/2024		10.50%	$ 0.29	$ 496.97	$ 497.25
	6/27/2024	$ (4.29)	10.50%	$ 3.86	$ 492.96	$ 496.82
	6/30/2024		10.50%	$ 0.43	$ 496.82	$ 497.25
	7/25/2024	$ (4.43)	10.50%	$ 3.58	$ 492.82	$ 496.40
	7/31/2024		10.50%	$ 0.86	$ 496.40	$ 497.26
	8/22/2024	$ (4.44)	10.50%	$ 3.15	$ 492.82	$ 495.96
	8/31/2024		10.50%	$ 1.28	$ 495.96	$ 497.25
	9/18/2024	$ (4.30)	10.50%	$ 2.57	$ 492.95	$ 495.52
	9/30/2024		10.50%	$ 1.71	$ 495.52	$ 497.23
	10/28/2024	$ (4.43)	10.00%	$ 3.81	$ 492.80	$ 496.62
	10/31/2024		10.00%	$ 0.41	$ 496.62	$ 497.02
	11/12/2024	$ (498.66)	10.00%	$ 1.63	$ (1.64)	$ (0.00)
2058293	4/30/2024	$ 15,946.34				$ 15,946.34
	5/31/2024		10.50%	$ 142.21	$ 15,946.34	$ 16,088.55
	6/27/2024	$ (281.05)	10.50%	$ 124.96	$ 15,807.50	$ 15,932.46
	6/30/2024		10.50%	$ 13.75	$ 15,932.46	$ 15,946.21
	7/25/2024	$ (142.21)	10.50%	$ 114.68	$ 15,804.00	$ 15,918.68
	7/31/2024		10.50%	$ 27.48	$ 15,918.68	$ 15,946.16
	8/22/2024	$ (142.47)	10.50%	$ 100.92	$ 15,803.69	$ 15,904.61
	8/31/2024		10.50%	$ 41.18	$ 15,904.61	$ 15,945.78
	9/18/2024	$ (137.90)	10.50%	$ 82.57	$ 15,807.88	$ 15,890.45
	9/30/2024		10.50%	$ 54.85	$ 15,890.45	$ 15,945.31
	10/28/2024	$ (142.20)	10.00%	$ 122.32	$ 15,803.11	$ 15,925.43
	10/31/2024		10.00%	$ 13.09	$ 15,925.43	$ 15,938.52
	11/12/2024	$ (3,120.70)	10.00%	$ 52.40	$ 12,817.82	$ 12,870.22
	11/30/2024		10.00%	$ 63.47	$ 12,870.22	$ 12,933.69

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Interest Schedule: 11/30/2024

Invoice No.	Invoice Date / Payment Date	Invoice Amount	Prime Rate (Plus 2%)	Interest Charge	Starting Balance	Ending Balance
2058295	4/30/2024	$ 61,579.14				$ 61,579.14
	5/31/2024		10.50%	$ 549.15	$ 61,579.14	$ 62,128.29
	6/27/2024	$ (10,881.33)	10.50%	$ 482.56	$ 51,246.96	$ 51,729.52
	6/30/2024		10.50%	$ 44.64	$ 51,729.52	$ 51,774.16
	7/25/2024	$ (461.71)	10.50%	$ 372.35	$ 51,312.45	$ 51,684.80
	7/31/2024		10.50%	$ 89.21	$ 51,684.80	$ 51,774.01
	8/22/2024	$ (462.56)	10.50%	$ 327.67	$ 51,311.45	$ 51,639.12
	8/31/2024		10.50%	$ 133.70	$ 51,639.12	$ 51,772.81
	9/18/2024	$ (447.73)	10.50%	$ 268.08	$ 51,325.08	$ 51,593.16
	9/30/2024		10.50%	$ 178.10	$ 51,593.16	$ 51,771.27
	10/28/2024	$ (461.69)	10.00%	$ 397.15	$ 51,309.58	$ 51,706.73
	10/31/2024		10.00%	$ 42.50	$ 51,706.73	$ 51,749.22
	11/12/2024	$ (425.34)	10.00%	$ 170.13	$ 51,323.88	$ 51,494.02
	11/30/2024		10.00%	$ 253.94	$ 51,494.02	$ 51,747.96
2058297	4/30/2024	$ 1,400.50				$ 1,400.50
	5/31/2024		10.50%	$ 12.49	$ 1,400.50	$ 1,412.99
	6/27/2024	$ (24.68)	10.50%	$ 10.97	$ 1,388.31	$ 1,399.28
	6/30/2024		10.50%	$ 1.21	$ 1,399.28	$ 1,400.49
	7/25/2024	$ (12.49)	10.50%	$ 10.07	$ 1,388.00	$ 1,398.07
	7/31/2024		10.50%	$ 2.41	$ 1,398.07	$ 1,400.49
	8/22/2024	$ (12.51)	10.50%	$ 8.86	$ 1,387.98	$ 1,396.84
	8/31/2024		10.50%	$ 3.62	$ 1,396.84	$ 1,400.46
	9/18/2024	$ (12.11)	10.50%	$ 7.25	$ 1,388.35	$ 1,395.60
	9/30/2024		10.50%	$ 4.82	$ 1,395.60	$ 1,400.42
	10/28/2024	$ (12.49)	10.00%	$ 10.74	$ 1,387.93	$ 1,398.67
	10/31/2024		10.00%	$ 1.15	$ 1,398.67	$ 1,399.82
	11/12/2024	$ (11.51)	10.00%	$ 4.60	$ 1,388.31	$ 1,392.91
	11/30/2024		10.00%	$ 6.87	$ 1,392.91	$ 1,399.78

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Invoice No.	Invoice Date / Payment Date	Invoice Amount	Prime Rate (Plus 2%)	Interest Charge	Starting Balance	Ending Balance
2058657	5/31/2024	$ 23,170.01				$ 23,170.01
	6/30/2024		10.50%	$ 199.96	$ 23,170.01	$ 23,369.97
	7/25/2024	$ (408.37)	10.50%	$ 168.07	$ 22,961.60	$ 23,129.67
	7/31/2024		10.50%	$ 39.92	$ 23,129.67	$ 23,169.59
	8/22/2024	$ (207.00)	10.50%	$ 146.63	$ 22,962.59	$ 23,109.23
	8/31/2024		10.50%	$ 59.83	$ 23,109.23	$ 23,169.06
	9/18/2024	$ (200.37)	10.50%	$ 119.97	$ 22,968.69	$ 23,088.67
	9/30/2024		10.50%	$ 79.70	$ 23,088.67	$ 23,168.37
	10/28/2024	$ (206.61)	10.00%	$ 177.73	$ 22,961.76	$ 23,139.49
	10/31/2024		10.00%	$ 19.02	$ 23,139.49	$ 23,158.51
	11/12/2024	$ (190.34)	10.00%	$ 76.14	$ 22,968.17	$ 23,044.30
	11/30/2024		10.00%	$ 113.64	$ 23,044.30	$ 23,157.95
2058658	5/31/2024	$ 65,688.00				$ 65,688.00
	6/30/2024		10.50%	$ 566.90	$ 65,688.00	$ 66,254.90
	7/25/2024	$ (1,157.75)	10.50%	$ 476.49	$ 65,097.15	$ 65,573.64
	7/31/2024		10.50%	$ 113.18	$ 65,573.64	$ 65,686.82
	8/22/2024	$ (586.86)	10.50%	$ 415.72	$ 65,099.96	$ 65,515.68
	8/31/2024		10.50%	$ 169.62	$ 65,515.68	$ 65,685.30
	9/18/2024	$ (568.05)	10.50%	$ 340.12	$ 65,117.25	$ 65,457.38
	9/30/2024		10.50%	$ 225.96	$ 65,457.38	$ 65,683.34
	10/28/2024	$ (585.75)	10.00%	$ 503.87	$ 65,097.59	$ 65,601.46
	10/31/2024		10.00%	$ 53.92	$ 65,601.46	$ 65,655.38
	11/12/2024	$ (539.63)	10.00%	$ 215.85	$ 65,115.75	$ 65,331.60
	11/30/2024		10.00%	$ 322.18	$ 65,331.60	$ 65,653.79
2058659	5/31/2024	$ 371.25				$ 371.25
	6/30/2024		10.50%	$ 3.20	$ 371.25	$ 374.45
	7/25/2024	$ (6.54)	10.50%	$ 2.69	$ 367.91	$ 370.61
	7/31/2024		10.50%	$ 0.64	$ 370.61	$ 371.25
	8/22/2024	$ (3.32)	10.50%	$ 2.35	$ 367.93	$ 370.28
	8/31/2024		10.50%	$ 0.96	$ 370.28	$ 371.23
	9/18/2024	$ (3.21)	10.50%	$ 1.92	$ 368.02	$ 369.95
	9/30/2024		10.50%	$ 1.28	$ 369.95	$ 371.22
	10/28/2024	$ (3.31)	10.00%	$ 2.85	$ 367.91	$ 370.76
	10/31/2024		10.00%	$ 0.30	$ 370.76	$ 371.07
	11/12/2024	$ (3.05)	10.00%	$ 1.22	$ 368.02	$ 369.24
	11/30/2024		10.00%	$ 1.82	$ 369.24	$ 371.06

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Interest Schedule: 11/30/2024

Invoice No.	Invoice Date / Payment Date	Invoice Amount	Prime Rate (Plus 2%)	Interest Charge	Starting Balance	Ending Balance
2059257	6/30/2024	$ 11,982.96				$ 11,982.96
	7/31/2024		10.50%	$ 106.86	$ 11,982.96	$ 12,089.82
	8/22/2024	$ (214.87)	10.50%	$ 76.51	$ 11,874.95	$ 11,951.47
	8/31/2024		10.50%	$ 30.94	$ 11,951.47	$ 11,982.41
	9/18/2024	$ (103.62)	10.50%	$ 62.05	$ 11,878.78	$ 11,940.83
	9/30/2024		10.50%	$ 41.22	$ 11,940.83	$ 11,982.05
	10/28/2024	$ (106.85)	10.00%	$ 91.92	$ 11,875.20	$ 11,967.12
	10/31/2024		10.00%	$ 9.84	$ 11,967.12	$ 11,976.95
	11/12/2024	$ (98.44)	10.00%	$ 39.38	$ 11,878.51	$ 11,917.89
	11/30/2024		10.00%	$ 58.77	$ 11,917.89	$ 11,976.66
2059258	6/30/2024	$ 51,785.75				$ 51,785.75
	7/31/2024		10.50%	$ 461.82	$ 51,785.75	$ 52,247.57
	8/22/2024	$ (887.47)	10.50%	$ 330.66	$ 51,360.10	$ 51,690.76
	8/31/2024		10.50%	$ 133.83	$ 51,690.76	$ 51,824.59
	9/18/2024	$ (448.18)	10.50%	$ 268.35	$ 51,376.41	$ 51,644.76
	9/30/2024		10.50%	$ 178.28	$ 51,644.76	$ 51,823.04
	10/28/2024	$ (462.15)	10.00%	$ 397.55	$ 51,360.89	$ 51,758.44
	10/31/2024		10.00%	$ 42.54	$ 51,758.44	$ 51,800.98
	11/12/2024	$ (425.76)	10.00%	$ 170.30	$ 51,375.22	$ 51,545.52
	11/30/2024		10.00%	$ 254.20	$ 51,545.52	$ 51,799.72
2059259	6/30/2024	$ 1,303.50				$ 1,303.50
	7/31/2024		10.50%	$ 11.62	$ 1,303.50	$ 1,315.12
	8/22/2024	$ (23.37)	10.50%	$ 8.32	$ 1,291.75	$ 1,300.08
	8/31/2024		10.50%	$ 3.37	$ 1,300.08	$ 1,303.44
	9/18/2024	$ (11.27)	10.50%	$ 6.75	$ 1,292.17	$ 1,298.92
	9/30/2024		10.50%	$ 4.48	$ 1,298.92	$ 1,303.40
	10/28/2024	$ (11.62)	10.00%	$ 10.00	$ 1,291.78	$ 1,301.78
	10/31/2024		10.00%	$ 1.07	$ 1,301.78	$ 1,302.85
	11/12/2024	$ (10.71)	10.00%	$ 4.28	$ 1,292.14	$ 1,296.43
	11/30/2024		10.00%	$ 6.39	$ 1,296.43	$ 1,302.82

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Invoice No.	Invoice Date / Payment Date	Invoice Amount	Prime Rate (Plus 2%)	Interest Charge	Starting Balance	Ending Balance
2059433	7/31/2024	$ 10,857.50				$ 10,857.50
	8/31/2024		10.50%	$ 96.83	$ 10,857.50	$ 10,954.33
	9/18/2024	$ (191.56)	10.50%	$ 56.72	$ 10,762.77	$ 10,819.49
	9/30/2024		10.50%	$ 37.35	$ 10,819.49	$ 10,856.84
	10/28/2024	$ (96.82)	10.00%	$ 83.29	$ 10,760.02	$ 10,843.30
	10/31/2024		10.00%	$ 8.91	$ 10,843.30	$ 10,852.22
	11/12/2024	$ (89.20)	10.00%	$ 35.68	$ 10,763.02	$ 10,798.69
	11/30/2024		10.00%	$ 53.25	$ 10,798.69	$ 10,851.95
2059434	7/31/2024	$ 62,849.85				$ 62,849.85
	8/31/2024		10.50%	$ 560.48	$ 62,849.85	$ 63,410.33
	9/18/2024	$ (1,108.86)	10.50%	$ 328.34	$ 62,301.48	$ 62,629.82
	9/30/2024		10.50%	$ 216.20	$ 62,629.82	$ 62,846.02
	10/28/2024	$ (560.45)	10.00%	$ 482.11	$ 62,285.57	$ 62,767.68
	10/31/2024		10.00%	$ 51.59	$ 62,767.68	$ 62,819.27
	11/12/2024	$ (516.32)	10.00%	$ 206.53	$ 62,302.95	$ 62,509.48
	11/30/2024		10.00%	$ 308.27	$ 62,509.48	$ 62,817.74
2059435	7/31/2024	$ 3,254.00				$ 3,254.00
	8/31/2024		10.50%	$ 29.02	$ 3,254.00	$ 3,283.02
	9/18/2024	$ (57.41)	10.50%	$ 17.00	$ 3,225.61	$ 3,242.61
	9/30/2024		10.50%	$ 11.19	$ 3,242.61	$ 3,253.80
	10/28/2024	$ (29.02)	10.00%	$ 24.96	$ 3,224.78	$ 3,249.74
	10/31/2024		10.00%	$ 2.67	$ 3,249.74	$ 3,252.41
	11/12/2024	$ (26.73)	10.00%	$ 10.69	$ 3,225.68	$ 3,236.38
	11/30/2024		10.00%	$ 15.96	$ 3,236.38	$ 3,252.34
2059872	8/31/2024	$ 11,546.50				$ 11,546.50
	9/30/2024		10.50%	$ 99.65	$ 11,546.50	$ 11,646.15
	10/28/2024	$ (203.51)	10.00%	$ 89.34	$ 11,442.64	$ 11,531.98
	10/31/2024		10.00%	$ 9.48	$ 11,531.98	$ 11,541.46
	11/12/2024	$ (94.86)	10.00%	$ 37.94	$ 11,446.60	$ 11,484.54
	11/30/2024		10.00%	$ 56.64	$ 11,484.54	$ 11,541.18

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Invoice No.	Invoice Date / Payment Date	Invoice Amount	Prime Rate (Plus 2%)	Interest Charge	Starting Balance	Ending Balance
2059873	8/31/2024	$ 42,064.50				$ 42,064.50
	9/30/2024		10.50%	$ 363.02	$ 42,064.50	$ 42,427.52
	10/28/2024	$ (741.38)	10.00%	$ 325.47	$ 41,686.14	$ 42,011.61
	10/31/2024		10.00%	$ 34.53	$ 42,011.61	$ 42,046.14
	11/12/2024	$ (345.58)	10.00%	$ 138.23	$ 41,700.56	$ 41,838.80
	11/30/2024		10.00%	$ 206.33	$ 41,838.80	$ 42,045.13
2059874	8/31/2024	$ 221.00				$ 221.00
	9/30/2024		10.50%	$ 1.91	$ 221.00	$ 222.91
	10/28/2024	$ (3.90)	10.00%	$ 1.71	$ 219.01	$ 220.72
	10/31/2024		10.00%	$ 0.18	$ 220.72	$ 220.90
	11/12/2024	$ (1.82)	10.00%	$ 0.73	$ 219.08	$ 219.80
	11/30/2024		10.00%	$ 1.08	$ 219.80	$ 220.89
2060199	9/30/2024	$ 17,084.00				$ 17,084.00
	10/31/2024		10.00%	$ 145.10	$ 17,084.00	$ 17,229.10
	11/12/2024	$ (286.71)	10.00%	$ 56.64	$ 16,942.39	$ 16,999.03
	11/30/2024		10.00%	$ 83.83	$ 16,999.03	$ 17,082.86
2060200	9/30/2024	$ 43,078.25				$ 43,078.25
	10/31/2024		10.00%	$ 365.87	$ 43,078.25	$ 43,444.12
	11/12/2024	$ (722.94)	10.00%	$ 142.83	$ 42,721.18	$ 42,864.01
	11/30/2024		10.00%	$ 211.38	$ 42,864.01	$ 43,075.39
2060201	9/30/2024	$ 323.75				$ 323.75
	10/31/2024		10.00%	$ 2.75	$ 323.75	$ 326.50
	11/12/2024	$ (5.43)	10.00%	$ 1.07	$ 321.07	$ 322.14
	11/30/2024		10.00%	$ 1.59	$ 322.14	$ 323.73
2060589	10/31/2024	$ 29,146.60				$ 29,146.60
	11/30/2024		10.00%	$ 239.56	$ 29,146.60	$ 29,386.16

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Invoice No.	Invoice Date / Payment Date	Invoice Amount	Prime Rate (Plus 2%)	Interest Charge	Starting Balance	Ending Balance
2060590	10/31/2024	$ 69,680.24				$ 69,680.24
	11/30/2024		10.00%	$ 572.71	$ 69,680.24	$ 70,252.95
2060591	10/31/2024	$ 647.50				$ 647.50
	11/30/2024		10.00%	$ 5.32	$ 647.50	$ 652.82

Total Invoices (Less Pymts)	**$ 488,499.85**	
Current Month Interest (*Estimated*)		**$ 4,051.35**
Current Month Interest (*Final, including payments*)		**$ 4,457.76**
Prior Month Interest Adjustment		**$ -**
Adjusted Monthly Interest		**$ 406.41**
Total Interest Charges		**$ 23,346.72**
Grand Total		**$ 511,846.53**

Land IQ
2020 L St, Suite 210
Sacramento, CA 95811

To: Borrego Springs Watermaster
c/o West Yost Associates
25 Edelman, Suite 120
Irvine, CA 92618

Interest Schedule: 11/30/2024

Invoice No.	Invoice Date / Payment Date	Invoice Amount	Prime Rate (Plus 2%)	Interest Charge	Starting Balance	Ending Balance
6123	6/30/2024	$ 29,470.01				$ 29,470.01
	7/31/2024		10.50%	$ 262.81	$ 29,470.01	$ 29,732.82
	8/28/2024	$ (559.72)	10.50%	$ 239.49	$ 29,173.10	$ 29,412.59
	8/31/2024	$ -	10.50%	$ 25.38	$ 29,412.59	$ 29,437.97
	9/30/2024	$ (13,876.02)	10.50%	$ 254.05	$ 15,561.95	$ 15,816.01
	10/31/2024		10.00%	$ 134.33	$ 15,816.01	$ 15,950.33
	11/14/2024	$ (16,011.51)	10.00%	$ 61.18	$ (61.18)	$ 0.00
6189	7/31/2024	$ 37,799.66				$ 37,799.66
	8/31/2024		10.50%	$ 337.09	$ 37,799.66	$ 38,136.75
	9/30/2024	$ (647.27)	10.50%	$ 329.13	$ 37,489.48	$ 37,818.61
	10/31/2024		10.00%	$ 321.20	$ 37,818.61	$ 38,139.80
	11/14/2024	$ (17,080.98)	10.00%	$ 146.29	$ 21,058.82	$ 21,205.11
	11/19/2024	$ (830.17)	10.00%	$ 29.05	$ 20,374.94	$ 20,403.99
	11/30/2024		10.00%	$ 61.49	$ 20,403.99	$ 20,465.48
6244	8/31/2024	$ 55,493.54				$ 55,493.54
	9/30/2024		10.50%	$ 478.92	$ 55,493.54	$ 55,972.46
	10/31/2024		10.00%	$ 475.38	$ 55,972.46	$ 56,447.84
	11/14/2024	$ (475.38)	10.00%	$ 216.51	$ 55,972.46	$ 56,188.97
	11/19/2024	$ (463.95)	10.00%	$ 76.97	$ 55,725.02	$ 55,801.99
	11/30/2024		10.00%	$ 168.17	$ 55,801.99	$ 55,970.16
6290	9/30/2024	$ 50,880.24				$ 50,880.24
	10/31/2024		10.00%	$ 432.13	$ 50,880.24	$ 51,312.37
	11/14/2024	$ (432.13)	10.00%	$ 196.81	$ 50,880.24	$ 51,077.06
	11/19/2024	$ (421.75)	10.00%	$ 69.97	$ 50,655.31	$ 50,725.28
	11/30/2024		10.00%	$ 152.87	$ 50,725.28	$ 50,878.15
6353	10/31/2024	$ 40,790.41				$ 40,790.41
	11/30/2024		10.00%	$ 335.26	$ 40,790.41	$ 41,125.67

Land IQ
2020 L St, Suite 210
Sacramento, CA 95811

To:	Borrego Springs Watermaster c/o West Yost Associates 25 Edelman, Suite 120 Irvine, CA 92618	**Interest Schedule:**	11/30/2024

Invoice No.	Invoice Date / Payment Date	Invoice Amount	Prime Rate (Plus 2%)	Interest Charge	Starting Balance	Ending Balance
Total Invoices (Less Pymts)		**$ 163,634.98**				
Current Month Interest				**$ 1,514.58**		
Total Interest Charges				**$ 4,804.49**		
Grand Subtotal						**$ 168,439.47**

RWG LAW

T 213.626.8484
F 213.626.0078
Fed. I.D. No. 95-3292015

350 South Grand Avenue
37th Floor
Los Angeles, CA 90071

CONFIDENTIAL

This material is subject to the attorney-client privilege and/or attorney work product protection, or otherwise is privileged or confidential. Do not disclose the contents hereof. Do not file with publicly-accessible records.

BORREGO SPRINGS WATERMASTER
C/O SAMANTHA ADAMS, EXECUTIVE DIRECTOR
WEST YOST
23692 BIRTCHER DRIVE
LAKE FOREST, CA 92630

Invoice Date: November 12, 2024
Invoice Number: 250363
Matter Number: 13056-0001

Re: 13056-0001 GENERAL LEGAL SERVICES

For professional services rendered through October 31, 2024

Approved December 16, 2024

Time Detail

Date	Initials	Description	Hours
10/01/24	JLM	REVIEW MOTIONS TO INTERVENE BY STAPLES CLIENTS	1.50
10/02/24	JLM	REVIEW DOLJANIN FEDERAL COMPLAINT	0.50
10/03/24	JLM	REVIEW DOLJANIN'S COMPLAINT; E-MAIL AND TELEPHONE CALL TO MS. ADAMS THEREON	1.10
10/04/24	JLM	REVIEW E-MAIL ON NEW MONITORING WELL	0.30
10/08/24	JLM	REVIEW BOARD MEETING AGENDA PACKET	1.20
10/10/24	JLM	PREPARE FOR AND ATTEND BOARD MEETING	2.60
10/10/24	SLF	REVIEW NOTICE REGARDING BOARD MEETING	0.10
10/11/24	JLM	CONFERENCE CALL WITH COUNSEL ON DOLJANIN LAWSUIT	1.50
10/15/24	JLM	BEGIN REVIEW QUESTION ON BPA OWNER BECOMING A DE MINIMIS PRODUCER	0.50
10/16/24	JLM	ANALYZE DE MINIMIS PUMPER OPPORTUNITIES	1.00
10/16/24	SLF	REVIEW BOARD MEETING AGENDA	0.20
10/17/24	JLM	REVIEW JUDGMENT; E-MAIL TO MS. ADAMS ON WHO CAN BECOME A DE MINIMIS PRODUCER	1.80
10/21/24	JLM	DOLJANIN - REVIEW MOTIONS TO DISMISS AND SUPPORTING DOCUMENTS	1.70

Client: BORREGO SPRINGS WATERMASTER
Matter: GENERAL LEGAL SERVICES

Invoice Date: November 12, 2024
Invoice Number: 250363
Matter Number: 13056-0001

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Date	Initials	Description	Hours
10/22/24	JLM	E-MAILS ON MEETING DATES	0.20
10/30/24	JLM	REVIEW AND APPROVE BPA TRANSFER; REVIEW SAFE YIELD REPORTS	0.80
10/30/24	SLF	REVIEW NOTICE REGARDING SAFE YIELD DETERMINATION	0.20
Total			**15.20**

Timekeeper Summary

Name	Hours	Rate	Amount
JAMES L. MARKMAN	14.70	400.00	5,880.00
STEVEN L. FLOWER	0.50	350.00	175.00
Total	**15.20**		**$6,055.00**

Client: BORREGO SPRINGS WATERMASTER
Matter: GENERAL LEGAL SERVICES

Invoice Date: November 12, 2024
Invoice Number: 250363
Matter Number: 13056-0001

CONFIDENTIAL

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Current Legal Fees.....$6,055.00
Current Client Costs Advanced.....$0.00

Total Current Fees and Costs.....$6,055.00

RWG LAW

T 213.626.8484
F 213.626.0078
Fed. I.D. No. 95-3292015

350 South Grand Avenue
37th Floor
Los Angeles, CA 90071

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This material is subject to the attorney-client privilege and/or attorney work product protection, or otherwise is privileged or confidential. Do not disclose the contents hereof. Do not file with publicly-accessible records.

BORREGO SPRINGS WATERMASTER
C/O SAMANTHA ADAMS, EXECUTIVE DIRECTOR
WEST YOST
23692 BIRTCHER DRIVE
LAKE FOREST, CA 92630

Invoice Date:	November 12, 2024
Invoice Number:	250363
Matter Number:	13056-0001

Re: 13056-0001 GENERAL LEGAL SERVICES

For professional services rendered through October 31, 2024

Fees	6,055.00
Costs	0.00
Total Amount Due	**$6,055.00**

TERMS: PAYMENT DUE UPON RECEIPT

PLEASE RETURN THIS PAGE WITH YOUR REMITTANCE TO

RICHARDS, WATSON & GERSHON
350 South Grand Avenue, 37th Floor
Los Angeles, CA 90071

Approved December 16, 2024

WEST YOST
Water. Engineered.

Remit Payment To:
PO Box 2158
Davis, CA 95617

October 31, 2024

Invoice Number: 2060589

Accounts Payable	Client Project:	Work Order No. 7
Borrego Springs Watermaster	WY Project No:	940-80-24-09
c/o West Yost Associates	Contract Amount:	339,833.00
23692 Birtcher Drive	Job Name:	WY 2025 Admin and Technical Services
Lake Forest, CA 92630		

Professional Services from October 1, 2024 to October 31, 2024

Previously Billed :	**0.00**
Total This Period :	**29,146.60**
Total Amount Billed to Date including This Invoice :	**29,146.60**
Amount Remaining in Contract :	**310,686.40**

Professional Personnel

	Hours	Rate	Amount	
Eng/Scientist/Geologist Manager I				
Adams, Samantha	15.00	329.00	4,935.00	
Principal Eng/Scientist/Geologist II				
Chiang, Eric	6.00	316.00	1,896.00	
Malone, Andy	16.00	316.00	5,056.00	
Associate Eng/Scientist/Geologist I				
Salberg, Lauren	53.50	221.00	11,823.50	
Engineer/Scientist/Geologist II				
Kelty, Clay	1.50	207.00	310.50	
Administrative IV				
Ehresman, Leah	2.75	157.00	431.75	
Administrative III				
Mendoza-Tellez, Maria	15.25	142.00	2,165.50	
Totals	110.00		26,618.25	
Total Labor				**26,618.25**

Reimbursable Expenses

Travel			1,643.45	
Total Reimbursables			**1,643.45**	**1,643.45**

Reimbursable Expenses (Units)

Field Vehicles (Groundwater)			884.90	
Total Reimbursable Expenses (Units)				**884.90**

Total this Invoice **$29,146.60**

Project	940-80-24-09	WY 2025 Admin and Technical Services	Invoice	2060589

Description of Services:

Please see attached description of services

Please direct questions to:

Project Manager Samantha Adams
Principal Greg Chung GKC

Description of Services Rendered
Project 940-80-24-09
Watermaster Administrative and Technical Services – Portion of Services not Reimbursable by DWR Prop 68 Grant
Invoice Period: October 1, 2024 to October 31, 2024

The services billed in this invoice are those Watermaster administrative and technical services that are not reimbursable through the DWR Prop 68 grant.

TASK 1 – MEETINGS AND COURT HEARINGS

The work performed for this task includes preparing for and attending Watermaster Board Meetings and Court Hearings. The work performed in this reporting period included:

BOARD MEETINGS

- Corresponded with Watermaster Board officers and legal counsel throughout the month to coordinate meeting agenda items and other Watermaster activities.
- October 2024 Regular Board Meeting:
    - Prepared meeting minutes from September 2024 Board meeting.
    - Prepared, reviewed, and formatted agenda package content. This work included:
        - Organized, compiled, and formatted the public correspondence and consent calendar items.
        - Performed work, including coordination and/or preparation of staff memos or other materials to support the following agenda items:
            - Closed session with Legal Counsel on an existing litigation
            - WY 2025 Board Meeting dates and times
            - Consideration of approval to engage with C.J. Brown & Company, CPAs to perform the WY 2024 Financial Audit
            - Agendas for the next Technical Advisory Committee (TAC) and Environmental Working Group (EWG) meetings
            - Process and schedule to complete the WY 2024 Annual Report
            - Status update on the Redetermination of the Sustainable Yield
            - Easement agreement or assignment for the Viking well
            - Technical Consultant report
            - Executive Director report
            - November Regular Meeting Agenda
    - Compiled the final agenda package and distributed via the stakeholder distribution list and Watermaster website.

  - Prepared PowerPoint Presentation to support the Board meeting discussion.
  - Responded to questions from Board members via email and phone calls regarding the Board package items.
  - Attended the virtual Board meeting on October 10, 2024. The meeting was attended by Samantha Adams, Andy Malone, and Lauren Salberg.
- November 2024 Board Meeting Preparation:
  - Prepared punch list of action items for the Board meeting. Created meeting link and coordinated assignments for preparing the package.
  - Prepared meeting minutes from October 2024 Board meeting.
  - Began preparation of materials to support the following agenda items:
    - Workshop on the 2025 Redetermination of the Sustainable Yield
    - Next TAC meeting agenda
    - Final WY 2024 budget status
    - Scope of Work to redetermine the 2030 Sustainable Yield
    - Easement agreement or assignment for the Viking well
    - Technical Consultant report
    - December Regular Meeting Agenda
- Noticed dates for WY 2025 Board meetings to distribution list and posted schedule to Watermaster website.

TAC MEETINGS (POST GRANT PERIOD – APRIL TO SEPTEMBER 2025)

- This task is not active until April 2025, or when grant funds are expended.

COURT HEARINGS

- No work performed during the reporting period.

TASK 2 – WATERMASTER ADMINISTRATION

The Executive Director, with support from staff, will organize, oversee, and/or perform the administrative and management aspects of running the Watermaster and administering the Judgment, Rules and Regulations, and GMP. The work performed in this reporting period included:

PREPARE THE WATERMASTER ANNUAL BUDGET

- No work performed during the reporting period.

INSURANCE, ACCOUNTING, AND FINANCIAL SERVICES

- Prepared draft September 2024 Financial Report.
- Processed accounts receivable into QuickBooks.
- Processed accounts payable into QuickBooks.
- Drove to US Bank to deposit checks.
- Prepared final September 2024 Financial Report (WY 2024 Year End) to reflect final consultant invoice amounts for September (for approval at November meeting).

- Cut checks for accounts payable and mailed for signature.
- Prepared invoice statements for Parties with outstanding payments.
- Updated account of Jeriko Estates, the new owner of the BPA parcel/rights, based on payment received.
- Issued credit to Joel Vanasdlen statement after correcting Carryover election from WY 2023.
- Communicated with vendors on reporting estimates of billings for inclusion in October monthly financials and end of fiscal year reporting.
- Updated financial model to assess cash flow status over next 7 months.

Respond to and track public information requests

- No work performed during the reporting period.

As-needed support to the BPA Parties

- Provided general as-requested support to BPA parties throughout the month by performing outreach, responding to emails, and taking phone calls on the following topics:
    - Provide information and details to support Carryover elections from WY 2024
    - Total year-to-date pumping data and comparisons to prior years
    - Connecting Pumpers who wish to purchase Carryover to cover Overproduction with Pumpers willing to sell Carryover
    - Ability to divest of BPA and become a De Minimis Pumper
    - Overproduction and past due invoices
- Reviewed Pumper request for information to support completing a Cessation form required by the State Water Resources Control Board (SWRCB).

As-needed administration of the terms of the Judgment, Rules & Regulations, and Groundwater Management Plan

- Continued correspondence and support with two property owners intervening into the Judgment following purchase of BPA parcels.
- Estimated WY 2021 to WY 2023 groundwater pumping using a Water Duty Method for a new Party to the Judgment with updated information compared to past estimates made by Watermaster for the prior owner that sold the property in WY 2021.
- Reviewed and processed five water rights transfers:
    - Jensen/Conzelman/Sommerville to Tenaja Ranch
    - T2 Borrego LLC to Mountain Springs Organics
    - Wright to Steven Phillips
    - Michael C. Ward to Steven Phillips
    - Aceves to Fetzer

GENERAL ADMINISTRATION AND PROJECT MANAGEMENTS TASKS

- Performed monthly project management tasks including budget, schedule, and scope of work progress evaluations.

MAINTAIN WEBSITE AND GRANT COMMUNICATIONS (POST GRANT PERIOD – APRIL TO SEPTEMBER 2025)

- This task is not active until April 2025, or when grant funds are expended.

TASK 3 – TECHNICAL SERVICES

The objective of this task is for the Technical Consulting team to perform the technical services required by the Judgment, Rules and Regulations, and GMP for WY 2025 that are not reimbursable by the DWR Prop 68 Grant. The work performed in this reporting period included:

GROUNDWATER PUMPING MONITORING - MONTHLY COLLECTION AND PROCESSING OF METER READ DATA (POST GRANT PERIOD – APRIL TO SEPTEMBER 2025)

- This task is not active until April 2025, or when grant funds are expended.

NON-REIMBURSABLE COSTS FOR GROUNDWATER MONITORING PROGRAM

- Non-grant reimbursable costs included for this reporting period are:
    - Mileage for the field technicians to travel to and around Borrego Springs to perform the fall 2024 semi-annual monitoring event.
    - Hotel accommodations and meals for field staff that traveled to Borrego Springs from October 27th through October 31st for the fall 2024 semi-annual monitoring event.

NON-REIMBURSABLE COSTS FOR ADDRESSING ABANDONED WELLS

- Non-grant reimbursable costs for October 2024 include mileage for a field technician to travel around Borrego Springs to site reconnaissance of nine (9) inactive wells that will be converted to monitoring wells.

COOPERATOR DATA COLLECTION, DATA MANAGEMENT, AND REPORTING DATA TO DWR PORTALS (POST GRANT PERIOD – APRIL TO SEPTEMBER 2025)

- This task is not active until April 2025, or when grant funds are expended.

AS-NEEDED TECHNICAL SUPPORT FOR IMPLEMENTATION OF THE JUDGMENT, RULES AND REGULATIONS, AND GROUNDWATER MANAGEMENT PLAN

- Began analysis of Carryover rules, as required by the Judgment.

ADDRESS AD HOC REQUESTS OF TAC FROM THE BOARD

- No work performed during the reporting period.

DEVELOP TAC SCOPE OF WORK AND BUDGET FOR WY 2026-2029

- Prepared memo describing the potential tasks and range of costs for the scope of work for WY 2026-2029 and distributed to the TAC for review.
- Compiled and recorded TAC responses to the draft memo on the potential tasks for the scope of work.
- Prepared summary table of TAC recommendations for tasks to include in the scope of work based on written comments from the TAC.

Task 4 – Environmental Working Group

The objective of this task is to support the activities of the EWG in WY 2025 that are not part of the DWR Prop 68 Grant.

EWG Meetings

- No work performed during the reporting period.

Task 5 - Staff services Billed to Watermaster Related to Manual-Read Meters

The objective of this task is to coordinate the monitoring and collection of meter data from the parties with manual-read meters. This work is reimbursed by only those Parties with manual-read meters. The work performed in this reporting period included:

- Sent email notice to parties with manual read meters to send October 2024 self-reporting of meter reads.
- Coordinated with a new Party to gain entry to property and perform first manual meter read.

INVOICE ATTACHMENT

COSTCO WHOLESALE

Fullerton #418
900 South Harbor Blvd
Fullerton, CA 92832
(714) 738-7521

SELF-CHECKOUT

X7 Member 111920070768

E	27003 STRAWBERRIES	3.79
E	27003 STRAWBERRIES	3.79
E	30669 BANANAS	1.49
	SUBTOTAL	9.07
	TAX	0.00
	**** TOTAL	9.07

XXXXXXXXXXXX7920 CHIP Read
AID: A0000000031010
Seq# 206647 App#: 063246
Visa Resp: APPROVED
Tran ID#: 429900206647....

APPROVED - Purchase
AMOUNT: $9.07
10/25/2024 10:50 418 206 24 706

Visa	9.07
CHANGE	0.00

TOTAL NUMBER OF ITEMS SOLD = 3
10/25/2024 10:50 418 206 24 706

2104182060024241025l050

OP#: 706 Name: SCO
Thank You!
Please Come Again
Whse:418 Trm:206 Trn:24 OP:706

Items Sold: 3
X7 10/25/2024 10:50

INVOICE ATTACHMENT

You could win a $1000 GiftCard!
Visit survey.walmart.com#7TNH7JW9X8Y
For more details, see back of receipt.

Walmart

Wal-Mart
714-529-0596 Mgr. DAVID
2595 E IMPERIAL HWY
BREA CA 92821
ST# 02523 OP# 009050 TE# 50 TR# 00371

ITEMS SOLD 6
TC# 8969 6394 6704 2266 7670

PLDIST1GFH	068274360070 F	2.38 N
CRV FEE	006811317653 F	0.10 O
PLDIST1GFH	068274360070 F	2.38 N
CRV FEE	006811317653 F	0.10 O
GC CF HBE	078742330790 F	3.82 O
GC CF HBE	078742330790 F	3.82 O
GC CF HBE	078742330790 F	3.82 O
GC CF HBE	078742330790 F	3.82 O

SUBTOTAL	20.24
TOTAL	20.24
VISA TEND	20.24
CHANGE DUE	0.00

VISA CREDIT- 7920 I 1 APPR#020963
20.24 TOTAL PURCHASE
REF # 429951067445
TRANS ID - 304299659455444
VALIDATION - QWPQ
PAYMENT SERVICE - E
AID A0000000031010
TERMINAL # 26828574
*No Signature Required
10/25/24 11:19:04

Get free delivery from this store with Walmart+

Scan for 30-day free trial.

Low prices You Can Trust. Every Day.
10/25/24 11:19:13

INVOICE ATTACHMENT

Borrego

LOS JILBERTO'S
TACO SHOP
BORREGO SPRINGS, CA 92004
655 PALM CANYON DR.
(760) 767-1008

Check 10050
WED 10/30/24 7:08pm

1 CA-ASADA FRIES	16.99
Sub/Ttl	16.99
Tax	1.36
To Go	18.35
$20	20.00
Change	1.65

Thank you for dining with us!

INVOICE ATTACHMENT

Borrego Springs Resort Golf Club & Spa

1112 Tilting T Drive
Borrego Springs, CA 92004

www.borregospringsresort.com

Charles Martinez

Room	Folio	CheckIn	CheckOut	Balance
(213)	116279	10/27/2024	10/31/2024	0.00
iNC				

Date	Room	Description / Voucher	Charges	Credits	Balance
10/27/2024	213	Resort Fee	16.20	0.00	16.20
10/28/2024	213	Resort Fee	16.20	0.00	32.40
10/29/2024	213	Resort Fee	16.20	0.00	48.60
10/30/2024	213	Resort Fee	16.20	0.00	64.80
10/31/2024	213	Visa/Mastercard - ...7928 AP: 04496D	0.00	64.80	0.00

SM
10/31/2024 12:41 PM

*Guest Sign*_____

Thank you for staying with us!
Please rate us at Tripadvisor.com

Gmail Charles Martinez <charlesryanmartinez@gmail.com>

Travel Reservation Center Trip ID # 7MD3T4BVG

2 messages

Chase Travel <donotreply@chasetravel.com> Fri, Oct 4, 2024 at 10:26 AM
Reply-To: Donotreply <donotreply@rewardsengage.com>
To: charlesryanmartinez@gmail.com

Travel

Trip ID: 7MD3T4BVG [See trip]

Hi CHARLES,

Thank you for choosing Chase Travel. Please carefully review your itinerary below to verify all information is correct.

Manage your trip online

Simply sign in and navigate to the "My Trips" page. From there, you can view your upcoming trips and make changes online.

Hotel $565.44

Sun, Oct 27, 2024 - Thu, Oct 31, 2024
1 guest, 4 nights

Hotel confirmation: 334099450

Borrego Springs Resort & Spa

Deluxe Room, 1 King Bed, 1 1 King bed

INVOICE ATTACHMENT

04:00 pm

Check-out: Thu, Oct 31, 2024, 12:00 pm

✓ **Free self parking**

1112 Tilting T Drive Borrego Springs CA 92004 US

Free cancellation until Fri, Oct 25, 2024 04:00 pm (property local time)

Hotel resort fee: $64.80

Your resort fees will be due at the property. For more information regarding these fees, please read the rules, policies, and cancellations.

Primary guest: CHARLES MARTINEZ

Important Hotel information

- Your hotel reservation has been confirmed and paid for by Chase Travel for the room and tax portion of your stay. You will be required to present your personal credit card upon check-in for any incidentals you may incur (parking, room service, etc.).
- For special requests (room type, roll away beds, late check out etc.), contact the hotel directly. Please note, that your room is reserved, but your name may not be provided to the hotel until 48 hours prior to your check-in date.
- Contact Chase Travel immediately should you need assistance with your hotel reservation.

Payment summary

Borrego Springs Resort & Spa	$565.44
Trip total	**$565.44**

Billed to card **$565.44**

Visa ending in 7928

Please note that you will see CL * Chase Travel on your card billing statement for any amount of your transaction that is charged to your credit card.

Hotel resort fee: $64.80

Your resort fees will be due at the property. For more information regarding these fees, please read the rules, policies, and cancellations.

Add to your trip

Book a flight

Fly anywhere or any time with hundreds of airlines worldwide

Book a car

Compare options from major car rental companies

Book an activity

Find activities, attractions or tours to enhance your stay

Rules, policies, and cancellations

Borrego Springs Resort & Spa

Sun, Oct 27, 2024 - Thu, Oct 31, 2024

1. Cancellations made after Oct 25, 2024 04:00 PM (property local time) will result in a 100% penalty of the stay charges and fees. If you fail to check-in for this reservation, or if you cancel or change this reservation after check-in, you may incur penalty charges at the discretion of the property of up to 100% of the booking value.
2.
   - Extra-person charges may apply and vary depending on property policy
   - Government-issued photo identification and a credit card, debit card, or cash deposit may be required at check-in for incidental charges
   - Special requests are subject to availability upon check-in and may incur additional charges; special requests cannot be guaranteed
   - This property accepts credit cards; cash is not accepted
   - Cashless transactions are available
3. Front desk staff will greet guests on arrival.
4.
   - Children 18 years old and younger stay free when occupying the parent or guardian's room, using existing bedding.

INVOICE ATTACHMENT

- The property has connecting/adjoining rooms, which are subject to availability a property using the number on the booking confirmation.
- Cashless payment methods are available for all transactions.
- Contactless check-out is available.

5. You'll be asked to pay the following charges at the property. Fees may include applicable taxes:

   - Resort fee: USD 16.20 per accommodation, per night

   The resort fee includes:

   - Laundry facilities
   - Pool access

   We have included all charges provided to us by the property.

6.
   - Fee for cooked-to-order breakfast: approximately USD 16 to 25 per person
   - Pet fee: USD 30 per accommodation, per night
   - Service animals are exempt from fees
   - Early check-in is available for a fee (subject to availability)
   - Late check-out is available for a fee (subject to availability)

   The above list may not be comprehensive. Fees and deposits may not include tax and are subject to change.

7. Minimum check-in age - 18

Questions?

If you need more immediate assistance, call a Chase Travel Specialist at 1-866-331-0773 or +1-206-274-6380 (international number, charges may apply) and have your **Trip ID 7MD3T4BVG** ready.

Si tiene alguna pregunta o necesita ayuda para traducirla, comuníquese con nosotros llamando al 1-866-331-0773.

Email security information

Email intended for: CHARLES MARTINEZ

If you have concerns about the authenticity of this message, please visit chase.com/CustomerService for options on how to contact us.

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This email was sent to: charlesryanmartinez@gmail.com

This email was sent by:

Chase Privacy Operations
PO Box 734007
Dallas, Texas 75373-4007
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Charles Martinez <charlesryanmartinez@gmail.com> Fri, Oct 4, 2024 at 10:27 AM
To: cmartinez@westyost.com

[Quoted text hidden]

EVERYWABE

Order Number
#3708793

Pickup date
October 25, 2024

Pickup Time
9:00 AM – 6:45 PM

Status
Picked up

Pickup Order Details

18 items in Order

Cauliflower Romesco
$7.45

Southern Shrimp & Grits
$7.95

Homegirl Salmon Bowl
$9.15

Chicken Shawarma with Yogurt Sauce
$7.95

Salmon Superfood Salad X 5
$9.15

Backyard BBQ Chicken Plate
$7.95

Southwest Chipotle Chicken Bowl
$7.95

Nashville Hot Chicken Pasta
$6.95

Turkey Taco Bowl
$7.95

Mediterranean Veggie and Hummus Wrap
$6.45

Pesto Chicken on Ciabatta
$7.45

Lemon Pepper Chicken Caesar Salad
$7.95

BBQ Chicken Salad
$6.95

Monica's Breakfast Burrito
$5.95

Cauliflower Romesco	x 1	$7.45/ea
Southern Shrimp & Grits	x 1	$7.95/ea
Homegirl Salmon Bowl	x 1	$9.15/ea
Chicken Shawarma with Yogurt Sauce	x 1	$7.95/ea
Salmon Superfood Salad	x 5	$9.15/ea
Backyard BBQ Chicken Plate	x 1	$7.95/ea
Southwest Chipotle Chicken Bowl	x 1	$7.95/ea
Nashville Hot Chicken Pasta	x 1	$6.95/ea
Turkey Taco Bowl	x 1	$7.95/ea
Mediterranean Veggie and Hummus Wrap	x 1	$6.45/ea
Pesto Chicken on Ciabatta	x 1	$7.45/ea
Lemon Pepper Chicken Caesar Salad	x 1	$7.95/ea
BBQ Chicken Salad	x 1	$6.95/ea
Monica's Breakfast Burrito	x 1	$5.95/ea
Subtotal		**$143.80**
Tax		$0.00
Total		**$143.80**

Payment

Visa ****8050	$143.80

Refund

Refer a Friend

Refer a friend and get $40.00

Get $40.00

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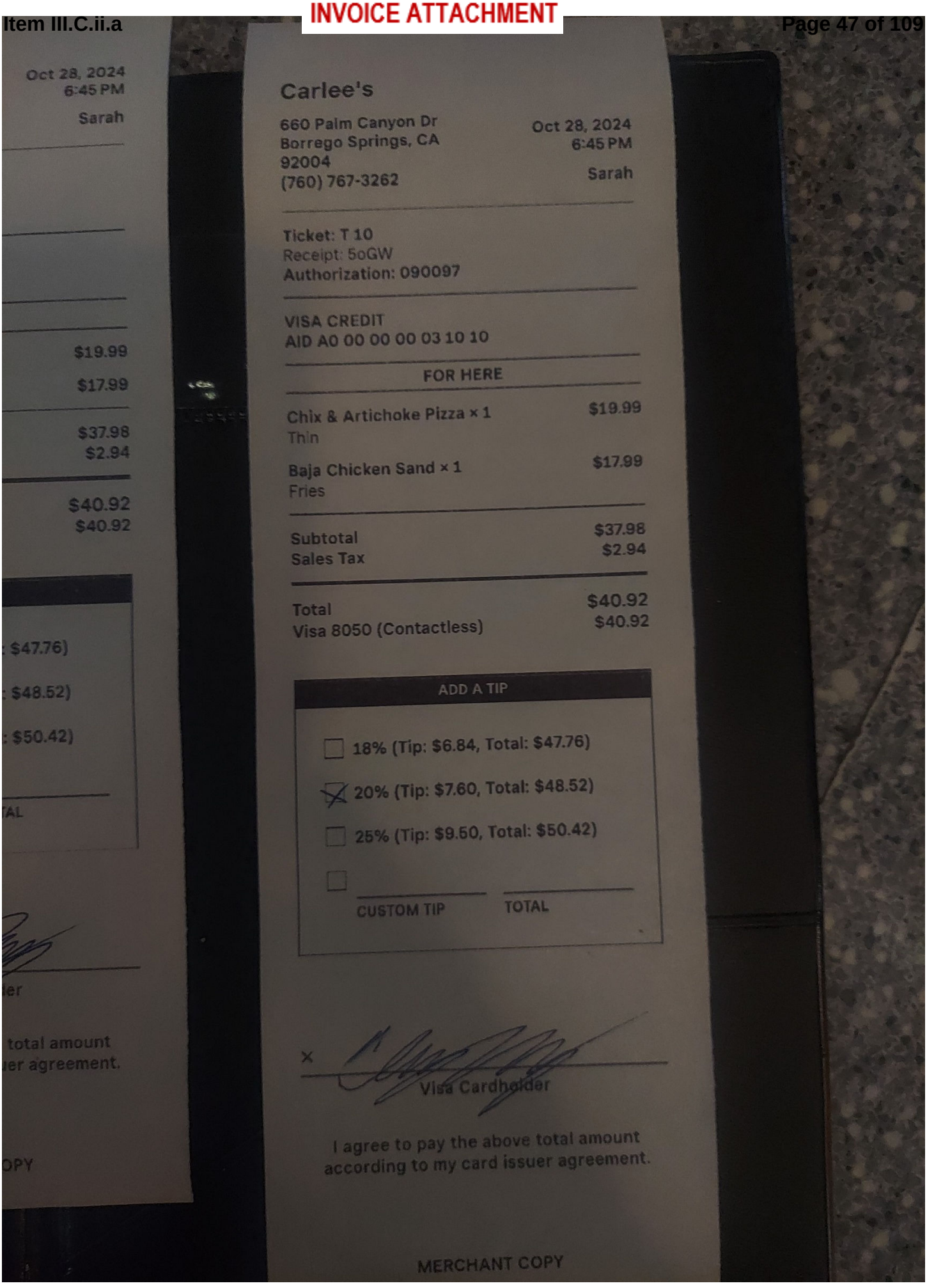
INVOICE ATTACHMENT



Oct 28, 2024
6:45 PM
Sarah

$19.99
$17.99
$37.98
$2.94
$40.92
$40.92

: $47.76)
: $48.52)
: $50.42)

TAL

er

total amount
uer agreement.

OPY

Carlee's

660 Palm Canyon Dr
Borrego Springs, CA
92004
(760) 767-3262

Oct 28, 2024
6:45 PM
Sarah

Ticket: T 10
Receipt: 5oGW
Authorization: 090097

VISA CREDIT
AID A0 00 00 00 03 10 10

FOR HERE

Chix & Artichoke Pizza × 1 $19.99
Thin

Baja Chicken Sand × 1 $17.99
Fries

Subtotal $37.98
Sales Tax $2.94

Total $40.92
Visa 8050 (Contactless) $40.92

ADD A TIP

☐ 18% (Tip: $6.84, Total: $47.76)

☒ 20% (Tip: $7.60, Total: $48.52)

☐ 25% (Tip: $9.50, Total: $50.42)

☐ _____ _____
CUSTOM TIP TOTAL

X _____
Visa Cardholder

I agree to pay the above total amount
according to my card issuer agreement.

MERCHANT COPY

INVOICE ATTACHMENT

LOS JILBERTO'S
TACO SHOP
BORREGO SPRINGS, CA 92004
855 PALM CANYON DR.
(760) 767-1008

Check 10049

WED 10/30/24 7:08pm

1 CALIF ASADA BURRO 11.99
1 with fries

Sub/Ttl 11.99
Tax 0.96
To Go 12.95

$20 20.00

Change 7.05
Thank you for dining with us!

Borrego Springs Resort Golf Club & Spa

1112 Tilting T Drive
Borrego Springs, CA 92004

www.borregospringsresort.com

Clay Kelty
5203 Garnet Street
Torrance, CA 90503

Room	Folio	CheckIn	CheckOut	Balance
212	116278	10/27/2024	10/31/2024	0.00
Master Folio				

Date	Room	Description / Voucher	Charges	Credits	Balance
10/27/2024	212	Deposit Transfer - Conf: 70332 to Folio: 116278 10/17/2024 Visa/Mastercard (...3071) -760.28	0.00	760.28	-760.28
10/27/2024	212	Resort Fee	16.20	0.00	-744.08
10/27/2024	212	Room Taxable	160.65	0.00	-583.43
10/27/2024	212	CA Assessment	13.22	0.00	-570.21
10/28/2024	212	Resort Fee	16.20	0.00	-554.01
10/28/2024	212	Room Taxable	160.65	0.00	-393.36
10/28/2024	212	CA Assessment	13.22	0.00	-380.14
10/29/2024	212	Resort Fee	16.20	0.00	-363.94
10/29/2024	212	Room Taxable	160.65	0.00	-203.29
10/29/2024	212	CA Assessment	13.22	0.00	-190.07
10/30/2024	212	Resort Fee	16.20	0.00	-173.87
10/30/2024	212	Room Taxable	160.65	0.00	-13.22
10/30/2024	212	CA Assessment	13.22	0.00	0.00

SM
10/31/2024 12:35 PM

*Guest Sign*_____

Thank you for staying with us!
Please rate us at Tripadvisor.com

West Yost Budget Status Report for Technical and Administrative Services that are not Grant Reimbursable - WY 2025

As of October Billing Period (Month 1 of 12)

Task	Approved Budget	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Total Spent	Remaining Budget[1]
Totals	$339,833	$29,146.60	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$0.00	$29,146.60	$310,686.40
Task 1 - Meetings and Court Hearings	**$129,990**	**$8,261.75**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$8,261.75**	**$121,728.25**
Board Meetings	$106,600	$8,261.75												$8,261.75	$98,338.25
TAC Meetings (Post Grant Period - April to Sep. 2025)	$19,880	$0.00												$0.00	$19,880.00
Court Hearings	$3,510	$0.00												$0.00	$3,510.00
Task 2 - Watermaster Administration and Management	**$76,699**	**$8,013.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$8,013.00**	**$68,686.00**
Prepare Watermaster Budget for WY 2025	$11,580	$0.00												$0.00	$11,580.00
Insurance, Accounting, and Financials Services	$24,564	$2,844.00												$2,844.00	$21,720.00
Maintain Website and Grant Communications (Post Grant Period -April to Sep. 2025)	$5,278	$0.00												$0.00	$5,278.00
Track/Respond to Public Communications and Requests	$2,184	$0.00												$0.00	$2,184.00
As-needed support to the BPA Parties	$11,016	$1,729.00												$1,729.00	$9,287.00
As-requested admin. of the Judgment, Rules & Regs, and GMP	$10,779	$2,033.00												$2,033.00	$8,746.00
General administration and project managements tasks	$11,298	$1,407.00												$1,407.00	$9,891.00
Task 3 - Technical Services	**$123,820**	**$12,664.85**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$12,664.85**	**$111,155.15**
Address Ad Hoc Requests from the Board	$10,048	$0.00												$0.00	$10,048.00
Groundwater Pumping Monitoring - Monthly Collection and Processing of Meter Read Data (Post Grant Period - April to Sep. 2025)	$12,003	$0.00												$0.00	$12,003.00
Non Reimbursible for C7 Cat (d) Task 7/8: GW Level and QualMon	$59,870	$2,475.25												$2,475.25	$57,394.75
Cooperator Data Collection, Data Management, and Reporting Data to DWR Portals (Post Grant Period - April to Sep. 2025)	$9,329	$0.00												$0.00	$9,329.00
Non Reimubursible for C7 Cat (c) Task 5: Address Abandoned Wells	$1,000	$53.10												$53.10	$946.90
As-needed support for implementation of the Judgment, Rules & Regs, and GMP	$16,298	$1,593.00												$1,593.00	$14,705.00
Develop TAC Scope & Budget for WY 2026-2029	$15,272	$8,543.50												$8,543.50	$6,728.50
Task 4 - Environmental Working Group	**$6,381**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$6,381.00**
EWG Meetings	$6,381	$0.00												$0.00	$6,381.00
Task 5 - Staff Services Billed to Watermaster to be Reimbursed by Parties with Manual-Read Meters	**$2,943**	**$207.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$207.00**	**$2,736.00**
Coordinate Manual-Read Metering with BWD/Parties	$2,943	$207.00												$207.00	$2,736.00

Approved December 16, 2024

WEST YOST
Water. Engineered.

Remit Payment To:
PO Box 2158
Davis, CA 95617

October 31, 2024

Invoice Number: 2060590

Accounts Payable	Client Project:	Work Order No. 7
Borrego Springs Watermaster	WY Project No:	940-80-24-10
c/o West Yost Associates	Contract Amount:	484,174.00
23692 Birtcher Drive	Job Name:	WY 2025 Component 7: Monitoring Reporting, and GMP Update
Lake Forest, CA 92630		

Professional Services from October 1, 2024 to October 31, 2024

Previously Billed :	**0.00**
Total This Period :	**69,680.24**
Total Amount Billed to Date including This Invoice :	**69,680.24**
Amount Remaining in Contract :	**414,493.76**

Project 940-80-24-10 Comp 7 Monitoring Reporting & GMP Update Invoice 2060590

Professional Personnel

	Hours	Rate	Amount	
Eng/Scientist/Geologist Manager I				
Adams, Samantha	17.25	329.00	5,675.25	
Principal Eng/Scientist/Geologist II				
Chiang, Eric	4.00	316.00	1,264.00	
Malone, Andy	20.50	316.00	6,478.00	
Associate Eng/Scientist/Geologist I				
Salberg, Lauren	98.50	221.00	21,768.50	
Engineer/Scientist/Geologist II				
Kelty, Clay	59.25	207.00	12,264.75	
Engineer/Scientist/Geologist I				
Martinez, Charles	.50	178.00	89.00	
Serafin, Leslie	3.25	178.00	578.50	
Field Monitoring Services				
Kelty, Clay	51.75	129.00	6,675.75	
Martinez, Charles	53.00	129.00	6,837.00	
Administrative IV				
Encelan, Christine	2.00	157.00	314.00	
Administrative III				
Mendoza-Tellez, Maria	1.00	142.00	142.00	
Administrative II				
Duncan, Caitlin	4.00	118.00	472.00	
Senior Tech Specialist I				
Lasick, Sheri	3.75	287.00	1,076.25	
Technical Specialist I				
Jones, Katie	3.50	183.00	640.50	
Totals	322.25		64,275.50	
Total Labor				**64,275.50**

Subconsultants

Well Tec Services, Inc.			2,760.00	
Total Subconsultants			**2,760.00**	**2,760.00**

Reimbursable Expenses

Supplies/Permits/Publications/Equipment			2,019.74	
Total Reimbursables			**2,019.74**	**2,019.74**

Reimbursable Expenses (Units)

Precision Water Level Meter 700ft			225.00	
Turbidity Meter			150.00	
Water Quality Meter			250.00	
Total Reimbursable Expenses (Units)				**625.00**

Total this Invoice **$69,680.24**

Description of Services:

Please see attached description of services

Project	940-80-24-10	Comp 7 Monitoring Reporting & GMP Update	Invoice	2060590

Please direct questions to:

Project Manager	Samantha Adams
Principal	Greg Chung GKC

Grant Component No. 7: Monitoring, Reporting, and Groundwater Management Planning
West Yost - October 2024 Invoiced by Category and Task

Category and Task	Oct-24
Total Invoice	**$69,680.24**
Category (a) Component Administration	**$2,998.75**
Component Administration	$2,998.75
Category (b) Planning, Design, Environmental	**$0.00**
Task 1 & 2: Documentation, Design Plans and Specifications	$0.00
Category (c) Construction, Implementation	**$11,403.75**
Task 5: Identify and Address Improperly Abandoned Wells	$11,403.75
Category (d) Monitoring, Assessment	**$45,603.99**
Task 6: Groundwater Pumping Monitoring - Annual Meter Verification	$0.00
Task 6: Groundwater Pumping Monitoring - Monthly Meter Reading	$2,609.25
Task 7 & 8: Groundwater Level and Quality Monitoring Program - Semi Annual Monitoring Events	$18,532.74
Task 9: Maintain and Enhance Data Management System	$0.00
Task 10: Annual Water Rights Accounting (Pumping Report)	$8,541.25
Task 10: Annual Report to the Court and DWR	$8,675.75
Task 11: Redetermination of the Sustainable Yield by 2025	$7,245.00
Task 12: Prepare the 2025 GMP Update	$0.00
Category (e) Stakeholder Outreach	**$9,673.75**
Task 13 Outreach - Technical Advisory Committee Working Meetings	$8,191.50
Task 13 Outreach - Stakeholder Open House	$1,482.25
Task 13 Outreach - Maintain Website and Grant Communications	$0.00

Description of Services Rendered
Project 940-80-24-10
Grant Component No. 7: Monitoring, Reporting, and
Groundwater Management Planning
Water Year 2025 - Invoice Period: October 1, 2024 to October 31, 2024

The services billed in this invoice are for work performed on the tasks included in Grant Component No. 7: Monitoring, Reporting, and Groundwater Management Planning.

CATEGORY (A) COMPONENT ADMINISTRATION. The work performed for this task includes monthly project management of the tasks included in Component 7 and preparation of quarterly grant progress reports for submittal to the Borrego Water District (BWD). The work performed during the invoice period includes:

- Performed monthly project management to review scope, schedule, and budget progress for WY 2024 tasks as of the end of September 2024.
- Updated budget status table.
- Began developing seventh quarterly grant status report and reimbursement request for the July 1 to September 30, 2024 reporting period.
- Corresponded with BWD throughout the month on grant reimbursement status and report reviews.

CATEGORY (B) PLANNING, DESIGN, ENVIRONMENTAL. The work performed for this task includes the planning, design, and environmental review portion of the Component 7 tasks. Component 7 includes one design task – conversion of abandoned wells. The work performed during the invoice period includes:

- No work performed in this reporting period.

CATEGORY (C) CONSTRUCTION, IMPLEMENTATION. The work performed for this task includes the construction and implementation portion of the Component 7 tasks. Component 7 includes one construction and implementation task – conversion of abandoned wells. The work performed during the invoice period includes:

- Coordinated with Well Tec on schedule for first round of field work.
- Reviewed and discussed SGM grant Labor Compliance Report requirements for field work with Well Tec.
- Supported Well Tec in preparation of DAS forms and prevailing wage compliance for SGM grant Labor Compliance Report requirements.
- Continued working with well owners to develop and execute entry agreements and permits.

- Performed outreach to a well owner interested in participating in abandoned well conversion and monitoring well programs.
- Reviewed status of entry agreements for the conversion of abandoned wells task.
- Performed well reconnaissance effort of nine (9) wells on October 30, 2024 with Well Tec. The site reconnaissance was performed to allow Well Tec to inspect some of the wells that will be converted to monitoring wells ahead of the first field campaign and to identify any potential/unplanned-for obstacles.
- Began preparing draft FAQ document on abandoned wells.

CATEGORY (D) MONITORING, ASSESSMENT. The work performed for this task includes the monitoring and reporting portion of the Component 7 tasks. The work performed in this reporting period included:

GROUNDWATER PUMPING MONITORING - ANNUAL METER VERIFICATION

- No work performed in this reporting period.

GROUNDWATER PUMPING MONITORING - MONTHLY COLLECTION AND PROCESSING OF METER READ DATA

NOTE: THIS TASK DOES NOT INCLUDE WORK TO COORDINATE OR PERFORM METER READING SERVICES AT MANUAL-READ METERS – THAT WORK IS PAID FOR BY THE PUMPERS WITH MANUAL-READ METERS.

- Coordinated with pumpers with technical problems with smart meter data access.
- Cataloged and processed remaining September 2024 monthly meter reads.
- Calculated September 2024 pumping by well for remaining wells.
- Performed QA/QC of September 2024 pumping data.
- Documented status and/or meter reads from decommissioned/inactive wells to confirm no pumping occurred in WY 2024.
- Set up the WY 2025 meter read file for tracking, QA/QC, and calculation of monthly pumping.

GROUNDWATER LEVEL AND QUALITY MONITORING PROGRAM - SEMIANNUAL MONITORING EVENTS

- Printed field forms and all other instructions/documents for the Groundwater Monitoring Program semi-annual event. Updated the pre-route check-list, photos, maps, and contact sheet. Compiled all information into a field binder that is used by field technicians to execute the semi-annual monitoring program.
- Updated field sheets for recording transducer measurements.
- Confirmed monitoring dates and times with well owners.
- Purchased two (2) new transducers. Invoice for equipment from In-Situ Inc. is attached.
- Performed the Fall 2024 semi-annual field monitoring event in Borrego Springs from October 27 to October 31. This work included:
    - Mobilized to Borrego Springs with all equipment for monitoring.
    - Visited 30 wells to collect water quality samples:

- Collected groundwater quality samples from 20 production wells in the current monitoring program (Air Ranch 4, Auxiliary 2, BSR 6, County Yard, CMA-2[1], NMA-6, NMA-7, Horse Camp, La Casa, T2 Farms, RH-1, RH-2, RH-3, RH-4, RH-5, RH-6, 904, NMA-1, CMA-4, CMA-5). This work included documenting site conditions, collecting a static water level measurement (if possible), testing field parameters for stabilization, and filling sample bottles. A groundwater quality sample was unable to be collected at Fortiner Well due to the pump being broken and at Terry Well due to the inability to contact well owner.
- Supported the collection of water quality samples from 8 monitoring wells with Blaine Tech Support Services. This work included documenting site conditions, collecting a static water level measurement (if possible), testing field parameters for stabilization, and filling sample bottles. A water quality sample was retrieved from all 8 wells visited (MW-1, MW-3, MW-4, MW-5A, MW-5B, MW-6S, MW-6D, WWTP).

- Visited 13 wells to download transducer data. At these 13 wells with transducers installed (Auxiliary 3, MW-1, MW-3, MW-5A, Hanna Flowers, WWTP, JC Well, RH-1, RH-2, RH-3, RH-4, RH-5, RH-6), the data loggers with continuously record water levels were downloaded, serviced (as needed), and reset.
  - New transducers were installed at RH-1, RH-2, and RH-6. The transducers removed from these wells are being reset due to a time resetting error. If the reset is not resolved, Watermaster staff will have these transducers replaced, under warranty, by In Situ.
- Visited 47 wells to collect manual water level readings – 47 wells were able to be monitored. This work included documenting site conditions and measuring (if possible) a static water level depth.
- Downloaded data from the Barologger installed in the BSR 6 well to compensate transducer measurements at all wells.
- Mobilized back to the West Yost Lake Forest office.

Cooperator Data Collection, Data Management, and Reporting Data to DWR Portals

- No work performed in this reporting period.

Annual Water Rights Accounting (Pumping Report)

- Set up water rights accounting spreadsheet for WY 2024, including explanatory footnotes and calculations.
- Summarized water year pumping totals for all Parties with metered pumping.

[1] Due to data confidentiality agreements, certain private wells are anonymized based on location within the Management Areas of the Basin. Abbreviations include North Management Area (NMA), Central Management Area (CMA), and South Management Area (SMA).

- Made assumptions to estimate pumping totals for metered Parties with incomplete meter reads in WY 2024. Coordinated with Parties to confirm assumptions for calculating and/or estimating total pumping for WY 2024.
- Estimated pumping totals for all Parties with no metered pumping data in WY 2024.
- Performed draft water rights accounting analysis.
- Prepared WY 2024 pumping report template to report individual pumping totals and other water rights accounting data required by the Judgment (Annual Allocation, Carryover balance, Overproduction, etc.).
- Populated and sent draft WY 2024 pumping reports to each Party to the Judgment, including notification of water eligible for Carryover.
- Documented all carryover elections and finalized water rights accounting spreadsheet.

Annual Report to the Court and DWR

- Created punch-list and schedule to complete WY 2024 Annual Report and coordinated assignments for preparing the report.
- Continued performing technical work to compute the change in storage change from spring 2023 to spring 2024, including developing contour maps of groundwater elevation in spring 2023 and spring 2024 and maps of the change in storage.
- Began working on the tables and figures for Sections 1, 3 and 5 of the Annual Report.
- Prepared Appendix A for the draft Annual Report.
- Began drafting text of the following report sections:
    - Section 1. Introduction and Background
    - Section 4. Water Year 2024 Water Rights Accounting

Redetermination of the Sustainable Yield of the Borrego Springs Subbasin

- Reviewed TAC comments on the draft Task 4 TM – *Model Calibration* and prepared an appendix for the response to comments.
- Finalized the draft Task 4 TM on the methods and results of model calibration.
- Prepared a Final Technical Report on the process to redetermine the 2025 Sustainable Yield, which is a compilation of all prior memos and TMs published on Tasks 1 through 4 of the scope of work to redetermine the 2025 Sustainable Yield.
- Prepared a draft Technical Consultant Recommendation Report to the Watermaster Board on the redetermination of the 2025 Sustainable Yield.
- Published the Final Technical Report, TAC Recommendation Report, and Technical Consultant Report for the Watermaster Board to review and noticed the documents to the public distribution list.

Prepare the 2025 Groundwater Management Plan Update

- No work performed in this reporting period.

CATEGORY (E) STAKEHOLDER OUTREACH. The work performed for this task includes stakeholder outreach activities to support the implementation and communication of the Component 7 tasks. The work performed in this reporting period included:

TECHNICAL ADVISORY COMMITTEE MEETINGS

- Prepared Ad-Hoc TAC meeting agenda package and distributed to the TAC and public distribution list via email.
- Prepared PowerPoint Presentation to support the October 16, 2024 Ad-Hoc TAC working meeting.
- Conducted an Ad-Hoc TAC working meeting on October 16, 2024. The meeting attendees were Andy Malone, Samantha Adams, Eric Chiang, and Lauren Salberg.
- Posted final PowerPoint Presentation and recording of the October 16, 2024 Ad-Hoc TAC meeting to the Watermaster website.
- Prepared draft TAC Recommendation Report on the redetermination of the 2025 Sustainable Yield and distributed to the TAC for review.
- Updated and finalized TAC Recommendation Report on the redetermination of the 2025 Sustainable Yield based on TAC comments.

STAKEHOLDER OPEN HOUSE

- Produced outreach materials advertising the November 7, 2024 Borrego Springs Watermaster Open House.
- Distributed outreach materials to the public distribution list and posted to Watermaster website.

MAINTAIN WEBSITE AND GRANT COMMUNICATIONS

- No work performed in this reporting period.

In-Situ, Inc.
221 E Lincoln Ave
Fort Collins, CO 80524-2533

Fed ID: 83-0245889
GSA: 47QSWA23D001X

Invoice

INV110980
09/30/2024

Billing Address
WEST YOST & ASSOCIATES
2020 RESEARCH PARK DRIVE, SUITE 100
DAVIS, CA 95618
United States

Ship-to Address
West Yost & Associates
ATTN: Clay Kelty
23692 BIRTCHER DRIVE
LAKE FOREST, CA 92630
United States

Customer PO No.	Order Date	Order No.	Due Date
PO# (940-80-23-07-320)	09/16/2024	SO112259	October 30, 2024
Shipping Agent Code	**Shipment Method**	**Payment Terms**	**Salesperson**
FEDEX	FOB Origin	Net 30 days	Chris Howard
Package Tracking No.	**Final Installation**	**Email**	**Customer Account No.**
280086064525	CA		C002590

No.	Description	Quantity	Unit	Unit Price	Line Amount
0099250	Level TROLL 400, Level Sensor Range - 60m, 197 ft (100 PSIA)	1	Each	895.00	895.00
Serial No. 1158912					
0099260	Level TROLL 400, Level Sensor Range - 200m, 658 ft (300 PSIA)	1	Each	895.00	895.00
Serial No. 1157386					
FREIGHT		1	Each	91.00	91.00
				Subtotal	1,881.00
				Total Tax	138.74
				Total Amount in USD	**2,019.74**

Bank Name Vectra Bank Colorado
Bank Account No. 5801330001
Payment Routing No. 102003154

Home Page	Phone No.	Email
www.in-situ.com	800-4IN-SITU	

SWIFT Code ZFNBUS55

Click to Pay

Click Here to Pay

Invoice

Date	Invoice #
10/30/24	208294

Well Tec Services, Inc.
P.O. Box 3375
Beaumont, CA 92223

(909) 754-7020
(951) 849-1601
rwelltec@aol.com

Bill To

West Yost
23692 Birtcher Drive
Lake Forest, CA 92630

Terms	P.O. No.	Project
Net 10	940-80-24-10-350	Borrego Springs

Item	Description	Qty/Hrs	Rate	Amount
Services	Site visit to assess wells	1	2,760.00	2,760.00

Thank you for choosing Well Tec Services Inc.

Please be advised there will be a 3.3% charge per month on late invoices.

4% fee on all credit card transaction.

Total	$2,760.00
Payments/Credits	$0.00
Balance Due	$2,760.00

West Yost Budget Status Report for Grant Component No. 7: Monitoring, Reporting, and Groundwater Management Planning - WY 2025

As of October Billing Period (Month 1 of 6)*

Task	Approved Budget	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Total Spent	Remaining Budget
Totals	$484,174	$69,680.24	$0.00	$0.00	$0.00	$0.00	$0.00	$69,680.24	$414,493.76
Category (a) Component Administration - Category 7	**$37,004**	**$2,998.75**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$2,998.75**	**$34,005.25**
Component Administration	$37,004	$2,998.75						$2,998.75	$34,005.25
Category (b) Planning, Design, Environmental	**$3,002**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$3,002.00**
Planning, Design, Environmental	$3,002	$0.00						$0.00	$3,002.00
Category (c) Construction, Implementation	**$129,390**	**$11,403.75**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$11,403.75**	**$117,986.25**
Address Abandoned Wells	$129,390	$11,403.75						$11,403.75	$117,986.25
Category (d) Monitoring, Assessment	**$267,671**	**$45,603.99**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$45,603.99**	**$222,067.01**
Groundwater Pumping Monitoring - Annual Meter Verification	$6,434	$0.00						$0.00	$6,434.00
Groundwater Pumping Monitoring - Monthly Meter Reading	$12,003	$2,609.25						$2,609.25	$9,393.75
Groundwater Level and Quality Monitoring Program - Semi Annual Monitoring Events	$64,190	$18,532.74						$18,532.74	$45,657.26
Data Management and Reporting Data to DWR Portals	$10,936	$0.00						$0.00	$10,936.00
Annual Water Rights Accounting (Pumping Report)	$11,000	$8,541.25						$8,541.25	$2,458.75
Annual Report to the Court and DWR	$40,188	$8,675.75						$8,675.75	$31,512.25
Redetermination of the Sustainable Yield of the Borrego Springs Subbasin	$27,973	$7,245.00						$7,245.00	$20,728.00
2025 GMP Update	$94,947	$0.00						$0.00	$94,947.00
Category (e) Stakeholder Outreach	**$47,107**	**$9,673.75**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$9,673.75**	**$37,433.25**
Outreach - Board Meetings on Grant Implementation	$0	$0.00						$0.00	$0.00
Outreach - Technical Advisory Committee Working Meetings	$32,564	$8,191.50						$8,191.50	$24,372.50
Outreach - Stakeholder Open House	$12,543	$1,482.25						$1,482.25	$11,060.75
Outreach - Maintain Website and Grant Communications	$2,000	$0.00						$0.00	$2,000.00

*Grant funding period in WY 2025 extends for six months (October 2024 through March 2025)

Approved December 16, 2024

WEST YOST
Water. Engineered.

Remit Payment To:
PO Box 2158
Davis, CA 95617

October 31, 2024

Invoice Number: 2060591

Accounts Payable	Client Project:	Work Order No. 7
Borrego Springs Watermaster	WY Project No:	940-80-24-11
c/o West Yost Associates	Contract Amount:	15,812.00
23692 Birtcher Drive	Job Name:	WY 2025 Component 6: Biological Restoration of Fallowed Lands
Lake Forest, CA 92630		

Professional Services from October 1, 2024 to October 31, 2024

Previously Billed :	**0.00**
Total This Period :	**647.50**
Total Amount Billed to Date including This Invoice :	**647.50**
Amount Remaining in Contract :	**15,164.50**

Professional Personnel

	Hours	Rate	Amount	
Principal Eng/Scientist/Geologist II				
Malone, Andy	1.00	316.00	316.00	
Associate Eng/Scientist/Geologist I				
Salberg, Lauren	1.50	221.00	331.50	
Totals	2.50		647.50	
Total Labor				**647.50**
		Total this Invoice		**$647.50**

Description of Services:

Please see attached description of services

Please direct questions to:

Project Manager Andy Malone
Principal Greg Chung GKC

Grant Component No. 6: Biological Restoration of Fallowed Lands - WY 2025 [(a)]

West Yost - October 2024 Invoiced by Category and Task

Task	Oct-24
Totals	**$647.50**
Category (a) Component Administration - Category 6	**$55.25**
Component Administration	$55.25
Category (d) Monitoring, Assessment	**$276.25**
Task 1 - Data Review	$0.00
Task 2 - Habitat Field Study	$0.00
Task 3 - Sand Fence Case Study	$0.00
Task 4 - Fallowing Rehab Strategies	$276.25
Task 5 - Fallowing Prioritization	$0.00
Category (e) Stakeholder Outreach	**$316.00**
Task 6 - EWG Meetings	$316.00

Notes:

(a) Does not include work performed by Land IQ

Description of Services Rendered
Project 940-80-24-11
Grant Component No. 6: Biological Restoration of Fallowed Lands
Water Year 2025 - Invoice Period: October 1, 2024 to October 31, 2024

The services billed in this invoice are for work performed on the tasks included in Grant Component No. 6: Biological Restoration of Fallowed Lands. The work is the West Yost portion of the total scope of work. The remainder of the scope of work is being performed by Land IQ and its subconsultant UCI.

CATEGORY (A) COMPONENT ADMINISTRATION. The work performed for this task includes monthly project management of the tasks included in Component 6 and preparation of quarterly grant progress reports for submittal to the Borrego Water District (BWD). The work performed during the invoice period includes:

- Performed monthly project management to review scope, schedule, and budget progress.
- Updated budget status table.

CATEGORY (D) MONITORING, ASSESSMENT. The work performed for this task includes the monitoring and reporting portion of the Component 6 tasks. The work performed in this reporting period included:

TASK 1 - DATA REVIEW.
- No work performed in this reporting period.

TASK 2 - HABITAT FIELD STUDY.
- No work performed in this reporting period.

TASK 3 - SAND FENCE CASE STUDY.
- No work performed in this reporting period.

TASK 4 - FALLOWING REHAB STRATEGIES.
- Reviewed work completed for Task 4.

TASK 5 - FALLOWING PRIORITIZATION.
- No work performed in this reporting period.

CATEGORY (E) STAKEHOLDER OUTREACH. The work performed for this task includes stakeholder outreach activities to support the implementation and communication of the Component 6 tasks. The work performed in this reporting period included:

TASK 6 - ENVIRONMENTAL WORKING GROUP MEETINGS.
- Finalized the meeting agenda for November 2024 EWG meeting. Informed the EWG and the Watermaster stakeholders of the meeting date/time and call-in information.

West Yost Budget Status Report for Grant Component No. 6: Biological Restoration of Fallowed Lands - WY 2025 [(a)]

As of October Billing Period (Month 1 of 6) [(b)]

Task	Approved Budget	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Total Spent	Remaining Budget
Totals	**$15,812**	**$647.50**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$647.50**	**$15,164.50**
Category (a) Component Administration - Category 7	**$300**	**$55.25**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$55.25**	**$244.75**
Task 1 - Component Administration	$300	$55.25						$55.25	$244.75
Category (d) Monitoring, Assessment	**$9,512**	**$276.25**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$276.25**	**$9,235.75**
Task 1 - Data Review	$0	$0						$0.00	$0.00
Task 2 - Habitat Field Study	$0	$0						$0.00	$0.00
Task 3 - Sand Fence Case Study	$2,670	$0.00						$0.00	$2,670.00
Task 4 - Fallowing Rehab Strategies	$3,140	$276.25						$276.25	$2,863.75
Task 5 - Fallowing Prioritization	$3,702	$0.00						$0.00	$3,702.00
Category (e) Stakeholder Outreach	**$6,000**	**$316.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$0.00**	**$316.00**	**$5,684.00**
Task 6 - EWG Meetings	$6,000	$316.00						$316.00	$5,684.00

Notes:

(a) - Does not includes work performed by Land IQ for Grant Component No. 6. Land IQ is contracted directly with WM and will be invoiced directly by Land IQ

Borrego Springs Watermaster
Board of Directors Meeting
December 19, 2024
AGENDA ITEM IV.A

To: Board of Directors

From: Andy Malone, Technical Consultant

Date: December 16, 2024

Subject: Scope of Work to Redetermine the 2030 Sustainable Yield

✓ **Recommended Action**	☐ **Provide Direction to Staff**	☐ **Information and Discussion**
✓ **Fiscal Impact**	☐ **Cost Estimate: $**	

Recommended Action

Approve a scope-of-work to redetermine the 2030 Sustainable Yield, and direct Staff/TAC to prepare a refined scope and cost estimate for the portion of the work to be performed in WYs 2026 and 2027.

Fiscal Impact: The total cost to the Watermaster is dependent on the work that is ultimately approved by the Board (and the availability of grant funding). The total estimated cost ranges from $100,000 to $720,000.

Background

Section III.F of the Judgment outlines the process and schedule for redetermining the Sustainable Yield every five years. The Sustainable Yield is to be redetermined through the Technical Advisory Committee (TAC) processes and be based on best available science, including the use of the Borrego Valley Hydrologic Model (BVHM) and consideration of all sources of Basin replenishment and outflow. In tandem with each redetermination, a future scope of work and budget must also be prepared for the technical work to redetermine the Sustainable Yield over the subsequent five-year period.

By January 1, 2025, the Watermaster, with TAC input, must develop a scope of work and budget-level estimates for the next four years (water years [WYs] 2026-29) to redetermine the 2030 Sustainable Yield.

Scope of Work Options

The Technical Consultant developed options for potential scopes of work and tasks to support the redetermination of the 2030 Sustainable Yield. The options for a future scope of work are documented in Attachment A and include:

1. **Minimum Required Scope-of-Work.** This is the minimum scope-of-work required to redetermine the 2030 Sustainable Yield and represents the lowest cost option. The budget-level estimate, given what we know today, is about $100,000. The minimum scope does not include efforts to incorporate other new information/data that could be used to further validate the BVHM and/or improve its ability to simulate the hydrology of the Basin. Therefore, executing this task alone may not be applying "best available science" for the redetermination of the 2030 Sustainable Yield.
2. **Additional/Optional Tasks.** These are additional/optional tasks to redetermine the 2030 Sustainable Yield and *could* be implemented to further validate the BVHM and/or improve its ability to simulate the hydrology of the Basin. These tasks include:
    - **Task 1. Airborne Electromagnetic Survey (AEM) Results** will be reviewed to determine if updates should be made to the hydrogeological conceptual model (HCM) to improve the structure and aquifer properties assigned in the BVHM.
    - **Task 2. Groundwater Dependent Ecosystem (GDE) Study Results** will be reviewed to determine if improvements should be made to the BVHM to improve its ability to simulate the evapotranspiration of shallow groundwater.
    - **Task 3. Monitoring Program Data (groundwater-levels and metered pumping)** will be analyzed to determine if improvements should be made to the BVHM to improve its ability to estimate pumping and/or simulate groundwater levels.
    - **Task 4. Estimates of Natural Inflows**, specifically those estimated by the Basin Characterization Model (BCM), will be investigated to determine if a reproducible method of estimating natural inflows can be developed and used as input data to the BVHM.
    - **Task 5. Other Model Platforms** will be evaluated to determine if the current model platform should be upgraded.

    Each Additional/Optional task would be implemented via a "workflow" process, which includes five steps with "off-ramps" that allow the TAC/Board to recommend whether or not the next step in the workflow needs to be performed. The workflow is organized as follows:

    Step 1. Review New Data and Compare to the BVHM - *The results of Step 1 will be used to determine (i) if the BVHM should be updated (proceed to Step 2) or (ii) that no updates are needed and the BVHM can be used as is to redetermine the 2030 Sustainable Yield (skip to Step 5).*

    Step 2. Develop Methods to Update the BVHM *(then proceed to Step 3)*

    Step 3. Update and Validate the BVHM - *The results of Step 3 will be used to determine: (i) if the model needs to be recalibrated (proceed to Step 4) or (ii) that model recalibration is not needed and the BVHM can be used to redetermine the 2030 Sustainable Yield (skip to Step 5).*

    Step 4. Recalibrate the BVHM *(then proceed to Step 5)*

    Step 5. Redetermine the 2030 Sustainable Yield

Figure 1 of Attachment A shows the workflow process as a flow chart. Attachment A also includes Table 1, which is a budget-level cost estimate for each option and step of the Workflow (Steps 1-5) for the additional/optional tasks. The costs are a high-level estimate that include the costs of performing technical work and following the TAC process (*i.e.* hold TAC meetings, document methods and findings, and develop TAC recommendations).

Except for Step 1, all other steps are dependent on the results from prior steps. As such, the cost of Step 1 is considered the most certain, since this is the only step that will be performed in the first two years of the scope (WY 2026 and 2027).

The cost to perform Step 1 of the additional/optional tasks ranges from $40,000 to $260,000, depending on which tasks are selected. The costs to perform Steps 2 through 5 of the Workflow could cost an additional $100,000 to $460,000, depending on how many optional tasks are selected and the results of the work performed for those tasks. Upon Board approval, the scope and cost estimates will be refined annually based on TAC recommendations and Board input and approval.

TAC and Technical Consultant Recommendations

The TAC and Technical Consultant have considered Board feedback on the potential scope of work options for the redetermination of the 2030 Sustainable Yield, and each has prepared an independent recommendation report to the Watermaster Board. The objective of the reports is to provide the Watermaster Board with technical opinions and justifications to assist the Board in establishing the general scope-of-work to redetermine the 2030 Sustainable Yield.

The *final* TAC and Technical Consultant Recommendation Reports are attached as Exhibits 1 and 2, respectively, and are summarized below.

Summary of TAC Recommendation

Exhibit 1 is the TAC Recommendation Report. The TAC recommendations for the scope-of-work to redetermine the 2030 Sustainable Yield are:

- **Consensus TAC Recommendation:** The Minimum Required Scope-of-Work should not be performed. Instead, some Additional/Optional Tasks should be performed.
- TAC members have differing opinions on which Additional/Optional Tasks should be performed to redetermine the 2030 Sustainable Yield (see Table 1 and 3 of Exhibit 1):
    - **Consensus TAC Recommendation:** The following Additional/Optional Tasks should be performed as part of the scope-of-work:
        - Task 2 - *GDE Study Results* (recommended by all 6 TAC members)
        - Task 3 – *Monitoring Program Data* (recommended by all 6 TAC members)

- **Majority TAC Recommendations:**
  - Task 1 – *AEM Results* should be performed as part of the scope-of-work (recommended by 5 of 6 TAC members). However, 2 of the 5 TAC members who recommended performing this task, recommend it be performed only if grant funding is available.
  - Task 5 – *Other Model Platforms*, should be performed as part of the scope-of-work (recommended by 4 of 6 TAC members). However, 3 of the 4 TAC members who recommended performing this task, recommend it be performed only if grant funding is available.
  - Task 4 – *Estimates of Natural Inflows* should not be performed as part of the scope-of-work (recommended by only 2 of 6 TAC members).

The TAC also ranked the Additional/Optional Tasks in order of priority (see Table 2 of Exhibit 1). The TAC priorities for performing Step 1 of the Additional/Optional Tasks in WYs 2026-2027 are as follows:

- #1 Rank*:* Task 3 – *Monitoring Program Data*
- #2 Rank: Task 2 – *GDE Study Results*
- #3 Rank: Task 1 – *AEM Results*
- #4 Rank: Task 4 – *Estimates of Natural Inflows*
- #5 Rank: Task 5 – *Other Model Platforms*

The total cost[1] of the TAC Consensus Recommendation to perform Additional/Optional Tasks 2 and 3 is approximately $95,000 in WYs 2026-2027.

Summary of Technical Consultant Recommendation

Exhibit 2 is the Technical Consultant Recommendation Report. The Technical Consultant's recommendations for the scope-of-work to redetermine the 2030 Sustainable Yield are:

- The Minimum Required Scope-of-Work should not be performed because it does not represent the use of "best available science."
- Step 1 of the workflow should be performed in WYs 2026-2027 for Additional/Optional Tasks 1, 2, and 3, which include:
  - Task 1 - *AEM Results*
  - Task 2 – *GDE Study Results*

[1] The total estimated cost does not account for efficiencies in performing the TAC process for multiple tasks and any cost savings will be incorporated when the approved scope is refined.

- Task 3 - *Monitoring Program Data*

- All other Additional/Optional Tasks (Tasks 4 and 5) should be considered *only if* additional grant funding is available.
- The Technical Consultant's ranking of Tasks 1-5 are as follows:
  - #1 Rank: Task 3 – *Monitoring Program Data*
  - #2 Rank: Task 2 – *GDE Study Results*
  - #3 Rank: Task 1– *AEM Results*
  - #4 Rank: Task 4 – *Estimates of Natural Inflows*
  - #5 Rank: Task 5 – *Other Model Platforms*

The total cost[2] of the Technical Consultant Recommendation to perform Additional/Optional Tasks 1, 2, and 3 is approximately $150,000 in WY 2026-2027.

Next Steps

At the December 19th meeting, the Board should consider approval of a scope of work to support the redetermination of the 2030 Sustainable Yield. The motion should clearly state which of the Additional/Optional tasks, if any, should be performed. The Board should also direct Staff and the TAC to prepare a refined scope and cost estimate for the work to perform in WYs 2026 and 2027. This cost estimate would be presented for Board consideration as part of its upcoming budgeting process for WY 2026.

Enclosures

Attachment A. Potential Scope-of-Work to Redetermine the 2030 Sustainable Yield – *Water Years 2026 - 2029*

Exhibit 1. TAC Recommendation Report – Scope-of-Work to Redetermine the 2030 Sustainable Yield *Water Years 2026 - 2029*

Exhibit 2. Technical Consultant Recommendation Report - Scope-of-Work to Redetermine the 2030 Sustainable Yield - *Water Years 2026 - 2029*

[2] The total estimated cost does not account for efficiencies in performing the TAC process for multiple tasks and any cost savings will be incorporated when the approved scope is refined.

ATTACHMENT A.

DATE: November 25, 2024

TO: Technical Advisory Committee
Borrego Springs Watermaster

FROM: West Yost Associates
Watermaster Technical Consultant

SUBJECT: **Potential Scope-of-Work to Redetermine the 2030 Sustainable Yield – *Water Years 2026 - 2029***

POTENTIAL SCOPE-OF-WORK TO REDETERMINE THE 2030 SUSTAINABLE YIELD

The potential scope of work is described below by task, including: a problem statement, the objective of the task, a description of the work to complete the task, a high-level cost estimate, an approximate schedule, and a description of the consequences of not performing each task. The potential scope-of-work options include the following and are described in the subsequent sections:

1. **Minimum Required Scope-of-Work.** This option for a potential scope of work represents the minimum required scope of work to redetermine the 2030 Sustainable Yield, and therefore, the lowest cost option.
2. **Workflow for Additional/Optional Tasks.** This option follows a workflow for various additional/optional tasks that could be executed as the scope of work.

Minimum Required Scope-of-Work

This task is considered the minimum effort required to redetermine the 2030 Sustainable Yield and represents the lowest cost option.

REDETERMINE 2030 SUSTAINABLE YIELD WITH NO IMPROVEMENTS TO THE BVHM

Problem Statement: The Sustainable Yield must be redetermined every five years (through the TAC process) based on best available science including BVHM runs and consideration of all sources of Basin replenishment and outflow. The Watermaster has limited resources to perform this work, so this work requires efficiency.

Objective: Redetermine the 2030 Sustainable Yield in the most efficient manner possible.

Task Description: In this task, the BVHM will be extended from WY 2022 to WY 2028 with the following data/information: metered pumping data; land use; crop type; temperature; potential evapotranspiration; precipitation; and surface water inflows. No improvements will be made to the model. The BVHM will be run over the historical period of WY 1930 through WY 2028 to produce an annual water budget for the Basin. The 2030 Sustainable Yield will be determined using the following formula:

2030 Sustainable Yield = Long-term Natural Inflows – Short-term Natural Outflows

Cost Estimate: $75,000 - $100,000.

Schedule: This task must be completed in WY 2029.

Consequence of Not Completing the Minimum Scope: The Judgment requires this task to be performed.

Additional Considerations: The minimum scope does not include efforts to incorporate other new information/data that could be used to further validate the BVHM and/or improve its ability to simulate the hydrology of the Basin. Therefore, executing this task alone may not be applying "best available science" for the redetermination of the 2030 Sustainable Yield.

Workflow for Additional/Optional Tasks

This section describes a proposed workflow to execute various additional/optional tasks during the redetermination of the 2030 Sustainable Yield. These additional/optional tasks *could* be implemented to validate and/or improve the BVHM and its ability to estimate the water budget. The potential tasks include:

Task 1. Airborne Electromagnetic Survey (AEM) Results will be reviewed to determine if updates should be made to the hydrogeological conceptual model (HCM) to improve the structure and aquifer properties assigned in the BVHM.

Task 2. Groundwater Dependent Ecosystem (GDE) Study Results will be reviewed to determine if improvements should be made to the BVHM to improve its ability to simulate the evapotranspiration of shallow groundwater.

Task 3. Monitoring Program Data (groundwater-levels and metered pumping) will be analyzed to determine if improvements should be made to the BVHM to improve its ability to estimate pumping and/or simulate groundwater levels.

Task 4. Estimates of Natural Inflows, specifically those estimated by the Basin Characterization Model (BCM), will be investigated to determine if a reproducible method of estimating natural inflows can be developed and used as input data to the BVHM.

Task 5. Other Model Platforms will be evaluated to determine if the current model platform should be upgraded.

For each task, a workflow would be implemented containing up to five steps. These steps are sometimes interdependent; meaning that the results of one step may require performing another step. As such, the steps are presented as a workflow as illustrated graphically in Figure 1. The workflow allows each task to be performed in logical steps with "off-ramps" that allow the TAC/Board to recommend whether the next step be performed (or not). The workflow is organized as follows:

Step 1. Review New Data and Compare to the BVHM
Note: The results of Step 1 will be used to determine (i) if the model should be updated (proceed to Step 2) or (ii) that no updates are needed and the BVHM can be used to redetermine the 2030 Sustainable Yield (skip to Step 5).

Step 2. Develop Methods

Step 3. Update and Validate the BVHM

Note: The results of Step 3 will be used to determine: (i) if the model needs to be recalibrated (proceed to Step 4) or (ii) that model recalibration is not needed and the BVHM can be used to redetermine the 2030 Sustainable Yield (skip to Step 5).

Step 4. Recalibrate the BVHM

Step 5. Redetermine the 2030 Sustainable Yield

Table 1 contains a high-level cost estimate for each step (Steps 1-5) for each additional/optional task. Except for Step 1, all other steps are dependent on the performance and results from prior steps. As such, the cost of Step 1 is considered the most certain, since this is the only step that will be performed in the first two years of the scope (WY 2026 and 2027). The costs for all other tasks are high-level cost estimates that will be refined if the TAC recommends and the Board approves developing a detailed scope and cost estimate.

Each additional/optional task is described below:

Task 1. Airborne Electromagnetic Survey (AEM) Results

Problem Statement: In 2024, the DWR flew an AEM survey across the Basin to develop new information on the structure and composition of the aquifer system. The survey results may provide improved information on the hydrogeologic conceptual model (HCM) of the Basin, which could then be used to update and improve the BVHM—particularly in areas of the Basin where complex hydrogeology is not well represented in the BVHM.

Objective: Use improved understanding of Basin hydrogeology to update the BVHM and improve its ability to simulate the water budget and groundwater levels.

Task Description: If implemented, this task will follow the proposed workflow:

- *Step 1:* The AEM survey results are reviewed and compared against the current HCM of the BVHM to determine if there are significant differences and, therefore, model updates are recommended. Based on the comparison, the TAC may recommend to the Board that either (i) the differences between the AEM survey data and the current HCM are significant and methods should be developed to update the HCM (proceed to Step 2) *or,* (ii) the differences are not significant, no changes to the model are recommended, and the BVHM can be used to redetermine the 2030 Sustainable Yield (skip to Step 5). ***Estimated cost: $55,000***
- *Step 2:* If the results of Step 1 indicate that the HCM should be updated, then methods for updating the HCM (and associated cost estimates) are developed and recommended for Board approval through the TAC process.
- *Step 3:* The methods developed in Step 2 are implemented and the BVHM is run over the historical simulation period of 1945-2022. The model results are then compared against the model results from the 2025 Redetermination of the Sustainable Yield. Based on the comparison, the TAC may recommend to the Board that either (i) the differences are significant and the model should be recalibrated (proceed to Step 4) *or,* (ii) the differences are not significant and the updated BVHM can be used to redetermine the 2030 Sustainable Yield (skip to Step 5).

- *Step 4:* If the results of Step 3 indicate the need for model recalibration, then the BVHM is extended through WY 2028 and recalibrated.
- *Step 5:* The BVHM is extended from WY 2022 to WY 2028 (if not already extended in Step 4) and run over the historical period of WY 1930 through WY 2028 to produce an annual water budget for the Basin, which is then used to redetermine the 2030 Sustainable Yield.

Consequence of Not Completing Task 1: The value and usefulness of the AEM survey results would not be analyzed and not be used to redetermine the 2030 Sustainable Yield. Not completing this task may bypass the application of "best available science."

Task 2. Groundwater Dependent Ecosystem (GDE) Study Results

Problem Statement: Currently, the BVHM simulates evapotranspiration of shallow groundwater with the FMP and reports this information as a natural outflow of groundwater. By April 2025, the results of a GDE study being performed by UCI in the Mesquite Bosque area near the Borrego Sink will be complete. The GDE study may provide new data and improved understanding of evapotranspiration of shallow groundwater that occurs in the Basin. The new data and improved understanding could potentially be used to improve the BVHM and its ability to estimate the water budget for the Basin.

Objective: Use improved understanding of GDEs in the Basin to update the BVHM and improve its ability to simulate the water budget and groundwater levels.

Task Description: If implemented, this task will follow the proposed workflow:

- *Step 1:* The GDE study results are reviewed and compared against the current BVHM to determine if there are significant differences and, therefore, model updates are recommended. Based on the comparison, the TAC may recommend to the Board that either (i) the differences between the GDE study results and the current BVHM are significant and methods should be developed to update the BVHM (proceed to Step 2) *or,* (ii) the differences are not significant, no changes to the model are recommended, and the BVHM can be used to redetermine the 2030 Sustainable Yield (skip to Step 5). ***Estimated cost: $40,000***
- *Step 2:* If the results of Step 1 indicate that the BVHM should be updated, then methods for updating the BVHM (and associated cost estimates) are developed and recommended for Board approval through the TAC process.
- *Step 3:* The methods developed in Step 2 are implemented and the BVHM is run over the historical simulation period of 1945-2022. The model results are then compared against the model results from the 2025 Redetermination of the Sustainable Yield. Based on the comparison, the TAC may recommend to the Board that either (i) the differences are significant and the model should be recalibrated (proceed to Step 4) *or,* (ii) the differences are not significant and the updated BVHM can be used to redetermine the 2030 Sustainable Yield (skip to Step 5).
- *Step 4:* If the results of Step 3 indicate the need for model recalibration, then the BVHM is extended through WY 2028 and recalibrated.

- *Step 5:* The BVHM is extended from WY 2022 to WY 2028 (if not already extended in Step 4) and run over the historical period of WY 1930 through WY 2028 to produce an annual water budget for the Basin, which is then used to redetermine the 2030 Sustainable Yield.

Cost Estimate: $40,000

Consequence of Not Completing Task 2: The value and usefulness of the GDE study results would not be analyzed and not be used to redetermine the 2030 Sustainable Yield. Not completing this task may bypass the application of "best available science."

Task 3. Monitoring Program Data (groundwater-levels and metered pumping)

Problem Statement: The Watermaster has developed and implemented groundwater monitoring programs, which include the collection of metered groundwater pumping data and measured groundwater-levels. The version of the BVHM used to estimate the 2025 Sustainable Yield used the first two years of metered pumping data from the Watermaster's metering program to improve the ability of the BVHM to simulate groundwater pumping. Additionally, groundwater-level measurements collected through 2022 were used during model calibration. The data collected under these monitoring programs since WY 2022 could be used to improve the ability of the BVHM to estimate groundwater pumping and simulate groundwater levels (or as model validation).

Objective: Use newly collected groundwater data to update the BVHM and improve its ability to estimate groundwater pumping and simulate groundwater levels.

Task Description: If implemented, this task will follow the proposed workflow:

- *Step 1:* The BVHM is extended from WY 2022 to 2025 (or the latest year with data) and run over the historical period of WY 1930 through 2025. The model results are compared to the metered groundwater pumping data and measured groundwater-levels. Based on the comparison, the TAC may recommend to the Board that either (i) the differences are significant and methods should be developed to improve the BVHM (proceed to Step 2) *or,* (ii) the differences are not significant, no changes to the model are recommended, and the BVHM can be used to redetermine the 2030 Sustainable Yield (skip to Step 5). ***Estimated cost: $55,000***
- *Step 2:* If the results of Step 1 indicate that the BVHM should be updated, then methods for updating the BVHM (and associated cost estimates) are developed and recommended for Board approval through the TAC process.
- *Step 3:* The methods developed in Step 2 are implemented and the BVHM is run over the historical simulation period. The model results are then compared against the groundwater monitoring program data to evaluate the need for model recalibration. Based on the comparison, the TAC may recommend to the Board that either (i) the differences are significant and the model should be recalibrated (proceed to Step 4) *or,* (ii) the differences are not significant and the updated BVHM can be used to redetermine the 2030 Sustainable Yield (skip to Step 5).
- *Step 4:* If the results of Step 3 indicate the need for model recalibration, then the BVHM is extended through WY 2028 and recalibrated.

- *Step 5:* The BVHM is extended from WY 2022 to WY 2028 (if not already extended in Step 4) and run over the historical period of WY 1930 through WY 2028 to produce an annual water budget for the Basin, which is then used to redetermine the 2030 Sustainable Yield.

Consequence of Not Completing Task 3: The Watermaster has developed and implemented its groundwater monitoring programs with the stated objective of using the data to improve the BVHM. If the data collected from these programs are not used to evaluate and/or improve the BVHM and redetermine the 2030 Sustainable Yield, then the Watermaster is not utilizing the data as intended. Not completing this task may bypass the application of "best available science."

Task 4. Estimates of Natural Inflows

Problem Statement: The natural recharge to the Basin occurs primarily via stream inflow from the surrounding watersheds (that translate into streambed infiltration overlying the Basin) and subsurface inflow from the surrounding mountain fronts. These sources of natural recharge are key components of the Sustainable Yield. The TAC has identified two issues relating to the estimates of natural recharge that have historically been simulated in the BVHM:

1. Past modeling efforts by the United States Geological Survey (USGS) (Initial BVHM), Dudek (2016 BVHM), and West Yost (2021 BVHM) have used inconsistent and non-reproducible methods for estimating stream inflows to the BVHM domain. As documented in the TM entitled *Extension of the Borrego Valley Hydrologic Model through Water Year 2021* (2021 BVHM TM)[1], the method for estimating stream inflow by the USGS could not be reproduced by Dudek during the 2016 BVHM extension, which resulted in Dudek developing a new methodology, which in turn, could not be reproduced by West Yost during the 2021 or 2022 BVHM extensions. The inability to reproduce methods and results may produce inaccurate estimates for these sources of natural recharge.
2. In all past modeling efforts, the rates of subsurface inflow have been applied at a constant rate of 1,367 acre-feet per year (afy). This rate was first established in the *Initial BVHM* developed by the USGS as a "simplified" average rate of subsurface inflow over the simulation period (Faunt et al., 2015).[2] A constant rate of subsurface inflow does not account for hydrologic variations in the watershed (*e.g.,* more subsurface inflow to the Basin occurs during and after wet years/periods, and less subsurface inflow occurs during and after dry years/periods).

Developing reproducible methods for estimating natural recharge to the Basin was identified as a need by the TAC in its review of the 2021 BVHM TM. This task was considered, but ultimately not recommended by the TAC, for the scope of work to redetermine the 2025 Sustainable Yield.

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[1] West Yost. 2022. *Extension of the Borrego Valley Hydrologic Model through Water Year 2021.* Available at: https://borregospringswatermaster.com/wp-content/uploads/2022/12/TM-940-2021-BVHM-Extension-220921.pdf

[2] Faunt, C.C., C.L. Stamos, L.E. Flint, M.T. Wright, M.K. Burgess, M. Sneed, J. Brandt, P. Martin, and A.L. Coes. 2015. Hydrogeology, hydrologic effects of development, and simulation of groundwater flow in the Borrego Valley, San Diego County, California: U.S. Geological Survey Scientific Investigations Report 2015-5150. Available at: https://pubs.usgs.gov/sir/2015/5150/sir20155150.pdf

Objective: Develop improved and reproducible methods for estimating stream and subsurface inflows to the Basin and use the methods to generate input data for the streamflow routing (SFR) and flow and head boundary (FHB) packages in the BVHM.

Task Description: If implemented, this task will follow the proposed workflow:

- *Step 1:* Methods of estimating stream and subsurface inflows are evaluated, including estimates from the Basin Characterization Model (BCM). If multiple methods are evaluated, a white paper is prepared that compares the different data sources and methods. Estimates of natural inflows are compared against the estimates of inflows from the current BVHM to determine if there are significant differences and, therefore, model updates are necessary. Based on the comparison, the TAC may recommend to the Board that either (i) the differences are significant and methods should be developed to improve the BVHM (proceed to Step 2) *or,* (ii) the differences are not significant, no changes to the model are recommended, and the BVHM can be used to redetermine the 2030 Sustainable Yield (skip to Step 5). ***Estimated cost: $50,000***
- *Step 2:* If the results of Step 1 indicate that the BVHM should be updated, then methods for updating the BVHM (and associated cost estimates) are developed and recommended for Board approval through the TAC process.
- *Step 3:* The methods developed in Step 2 are implemented and the BVHM is run over the historical simulation period of WY 1930 to 2022. The model results are then compared against the model results from the 2025 Redetermination of the Sustainable Yield. Based on the comparison, the TAC may recommend to the Board that either (i) the differences are significant and the model should be recalibrated (proceed to Step 4) *or,* (ii) the differences are not significant and the updated BVHM can be used to redetermine the 2030 Sustainable Yield (skip to Step 5).
- *Step 4:* If the results of Step 3 indicate the need for model recalibration, then the BVHM is extended through WY 2028 and recalibrated.
- *Step 5:* The BVHM is extended from WY 2022 to WY 2028 (if not already extended in Step 4) and run over the historical period of WY 1930 through WY 2028 to produce an annual water budget for the Basin, which is then used to redetermine the 2030 Sustainable Yield.

Consequence of Not Completing Task 4: The TAC and West Yost have previously noted that the methods used by the USGS, Dudek, and West Yost to estimate stream and subsurface inflows have been inconsistent, non-reproducible, not representative of the hydrologic variability that occurs in the watershed over time, and hence, the historical estimates of stream and subsurface inflows used as inputs to the BVHM may not be accurate.

Task 5. Different Model Platforms

Problem Statement: The BVHM uses the first version of the model code One-Water Hydrologic Flow Model (MODFLOW-OWHM 1 [version 1.0.0]) that was released in 2014 and includes Farm Process 3. During the 2016 and 2021 extensions of the BHVM, several “bugs” were identified in MODFLOW-OWHM 1. Examples of bugs identified in the current version of the BVHM include discrepancies between calculations produced by ZoneBudget and model listing file results and differences in the pumping estimated by individual packages vs. pumping reported in the model listing files (West Yost, 2022). The

2021 BVHM TM documented several of these "bugs" and identified that further investigation was warranted to identify why these inconsistencies exist.

The most recent version of MODFLOW-OWHM as of this writing was released in January 2024, known as MODFLOW-OWHM 2 (version 2.3.0). MODFLOW-OWHM 2 includes Farm Process 4 which offers several advancements over Farm Process 3, including: (i) improved water use and allocation between water sources and agricultural demands; (ii) improved support of dynamic land use changes over time; (iii) enhanced crop and irrigation modeling; and (iv) improved handling of water allocation rules.

Another potential model platform is MODFLOW 6, which is the most recent version of the MODFLOW variants. The most recent version of MODFLOW 6 as of this writing was released in May 2024, known as MODFLOW 6 (version 6.5.0). Furthermore, by the time this scope of work is implemented, a newer model version may be available.

This task was proposed, but ultimately not recommended by the TAC, for the scope of work to redetermine the 2025 Sustainable Yield.

Objective: Upgrade the BVHM from MODFLOW-OWHM 1 to a new platform, such as MODFLOW-OWHM 2 or MODFLOW 6.

Task Description: If implemented, this task will follow the proposed workflow:

- *Step 1:* Potential new modeling platforms are researched and a "white paper" is prepared that evaluates and compares the different modeling platforms and the level of effort to convert the BVHM to these platforms. The white paper may also evaluate structural changes to the existing BVHM, such as removing the FMP. The white paper will be reviewed by the TAC and the TAC will have the opportunity to recommend to the Board that either (i) the model platform should be upgraded/migrated to another platform, and hence, methods should be developed for this migration (proceed to Step 2) *or,* (ii) the model platform should not be upgraded/migrated and the BVHM can be used to redetermine the 2030 Sustainable Yield (skip to Step 5). ***Estimated cost: $60,000***
- *Step 2:* If the TAC recommends that the model platform be upgraded in Step 1, then methods for changing the model platform (and associated cost estimates) are developed and recommended for Board approval through the TAC process.
- *Step 3:* The methods developed in Step 2 are implemented and the BVHM is run over the historical simulation period of WY 1930-2022. The model results are then compared against the model results from the 2025 Redetermination of the Sustainable Yield. Based on the comparison, the TAC may recommend to the Board that either (i) the differences are significant and the model should be recalibrated (proceed to Step 4) *or,* (ii) the differences are not significant and the updated BVHM can be used to redetermine the 2030 Sustainable Yield (skip to Step 5).
- *Step 4:* If the results of Step 3 indicate the need for model recalibration, then the BVHM is extended through WY 2028 and recalibrated.
- *Step 5:* The BVHM is extended from WY 2022 to WY 2028 (if not already extended in Step 4) and run over the historical period of WY 1930 through WY 2028 to produce an annual water budget for the Basin, which is then used to redetermine the 2030 Sustainable Yield.

Consequence of Not Completing Task 5: The BVHM will continue to use MODFLOW-OWHM 1, which contains bugs in the code and is no longer maintained by the USGS.

Other Considerations: All models have bugs. West Yost and the TAC are now familiar with the bugs in MODFLOW-OWHM 1, whereas bugs in other model platforms are not yet known.

ATTACHMENTS

Figure 1. Workflow for Additional/Optional Tasks to Redetermine the 2030 Sustainable Yield

Table 1. Cost Estimates for Additional/Optional Tasks

Additional/Optional Tasks

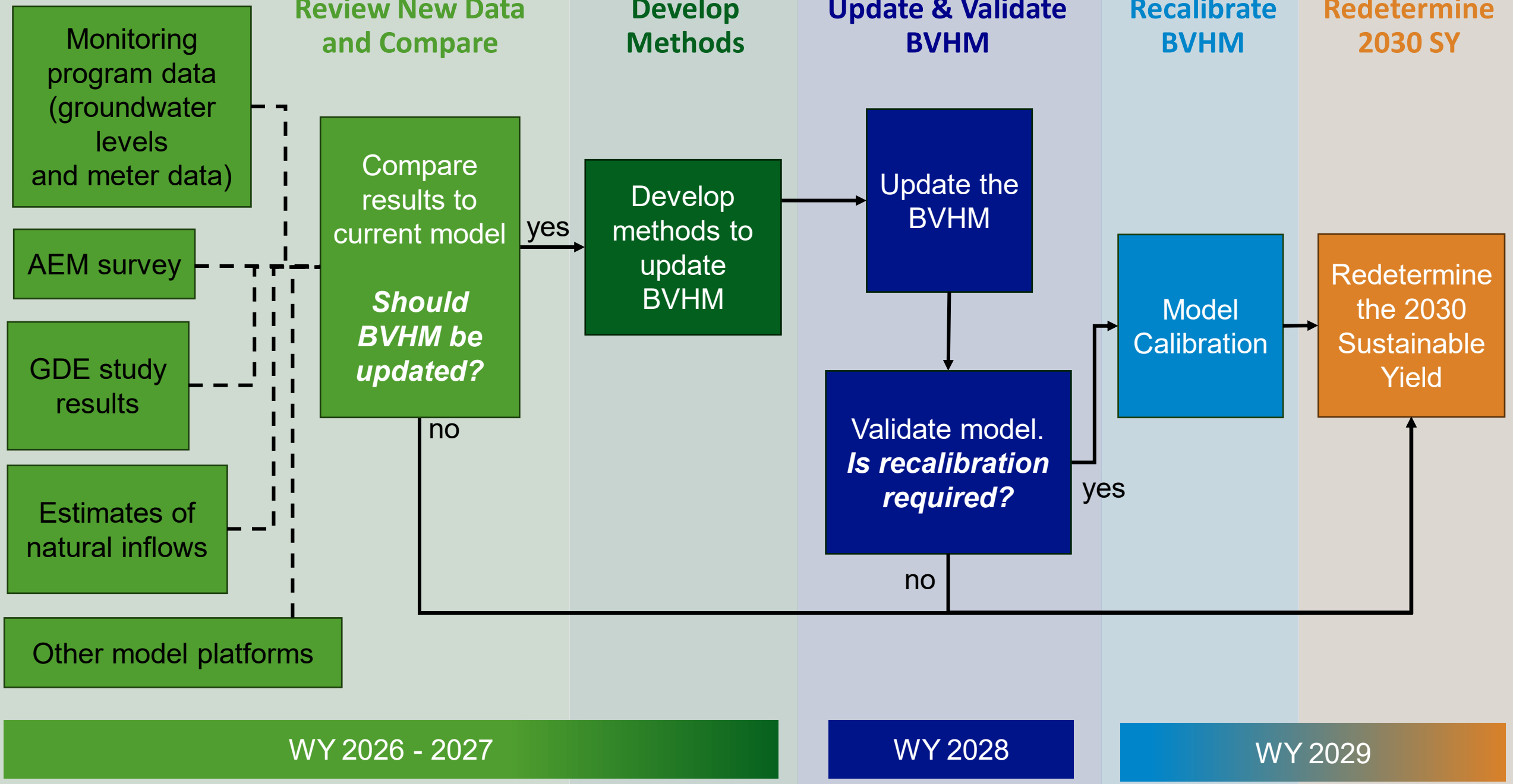


Table 1. Cost Estimate for Additional/Optional Tasks

Step 1. Review New Data and Compare				Step 2. Develop Methods			Step 3. Update & Validate		Step 4. Recalibrate the BVHM		Step 5. Redetermine the 2030 Sustainable Yield
Task 1	AEM Results	**$55,000**	+	AEM Results	**$30,000**	+	**$50,000 - $75,000**	+	**$100,000 - $230,000**	+	**$5,000 - $100,000**
Task 2	GDE Study Results	**$40,000**		GDE Study Results	**$30,000**						
Task 3	Monitoring Program Data (groundwater-level and metered pumping data)	**$55,000**		Monitoring Program Data (groundwater-level and metered pumping)	**$30,000**						
Task 4	Estimates of Subsurface Inflow and Stream Inflow	**$50,000**		Estimates of Subsurface Inflow and Stream Inflow	**$30,000**						
Task 5	Other Model Platforms	**$60,000**		Other Model Platforms	**$30,000**						
Total Cost:		**$40,000 - $260,000**			**$30,000 - $150,000**		**$50,000 - $75,000**		**$100,000 - $230,000**		**$5,000 - $100,000**

TAC RECOMMENDATION REPORT

DATE: December 12, 2024

TO: Board of Directors
Borrego Springs Watermaster

FROM: Technical Advisory Committee
Borrego Springs Watermaster

SUBJECT: Scope-of-Work to Redetermine the 2030 Sustainable Yield
Water Years 2026 - 2029

BACKGROUND AND OBJECTIVES

Section III.F of the Judgment outlines the process and schedule for redetermining the Sustainable Yield of the Borrego Springs Basin (Basin) every five years. The Sustainable Yield is to be redetermined through the Technical Advisory Committee (TAC) processes and be based on best available science, including the use of the Borrego Valley Hydrologic Model (BVHM) and consideration of all sources of Basin replenishment and outflow. In tandem with each redetermination, a future scope of work and budget must also be prepared for the technical work to redetermine the Sustainable Yield over the subsequent five-year period through a process that includes: collecting additional data, refining the BVHM, and using model runs to update the Sustainable Yield.

The Borrego Springs Watermaster (Watermaster), with TAC input, must develop and approve a scope of work and budget to implement over the next four years (water years [WYs] 2026-29) to establish the 2030 Sustainable Yield by January 1, 2030.

POTENTIAL SCOPE-OF-WORK TO REDETERMINE THE 2030 SUSTAINABLE YIELD

West Yost, the Watermaster's Technical Consultant, and the TAC have prepared options for a scope-of-work to redetermine the 2030 Sustainable Yield. Attachment A is a technical memorandum that describes the options for the scope of work for the 2030 Sustainable Yield, which includes:

1. **Minimum Required Scope-of-Work.** This is the minimum scope-of-work required to redetermine the 2030 Sustainable Yield and represents the lowest cost option. The budget-level estimate, given what we know today, is about $100,000. The minimum required scope does not include efforts to incorporate other new data/information that could be used to further validate the BVHM and/or improve its ability to simulate the hydrology of the Basin. Therefore, executing this task alone may not be applying "best available science" for the redetermination of the 2030 Sustainable Yield.
2. **Additional/Optional Tasks.** These are additional/optional tasks to redetermine the 2030 Sustainable Yield and *could* be implemented to further validate the BVHM and/or improve its ability to simulate the hydrology of the Basin. The additional/optional tasks are focused on reviewing/evaluating new data and information and include:
    - **Task 1. Airborne Electromagnetic Survey (AEM) Results.** These results can be reviewed to determine if updates should be made to the hydrogeological conceptual model (HCM) to improve the aquifer geometry, structure, and properties assigned in the BVHM.

- **Task 2. Groundwater Dependent Ecosystem (GDE) Study Results.** These results can be reviewed to determine if improvements should be made to the BVHM to improve its ability to simulate the evapotranspiration of shallow groundwater.
- **Task 3. Monitoring Program Data.** These data (measured groundwater levels and metered pumping data) can be analyzed to determine if improvements should be made to the BVHM to improve its ability to estimate pumping and/or simulate groundwater levels.
- **Task 4. Estimates of Natural Inflows**. New methods can be investigated for the estimation of natural inflows to improve the ability of the BVHM to simulate these inflows.
- **Task 5. Other Model Platforms** will be evaluated to determine if the current model platform should be upgraded.

Following the selection of one or more of these additional/optional tasks, a step-wise workflow can be implemented with logical decision points throughout. The workflow is shown graphically in Figure 1 of Attachment A and is summarized below.

- Step 1. Review New Data and Compare to the BVHM
  Note: The results of Step 1 will be used to determine (i) if the model should be updated (proceed to Step 2) or (ii) that no updates are needed and the BVHM can be used to redetermine the 2030 Sustainable Yield (skip to Step 5).
- Step 2. Develop Methods
- Step 3. Update and Validate the BVHM
  Note: The results of Step 3 will be used to determine: (i) if the model needs to be recalibrated (proceed to Step 4) or (ii) that model recalibration is not needed and the BVHM can be used to redetermine the 2030 Sustainable Yield (skip to Step 5).
- Step 4. Recalibrate the BVHM
- Step 5. Redetermine the 2030 Sustainable Yield

At a minimum, the workflow would include performing Steps 1 and 5. The need to perform steps 2 through 4 is dependent on the outcome of the prior step (*e.g.,* Steps 2 and 3 are depending on the results of Step 1; Step 4 is dependent on the results of Step 3).

ORGANIZATION OF THE TAC RECOMMENDATION REPORT

The remainder of this TAC Recommendation Report includes the following sections:

- **TAC Recommendation.** This section describes the TAC recommendations for the scope-of-work to redetermine the 2030 Sustainable Yield (including any differences in TAC opinions).
- **Supplemental Information**. This section describes the purpose of and requirements for supplemental information prepared by TAC members to support the basis of their recommendations. The supplemental information, if any, is included as an attachment.

TAC RECOMMENDATION

This section describes the TAC recommendations on the scope-of-work to redetermine the 2030 Sustainable Yield (including a description of any differences in TAC member opinions).

- **Consensus TAC Recommendation:** The Minimum Required Scope-of-Work should not be performed. Instead, Additional/Optional Tasks should be performed.
- TAC members have differing opinions on which Additional/Optional Tasks should be performed to redetermine the 2030 Sustainable Yield.

  Table 1 is a summary that shows each TAC member's recommendation of whether to perform each Additional/Optional Task (Yes "Y", Yes but only if grant-funding available "G", or No "N"). Also shown in Table 1 is summary of the estimated cost to perform Step 1 of the Additional/Optional Task, which would be performed in WY 2026-2027. As shown in Table 1:

  - **Consensus TAC Recommendation:** The following Additional/Optional Tasks should be performed as part of the scope-of-work:
    - Task 2 - *GDE Study Results* (recommended by all 6 TAC members)
    - Task 3 – *Monitoring Program Data* (recommended by all 6 TAC members)
  - **Majority TAC Recommendations:**
    - Task 1 – *AEM Results* should be performed as part of the scope-of-work (recommended by 5 of 6 TAC members). However, 2 of the 5 TAC members who recommended performing this task, recommend it be performed only if grant funding is available.
    - Task 5 – *Other Model Platforms*, should be performed as part of the scope-of-work (recommended by 4 of 6 TAC members). However, 3 of the 4 TAC members who recommended performing this task, recommend it be performed only if grant funding is available.
    - Task 4 – *Estimates of Natural Inflows* should not be performed as part of the scope-of-work (recommended by 2 of 6 TAC members).

  The TAC also ranked the Additional/Optional Tasks in order of priority. Table 2 below is a summary that shows each TAC member ranking of the Additional/Optional Tasks. As shown in Table 2, the TAC priorities for performing Step 1 of the Additional/Optional Tasks in WY 2026-2027 are as follows:

  - #1 Rank*:* Task 3 – *Monitoring Program Data*
  - #2 Rank: Task 2 – *GDE Study Results*
  - #3 Rank: Task 1 – *AEM Results*
  - #4 Rank: Task 4 – *Estimates of Natural Inflows*
  - #5 Rank: Task 5 – *Other Model Platforms*

  Table 3 documents each TAC member's justifications or other considerations for their recommendations.

Table 1. TAC Recommendations for a Scope-of-Work to Redetermine the 2030 Sustainable Yield
WY 2026-29

Task No.	Task	Cost Estimate for Step 1	TAC Member Recommendations (Y/G/N)?[1]						Tally of TAC Member Recommendations		
			AAWARE	Borrego Springs Community	BWD	County of San Diego	Rams Hill	Roadrunner Club	Yes	Yes, if Grant Funded	No
1	AEM Results	**$55,000**	N	G	Y	Y	Y	G	3	2	1
2	GDE Study Results	**$40,000**	Y	Y	Y	Y	Y	Y	6	0	0
3	Monitoring Program Data	**$55,000**	Y	Y	Y	Y	Y	Y	6	0	0
4	Estimates of Natural Inflows	**$50,000**	N	G	Y	N	N	N	1	1	4
5	Other Model Platforms	**$60,000**	G	G	N	N	Y	G	1	3	2
	Total Cost of Tasks	**$260,000**	**$95,000**	**$95,000**	**$200,000**	**$95,000**	**$210,000**	**$95,000**			

Notes:
1. Y = "Yes"
G = "Yes, but only if grant-funding available"
N = "No"

Table 2. Summary of TAC Rankings of Additional/Optional Tasks
Scope-of-Work to Redetermine the 2030 Sustainable Yield

Task No.	Task	TAC Member Task Ranking						Average Ranking
		AAWARE	Borrego Springs Community	BWD	County of San Diego	Rams Hill	Roadrunner Club	
1	AEM Results	NR	3	3	1	2	3	**3**
2	GDE Study Results	2	2	3	1	1	2	**2**
3	Monitoring Program Data	1	1	2	2	1	1	**1**
4	Estimates of Natural Inflows	NR	4	1	NR	NR	5	**4**
5	Other Model Platforms	NR	5	NR	NR	3	4	**5**

Notes:
NR = "Not Recommended"

Table 3. TAC Justifications and Other Considerations
Scope-of-Work to Redetermine the 2030 Sustainable Yield

TAC Member and Appointing BPA Party	Justifications/Considerations				
	Task 1. AEM Results	Task 2. GDE Study Results	Task 3. Monitoring Program Data	Task 4. Estimates of Natural Inflows	Task 5. Other Model Platforms
Bob Wagner ***AAWARE***	Not recommended.	Recommend TAC to conduct an initial review. Then decide how to proceed with the results. Cost estimate should be less than $40,000 for this task.	This should be the priority for the next years. Since wells are already almost fully metered, emphasis should be on improving groundwater level monitoring.	Difficult to perform. Not recommended	Recommended only if outside funding is available. The new version of the model platforms will likely not provide different results when recalculating the 2030 Sustainable Yield.
Russell Detwiler ***Borrego Springs Community***	If outside funding is available, it is possible the AEM results could provide useful improvements to the basin conceptual model.	The GDE study should be reviewed and major findings compared to the current BVHM	Comparing model to results to newly available measured data is a high priority for continuing to assess the appropriateness of the currently determined sustainable yield.	It is unclear what methods would be used and it seems unlikely these efforts would lead to significant improvements in what are difficult parameters to estimate. Not recommended.	I do not see a clear benefit in migrating to a new modeling platform. It would entail a significant effort for nominal benefit. Not recommended.
Trey Driscoll ***Borrego Water District***	INTERA has performed preliminary review of the AEM data. While the data may better constrain localized hydrostratigraphy and improve local estimates of aquifer properties, it is unlikely to result in a Subbasin-wide change to the current hydrogeological conceptual model and drive changes to the water budget. As such, this task is of lower priority.	The study should be reviewed and the consumptive use of identified groundwater dependent ecosystems, if present, and other native vegetation should be compared to the water use estimates derived in the BVHM.	BVHM results should be compared to future observed data as a check on the redetermined sustainable yield by comparing pumping, change in groundwater levels and change in groundwater storage.	Recommend documenting the scaling that was used to derive the inflows to the Subbasin using the Basin Characterization Model.	We reached out to the USGS (Scott Boyce) in regard to updating BVHM to the latest version of MODFLOW One-Water Hydrologic Flow Model—Conjunctive Use Simulation Software (MF-OWHM). At this time, we have not identified a substantial reason to update to the latest model code. We recommend setting up an informational meeting with USGS to discuss the pluses and minuses of updating the software prior to any further deliberation on this matter.
Jim Bennett ***County of San Diego***	A review of the AEM would be expected by DWR and could likely cause issues during the next five-year update if there isn't a legitimate discussion addressing the AEM survey and the rationale for either using or not using it.	The study should be reviewed	It is recommended to compare the BVHM to actual pumping data, use pumping data from WY2022 to WY2027, and conduct the evaluation in WY2028. Additionally, do not include a comparison to groundwater levels, as this was never discussed at the TAC and is unnecessary.	This task not recommended as it will not change the uncertainty associated with natural inflows. New numbers will be similarly uncertain and potentially force a $100k-230K recalibration effort.	The current model has been debugged during redetermination of sustainable yield and is adequate.
Tom Watson ***T2 Borrego, Rams Hill***	A review of the AEM would be expected by DWR, but this s a secondary priority.	The study should be reviewed	It is recommended to compare the BVHM to actual pumping data, use pumping data from WY2022 to WY2026	This task not recommended at this time	Recommended as a third order priority
John Peterson ***Roadrunner Club***	As Jim Bennett stated a Review of the AEM is expected from DWR	I believe that the UCI work will be very valuable to understanding our biological systems in Borrego	This has the highest priority for me. It is critical data set that must be expanded.	This is extremely difficult to quantify and it has a low priority for me.	I trust the work that we are using. Low priority for me.

SUPPLEMENTAL INFORMATION

The TAC guidelines[1] allow TAC members to prepare supplemental materials to support the basis of their recommendation, such as memoranda or PowerPoint presentation slides that describe their analyses and recommendations. To be included in the TAC Recommendation Report, all supplemental information must be reviewed and discussed by the TAC.

No supplemental information was provided by a TAC member.

ATTACHMENTS

Attachment A. Potential Scope-of-Work to Redetermine the 2030 Sustainable Yield – *Water Years 2026 – 2029*

[1] Available on the Watermaster's website at: https://borregospringswatermaster.com/wp-content/uploads/2023/03/Resolution-23-01-Guidelines-for-TAC-Process-Executed.pdf

TECHNICAL CONSULTANT RECOMMENDATION REPORT

DATE: December 12, 2024

TO: Board of Directors
Borrego Springs Watermaster

FROM: Technical Consultant (West Yost)
Borrego Springs Watermaster

SUBJECT: Scope-of-Work to Redetermine the 2030 Sustainable Yield –
Water Years 2026 - 2029

BACKGROUND AND OBJECTIVES

Section III.F of the Judgment outlines the process and schedule for redetermining the Sustainable Yield of the Borrego Springs Basin (Basin) every five years. The Sustainable Yield is to be redetermined through the Technical Advisory Committee (TAC) processes and be based on best available science, including the use of the Borrego Valley Hydrologic Model (BVHM) and consideration of all sources of Basin replenishment and outflow. In tandem with each redetermination, a future scope of work and budget must also be prepared for the technical work to redetermine the Sustainable Yield over the subsequent five-year period through a process that includes: collecting additional data, refining the BVHM, and using model runs to update the Sustainable Yield.

The Borrego Springs Watermaster (Watermaster), with TAC input, must develop and approve a scope of work and budget to implement over the next four years (water years [WYs] 2026-29) to establish the 2030 Sustainable Yield by January 1, 2030.

POTENTIAL SCOPE-OF-WORK TO REDETERMINE THE 2030 SUSTAINABLE YIELD

West Yost, the Watermaster's Technical Consultant, and the TAC have prepared options for a scope-of-work to redetermine the 2030 Sustainable Yield. Attachment A is a TM describing the options for the potential scope-of-work, which include:

1. **Minimum Required Scope-of-Work.** This is the minimum scope-of-work required to redetermine the 2030 Sustainable Yield and represents the lowest cost option. The budget-level estimate, given what we know today, is about $100,000. The minimum scope does not include efforts to incorporate other new information/data that could be used to further validate the BVHM and/or improve its ability to simulate the hydrology of the Basin. Therefore, executing this task alone may not be applying "best available science" for the redetermination of the 2030 Sustainable Yield.

1. **Additional/Optional Tasks.** This scope-of-work includes up to five additional/optional tasks that *could* be implemented to validate and/or improve the BVHM and its ability to estimate the water budget. The additional/optional tasks are focused on reviewing/evaluating new data and information and include:

- **Task 1. Airborne Electromagnetic Survey (AEM) Results** would be reviewed to determine if updates should be made to the hydrogeological conceptual model (HCM) to improve the structure and aquifer properties assigned in the BVHM.
- **Task 2. Groundwater Dependent Ecosystem (GDE) Study Results** would be reviewed to determine if improvements should be made to the BVHM to improve its ability to simulate the evapotranspiration of shallow groundwater.
- **Task 3. Monitoring Program Data (groundwater-levels and metered pumping)** would be analyzed to determine if improvements should be made to the BVHM to improve its ability to estimate pumping and/or simulate groundwater levels.
- **Task 4. Estimates of Natural Inflows** would include investigating new reproducible methods of estimating natural inflows for use as input data to the BVHM.
- **Task 5. Other Model Platforms** would be evaluated to determine if the current model platform should be upgraded.

These tasks would be implemented via a workflow, in which each task is performed in logical steps with "off-ramps" that allow the TAC/Board to recommend whether the next step be performed (or not). The workflow is shown graphically in Figure 1 of Attachment A and is summarized below.

- Step 1. Review New Data and Compare to the BVHM
  Note: The results of Step 1 will be used to determine (i) if the model should be updated (proceed to Step 2) or (ii) that no updates are needed and the BVHM can be used to redetermine the 2030 Sustainable Yield (skip to Step 5).
- Step 2. Develop Methods
- Step 3. Update and Validate the BVHM
  Note: The results of Step 3 will be used to determine: (i) if the model needs to be recalibrated (proceed to Step 4) or (ii) that model recalibration is not needed and the BVHM can be used to redetermine the 2030 Sustainable Yield (skip to Step 5).
- Step 4. Recalibrate the BVHM
- Step 5. Redetermine the 2030 Sustainable Yield

At a minimum, the workflow would include performing Steps 1 and 5. The need to perform steps 2 through 4 is dependent on the outcome of the prior step (*e.g.,* Steps 2 and 3 are depending on the results of Step 1; Step 4 is dependent on the results of Step 3).

TECHNICAL CONSULTANT RECOMMENDATION

West Yost has considered these options for a scope-of-work to redetermine the 2030 Sustainable Yield and has prepared the following recommendations for the Watermaster Board:

- **The Minimum Required Scope-of-Work should <u>not</u> be performed because it does not represent the use of "best available science."** The minimum scope does not include efforts to incorporate other new information/data that could be used to further validate the BVHM and/or improve its ability to simulate the hydrology of the Basin. Therefore, executing this task does not utilize "best available science" for the redetermination of the 2030 Sustainable Yield.

- **Step 1 of the workflow should be performed in WY 2026-2027 for Additional/Optional Tasks 1, 2, and 3.** The value and usefulness of the new data/information within Tasks 1 - 3 should be analyzed and used to redetermine the 2030 Sustainable Yield. Not evaluating this new data/information may bypass the application of "best available science." Tasks 1 through 3 include the review of the following information:
    - **Task 1. Airborne Electromagnetic Survey (AEM) Results**
    - **Task 2. Groundwater Dependent Ecosystem (GDE) Study Results**
    - **Task 3. Monitoring Program Data**

  The evaluation of the results of Step 1 for Task 1-3 should then be used to recommend subsequent steps to perform in WY 2028-2029. **The cost for performing Step 1 for Tasks 1-3 is approximately $150,000 for WY 2026-2027**. The total cost to complete the scope of work may be up to $420,000 for WY 2026-2029 if all five steps of the workflow are recommended and implemented. However, because all steps (except Step 1) are dependent on the performance and results from prior steps, the additional steps in the workflow (Steps 2-5) will not be implemented unless the TAC recommends and the Board approves proceeding with the subsequent step(s).
- **All other Additional/Optional Tasks (Tasks 4 and 5) should be considered *only if* additional grant funding is available.**
- **The Technical Consultant's ranking of Tasks 1-5 are as follows:**
    - #1 Rank: Task 3. Monitoring Program Data
    - #2 Rank: Task 2. Groundwater Dependent Ecosystem (GDE) Study Results
    - #3 Rank: Task 1. Airborne Electromagnetic Survey (AEM) Results
    - #4 Rank: Task 4. Estimates of Natural Inflows
    - #5 Rank: Task 5. Other Model Platforms

ATTACHMENTS

Attachment A. Potential Scope-of-Work to Redetermine the 2030 Sustainable Yield – *Water Years 2026 - 2029*

Borrego Springs Watermaster
Board of Directors Meeting
December 19, 2024
AGENDA ITEM IV.B

To: Board of Directors

From: Samantha Adams, Executive Director

Date: December 16, 2024

Subject: Draft Analysis of Carryover Rules

✓ **Recommended Action**	☐ **Provide Direction to Staff**	☐ **Information and Discussion**
☐ **Fiscal Impact**	☐ **Cost Estimate: $**	

Recommended Action

Recommend no amendments to Carryover as defined in the Judgment and revisit the Carryover Analysis in 2030, following completion of the redetermination of the 2030 Sustainable Yield.

Fiscal Impact: Revisiting the analysis in 2030 is not required by the Judgment and would represent an additional cost to the Pumpers at the time the analysis is performed. The cost will be determined closer to the time the analysis would need to be performed and would leverage the work being done at that time to redetermine the 2030 Sustainable Yield.

Carryover Analysis Objectives

At its September 2024 meeting, the Watermaster Board discussed the Judgment requirement to assess Carryover by January 1, 2025, and some of the challenges of projecting pumping and the use of Carryover at this early stage of the Rampdown (four years in). The discussion occurred in the context of a broader discussion on the schedule to complete multiple Judgment requirements by the same date. At the conclusion of the discussion, the Board directed staff to adhere to the January 1, 2025 deadline to assess Carryover using a simple analysis based on the best available information and professional judgment. The purpose of this memo is to document staff's analysis of Carryover, including staff's recommended actions based on the analysis.

Background and Carryover Definitions

The key management action to achieve sustainability in the Borrego Springs Subbasin (Basin) is the Rampdown of pumping over a 20-year period such that by 2040 the aggregated Annual Allocation of pumping rights to all Parties would be equal to the Sustainable Yield of the Basin. The original Groundwater Sustainability Plan (GSP) prepared by the Groundwater Sustainability Agency envisioned a straight-line annual reduction of pumping to achieve the Sustainable Yield by 2040, then 5,700 acre-ft per year (afy). Under the 2020 Sustainable Yield, a total of 114,000 (= 5,700 afy x 20 years) acre-feet (af) could be sustainably pumped from the Basin over the 20-year implementation period of water

year (WY) 2021 through WY 2040. Under a straight-line Rampdown, the GSP proposed to allow a total of 290,364 af of pumping to reach sustainability over time and minimize pumping in excess of the Sustainable Yield. This schedule of pumping reductions in the GSP would allow 176,634 af of groundwater to be pumped in excess of the Sustainable Yield (176,634 af = 290,364 af - 114,000 af).

During the negotiation of the Settlement Agreement that led to the water rights adjudication, an accelerated Rampdown was proposed that would require larger cuts to the annual pumping Allocation in the first ten years of implementation as compared to the straight-line reduction recommended in the GSP. Relative to a Sustainable Yield of 5,700 afy, the accelerated Rampdown reduces the total pumping Allocation over the 20-year implementation period to 262,134 af. And, as a result, it reduces pumping in excess of the Sustainable Yield to 148,134 af (a reduction of 16% relative to the straight-line Rampdown). The accelerated Rampdown would in turn reduce the rate of groundwater-level declines and the potential for Undesirable Results.

At its December 5, 2024 meeting, the Board adopted a revised Sustainable Yield of 7,952 afy, based on detailed technical analysis performed and presented by the Watermaster's Technical Consultant and with input from the Technical Advisory Committee (TAC). Under the 2025 Sustainable Yield, a total of 159,040 af could be sustainably pumped through WY 2040 (159,040 af = 7,952 afy x 20 years). Under the revised Rampdown to the new Sustainable Yield of 7,952 afy, a total of 304,337 af of pumping is allowed over the 20-year implementation period, which results in a 145,297 af of groundwater pumping in excess of the Sustainable Yield (145,297 af = 304,337 af - 159,040 af). This is 18% less than the allowable excess pumping of the Sustainable Yield under the straight-line Rampdown proposed in the GSP, illustrating that the accelerated Rampdown is still providing the intended benefits towards accelerating sustainability in the Basin.

The addition of Carryover as a component of the water rights held by Parties with a Baseline Pumping Allocation (BPA) was a critical factor in negotiating the final Settlement Agreement that provided for the accelerated Rampdown of pumping in the Judgment and its associated Groundwater Management Plan (GMP). The Carryover provision incorporated into the Judgment allows Pumpers to Carryover any unused annual pumping allocation for use in the subsequent year, subject to certain limitations. Carryover provides pumpers with the flexibility to adapt their operations to comply with the accelerated Rampdown and better enables them to exercise the water rights afforded by the Judgment, subject to certain limitations in how Carryover is accounted.

The Judgment defines Carryover and the mechanisms and limitations for accruing and using it, as follows:

> **Carryover Definition.** Any portion of a Party's Annual Allocation not Pumped in the Water Year in which it is allowed, which may be accrued and produced in future Water Years, provided that the Party complies with the provisions of Section III.B of the Judgment (Section I.A)
>
> **Carryover Limits:** The initial maximum quantity of Carryover that a Party can accrue is two times the amount of Baseline Pumping Allocation (BPA) then held by that Party (Section III.B). The maximum allowable Carryover balance, in aggregate, would be 48,586 acre-feet (af).

Carryover Elections. Annually during the Water Rights Accounting process, each Party is given the opportunity to elect to purchase unused Annual Allocation as Carryover. There is a 16-day window during which the election can be made (October 16th through 31st). If the Carryover is not timely elected, it is foregone and all rights to pump it are lost. Parties not in good standing (*i.e.,* not reporting pumping or have unpaid pumping assessments) are not eligible to purchase Carryover (Section IV.E.3).

Accounting of Carryover towards Pumping and Overproduction. The first groundwater pumped by a Party each year is deemed to be an exercise of any available Carryover. When calculating a Party's annual water use, any Carryover is applied first, followed by any leased Annual Allocation, and then the Party's current Annual Allocation. (Section III.G).

No Adjustments of Accrued Carryover: Once Carryover has been accrued under the Carryover rules then in effect, the rules cannot be changed in a way that retroactively affects accumulated Carryover. Accordingly, any Basin-wide need for reduced pumping will be achieved through additional Rampdown of BPA rather than reductions to any Party's accrued Carryover (Section III.B)

Duration of Carryover. The Judgment does not specify an expiration date on the process to accrue Carryover, nor on the Carryover accrued by Parties.

Evaluation of Carryover. Carryover will be re-evaluated by January 1, 2025, by Watermaster, with consultation of the Technical Advisory Committee. If Watermaster determines that it is necessary to adjust the amount of individual Carryover or the duration that Carryover may be held within the Basin to prevent Undesirable Results, the Watermaster shall advise the Court through a noticed motion for a subsequent order amending the Judgment (Section III.B).

Accrual and Use of Carryover: WY 2021 to WY 2024

Each year, starting with the conclusion of water year (WY) 2021, Watermaster staff has performed detailed Water Rights Accounting in accordance with the Judgment. The Carryover Elections are presented annually to the Board in November and subsequently documented in the Annual Report to the Court and the Department of Water Resources. The enclosed figures illustrate the accrual and use of Carryover over the last four WYs, as described below.

Figure 1 compares the Annual Allocation for WYs 2021 through 2025 to the total Pumping through WY 2024 (period that just ended September 30, 2024). The Annual Allocation eligible for Carryover is the difference between the Allocation and the total amount pumped. As presented and discussed over the years, the Parties are significantly ahead of the accelerated Rampdown schedule, meaning they are pumping less than the Annual Allocation each year. As such, most Parties have had the ability to elect (purchase) their unused Annual Allocation as Carryover.

Figure 2 shows the Annual Allocation eligible for Carryover and the amount of Carryover Elected by Parties for WYs 2021 through 2024. Since WY 2021, a total of 54,652 af of unpumped Annual Allocation has been eligible for purchase and a total of 45,682 af (84%) was elected. Over this four-year period, annual elections of Carryover ranged from 82 to 87% of the eligible amount. This demonstrates that not all Carryover rights are being exercised.

Figure 3 is a chart that shows the portion of total pumping that was deemed an exercise of Carryover for WY 2021-2024 based on the Judgment accounting process. This chart helps illustrate why there is a large amount of Carryover eligible for purchase each year. Because the first water pumped is deemed an exercise of Carryover, a much smaller portion of the Annual Allocation is used and becomes eligible Carryover (subject to the maximum Carryover limit of each Party). For example, in WY 2024, 85% of total pumping was deemed an exercise of Carryover.

Figure 4 shows the aggregate end-of-year Carryover account balance for WYs 2021 through 2024. The figure shows there was an initial rapid rate of accrual of Carryover resulting from exceeding the Rampdown schedule, however the rate of increase in Carryover decreased in the most recent year, WY 2024. By the end of WY 2024, there was a total of 24,960 af of Carryover held by the Parties.

As illustrated in the figures, the full benefit of Carryover has not been exercised during WY 2021 to WY 2024. A total of 8,970 af of Carryover rights was forgone and was effectively left in the Basin (e.g., the dark blue portion of the bars shown in Figure 2). As a result, the actual pumping from storage in excess of the Sustainable Yield over the implementation period has been reduced by the amount of foregone Carryover to date (e.g., 8,970 af).

Analysis of Carryover

The Carryover rules should only be changed if they prevent the Watermaster Parties from achieving sustainability by 2040 and beyond by causing Undesirable Results that cannot be mitigated. As defined in the Judgment, Sustainable Groundwater Management is "management of the Basin and Pumping and use of Groundwater from the Basin in a manner that can be maintained during the Planning and Implementation Horizon without causing Undesirable Results, consistent with SGMA" (Section I.A.56). And, "… the Physical Solution prescribed by the Judgment will be implemented to ensure that the Basin is operated within its Sustainable Yield, consistent with SGMA" (Section I.A.45).

In our analysis of Carryover, we considered the following questions:

1. Could the Carryover rules defined in the Judgment enable Parties to pump in excess of the Sustainable Yield beyond 2040?
2. If yes, would that lead to a potential occurrence of Undesirable Results?

A simple analysis can only address question #1. Modeling is required to answer question #2. Answering question #2 can be done as a follow-up exercise, as part of the planned analysis of the long-term sustainability of the 2025 Sustainable Yield using the BVHM (see below).

As part of the grant-funded work to redetermine the Sustainable Yield and review the Groundwater Management Plan (GMP), staff reached out to all of the Parties that are active Pumpers in the Basin to understand their future pumping plans, including how they will adjust pumping to comply with the Rampdown and ultimately pump at their allocation of the Sustainable Yield. The purpose of this outreach is to prepare future pumping projections that can be simulated using the Borrego Valley Hydrologic Model (BVHM). The model results will be used to determine if there is the potential for Undesirable Results to occur (relative to groundwater levels and storage) under the revised 2025

Sustainable Yield. The future pumping projections will assume the use of Carryover by the Parties (to the extent the identify they will use it), as allowed by the Judgment.

A majority of Parties expressed that they wished to continue pumping and adjust their operations to comply with the Rampdown. Most of these Parties also stated that they intend to maximize the use of Carryover to support their ability to make pumping adjustments over time, and to help determine when they should implement operational adjustments that would reduce their annual pumping demands. Several Parties explained that they intend to make stepwise changes to their operations, rather than change everything all at once. Also of note is that while most Parties desire to remain in operation, their ability to do so will be influenced by a number of factors, including future revisions to the Sustainable Yield (2025, 2030, and 2035) and external economic/market factors. With that in mind, the Parties advised that their pumping projections should be considered "preliminary" and that additional adjustments may be considered over the next several years of the Rampdown.

As of the writing of this memo, Watermaster staff are still working with the Parties to prepare the pumping projections and we do not have a projection prepared that is representative of the entire Basin. However, we were able to use the information learned from the Parties so far to prepare a future pumping projection and Carryover accounting to start to answer question #1 and identify potential future issues as they relate to the accrual and use of Carryover. The example projection is a generalized representation of the planned pumping of a subset of Parties with a combined BPA of 4,000 af. The BPA and pumping were rounded to anonymize this analysis, as it is not important to this analysis or its conclusions which Parties the example represents. What is important is that this example represents a realistic representation of how pumping could change over time for this subset of Parties.[1]

The enclosed figures 5 and 6 illustrate the use of Annual Allocation and Carryover for WY 2021 through WY 2070 for the example subset of Parties who are operating in accordance with the existing rules of the Judgment.

Figure 5 is a time-series chart for WY 2021 through WY 2070 that shows the example pumping projection, including the accrual and use of Carryover. Figure 5 includes:

- The Annual Allocation of pumping based on 4,000 af of BPA (red dashed line) under the 2025 Sustainable Yield is 7,952 af.
- Total annual pumping, including the portion deemed to be an exercise of Carryover (the blue bars represent the portion of pumping deemed an exercise of Carryover and the green bars represent the portion that is deemed an exercise of Annual Allocation). For WY 2021 through WY 2024, the chart represents "actual" pumping and Carryover elections, the remainder years (WY 2025 – 2070) represent a pumping projection.
- The end-of-year Carryover account balance, assuming that the Parties purchase 100% of their eligible Carryover each year (black line).

[1]The analysis makes the simplifying assumption that this subset of Parties will all make their stepwise operational adjustments at the same time during the projection.

The pumping projection assumes that the Parties make three adjustments to their pumping operations over time to step-down demand in 2025, 2040, and 2065. The timing was based on the direction to assume that operational adjustments would be implemented when needed based on availability of Carryover water to supplement the Annual Allocation.

Interpretation of Figure 5 reveals the following:

- The Parties' pumping is less than the Rampdown schedule through 2035.
- The total Carryover account balance reaches the maximum allowable of 8,000 af (2x BPA of 4,000) in 2031. The Carryover account balance begins to decline starting in 2037.
- Due to the full Carryover account balance in 2040 (7,000 af), the Parties are able to pump in excess of the 2040 Annual Allocation through 2064, which is 24 years beyond the period when pumping is intended to be within the Sustainable Yield. In this example, the available Carryover results in the Parties pumping about 20% more groundwater than afforded by the 2025 Sustainable Yield.

Figure 6 compares the cumulative allowed pumping under the Annual Allocation (orange line) to the cumulative projected pumping utilizing Carryover for the example Parties (blue line) through 2070. The orange line represents the maximum allowable pumping in accordance with the Rampdown for the period shown. The figure demonstrates that the total cumulative pumping allowed by the Annual Allocation through 2070 is 89,063 af. Under the cumulative pumping projection of the Parties, about 97% of the Annual Allocation is pumped through 2070 (86,621 af). What is notable is that for the period through 2040, the pumping projection (40,881 af) is significantly less than the Annual Allocation under the Rampdown (50,033 af) for this period (about 20% less). What this demonstrates is that even though this subset of Parties might pump more than their allocation of the Sustainable Yield for a period of time beyond 2040, that cumulatively over time, the pumping will be less than allowed by the Annual Allocation.

The example presented in Figure 5 shows that it is possible for Parties to pump in excess of the 2040 Annual Allocation (*e.g.,* the Sustainable Yield) by utilizing their accrued Carryover as allowed by the current Judgment rules. Thus, there is a potential that the Carryover rules could result in pumping in excess of the Sustainable Yield beyond 2040, in some cases. However, an important caveat to this analysis is the fact that Sustainability of the Basin is measured on a basin-wide scale, thus this analysis should not be interpreted to conclude that the Basin will be operated outside of the Sustainable Yield beyond 2040, simply that it is possible to do so under the current rules if ***all*** Parties operated in the manner illustrated in this example. In this way, the analysis simply illustrates the ***potential*** for Carryover rules to result in pumping in excess of the Sustainable Yield; it does not suggest this will actually occur based on our current knowledge of Pumper plans.

Conclusions and Recommendations

In performing this analysis of the Carryover rules, we considered the following question: Could the Carryover rules defined in the Judgment enable Parties to pump in excess of the Sustainable Yield beyond 2040? We illustrated how pumping in excess of the Sustainable Yield is possible based on a pumping projection for a subset of Parties, but do not yet have the information developed to suggest

that this is possible on a Basin-wide scale. Given that less than the total eligible Carryover is being elected, an average of about 84% (to date), the risk of total Basin-wide pumping exceeding the Sustainable Yield is lower. Staff expects to have a projection representative of Basin-wide conditions in the next month or so as we near completion of the analysis of future pumping under the 2025 Sustainable Yield.

Given that Parties are significantly ahead of the Rampdown schedule, that only about 84% of Carryover is being exercise, and that cumulative pumping over time will be less than what is allowed under the Judgment through the Annual Allocation, we do not anticipate experiencing Undesirable Results in the near-term relative to what was assumed in the GMP. This conclusion is supported by the outcomes of the annual calculation of the change in groundwater storage in the Basin which shows that the rate of decline in groundwater storage has decreased since the start of Judgment implementation (see slides 58 – 75 from December 5, 2024 meeting presentation, for example).

While the analysis illustrates the potential for Parties to pump in excess of the Sustainable Yield beyond 2040, it is important to note and re-iterate limitations and caveats of this work:

- The Watermaster is only four years into the pumping Rampdown, and hence, it is too soon for Parties to definitively articulate their pumping plans beyond 2030.
- Sustainability of the Basin is measured on a Basin-wide scale, thus this analysis should not be interpreted to conclude that the Basin will be operated outside of the Sustainable Yield beyond 2040, only that it is possible to do so under the current rules if all Parties operated in the manner illustrated in this example. In this way, the analysis simply illustrates the potential for Carryover rules to result in pumping in excess of the Sustainable Yield; it does not suggest this will actually occur based on our current knowledge of Pumper plans.
- As previously mentioned, the BVHM would need to be used to assess the magnitude and location of any impacts associated with any pumping in excess of the Sustainable Yield, which is beyond the scope of this analysis. The preliminary pumping projection being developed to support the GMP Assessment could be used to assess if and how Carryover might be a cause of any potential Undesirable Results.

For these reasons, Staff believes it would be premature to consider revising the existing Carryover rules at this time, especially given that any potential impact is likely to occur after 2040. Given this uncertainty, it would be more appropriate for the Watermaster to revisit these questions as part of the redetermination of the 2030 Sustainable Yield. In the meantime, the planned use of the BVHM to assess a future pumping projection could help to refine how Carryover could be analyzed in the future.

TAC Input

The Judgment requires that the analysis of Carryover be done in consultation with the TAC. The following steps were taken to consult with the TAC:

- An initial draft analysis was presented to the TAC at its November 19, 2024 meeting. The draft analysis was documented in the meeting presentation and the TAC was invited to submit

comments or questions in writing prior to Staff documenting the analysis in a draft memorandum. No comments or questions were received.

- A draft memorandum documenting the Carryover analysis was emailed to the TAC on November 27, 2024 with a request to obtain their input and feedback at its meeting on December 9, 2024.
- The draft analysis, including input and feedback received from the Board at the December 5, 2024 meeting, was presented to and discussed with the TAC at its December 9, 2024 meeting. Based on the discussion, three TAC members (representing BWD, AAWARE, and Ram's Hill) concurred with Staff's recommendation to make no changes to Carryover at this time and to revisit the analysis in 2030. The other three TAC members present (representing the Community, the Roadrunner Golf and Country Club, and the County of San Diego) did not provide comments on the recommendation.

Next Steps

Staff recommends the Board act on the findings of this analysis, specifically to (1) conclude that it is premature to amend the Carryover rules defined in the Judgment and (2) request the Watermaster revisit the Carryover Analysis in 2030, following completion of the redetermination of the 2030 Sustainable Yield.

The Board's action with regard to Carryover will be reported to the Court as part of the February 2025 status conference with the Judge to demonstrate that the Judgement requirement to evaluate Carryover by January 1, 2025 has been met.

Enclosures

Figures 1 through 6

Figure 1. Annual Allocation Under Rampdown from 2020 to 2025

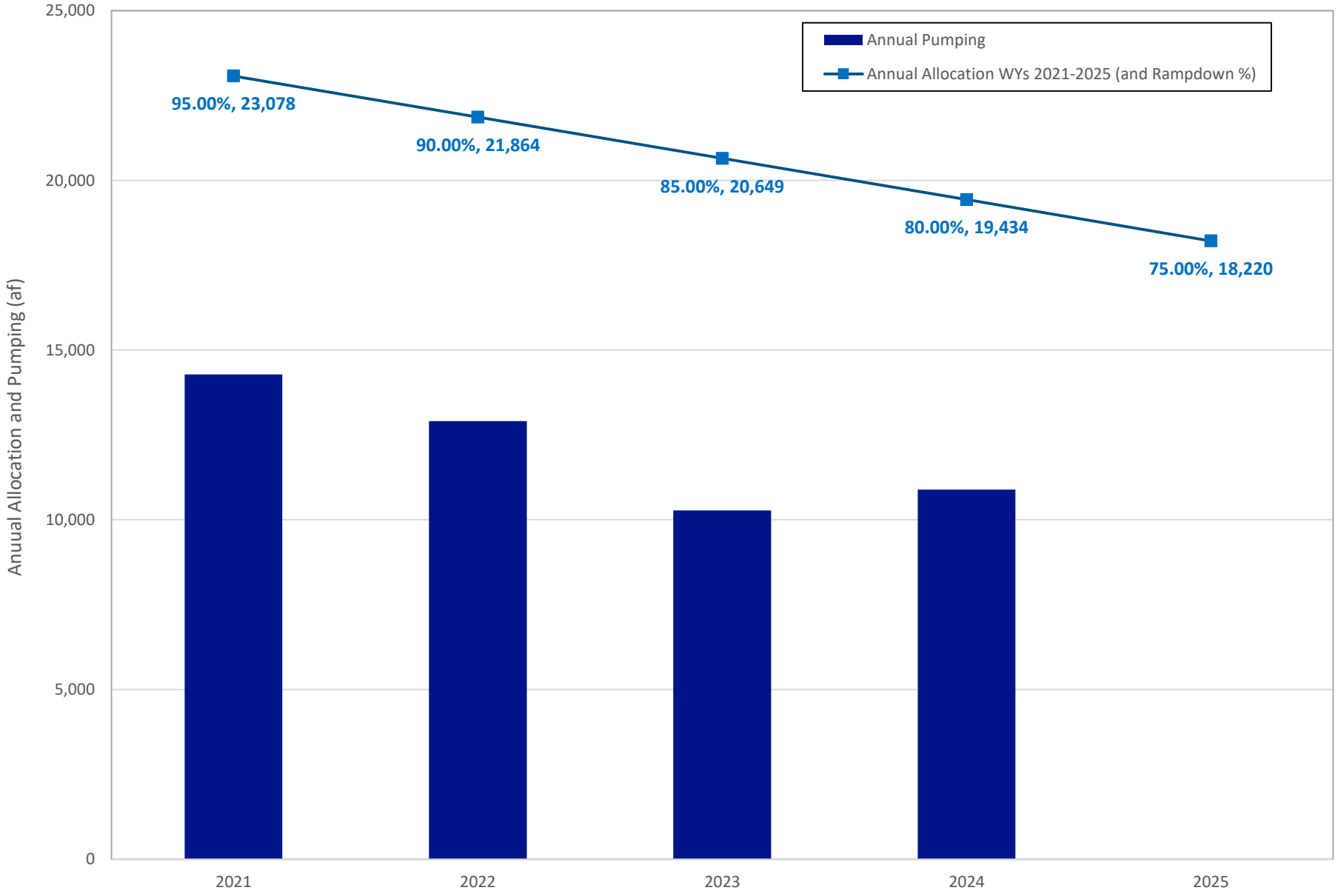


Figure 2. Allocation Eligible for Carryover vs. Carryover Elected, *WY 2021 - 2024*

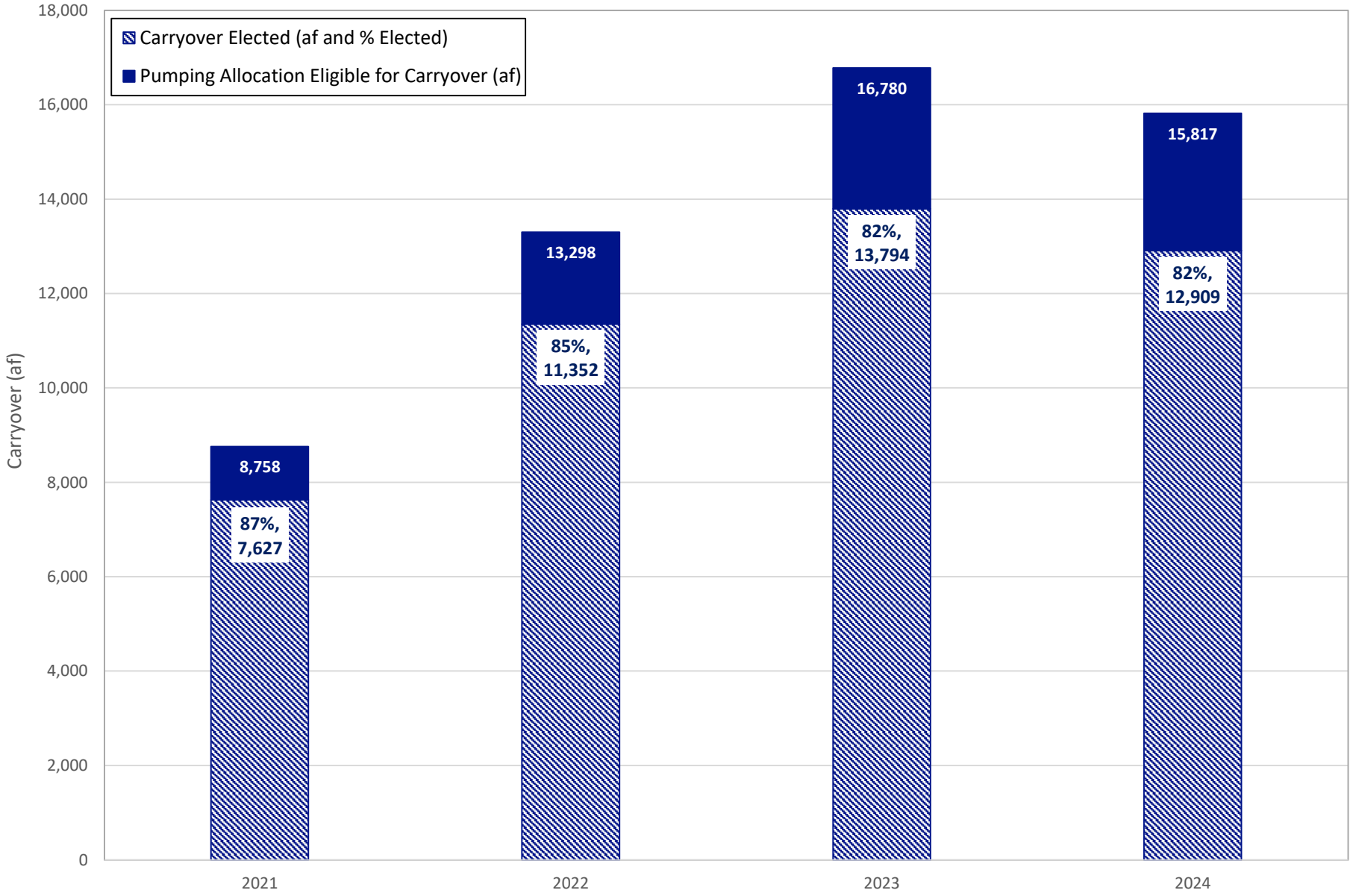


Figure 3. Annual Amount of Pumping Deemed an Exercise of Carryover, *WY 2021 - 2024*

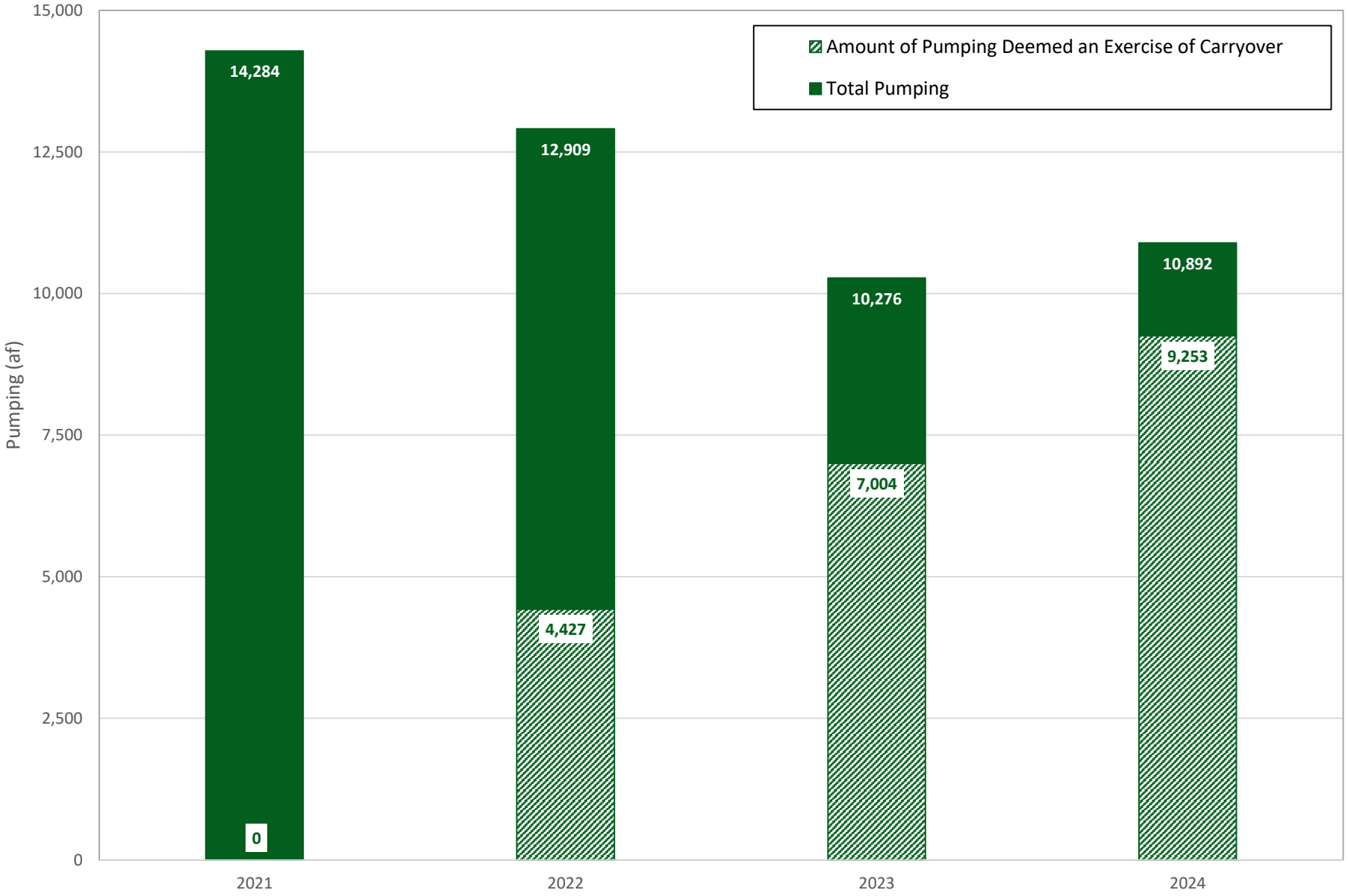


Figure 4. Time History of Carryover Account Balance

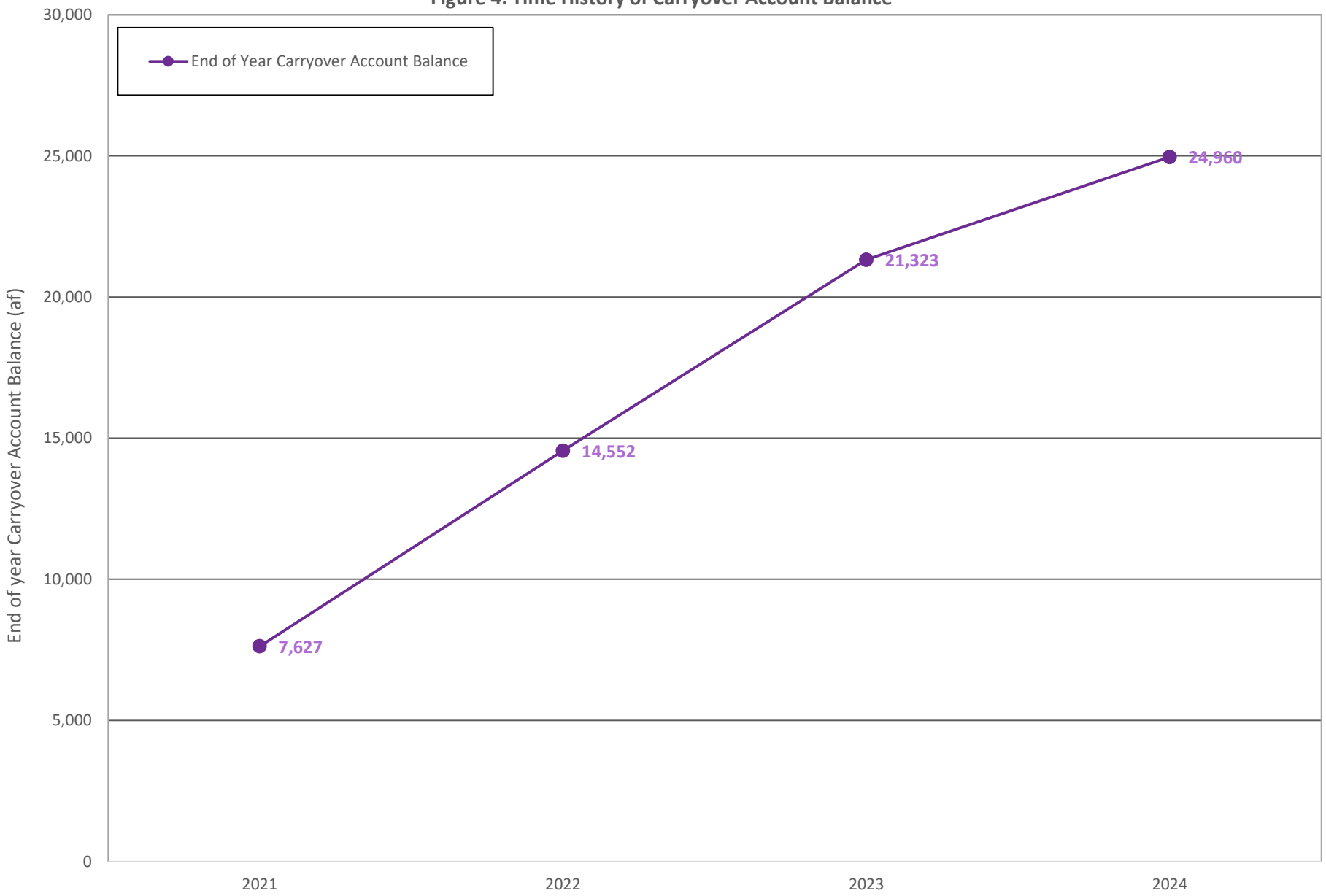


Figure 5. Example Future Pumping Projection utilizing Carryover per Judgment Rules, *WY 2021 - 2070*

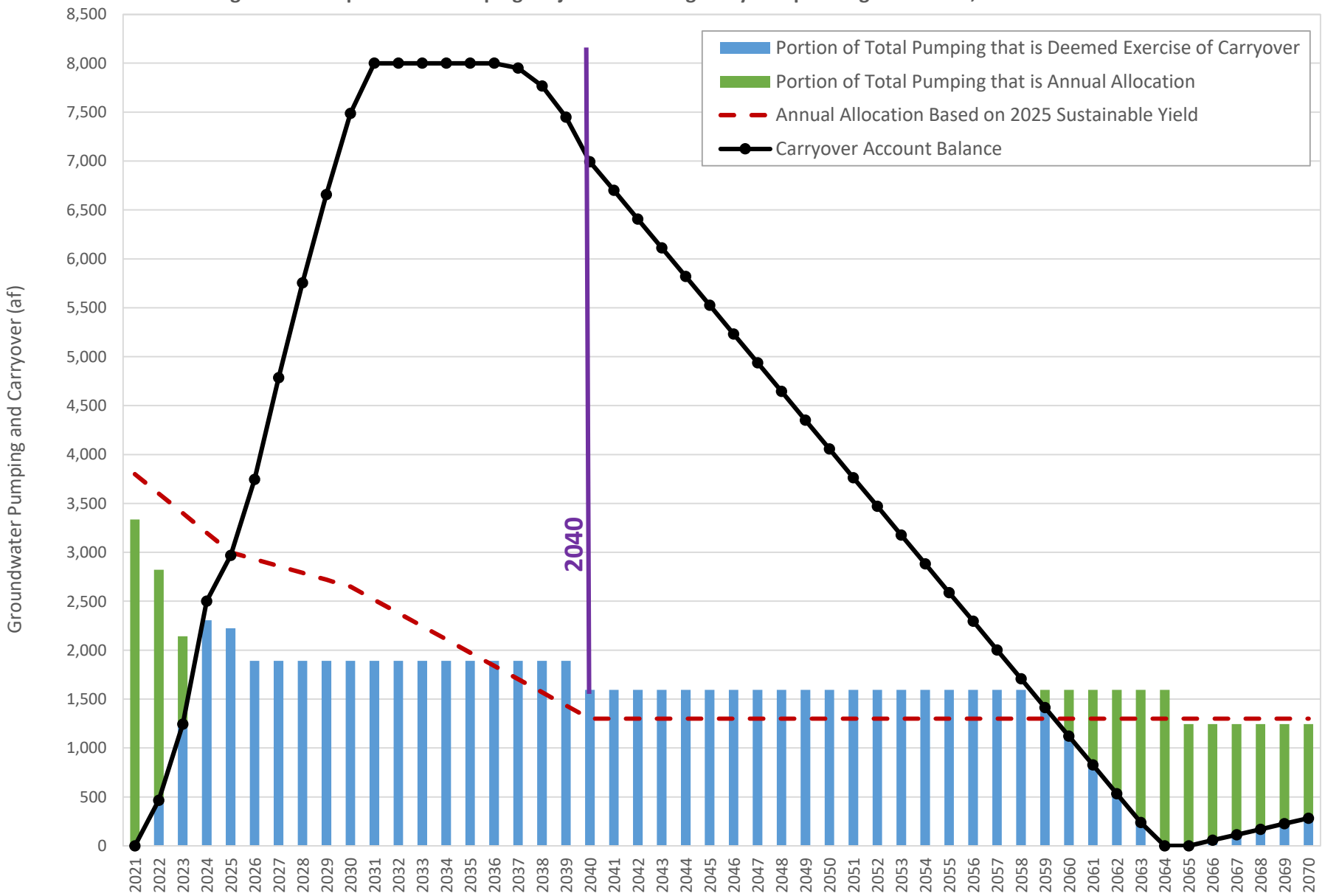
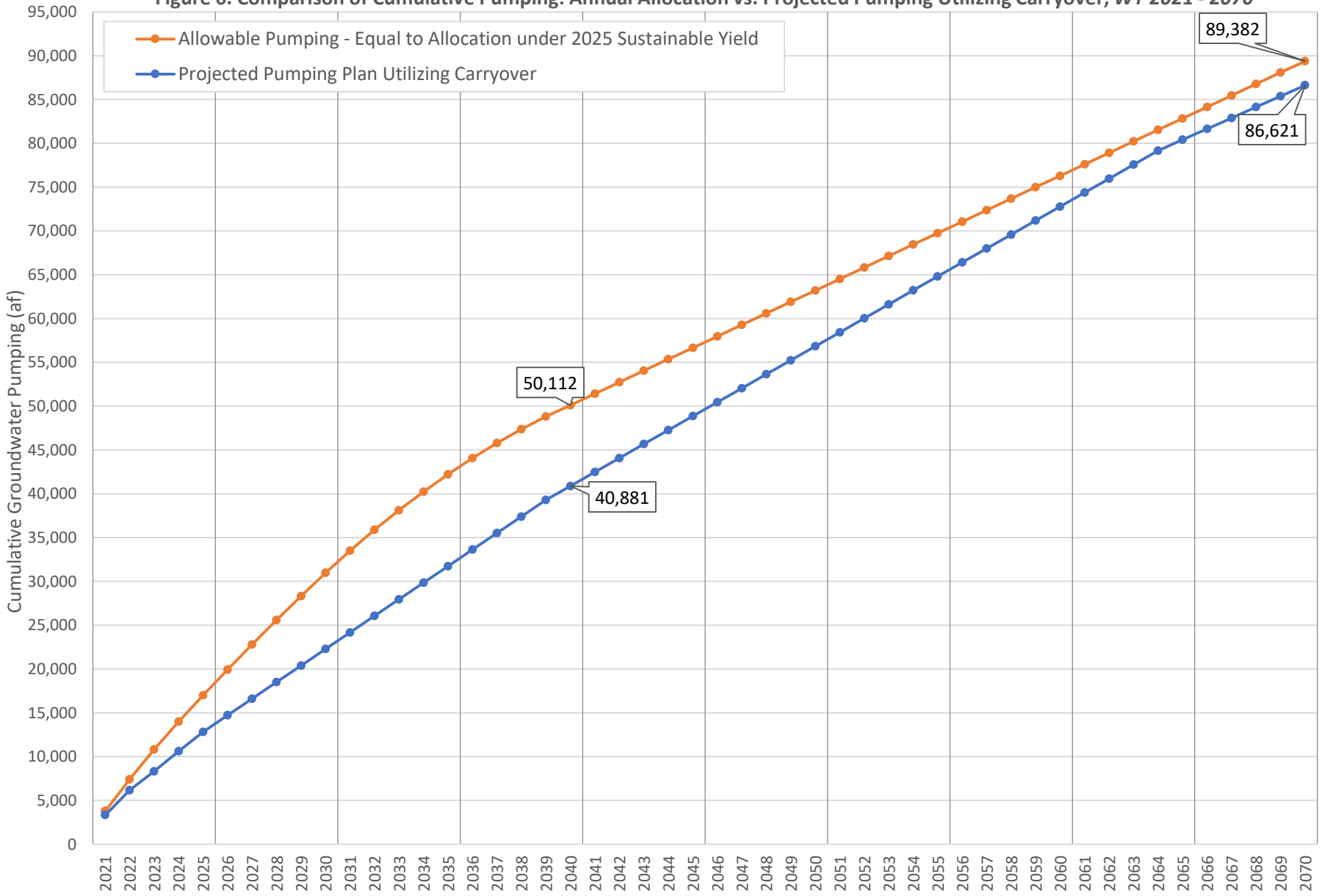


Figure 6. Comparison of Cumulative Pumping: Annual Allocation vs. Projected Pumping Utilizing Carryover, *WY 2021 - 2070*



Borrego Springs Watermaster
Board of Directors Meeting
December 19, 2024
AGENDA ITEM V

To: Board of Directors

From: Samantha Adams, Executive Director

Date: December 16, 2024

Subject: Establishing Agenda for January 15, 2025 Regular Board Meeting

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Process

To set the January agenda, the Board will:

1. Review the initial January agenda topics planned by Staff, as listed below
2. Review the February and March tentative topics planned by Staff and previously requested items by Board members, as listed below
3. List out additional items that have arisen during the January 15, 2025 Board meeting (such as during public comment)
4. Call on Directors to request additional items for consideration of inclusion on the January 2025 or other future agenda
5. Consider motion(s) to approve the agenda (the agenda can be approved in a single motion or multiple motions to cover each item). The Agenda/items are approved by majority vote (3 of 5 directors)

Staff's Initial Agenda for January Regular Meeting

The January 15, 2025 Regular meeting (held virtually) will include some standard items of: public correspondence, consent calendar (meeting minutes, financial reports, staff invoices, etc.), verbal Staff and Chair reports, establishing the agenda for the subsequent meeting, Board member comments, listing of future meeting dates, and adjournment.

In addition to the standard items, the initial agenda planned by Staff for January 2025 includes the following business items for consideration and possible action:

1. Update on the Groundwater Dependent Ecosystem project
2. Land IQ Presentation of Biological Restoration Project
3. Consideration of Approval of WY 2025 Budget Amendment to Carry Forward Unspent Budget from WY 2024 for certain Grant-funded Work
4. Review WY 2024 Annual Report status and schedule
5. Fall 2024 Semi-Annual Monitoring Report (if all data available)

6. Status report on the 5-year Assessment of the GMP
7. 1st Quarter WY 2025 Budget Status Review
8. DWR Review of 2020 GMP (if available)

Staff's Tentative Topics for February and March

February Agenda Topics

1. Hearing to review the 2024 Draft Annual Report to the DWR
2. Land IQ Presentation of Biological Restoration Project
3. Status report on the 5-year Assessment of the GMP
4. DWR Review of 2020 GMP (if available)

March Agenda Topics

1. Consideration of approval of the Water Year 2024 Annual Report to the DWR
2. Land IQ Presentation of Biological Restoration Project
3. Status report on the 5-year Assessment of the GMP
4. DWR Review of 2020 GMP (if available)