

LOS OSOS GROUNDWATER BASIN, BASIN MANAGEMENT COMMITTEE

NOTICE OF MEETING

NOTICE IS HEREBY GIVEN that the Los Osos Groundwater Basin, Basin Management Committee Board of Directors will hold a **Regular Board Meeting** at **1:30 P.M. on Wednesday, June 18, 2025** at the **Los Osos Community Services District Boardroom**, located at 2122 9th Street, Suite 106, Los Osos, CA 93402. Members of the public may participate in this meeting in person or via teleconference and/or electronically.

For quick access, go to <https://us04web.zoom.us/j/778762508>

(This link will help connect both your browser and telephone to the call)

If not using a computer, dial 1 (669) 900-6833 or 1 (346) 248-779 and enter **778 762 508**

All persons desiring to speak during any Public Comment can submit a comment by:

- Email at danheimel@ConfluenceES.com by 5:00 PM on the day prior to the Committee meeting.
- Teleconference by phone at 1 (669) 900-6833 and enter **778 762 508**
- Teleconference by phone at 1 (346) 248-7799 and enter **778 762 508**
- Teleconference meeting at <https://us04web.zoom.us/j/778762508>
- Mail by 5:00 PM on the day prior to the Committee meeting to:

Attn: Dan HeimeI (Basin Management Committee)
2122 9th St.
Suite 110
Los Osos, CA 93402

Los Osos Basin Management Committee Website: Go to <https://www.losososbmc.org/> to view agendas, agenda packets, meeting recordings, important documents, and BMC news. Click "join our mailing list" in the lower right-hand corner of the page to receive email updates and meeting notifications.

Directors: Agenda items are numbered for identification purposes only and may not necessarily be considered in numerical order.

NOTE: The Basin Management Committee reserves the right to limit each speaker to three (3) minutes per subject or topic. In compliance with the Americans with Disabilities Act, all possible accommodations will be made for individuals with disabilities, so they may participate in the meeting. Persons who require accommodation for any audio, visual or other disability in order to participate in the meeting of the BMC are encouraged to request such accommodation 48 hours in advance of the meeting from Dan HeimeI at danheimel@ConfluenceES.com.

BASIN MANAGEMENT COMMITTEE BOARD OF DIRECTORS AGENDA

- 1. CALL TO ORDER**
- 2. ROLL CALL**
- 3. PLEDGE OF ALLEGIANCE**
- 4. BOARD MEMBER COMMENTS**

Board members may make brief comments, provide project status updates, or communicate with other directors, staff, or the public regarding non-agenda topics.

5. SPECIAL PRESENTATION

- a. None**

6. CONSENT AGENDA

The following routine items listed below are scheduled for consideration as a group. Each item is recommended for approval unless noted and may be approved in their entirety by one motion. Any member of the public who wishes to comment on any Consent Agenda item may do so at this time. Consent items generally require no discussion. However, any Director may request that any item be withdrawn from the Consent Agenda and moved to the "Action Items" portion of the Agenda to permit discussion or to change the recommended course of action. The Board may approve the remainder of the Consent Agenda on one motion.

- a. 2025 Financial Reports**
- b. Approval of Minutes from the May 21, 2025 BMC Meeting**

7. PUBLIC COMMENTS ON ITEMS NOT APPEARING ON THE AGENDA

The Basin Management Committee will consider public comments on items not appearing on the agenda and within the subject matter jurisdiction of the Basin Management Committee. The Basin Management Committee cannot enter into a detailed discussion or take any action on any items presented during public comments at this time. Such items may only be referred to the Executive Director or other staff for administrative action or scheduled on a subsequent agenda for discussion. Persons wishing to speak on specific agenda items should do so at the time specified for those items. The presiding Chair shall limit public comments to three minutes.

8. EXECUTIVE DIRECTOR'S REPORT

9. ACTION ITEMS

- a. Final Draft 2024 Annual Monitoring Report**

Recommendation: Receive and file the Final Draft 2024 Annual Monitoring Report and authorize submission to the Court or provide alternate direction to staff.

- b. Transient Model: Construction and Calibration and Baseline Scenario Technical Memorandums**

Recommendation: Receive and file the Transient Model Construction and Calibration and Baseline Scenario Technical Memorandums.

10. ADJOURNMENT

TO: Los Osos Basin Management Committee

FROM: Daniel Heimel, Executive Director

DATE: June 18, 2025

SUBJECT: Item 6 – Approval of Financial Reports and/or Meeting Minutes

Recommendations

BMC Staff recommends that the BMC review and consider approval of Financial Reports and/or Meeting Minutes or provide alternate direction to Staff.

Discussion

BMC Staff prepared summary Financial Reports and Meeting Minutes from previous BMC Meetings for the BMC's review and approval consideration (see Attachments).

Attachments

1. Financial Documents
2. Minutes from the May 21, 2025 BMC Meeting

Attachment 1: Cost Summary (January 2025 to Current Date) for Calendar Year 2025 Budget

Item	Description	Budget Amount	Approved Contingency Allocation	Updated Allocated Budget Amount	Costs Incurred	Percent Incurred	Remaining Budget
1	BMC Administration and Facilitation	\$93,000		\$93,000	\$35,906.25	38.6%	\$57,094
2	BMC Website Hosting	\$2,280		\$2,280	\$1,920.00	84.2%	\$360
3	BMC Accounting Services	\$6,300		\$6,300	\$1,209.24	19.2%	\$5,091
4	BMC Legal Counsel	\$5,000		\$5,000	\$3,528.00	70.6%	\$1,472
5	Technical Support Services	\$15,000		\$15,000	\$1,170.00	7.8%	\$13,830
6	2025 Groundwater Monitoring	\$67,000		\$67,000	\$3,670.00	5.5%	\$63,330
7	2024 Annual Report	\$71,500		\$71,500	\$57,470.00	80.4%	\$14,030
8	WRFP Study Peer Review - Year 2	\$15,000		\$15,000	\$17,062.50	113.8%	-\$2,063
9	Groundwater Monitoring Program Improvements	\$50,000		\$50,000	\$0.00	0.0%	\$50,000
10	Los Osos Geophysics Interpretation	\$0		\$0	\$0.00	0.0%	\$0
	Subtotal	\$325,080		\$325,080	\$121,936	37.5%	\$203,144
	5% Contingency	\$16,254					\$16,254
	Total	\$341,334			\$121,936	35.7%	\$219,398
	2024 Budget (held for LA14/16 costs)	\$45,000		\$45,000	\$38,637	85.9%	\$6,363
	Reserve funds (leftover 2024 funds)	\$70,406		\$70,406	\$0.00	0.0%	\$70,406
						Total Funding	\$296,167
	LOCSO (38%)	\$129,707					
	GSWC (38%)	\$129,707					
	County of SLO/SLOFC&WCD (20%)	\$68,267					
	S&T Mutual (4%)	\$13,653					

Attachment 2: Invoice Register for Los Osos BMC for Calendar Year 2025

Vendor	Invoice No.	Amount	Month of Service	Description	Budget Item	Date Executive Director Approved	Date BMC Chairperson Approved	Date BMC Approved
CHG	20241206	\$4,290.00	Dec-24	2024 Annual Report	7	Jan-25		
CHG	20250114	\$9,460.00	Jan-25	2024 Annual Report	7	Feb-25		
Robert Stilts CPA	2025-1	\$465.49	Dec-Jan 2025	BMC Accounting Services	3	Feb-25		
ConfluenceES	1236	\$8,137.50	Jan-25	BMC Adminstration and Facilitation	1		Mar-25	
Streamline	9877A921-0003	\$1,920.00	Mar-25	BMC Website Hosting	2	Mar-25		
Robert Stilts CPA	2025-2	\$218.75	Feb-25	BMC Accounting Services	3	Mar-25		
CHG	20250210	\$13,042.50	Feb-25	2024 Annual Report	7	Mar-25		
GHG	20250211	\$975.00	Feb-25	Technical Support Services	5	Mar-25		
ConfluenceES	1245	\$9,187.50	Feb-25	BMC Adminstration and Facilitation	1		Mar-25	
RWG	252345	\$2,520.00	Feb-25	BMC Legal Counsel	4	Apr-25		
Robert Stilts CPA	2025-3	\$350.00	Mar-25	BMC Accounting Services	3	Apr-25		
CHG	20250308	\$30,677.50	Mar-25	2024 Annual Report	7	May-25		
CHG	20250309	\$195.00	Mar-25	Technical Support Services	5	May-25		
CHG	20250310	\$3,670.00	Mar-25	2025 Groundwater Monitoring	6	May-25		
GSI	02136.001-4	\$2,810.00	Mar-25	WRFP Study Peer Review - Year 2	8	May-25		
ConfluenceES	1254	\$7,275.00	Mar-25	BMC Adminstration and Facilitation	1		May-25	
RWG	252805	\$684.00	Mar-25	BMC Legal Counsel	4	May-25		
RWG	253030	\$324.00	Apr-25	BMC Legal Counsel	4	May-25		
Stilts	2024-4	\$175.00	Apr-25	BMC Accounting Services	3	May-25		
GSI	02136.001 - 5	\$13,772.50	Apr-25	WRFP Study Peer Review - Year 2	8	May-25		
GSI	2136.001	\$480.00	Feb-25	WRFP Study Peer Review - Year 2	8	May-25		
ConfluenceES	1256	\$11,306.25	Apr-25	BMC Adminstration and Facilitation	1		25-Jun	
	2025 Total	\$121,935.99						To be approved

LOCSD/CHG	N/A	\$38,636.56	Mar-25	CY24 Groundwater Monitoring Program Improvements, paid from 2024 budget	-	May-25		
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Los Osos Basin Management Committee

Statement of Revenues and Expenditures

100 - BMC

From 5/1/2025 Through 5/31/2025

		Current Period Actual	Current Year Actual	Total Budget \$ - Original	Total Budget \$ Variance - Original	Percent Total Budget Remaining - Original
<hr/>						
Operating Revenue						
Contributions						
4010	LOCS	0.00	129,707.00	129,707.00	0.00	0.00%
4020	GSWC	0.00	129,707.00	129,707.00	0.00	0.00%
4030	County of SLO	0.00	68,267.00	68,267.00	0.00	0.00%
4040	S&T Mutual Water Co.	0.00	13,653.00	13,653.00	0.00	0.00%
	Total Contributions	0.00	341,334.00	341,334.00	0.00	0.00%
	Total Operating Revenue	0.00	341,334.00	341,334.00	0.00	0.00%
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Total Revenue		0.00	341,334.00	341,334.00	0.00	0.00%
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Expenditures						
Program Expenses						
5010	Administration and Facilitation	0.00	35,906.25	93,000.00	57,093.75	61.39%
5020	Website Hosting	0.00	1,920.00	2,280.00	360.00	15.79%
5030	Accounting Services	2.50	1,167.99	6,300.00	5,132.01	81.46%
5040	Legal Counsel	0.00	3,528.00	5,000.00	1,472.00	29.44%
5060	Technical Support Services	0.00	1,170.00	15,000.00	13,830.00	92.20%
5070	Groundwater Monitoring	0.00	3,670.00	67,000.00	63,330.00	94.52%
5080	Annual Report	0.00	57,470.00	71,500.00	14,030.00	19.62%
5090	WRFP Study Peer Review	0.00	17,062.50	15,000.00	(2,062.50)	(13.75)%
6000	Groundwater Monitoring Program Improvements	0.00	38,636.56	50,000.00	11,363.44	22.73%
	Total Program Expenses	2.50	160,531.30	325,080.00	164,548.70	50.62%
	Total Expenditures	2.50	160,531.30	325,080.00	164,548.70	50.62%
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Net Revenue Over Expenditures		(2.50)	180,802.70	16,254.00	164,548.70	1,012.36%
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Los Osos Basin Management CommitteeBalance Sheet
As of 5/31/2025

		Current Period Balance
Assets		
Current Assets		
Cash & Cash Equivalents		
General Checking Account	1012	<u>472,903.85</u>
Total Cash & Cash Equivalents		<u>472,903.85</u>
Total Current Assets		<u>472,903.85</u>
Total Assets		<u><u>472,903.85</u></u>
Liabilities		
Short-term Liabilities		
Accounts Payable		
Vendor Payable (Control Account)	2000	<u>26,741.75</u>
Total Accounts Payable		<u>26,741.75</u>
Total Short-term Liabilities		<u>26,741.75</u>
Total Liabilities		<u>26,741.75</u>
Net Assets		
Current YTD Net Income		
REVENUES		341,334.00
EXPENDITURES		(160,531.30)
EQUITY		
Fund Balance	3200	<u>115,359.40</u>
Total EQUITY		<u>115,359.40</u>
Total Current YTD Net Income		<u>296,162.10</u>
Total Net Assets		<u>296,162.10</u>
Total Liabilities and Net Assets		<u><u>322,903.85</u></u>

**Los Osos Basin Management Committee
Reconcile Cash Accounts**

Summary

Cash Account: 1012 General Checking Account

Reconciliation ID: Bank Account Reconciliation 05302025

Reconciliation Date: 5/30/2025

Status: Locked

Bank Balance	517,881.35
Less Outstanding Checks/Vouchers	44,977.50
Plus Deposits in Transit	0.00
Plus or Minus Other Cash Items	0.00
Plus or Minus Suspense Items	<u>0.00</u>
Reconciled Bank Balance	472,903.85
Balance Per Books	<u>472,903.85</u>
Unreconciled Difference	<u><u>0.00</u></u>

Click the Next Page toolbar button to view details.

**Los Osos Basin Management Committee
Reconcile Cash Accounts**

Detail

Cash Account: 1012 General Checking Account

Reconciliation ID: Bank Account Reconciliation 05302025

Reconciliation Date: 5/30/2025

Status: Locked

Outstanding Checks/Vouchers

<u>Document Number</u>	<u>Document Date</u>	<u>Document Description</u>	<u>Document Amount</u>	<u>Payee</u>
45	4/9/2025	System Generated Check/Voucher	350.00	Robert Stilts, CPA
46	5/15/2025	System Generated Check/Voucher	7,275.00	CONFLUENCE ENGINEERING SOLUTIONS, INC.
47	5/15/2025	System Generated Check/Voucher	34,542.50	CLEATH-HARRIS GEOLOGISTS, INC.
48	5/15/2025	System Generated Check/Voucher	2,810.00	GSI Water Solutions, Inc.
Outstanding Checks/Vouchers			44,977.50	

Los Osos Basin Management Committee
Reconcile Cash Accounts

Detail

Cash Account: 1012 General Checking Account

Reconciliation ID: Bank Account Reconciliation 05302025

Reconciliation Date: 5/30/2025

Status: Locked

Cleared Checks/Vouchers

Document Number	Document Date	Document Description	Document Amount	Payee
44	4/9/2025	System Generated Check/Voucher	2,520.00	RICHARDS, WATSON & GERSHON A PROFESSIONAL CORPORATION
49	5/15/2025	System Generated Check/Voucher	38,636.56	Los Osos CSD
Cleared Checks/Vouchers			41,156.56	

Los Osos Basin Management Committee
Reconcile Cash Accounts

Detail

Cash Account: 1012 General Checking Account

Reconciliation ID: Bank Account Reconciliation 05302025

Reconciliation Date: 5/30/2025

Status: Locked

Cleared Other Cash Items

<u>Document Number</u>	<u>Document Date</u>	<u>Document Description</u>	<u>Document Amount</u>
JV BMC 6-5-25 Bank	5/5/2025	To record May Bank Fee	<u>(2.50)</u>
Cleared Other Cash Items			<u>(2.50)</u>
			<u><u> </u></u>

Los Osos Basin Management Committee

Check/Voucher Register - Warrant Register

1012 - General Checking Account

From 1/1/2025 Through 12/31/2025

Check Number	Vendor Name	Transaction Description	Document Date	Check Amount
0031			1/13/2025	0.00
0032			1/13/2025	0.00
31	CONFLUENCE ENGINEERING SOLUTIONS, INC.	10/1/24-10/31/24 Executive Director Services	1/13/2025	9,566.25
32	CLEATH-HARRIS GEOLOGISTS, INC.	10/1/24-10/31/24 2024 Groundwater Monitoring	1/13/2025	27,367.26
33	Robert Stilts, CPA	10/1/24-10/31/24 Accounting Services	1/13/2025	131.25
34	CONFLUENCE ENGINEERING SOLUTIONS, INC.	11/1/24-11/30/24 Executive Director Services	1/22/2025	8,487.50
	CONFLUENCE ENGINEERING SOLUTIONS, INC.	12/1/24-12/31/24 Executive Director Services	1/22/2025	4,057.50
35	CLEATH-HARRIS GEOLOGISTS, INC.	11/1/24-11/30/24 2024 Groundwater Monitoring	1/22/2025	2,905.20
	CLEATH-HARRIS GEOLOGISTS, INC.	12/1/24-12/31/24 2024 Annual Report	1/22/2025	4,290.00
36	RICHARDS, WATSON & GERSHON A PROFESSIONAL CORPORATION	11/1/24-11/30/24 General Legal Counsel	1/22/2025	324.00
	RICHARDS, WATSON & GERSHON A PROFESSIONAL CORPORATION	12/1/24-12/31/24 General Legal Counsel	1/22/2025	828.00
37	Robert Stilts, CPA	11/1/24-11/30/24 Accounting Services	1/22/2025	218.75
38	CONFLUENCE ENGINEERING SOLUTIONS, INC.	1/1/25-1/31/25 Executive Director Services	3/11/2025	8,137.50
39	CLEATH-HARRIS GEOLOGISTS, INC.	1/1/25-1/31/25 2024 Annual Report	3/11/2025	9,460.00
40	Robert Stilts, CPA	12/1/24-1/31/25 Accounting Services	3/11/2025	465.49
41	CONFLUENCE ENGINEERING SOLUTIONS, INC.	2/1/25-2/28/25 Executive Director Services	3/18/2025	9,187.50
42	CLEATH-HARRIS GEOLOGISTS, INC.	2/1/25-2/28/25 2024 Annual Report	3/18/2025	13,042.50
	CLEATH-HARRIS GEOLOGISTS, INC.	2/1/25-2/28/25 Technical Support Services	3/18/2025	975.00
43	Robert Stilts, CPA	2/1/25-2/28/25 Accounting Services	3/18/2025	218.75
44	RICHARDS, WATSON & GERSHON A PROFESSIONAL CORPORATION	2/1/25-2/28/25 General Legal Counsel	4/9/2025	2,520.00
45	Robert Stilts, CPA	3/1/25-3/31/25 Accounting Services	4/9/2025	350.00
46	CONFLUENCE ENGINEERING SOLUTIONS, INC.	3/1/25-3/31/25 Executive Director Services	5/15/2025	7,275.00
47	CLEATH-HARRIS GEOLOGISTS, INC.	3/1/25-3/31/25 2024 Annual Report	5/15/2025	30,677.50
	CLEATH-HARRIS GEOLOGISTS, INC.	3/1/25-3/31/25 2025 Groundwater Monitoring	5/15/2025	3,670.00
	CLEATH-HARRIS GEOLOGISTS, INC.	3/1/25-3/31/25 Technical Support Services	5/15/2025	195.00
48	GSI Water Solutions, Inc.	3/1/25-3/31/25 WRFP Study Peer Review - Year 2	5/15/2025	2,810.00

Los Osos Basin Management Committee

Check/Voucher Register - Warrant Register

1012 - General Checking Account

From 1/1/2025 Through 12/31/2025

Check Number	Vendor Name	Transaction Description	Document Date	Check Amount
49	Los Osos CSD	LA 14 & LA 16 Groundwater Monitoring Well Project	5/15/2025	38,636.56
50	CONFLUENCE ENGINEERING SOLUTIONS, INC.	4/1/25-4/30/25 Executive Director Services	6/10/2025	11,306.25
51	GSI Water Solutions, Inc.	4/1/25-4/30/25 WRFP Study Peer Review - Year 2	6/10/2025	13,772.50
52	RICHARDS, WATSON & GERSHON A PROFESSIONAL CORPORATION	3/1/25-3/31/25 General Legal Counsel	6/10/2025	684.00
	RICHARDS, WATSON & GERSHON A PROFESSIONAL CORPORATION	4/1/25-4/30/25 General Legal Counsel	6/10/2025	324.00
53	Robert Stilts, CPA	4/1/25-4/30/25 Accounting Services	6/10/2025	175.00
54	GSI Water Solutions, Inc.	2/1/25-2/28/25 WRFP Study Peer Review - Year 2	6/10/2025	480.00
ACH_Strmlne3.5...	STREAMLINE SOFTWARE, INC.	2/1/2025-2/1/2026 Streamline Flex Website Hosting	3/5/2025	1,920.00
Report Total				214,458.26

BASIN MANAGEMENT COMMITTEE BOARD OF DIRECTORS

Agenda Item 6b: Minutes of the Regular Meeting of May 21, 2025

The following is a summary of the actions taken at the Basin Management Committee Board of Directors Meeting.
The official record for the meeting is the recording that can be found at:

<https://www.losososbmc.org/>

Agenda Item	Discussion or Action
1. Call to Order	Chair Zimmer called the meeting to order at approximately 1:40PM (00:00:01).
2. Roll Call	Daniel Heimel, Executive Director, called roll to begin the meeting. Director Zimmer, Director Cesena, Director Gibson, and Director Reinke were present (00:00:20).
3. Pledge of Allegiance	Pledge of Allegiance (00:00:40)
4. Board Member Comments	Board Discussion (00:01:15) None Public Comment None
5. Special Presentation	
None	None (00:01:35)
6. Consent Agenda 6a. 2025 Financial Reports 6b. Approval of Minutes from April 16, 2025 Regular BMC Meeting	Approval of Minutes from April 16, 2025 Regular BMC Meeting and 2025 Financial Reports (00:01:40) Board Discussion (00:01:50) Public Comment None Board Action on Consent Agenda (00:04:00) The Board approved the 2025 financial reports and minutes from April 16, 2025 Regular BMC Meeting. Motion: Director Gibson Second: Director Cesena Ayes: All Nays: None Passes: 4-0
7. Public Comments on Items Not Appearing on the Agenda	Public Comment Patrick McGibney (00:04:50) Robert Starvey (00:07:35) Becky McFarland (00:08:00) Written public comment from Robert Starvey (see here) Board Discussion (00:10:00)

8. Executive Director's Report	Executive Director's Report (00:25:10) <u>Public Comment</u> Patrick McGibney (00:29:50) Becky McFarland (00:32:45) Deborah Howe (00:34:45) <u>Board Discussion</u> (00:35:30)
9. Action Items	
9a. Consultant Recommendation for Hydrogeological Well Design and Construction Support Services for the Sweet Springs Monitoring Well	Consultant Recommendation for Hydrogeological Well Design and Construction Support Services for the Sweet Springs Monitoring Well (00:41:25) Recommendation: Receive the recommendation and consider approval of the selection of Cleath-Harris Geologists to provide Hydrogeological Well Design and Construction Support Services for the Sweet Springs Monitoring Well. <u>Board Discussion</u> None <u>Public Comment</u> None <u>Board Action</u> (00:43:40) The Board received the recommendation and approved the selection of Cleath-Harris Geologists to provide Hydrogeological Well Design and Construction Support Services for the Sweet Springs Monitoring Well. Motion: Director Gibson Second: Director Cesena Ayes: All Nays: None Passes: 4-0
9b. Presentation of the Draft 2024 Annual Monitoring Report	Presentation of the Draft 2024 Annual Monitoring Report (00:44:00) Recommendation: Receive a presentation from Basin Management Committee (BMC) Staff on the Public Draft 2024 Annual Monitoring Report (AMR) and confirm schedule for the BMC to consider approval of the Final Draft 2024 AMR and submission to the Court. <u>Board Discussion</u> (00:56:45) <u>Public Comment</u> Robert Sarvey (00:59:00) Becky McFarland (01:00:10) <u>Board Discussion</u> (01:01:00)

	<p><u>Board Action</u> (01:08:30) No Board action</p> <p>The Board received a presentation from Basin Management Committee (BMC) Staff on the Public Draft 2024 Annual Monitoring Report (AMR), confirmed the schedule for the BMC to consider approval of the Final Draft 2024 AMR and submission to the Court, and provided direction for Staff to include the AMR public comments received in an appendix to the Final AMR and include information on how these comments were addressed.</p>
<p>9c. Updated San Luis Obispo County Flood Control and Water Conservation District State Water Project Water Transfer Policy</p>	<p>Updated San Luis Obispo County Flood Control and Water Conservation District State Water Project Water Transfer Policy (01:11:00)</p> <p>Recommendation: Receive information and provide feedback on the Updated San Luis Obispo County Flood Control and Water Conservation District State Water Project Water Transfer Policy or provide alternate direction to Staff.</p> <p><u>Board Discussion</u> (01:16:30)</p> <p><u>Public Comment</u> Becky McFarland (01:37:50) Patrick McGibney (01:41:10)</p> <p><u>Board Discussion</u> (01:42:00)</p> <p><u>Board Action</u> No Board Action</p> <p>The Board received information on the Updated San Luis Obispo County Flood Control and Water Conservation District State Water Project Water Transfer Policy.</p>
<p>15. Adjournment</p>	<p>Meeting adjourned at approximately 3:20pm (01:51:30). The next regularly scheduled meeting is June 18, 2025.</p>

TO: Los Osos Basin Management Committee

FROM: Dan Heimerl, Executive Director

DATE: June 18, 2025

SUBJECT: Item 8 – Executive Director’s Report

Recommendations

Staff recommends that the Basin Management Committee (BMC) receive and file the report and provide staff with any direction for future discussions. Sections of the Executive Director’s Report that have been updated or significantly changed from the previous meeting’s version are underlined and sections of the report that have not had any recent or anticipated updates have been removed.

Discussion

This report was prepared to summarize administrative matters not covered in other agenda items and to provide a general update on staff activities.

Presentations

None

Funding and Financing Programs to Support Basin Plan Implementation

WRFP Grant: On February 11, 2022 the Los Osos Community Services District (LOCSD) submitted an application for a WRFP grant to develop a transient model and analyze recycled water and supplemental water projects to improve the sustainability of the Los Osos Basin (WRFP Study). Los Osos CSD was notified of the award of the grant in January 2023 and all the required documents were signed and fully executed. On May 17, 2023 the BMC approved Cleath-Harris Geologist (CHG) to complete the WRFP Study and the WRFP Study is underway. A proposed modification to the schedule for completion of the WRFP Study was executed on March 7, 2025 by the State Water Resources Control Board (SWRCB) to allow for additional time to incorporate published data from the Department of Water Resources (DWR) Aerial Electromagnetic (AEM) Survey. The BMC and LOCSD received the agreement amendment from the SWRCB which reflects the updated schedule (see table below). CHG incorporated findings from the AEM data, completed calibration, and held several meetings with the Technical Advisory Committee (TAC) and Peer Review Consultant to discuss the Transient Model calibration and recycled water/supplemental water supply alternatives. The Peer Review Consultant (GSI) has provided feedback to CHG, which is incorporated into the Transient Model Construction/Calibration TM and the groundwater model. In addition to GSI’s peer review, the County coordinating an additional review Lynker, and their comments have been incorporated as well. It is intended that CHG will present the Transient Model Construction/Calibration TM and Baseline Scenario Results to the BMC at the regularly

scheduled June 18, 2025 BMC meeting. The WRFP report is anticipated to be completed by the grant due date of October 25, 2025.

Updated WRFP Study Schedule

MILESTONE	CRITICAL DUE DATE	ESTIMATED DUE DATE
Draft Project Report Submittal		8/30/2025
Mid-Course Meeting		9/18/2025
Final Project Report Submittal		10/25/2025
Work Completion Date	11/15/2025	
Final Reimbursement Request	12/20/2025	

BMC Staff will continue to monitor potential additional grant funding opportunities and bring information on these opportunities to the BMC for consideration as they become available.

Status of BMC Initiatives

Central Coast Community-Based Water Quality Grants Program Grant: The Central Coast Community-Based Water Quality Grants Program is offered by the Rose Foundation, in collaboration with the Central Coast Water Board and the Bay Foundation of Morro Bay. This program is dedicated to funding water quality improvement projects within the jurisdiction of the Central Coast Regional Water Quality Control Board.

On June 12th, 2024, the BMC authorized the preparation of an application for the Central Coast Community-Based Water Quality Grant Program to request \$150k for the construction of a new, lower aquifer monitoring well. The grant application was submitted on July 12th, 2024 and on September 19th, 2024 BMC Staff received an email indicating that the BMC's application is being recommended to the Rose Foundation's Board of Directors for funding. On September 24th, 2024 the Rose Foundation notified the BMC Executive Director of the grant award selection and sent an agreement for the BMC to execute. To fulfill the requirements of the Rose Foundation Grant the BMC would provide the required 25% (\$50,000) match funding from the Monitoring Network Improvements budget item in the 2025 Calendar Year Budget. The BMC Executive Director executed the grant agreement with the Rose Foundation on October 22nd, 2024. On December 24th, 2024, the grant funds were deposited into the BMC's bank account. On February 18, 2025, LOCSD and the BMC released a Request for Proposals (RFP) for Hydrogeological Consultant Procurement for the Sweet Springs Monitoring Well (Los Osos Basin Lower Aquifer Water Quality Monitoring Well). Proposals were due March 18th, 2025. The Board approved Staff's recommendation of the selection of Cleath-Harris Geologists (CHG) as the hydrogeological consultant for this project at the [May 21, 2025 BMC Meeting](#).

BMC Website: On January 10th, 2024, the BMC launched its new website hosted at: <https://www.losososbmc.org/>. This will be the new platform for obtaining information regarding BMC

Meetings, Annual Reporting and other initiatives. The interested parties email distribution list from the previous BMC website, hosted by the County of San Luis Obispo, has been transferred to the new website and will continue to be utilized to notify subscribers when information related to BMC Meetings and other initiatives is available. BMC and County Staff to coordinate on decommissioning the County's previously hosted BMC Website and to direct all traffic to the new BMC Website. The BMC transitioned from SLOSPAN to YouTube for hosting meeting recordings.

DWR AEM Survey: On December 2022, BMC Staff were notified that the Los Osos Basin would be included in the Department of Water Resources (DWR) upcoming Statewide Airborne Electromagnetic (AEM) Survey in Spring 2023. To assist DWR in preparing flight lines for the AEM Survey, BMC Staff provided DWR with lithologic information for the Los Osos Basin and prepared an Area of Interest Map. The data collected during the AEM survey will improve DWR and the BMC's understanding of Los Osos Basin hydrogeology and seawater intrusion. The AEM Survey for the San Luis Obispo and Santa Barbara County basins was initiated on April 26th, 2023, however, due to weather conditions and the need to support emergency flood response efforts elsewhere in the State, DWR was not able to complete the survey of the Los Osos Basin. DWR returned to complete the survey in November 2023 and survey results were released in November 2024. The AEM survey data and additional information on DWR's Statewide AEM Survey Project can be found here:

<https://water.ca.gov/Programs/Groundwater-Management/Data-and-Tools/AEM>

Sustainable Yield: At its October 27th, 2021 Meeting, the BMC unanimously approved an updated Sustainable Yield estimate of 2,380 Acre-Feet per Year (AFY) for Calendar Year 2022 and at its December 6th, 2023 Meeting, the BMC unanimously approved retaining the current Sustainable Yield estimate of 2,380 AFY for CY 2024 for the following reasons: 1) No new infrastructure, not already considered in the 2022 Sustainable Yield Estimate, has been constructed; 2) estimates for the development of the Broderson Mound and long-term average rainfall were updated and incorporated into the CY 2022 Sustainable Yield Estimate and are not anticipated to change significantly on a year-over-year basis; 3) no significant hydrogeologic investigations have been conducted that would warrant an update to the steady-state groundwater model utilized to develop the Sustainable Yield Estimate. For these same reasons, the BMC unanimously approved retaining the current Sustainable Yield Estimate of 2,380 AFY for CY 2025 at its October 16th, 2024 Meeting.

Los Osos Basin Well Database: Cleath-Harris Geologists (CHG) completed the development of the Los Osos Basin Well Database and it is being utilized to support the development of the Transient Groundwater Model.

Basin Monitoring Program Improvement: In December 2023, construction of the Skyline Monitoring Wells was completed at the east end of Skyline Drive. The construction of these wells will allow the BMC to more accurately monitor seawater intrusion and groundwater conditions in Zones D & E of the Lower Aquifer at this critical location for the basin. In 2024, the BMC is working on modifying two existing wells (LA 14 and 16) to become dedicated Zone E monitoring Wells. The BMC is partnering with the National Estuary Program to gain access to available grant funding to fund a portion of these well modifications.

To complete the modifications the BMC will be released a solicitation for design and construction oversight hydrogeologic support services and for drilling services to complete the modifications. The solicitation was released on July 25th, 2024 and received one proposal. At its August 21st, 2024 Meeting the BMC approved Cleath-Harris Geologists (CHG) to provide design and construction oversight hydrogeologic support services. On October 4th, 2024 the Los Osos Community Services District (LOCSD) released the bid package for the drilling services and bids are due November 1st, 2024. The LOCSD received three bids, with the lowest, responsive, responsible bidder (General Pump Company) submitting a bid of \$82,611.86, which was under the Engineer's Estimate of \$90,000. Based on authorizations provided by the LOCSD Board of Directors and the BMC, LOCSD Staff awarded the project to General Pump Company and is working to initiate construction for the LA 14 and 16 well modifications in December 2024 or January 2025. On December 28th, 2024, the LOCSD executed a Change Order with General Pump Company for \$20k, with concurrence from BMC Party Staff, to attempt to remove the sediment at the bottom of LA 16 prior to installing the new well casing and screen at a deeper location. If successful, this would allow the BMC to monitor for seawater intrusion 60 feet lower in the Basin, which is where it is more likely to occur. The BMC's approved budget for this project is \$145k and with the current contract award the estimated cost is \$118k (including design, construction and admin), leaving ~\$27k in potentially available budget for this Change Order. LA 14 and 16 modifications and wellhead work were completed in February 2025.

Basin Metric Evaluation: Analysis of potential modifications to the Basin Metric's is currently on hold. Proposed modifications to the metrics were provided to BMC Party Staff for review. However, BMC Party Staff requested that potential improvements to the existing BMC Monitoring Program (i.e. modifications to existing wells or a new monitoring well) be evaluated prior to modifying the Basin Metrics. The BMC recently completed construction of two new monitoring wells at the eastern end of Skyline Drive. These new wells could be considered for incorporation into the updated Basin Metrics. BMC Staff will develop recommendations on potential modifications to the Basin Metrics and bring them to the BMC for their consideration at a future date.

Transient Groundwater Model: See update under WRF Grant above.

Lower Aquifer Nitrate Investigation: On October 19th, 2022 the BMC authorized Calendar Year (CY) 2022 funding to perform additional Nitrate Source Investigation to better understand the source of Nitrate impacting lower aquifer production wells. However, due to the inability to obtain well owner permission to sample the desired wells, much of that work was not completed in 2022. Subsequently, the Regional Water Quality Control Board (RWQCB) staff reviewed the investigation information and findings available to date and provided a presentation to the BMC at its March 15th, 2023 Meeting. BMC Party Staff is working with RWQCB Staff to identify potential additional investigations to help better inform the sources of the nitrate in the LA8 Well. On March 8th, 2024 and April 29th, 2024 BMC Staff received updates from RWQCB Staff on the status of their investigation into the source of nitrate impacting water supply wells in the western Los Osos Valley Groundwater Basin.

BMC Initiatives Status Update: In 2020, the BMC completed an Implementation Plan evaluation exercise to identify and prioritize the use of the BMC's limited available staffing and funding resources. The outcome of this exercise was a prioritized list of Planning and Implementation initiatives that the BMC utilized to develop its workplan for 2021, 2022, 2023 and beyond. In 2024, the BMC intends to revisit the Implementation Plan and develop an updated, prioritize list of potential projects/initiatives to help inform the BMC's work plan for 2025 and beyond.

Land Use Planning Process Update

Guide to Planning Information for Development in Los Osos:

This website provides relevant planning information for the community of Los Osos, including the Growth Management Ordinance, the Los Osos Habitat Conservation Plan, and frequently asked questions: <https://www.slocounty.ca.gov/departments/planning-building/grid-items/communities-villages/los-osos>

Los Osos Community Plan:

The Los Osos Community Plan (LOCP) was approved by the County Board of Supervisors on October 29, 2024. The LOCP and amendments to the Estero Area Plan were certified by the California Coastal Commission at a hearing on December 11, 2024. Both the [LOCP](#) and [Estero Area Plan](#) are now in effect.

Los Osos and the Growth Management Ordinance:

On October 29, 2024, the County Board of Supervisors approved an updated version of Title 26 of the County Code the Growth Management Ordinance (GMO) which established a 0.4% growth rate for Los Osos in Calendar Year 2025. On December 10, 2024, the County Board of Supervisors adopted a resolution establishing the maximum annual allocation for Calendar Year 2025 for the unincorporated county, including an allocation of 25 new dwelling units in Los Osos.

Los Osos Habitat Conservation Plan (HCP):

On December 10th, 2024, the County Board of Supervisors approved funding for the implementation of the Los Osos Habitat Conservation Plan (LOHCP). This funding will be used to pursue mitigation credits for habitat conservation through fee title or easement acquisition, fund habitat restoration projects, and fund staffing needed to implement the plan. Staff returned to the Board in February 2025 where the Board adopted the fee which will allow applicants to pay into the LOHCP to offset disturbance caused by development. At this time, the San Luis Obispo Department of Planning and Building does not have mitigation credits available for purchase. Planning staff anticipate having further updates during summer 2025. More information can be found on the County's website ([Los Osos](#)) which will be updated as information becomes available.

Title 19 Retrofit-to-Build

No Title 19 Retrofit-to-Build certificates were issued in May 2025.

The Title 19 Retrofit-to-Build survey is now active. If you are interested in assisting members of your community, offsetting water use in your home to help preserve the Los Osos Groundwater Basin, and potentially receiving new low-flow fixtures, please fill out the following form:

<https://forms.office.com/g/nSzMkctu0U>.

Land Use Permits

Only land use permits for projects that have seen movement in 2025 are included in the table below.

More detailed information on land use in Los Osos is available on the [LOCAC website](#).

Los Osos Land Use Permits			
	Pending	Approved in May	Total Approved
Single-Family Residence	13	4	4
Mixed-Use	2	2	2

Los Osos Water Recycling Facility Project Update

The following table summarizes flows from the LOWRF based on the available data.

The LOWRF wastewater and recycled water flow data included in previous months of the Executive Director's Report was incorrect due to a calculation error caused by an incorrect conversion factor in the LOWRF's data entry platform. The data has been corrected, and the updated values for 2024 and 2025 are shown in the tables below.

2024 LOWRF Wastewater and Recycled Water Flows (Acre Feet)

Year	Month	Influent	Broderson	Bayridge	Sea Pines	Ag Users	Effluent
2024	January	46.08	44.63	1.18	2.23	0.01	48.04
2024	February	43.30	45.38	1.06	0.92	0.00	47.44
2024	March	44.50	32.69	1.12	3.95	0.03	46.94
2024	April	45.03	38.31	1.08	6.89	0.04	46.32
2024	May	45.73	28.68	1.24	12.07	0.35	42.34
2024	June	44.42	36.10	1.22	6.24	0.43	43.99
2024	July	46.60	35.63	1.33	7.90	0.38	45.25
2024	August	45.86	33.12	1.34	9.48	0.54	44.49
2024	September	44.12	36.89	1.31	7.16	0.49	45.85
2024	October	45.06	37.40	1.13	5.07	0.32	43.92
2024	November	46.37	37.64	1.15	3.31	0.17	43.73
2024	December	46.11	46.89	1.04	1.82	0.02	49.77

2025 LOWRF Wastewater and Recycled Water Flows (Acre Feet)

Year	Month	Influent	Broderson	Bayridge	Sea Pines	Ag Users	Effluent
2025	Jan	45.74	41.61	1.25	2.15	0.05	45.07
2025	Feb	41.72	39.49	1.14	2.07	0.02	42.72
2025	Mar	45.63	39.35	1.25	4.80	0.04	45.45
2025	April	44.28	30.98	1.33	9.43	0.30	41.32
2025	May	46.04	27.12	1.25	10.12	0.39	40.67

LOWRF Project Updates:

- The County is working on projects for connecting the Los Osos Community Park, Los Osos Middle School, and Monarch Grove Elementary to the LOWRF recycled water distribution system. Construction at Los Osos Middle School began June 9th, and the other two sites June 24th. The County received funding for these connections through the ARPA grant program.
- The County has installed the effluent pump station VFDs at the LOWRF. VFDs will allow the pumps to ramp up and down based on the need for recycled water in the distribution system and for plant return water. Currently the pumps only have the capability to run at one speed and that leads to increased wear and tear on the motor and impellers. The VFDs will be set to specific pressure setpoints that will be determined using the recycled water distribution model. The expected outcome from installing the VFDs is decreased energy consumption and recirculation of water within the system.

Enforcement: A list of properties that were not connected were transferred to County Code Enforcement and Notice of Violations were issued last year in Feb. 2019. That list was about 70 properties. As of 5/12/2021, the sewer service area has a 99.4% connection status with a total of 36 properties not yet connected. Of those, one is not required to connect because there is no structure (demolished), 18 have expired building permits, and the rest have an open Code Enforcement case.

The County has assigned staff in code enforcement to Los Osos. Expired permits did not receive a Code Enforcement case because those properties have their own noticing process through the Building Department which, if not corrected, could result in a Notice of Violation.

Sustainable Groundwater Management Act (SGMA)

SGMA Overview: SGMA took effect on January 1, 2015.¹ SGMA provides new authorities to local agencies with water supply, water management or land use responsibilities and requires various actions be taken in order to achieve sustainable groundwater management in high and medium priority groundwater basins. Los Osos Valley Groundwater Basin (Los Osos Basin) was subject to SGMA based on the 2014 Basin Prioritization by the California Department of Water Resources (DWR) that listed the Los Osos Basin as high priority and in critical conditions of overdraft.²

Basin Prioritization: On December 18, 2019, DWR released the SGMA 2019 Basin Prioritizations. Basins or subbasins reassess to low or very low priority basins or subbasins are not subject to SGMA regulations. A summary of DWR's Final SGMA Prioritizations for the Los Osos Area Subbasin and Warden Creek Subbasin are listed below:

- Los Osos Area Subbasin is listed as **very low** priority for SGMA³ and in critical conditions of overdraft⁴
- SGMA does not apply to the portions of Los Osos Basin that are adjudicated provided that certain requirements are met (Water Code §10720.8).
- Warden Creek Subbasin is listed as **very low** priority for SGMA³

For more information on DWR's basin boundary modification and prioritization process, please visit: <https://water.ca.gov/Programs/Groundwater-Management/Basin-Prioritization>

¹ On September 16, 2014, Governor Jerry Brown signed into law a three-bill legislative package, composed of AB 1739 (Dickinson), SB 1168 (Pavley), and SB 1319 (Pavley), collectively known as SGMA

² SGMA mandates that all groundwater basins identified by DWR as high- or medium-priority by January 31, 2015, must have groundwater sustainability agencies established by June 30, 2017. The act also requires that all high- and medium-priority basins classified as being subject to critical conditions of overdraft in Bulletin 118, as of January 1, 2017, be covered by groundwater sustainability plans, or their equivalent, by January 31, 2020. Groundwater sustainability plans, or their equivalent, must be established for all other high- and medium-priority basins by January 31, 2022.

³ As noted by DWR, the priority for the subbasin has been set to very low (0 total priority points) as a result of conditions being met under sub-component C of the Draft SGMA 2019 Basin Prioritizations.

⁴ Critical conditions of overdraft have been identified in 21 groundwater basins as described in Bulletin 118 (Water Code Section 12924). Bulletin 118 (updates 2003) defines a groundwater basin subject to condition of critical overdraft as: "A basin is subject to critical conditions of overdraft when continuation of present water management practices would probably result in significant adverse overdraft-related environmental, social, or economic impacts."

Additional Attachments:

1. Updated Status of Basin Plan Programs

Update on Status of Basin Plan Infrastructure Projects

Program Name	Project Name	Parties Involved	BMC Budgeted Amount	Funding Status	Anticipated Planning/Pre-Construction Cost	Anticipated Capital Cost	Status/Notes
Program A – Shift groundwater production from Lower Aquifer to Upper Aquifer	Water Systems Interconnection	LOCSD/ GSWC	NA	NA	NA	NA	Completed
	Upper Aquifer Well (8 th Street)	LOCSD	NA	Fully Funded	NA	\$307,000	Completed
	South Bay Well Nitrate Removal	LOCSD	NA	NA	NA	NA	Completed
	Palisades Well Modifications	LOCSD	NA	NA	NA	NA	Completed
	Blending Project (Skyline Well)	GSWC	NA	NA	NA	NA	Completed
	Water Meters	S&T	NA	NA	NA	NA	Completed
Program B - Shift groundwater production from Lower Aquifer to Upper Aquifer	LOCSD Wells (Upper Aquifer)	LOCSD		Not Funded	TBD	BMP: \$2.7 mil	Project not initiated
	GSWC Wells (Upper Aquifer)	GSWC		Not Funded	TBD	BMP: \$3.2 mil	Project not initiated
	Community Nitrate Removal Facility	LOCSD/GSWC/S&T	TBD	Partial, GSWC portion funded	TBD	GSWC: \$1.23 mil	GSWC’s Program A Blending Project might be capable of expanding to be the first phase of the Program B Community Nitrate Removal Facility.
Program C - Shift production within the Lower Aquifer from the Western Area to the Central Area of the Basin	Expansion Well No. 1 (Los Olivos)	GSWC	NA	NA	NA	NA	Completed
	Expansion Well No. 2 (Lower Aquifer)	LOCSD		LOCSD	TBD	BMP: \$2.5 mil	The water transmission main and well drilling/equipping construction are complete. However, electrical power cannot be connected to the well until June 2025. Once electrical power is connected, the well can be commissioned and initiate operations.
	Expansion Well 3 (Lower Aquifer) and LOVR Water Main Upgrade	GSWC/LOCSD		Cooperative Funding	TBD	BMP: \$1.6 mil	The deferral from Program C for this project was removed by the BMC on August 16th, 2023.
	LOVR Water Main Upgrade	GSWC		May be deferred	TBD	BMP: \$1.53 mil	Project may not be required, depending on the pumping capacity of the drilled Program C wells. It may be deferred to Program D.
	S&T/GSWC Interconnection	S&T/ GSWC		Pending	TBD	BMP: \$30,000	Currently on hold pending further evaluation of the project.
Program D - Shift production within the Lower Aquifer from the Western Area to the Eastern Area of the Basin							Currently being considered for deferment through Adaptative Management. BMC to review on an annual or semi-annual basis.
Program M – Groundwater Monitoring Plan	New Zone D/E lower aquifer monitoring well in Cuesta by the Sea	All Parties	NA	NA	NA	NA	Completed

Program Name	Project Name	Parties Involved	BMC Budgeted Amount	Funding Status	Anticipated Planning/Pre-Construction Cost	Anticipated Capital Cost	Status/Notes
Program U - Urban Water Reinvestment Program	Creek Discharge Program	All Parties				TBD	These activities are currently on hold. The Transient Model and Water Recycling Funding Study are intended to better inform the BMC on the most effective opportunities for increasing the sustainable yield of the Basin.
	8 th and El Moro Urban Storm Water Recovery Project	All Parties				TBD	These activities are currently on hold. The Transient Model and Water Recycling Funding Study are intended to better inform the BMC on the most effective opportunities for increasing the sustainable yield of the Basin.

TO: Los Osos Basin Management Committee

FROM: Dan Heimerl, Executive Director

DATE: June 18, 2025

SUBJECT: Item 9a – Final Draft 2024 Annual Monitoring Report

Recommendations

Receive the Final Draft 2024 Annual Monitoring Report and authorize submission to the Court or provide alternate direction to staff.

Discussion

Section 5.8.3 of the Final Judgment requires the preparation of an AMR for the Los Osos Basin by June 30 of each year. The AMR describes activities related to the Los Osos Basin Plan, groundwater monitoring program, and the results and interpretations of these findings. The BMC retained Cleath-Harris Geologists (CHG) to prepare the AMR for Calendar Year 2024. The Final Draft 2024 AMR is available at the BMC's website (see link in Attachment 1 below). At the [May 21, 2025 BMC Meeting](#), the Board provided direction for Staff to include the AMR public comments received in an appendix to the Final AMR and include information on how these comments were addressed. A staff summary of the public comments received and responses/modifications to the document will be provided at the meeting.

Attachments

1. [2024 LOBMC Annual Report - Los Osos Groundwater Basin](#)

TO: Los Osos Basin Management Committee

FROM: Dan Heimerl, Executive Director

DATE: June 18, 2025

SUBJECT: Item 9b – Transient Model: Construction and Calibration and Baseline Scenario
Technical Memorandums

Recommendations

Receive the Transient Model Construction and Calibration and Baseline Scenario Technical Memorandums.

Background

On February 11, 2022 the Los Osos Community Services District (LOCSD), on behalf of the BMC, submitted an application for a WRF grant to develop a transient numerical flow model (Transient Model) and analyze recycled water and supplemental water projects to improve the sustainability of the Los Osos Basin (WRF Study). The Transient Model is a tool that provides a calibrated, dynamic simulation of groundwater levels and seawater intrusion in the Los Osos Groundwater Basin (Basin) and will be utilized by the BMC to assist in its management of this critical resource for the community of Los Osos. The Transient Model is an improvement upon the previously utilized steady state groundwater model (Steady State Model) that the BMC utilized for predicting potential future conditions in the Basin. The Transient Model allows for prediction of impacts from variable hydrology (i.e. extended droughts, above average rainfall periods, etc.) and incorporates new information on the structure (i.e. depth, layering, etc.) of the Basin that was not previously available.

The BMC selected Cleath-Harris Geologists (CHG) to prepare the Transient Model and GSI Water Solutions (GSI) as a peer-review hydrogeologic consultant to oversee the construction and calibration of the Transient Model. In addition to GSI, the County of San Luis Obispo Groundwater Sustainability Department retained another hydrogeologic consultant team, Lynker and One-Water Hydrologic, to complete an additional peer review of the Transient Model.

Discussion

Model Construction and Calibration

CHG completed a draft of the Transient Model Construction and Calibration Technical Memorandum (TM) and provided it to the peer review consultants for their review. GSI and Lynker completed their peer reviews of the Transient Model in early June 2025 and their comments and responses to comments are incorporated as appendices to the Public Draft Transient Model Construction and Calibration TM.

The GSI peer review determined that the Transient Model was constructed and calibrated within industry standards and suitable for application in evaluating anticipated effects on groundwater systems from various groundwater management strategies. The Lynker peer review initially identified a number of potential issues to consider and address before the Transient Model could be considered a robust tool for the evaluation of management alternative to mitigate against seater intrusion, but based on follow-up discussions with CHG, Lynker determined that these issues were considered and addressed and the that model was adequately calibrated for use in the WRFP Study.

Baseline Scenario

Utilizing the calibrated Transient Model, CHG prepared and ran a Baseline Scenario which assumes average pumping quantities (i.e. 1,830 Acre-Feet per Year [AFY]) and distribution (i.e. which wells are pumping) for the last 5 Years (2019 – 2023) would continue for the next 45 Years. The results of the Baseline Scenario indicate that pumping at current average rates and spatial distribution would cause seawater to intrude further into the Basin which is an indication that current average pumping and distribution is not sustainable.

This differs from the results of the Steady State Model that indicated that pumping in the Basin in an amount of 2,380 AFY at an optimized spatial distribution could be sustained without causing seawater to intrude beyond the threshold established in the BMC's current Sustainable Yield Estimate Methodology, see October 16, 2024 BMC Meeting Agenda packet for additional information on the BMC's current Sustainable Yield Estimate Methodology.

The transient model is a significant improvement over the steady-state model, containing close to two orders of magnitude more calibration targets, along with updated layer geometry and aquifer parameters. The transient nature of the model allows for simulating variable hydrologic patterns that include wet and dry cycles over a 45-year modeling period. The steady-state Model, due to its limitations, simulated constant hydrologic conditions occurring year over year and could not account for the impacts of variable hydrology (i.e. extend drought).

The extent of the intrusion over the next 45-years at the current Basin pumping distribution is simulated to advance up to 1,100 feet inland (24 feet per year) in Lower Aquifer Zone D. The greatest advance occurs towards downtown from Cuesta-by-the-Sea and would be detected at the new Skyline monitoring well cluster. In Zone E, the inland limit of the intrusion front stalls at the Community Park, with up to 400 feet of intrusion over 45 years (9 feet per year) continuing at LA11 near Pasadena Avenue. The intrusion front does not reach any active community supply wells, but is close to LA10.

Next Steps

Moving forward the Transient Model can be utilized to develop updated estimates of sustainable yield for the Basin and to evaluate different recycled water and/or supplemental water supply alternatives to help improve Basin sustainability. This work is currently ongoing as part of the WRFP Study.

Attachments

1. [Public Draft Los Osos Basin Transient Model Construction and Calibration Technical Memorandum](#)
2. [Public Draft Los Osos Basin Transient Model Baseline Scenario Technical Memorandum](#)