

**SEASIDE GROUNDWATER BASIN WATERMASTER
REGULAR MEETING OF THE BOARD OF DIRECTORS**

AGENDA

**Wednesday, January 3, 2024 – 2:00pm IN-PERSON
Monterey One Water Board Room
5 Harris Court, Building “D”, Ryan Ranch, Monterey, California**

Watermaster Board

Coastal Subarea Landowner – Director Paul Bruno
City of Seaside – Mayor Ian Oglesby
California American Water – Director Christopher Cook
City of Sand City – Mayor Mary Ann Carbone
Monterey Peninsula Water Management District (MPWMD) – Director George Riley
Laguna Seca Subarea Landowner – Director John Gaglioti
City of Monterey – Council Member Kim Barber
City of Del Rey Oaks – Council Member Kim Shirley
Monterey County/Monterey County Water Resources Agency – Supervisor Wendy Root Askew, District 4

I. CALL TO ORDER

II. ROLL CALL

III. ELECTION AND APPOINTMENT OF OFFICERS FOR CALENDAR YEARS 2023 AND 2024

- A. Chairperson - (Must be member of the Board of Directors) – Currently Mayor Oglesby
- B. Vice Chairperson - (Must be member of the Board of Directors) – Currently Mayor Carbone
- C. Secretary - (Need not be a member of the Board of Directors) – Currently Admin. Officer Paxton
- D. Treasurer - (Need not be a member of the Board of Directors) – Currently Director Gaglioti

IV. PUBLIC COMMUNICATIONS

Oral communications are on each meeting agenda in order to provide members of the public an opportunity to address the Watermaster on matters within its jurisdiction. Matters not appearing on the agenda will not receive action at this meeting but may be referred to the Watermaster Administrator or may be set for a future meeting. Presentations will be limited to three minutes or as otherwise established by the Watermaster. In order that the speaker may be identified in the minutes of the meeting, it is helpful if speakers state their names.

V. REVIEW OF AGENDA

A vote may be taken to add to the agenda an item that arose after the 72-hour posting deadline pursuant to the requirements of Government Code Section 54954.2(b). (A 2/3-majority vote is required)

VI. ORAL PRESENTATION – None

VII. CONSENT CALENDAR

- A. Minutes of Regular Board meeting held November 1, 2023 3
- B. Board and TAC schedule of meetings for 2024..... 7
- C. Summary of Payments made September through October 2023 9
- D. Fiscal Year 2023 Financial Reports through November 30, 2023..... 13
- E. Professional Service Contracts for Fiscal Year 2024: 19
 - 1. Two Contracts with Montgomery & Associates, Inc. — one for \$14,070 for providing ongoing and as-requested general hydrogeologic consulting services during the year, and the second for \$28,020 to prepare the Seawater Intrusion Analysis Report (SIAR) for 2024

2. One Contract with Martin Feeney—for \$4,000 to provide on-call/as-requested hydrogeologic consulting services for 2024
 3. One Contract with Todd Groundwater—for \$4,000 to provide on-call/as-needed hydrogeologic consulting services for 2024
 4. One Contract with MPWMD—for \$77,525 to perform monitoring and other work on the Seaside Groundwater Basin Monitoring and Management Program (M&MP) for 2024, including Sentinel Wells induction logging previously performed by Martin Feeney
 5. One Contract with Klein, DeNatale, Goldner, Cooper, Rosenlieb and Kimball, LLP—for \$25,000 to provide Watermaster legal services for 2024
- F.** Water Year 2024 Declaration of Unavailability of Artificial Replenishment Water (Water Year 2024 Production Allocations and Basin Storage Allocations attached) 61
- G.** Seawater Intrusion Analysis Report for 2023. The Executive Summary is included in the Board agenda packet. The complete SIAR is posted on the Watermaster website at https://www.seasidebasinwatermaster.org/Other/2023%20Seawater%20Intrusion%20Analysis%20Report_withAppendices20231207_TAC_Draftv2.pdf..... 65
- H.** Acknowledgement that the extraction of water identified in the City of Seaside Notice of Intent for Assignment and Transfer of Production Allocation dated November 1, 2023 will be from California American Water wells, not from City of Seaside wells..... 73

VIII. NEW BUSINESS

- A.** Consider Approving Water Year 2023 Watermaster Annual Report. The body of the Draft 2023 Annual Report is included in the Board agenda packet. The complete Draft version is posted at <https://www.seasidebasinwatermaster.org/Other/2023%20Preliminary%20Draft%20Annual%20Report%2012-6-23.pdf> 77

IX. OLD BUSINESS

- A.** Consider format for future Watermaster board meetings 99

X. INFORMATIONAL REPORTS (No Action Required)

- A.** Technical Advisory Committee (TAC) draft meeting minutes December 13, 2023 101
- B.** Replenishment Ad Hoc Committee (RAHC) draft meeting minutes November 1, 2023 105
- C.** Watermaster report of production of the Seaside Basin through Water Year 2023 (October 1, 2021 – September 30, 2023)..... 107
- D.** Replenishment Fund Assessment calculations and 2023 Standard Producer Assessments 109
- E.** Sentinel Well #4 damage repair update to TAC dated December 13, 2023 111
- F.** Sustainable Groundwater Management Act Monthly Updates October – November 2023..... 113

XI. DIRECTOR’S REPORTS

XII. STAFF COMMENTS

XIII. CLOSED SESSION

Pursuant to Government Code §54956.9(c), the board will confer with district counsel to review one matter of potential litigation.

- XIV.** Consider motion to adjourn to next regular Watermaster Board meeting to be held on Wednesday, February 7, 2024 - 2:00 P.M.

This agenda was forwarded via e-mail to the City Clerks of Seaside, Monterey, Sand City and Del Rey Oaks; the Clerk of the Monterey Board of Supervisors, the Clerk to the Monterey Peninsula Water Management District; the Clerk at the Monterey County Water Resources Agency, Monterey One Water and the California American Water Company for posting on December 28, 2023 per the Ralph M. Brown Act, Government Code Section 54954.2(a).

**SEASIDE GROUNDWATER BASIN WATERMASTER
REGULAR MEETING MINUTES
Wednesday, November 1, 2023 In-Person
Monterey One Water Board Room
5 Harris Court, Building “D”, Ryan Ranch, Monterey, California**

I. CALL TO ORDER – Mayor Oglesby was absent. Director Bruno presiding called the meeting to order at 2:00p.m.

II. ROLL CALL

California American Water (CAW) – Director Chris Cook
Monterey Peninsula Water Management District (MPWMD) – Director George Riley
City of Monterey – Council Member Kim Barber
City of Del Rey Oaks – Council Member Kim Shirley
Monterey County/Monterey County Water Resources Agency – Supervisor Wendy Root Askew
Coastal Subarea Landowner – Director Paul Bruno

Absent:

Laguna Seca Subarea Landowner – Director John Gaglioti
City of Seaside – Mayor Ian Oglesby
City of Sand City – Mayor Mary Ann Carbone

Others Present:

Laura Paxton, Watermaster Administrative Officer (AO)
Robert Jaques, Watermaster Technical Program Manager (TPM)
Joseph Hughes, Watermaster Legal Counsel (Virtually)
Jonathan Lear, MPWMD
Maureen Hamilton, MPWMD
Yuri Anderson, Chief of Staff for Supervisor Wendy Root Askew
Sheri Damon, City Attorney, City of Seaside

III. PUBLIC COMMUNICATIONS – There were no public communications.

IV. REVIEW OF AGENDA – There were no requested changes to the agenda.

V. CONSENT CALENDAR

- A. Minutes of Regular Board meeting held September 6, 2023
- B. Summary of Payments made August through September 2023
- C. Fiscal Year 2023 Financial Reports through September 30, 2023

Director Cook requested Item B be pulled for discussion.

It was moved by Director Riley, seconded by Director Shirley, and unanimously carried 6-0 to approve consent agenda Items A and C.

Director Cook commented on the inter-agency/basin coordination noted in the billings. TPM Jaques works closely with area Groundwater sustainability Agencies to ensure the best interests of the Seaside Groundwater Basin are taken into consideration.

It was moved by Director Shirley, seconded by Director Barber, and unanimously carried 6-0 to approve consent agenda Item B.

VI. ORAL PRESENTATION – None

VII. OLD BUSINESS

A. Unit Cost Calculations importance, purpose, history and alternative calculation options.

Ms. Paxton highlighted her transmittal on the item. There is correction to the wording in the last sentence of the second to last paragraph on page 22: *The granting of the request is subject to CAW's obligation to provide future replenishment of the Basin equal to the number of acre feet CAW overproduced and for which CAW receives a Replenishment Credit.* Director Riley reiterated his contention expressed at multiple past meetings that the calculation method he is proposing is good math, as opposed to the bad math used and approved by the Watermaster Budget and Finance Committee and subsequently the Board since 2017.

Director Cook felt there could be many calculation methods beyond those proposed by Director Riley that consider nuanced calculation factors, however refining methods has been and is currently of minimal consequence, and so supported the recommended use of Director Riley's method, with continued review of the basis of project costs each year. Under the recommended unit cost calculation method, Director Bruno noted the City of Seaside would be impacted by an increased assessment if it continues to overproduce as it has in past years. City of Seaside City Attorney, Sheri Damon addressed the board agreeing that a lower unit cost is better for the City of Seaside.

There was discussion of the intent of the Replenishment Fund with respect to purchasing recharge water available from current or future supply projects. The Watermaster Replenishment Ad Hoc Committee has been formed to find a funding mechanism to cover the failure of the Replenishment Fund in attaining a balance needed to procure replenishment water to bring to health a Basin overproduced decades prior to the filing of the Decision and establishment of the fund.

Directors Riley and Bruno noted that the Replenishment Fund and Unit Costs are straight math taken directly out of the Decision; the requested change is strictly an administrative issue and not one of policy.

It was moved by Director Barber, seconded by Director Riley, and unanimously carried 6-0 to authorize use of individual flow-weighted averages for each project when calculating Replenishment Assessment Unit Costs for Water Year 2024 and future years, and adopt a 2024 Replenishment Assessment Unit Cost for Natural Safe Yield Overproduction of \$4,528.63 and for Operating Yield Overproduction of \$1,132.16.

Director Riley requested the charts in the staff report to be of a readable size when printed.

VIII. NEW BUSINESS

A. Options for in-person vs. virtual vs. hybrid board meetings in light of pending legislation that may loosen restrictions on teleconferencing/virtual meetings.

Ms. Paxton highlighted her transmittal on the item. Supervisor Askew offered the county supervisor conference room with virtual meeting capability at no charge to conduct Watermaster meetings. To Director Bruno's recollection having attended almost all board meetings since Watermaster inception, meeting in person had not been over burdensome, and during COVID years he did not notice an increase in public participation with virtual attendance as an option. Director Bruno supported public participation including virtual attendance and cost savings by meeting at a courtesy cost-free location.

Supervisor Askew felt there were significant benefits to having the public attend virtually and supported that option beginning with the next meeting. Counsel Hughes stated a legal case could be made that the county supervisor conference room situated outside the bounds of the Basin would be an acceptable meeting location under Brown Act requirements (at its September 6, 2023 meeting, the board acted to define Watermaster jurisdiction as within the bounds of areas represented by its board members). Sheri Damon, City of Seaside City Attorney addressed the board suggesting Watermaster look into using the City's meeting room that has virtual capability and is within the bounds of the Seaside Groundwater Basin to remove any doubt as to meeting location legitimacy per the Brown Act. City Attorney Damon would prefer to attend meetings virtually however acknowledged hate speech issues have been challenging for many local agencies; she recommended Watermaster have a procedure at hand for such an occurrence.

Director Riley felt it premature to act on the issue until the fee for the Monterey One Water technician was known, and until the City of Seaside and City of Sand City board representatives were present to have a full discussion.

It was moved by Director Riley, seconded by Council Member Barber, and unanimously carried 6-0 to table the item until the next meeting when Monterey One Water technician fees are known and there is full board participation in the discussion.

IX. INFORMATIONAL REPORTS (No Action Required)

- A. FO-09 Well installation photos
- B. Correspondence from Marina Coast Water District Groundwater Sustainability Agency to City of Seaside on well testing noise mitigation
- C. Watermaster Report of Production of the Seaside Basin through 4th Quarter Water Year 2023 (January 1, 2023 – September 30, 2023)
- D. Sustainable Groundwater Management Act Monthly Updates August – September 2023

Director Cook appreciated Mr. Jaques assembling the Monthly Updates. Recent conversations with various Groundwater Sustainability Agency representatives raised concern regarding the lack of understanding of water flow between the Seaside Groundwater Basin and other Salinas Valley Basin subbasins and the intention of Watermaster in managing its basin in cooperation with other subbasins. Director Cook requested a representative from Salinas Valley Basin Groundwater Sustainability Agency (SVBGSA), a consultant or staff member, present the modeling method for the Monterey, 180/400, Laguna Seca, and Corral de Tierra Subbasins as they relate to the Seaside Basin. It may be beneficial to have Watermaster consultants available. Mr. Jaques noted that initially the SVBGSA had a model developed for the entire Salinas Basin that was determined to not

correlate correctly at subbasin interfaces. For the Monterey Subbasin, the major subbasin abutting the Seaside Basin, Marina Coast Water District GSA consultant, EKI Environment & Water, Inc. created a separate model, the basis of which he determined interfaces correctly with the Seaside Groundwater Basin.

X. DIRECTOR'S REPORTS

Director Bruno will host a Watermaster holiday party co-hosted by CAW on Thursday, December 14 at 6:00pm at his home. An invitation by email will be sent out.

Director Riley noted that Judge Wills issued his decision on MPWMD's challenge to the Local Agency Formation Commission decision, giving guidelines including having MPWMD draft a writ of mandate for consideration in the next three to ten weeks.

XI. STAFF COMMENTS – Ms. Paxton advised of a formula error in the Report of Production under Informational Reports in the agenda packet, and provided a corrected printed report. The report will undergo further review by Montgomery and Associates when the 2023 Seawater Intrusion Analysis Report is prepared.

Reformatting and update of the Watermaster website is underway with a prototype still a few months out. It is planned to add a photo to the name of each board member. If there are no objections, staff will obtain photos of each board member from the internet, or will contact if a photo is needed.

XII. CLOSED SESSION – There was no closed session held.

XIII. ADJOURNMENT – There being no further business, the meeting was adjourned at 3:20 p.m. to a regular Board meeting to be held Wednesday, December 6, 2023 – 2:00 p.m., in person.

Respectfully submitted by Laura Paxton, Board Secretary

**SEASIDE GROUNDWATER BASIN
WATERMASTER**

**2024
SCHEDULE OF REGULAR MEETINGS**

	<u>BOARD</u>	<u>TAC</u>
JANUARY	3	10
FEBRUARY	7	14
MARCH	6	13
APRIL	3	10
MAY	1	8
JUNE	5	12
JULY	3	10
AUGUST	7	14
SEPTEMBER	4	11
OCTOBER	2	9
NOVEMBER	6	13
DECEMBER	4	11

SEASIDE GROUNDWATER BASIN WATERMASTER							ITEM VII.C.
							1/3/24
TO:	Board of Directors						
FROM:	Laura Paxton, AO						
DATE:	January 3, 2024						
SUBJECT:	Summary of Payments made October through November 2023						
RECOMMENDATIONS:							
Consider approving bill payments submitted and authorized to be paid October through November 2023							
Summary of Payments Made October 2023							
Paxton Associates (Administrative Officer (AO))				21.5	@110	\$	2,365.00
September 26 through October 25, 2023							
Responded to telephone inquiries, e-mail, and other correspondence as needed regarding the Seaside Basin; November board mtg agenda prep/confer w/Jaques; call to Hughes re: RAHC presentation; contact Gaglioti re: remote meetings. Finalize WM board & RAHC meeting agendas/send for posting; email to Hughes for funding options memo; contact Bruno to be RAHC alternate facilitator; prepare summary of payments Aug-Sep; financial rpts through 9/30/23. Assisted with Bruno holiday party invites. Routinely picked up mail from PO Box; reconciled accounts to the City of Seaside Watermaster accounts; prepared financial reports; processed invoices; reviewed and posted items to web site.							
Robert Jaques (Technical Program Manager)							
October 1 through October 31, 2023				52	@150	\$	7,800.00
Responded to emails, telephone inquiries, and other correspondence on a variety of Watermaster issues; Review/approve L. Paxton invoice; assist in getting FO-9 well encroachment issued; review packet materials for 10/5 180/400 foot GSP implementation committee meeting; begin preparing 2023 Annual Report (AR); Prep for/attend 8/21 B&F Com meeting; review/approve M&A invoice; visit SBWM-4 well to install protective posts and flagging to keep it from being damaged when restoration grading occurs; examine its vault to see how it can be restored for bolting down; pick up gate key from MPWMD office for access to SBWM-4 well site; review 10/19 Advisory Committee meeting agenda packet; visit FO-9 well site to observe drilling work in progress; review agenda packet for 10/25 Advisory Committee meeting; telecon w/ L. Paxton re: WM issues; visit FO-9 well site to observe drilling work in progress; begin preparing 2024 consultant contracts; telecon w/ M&A re: geophysical logging of FO-9 well; review/respond to inquiry from M&A re: unpaid July invoice; review and provide comments on draft Replenishment Assessment Unit Cost Board agenda transmittal per L. Paxton request; SBWM-4 well site visit to install lock down bolts on well vault cover; teleconference w/ L. Paxton and C. Cook re: WM website issues; visit FO-9 well site to observe casing being installed and placement of gravel pack filter; attend GSP-related meetings							
Montgomery & Associates (General Consulting Operations)				3.0	\$205/hr	\$	615.00
June 1 through July 31, 2023 *payment delayed due to invoice lost in email							
RFS 2023-01							
P. Benito review initial and revised Deep Aquifer Study presentation to prep for HCM Agency Meeting; attend Deep Aquifer Study agency meeting on HCM; respond to follow up questions and data request regarding PWM well and lithology information presentation							

Montgomery & Associates (FO-09 Well Installation Capital Project)	1.5	\$228/hr	\$	342.00
June 1 through July 31, 2023 *payment delayed - invoice lost in mail	1.0	\$182/hr		182.00
RFS 2022-05 F-09 Well Installation				
Communication with the contractor and client updates; provide executed subcontractor agreement and signed well permit application to C-57 contractor; and follow up on well permit status				
Montgomery & Associates (FO-09 Well Installation Capital Project)	1.0	\$228/hr	\$	228.00
September 1 through September 30, 2023	0.5	\$182/hr		91.00
RFS 2022-05 F-09 Well Installation				
Project Management: Coordinate contractor availability issues; review project with other potential contractors; and ongoing attempts to coordinate schedule with Maggiora Bros				
Montgomery & Associates (FO-09 Well Installation Capital Project)	5.0	\$182/hr	\$	910.00
September 1 through September 30, 2023				
RFS 2023-03				
Construction Management: review contractor submittals / resubmittals				
				\$ 2,368.00
Monterey Peninsula Water Management District	71.0	136		9,656.00
April through June 2023 RFS 2023-01	18.0	196		3,528.00
			Direct costs	4,783.18
Database entry/maint; water level collection; WQ sample & datalogger collection; SW #4 visit; MSC pump work & sample			Mileage	119.00
			Admin Support	126.00
				\$ 18,212.18
			Total for October 2023	\$ 30,745.18
Summary of Payments Made November 2023				
Klein DeNatale Goldner (Counsel Hughes - Admin Services)	1.5	@375	\$	562.50
September 19, 2023 - November 17, 2023				
Attend November 1, 2023 board meeting				
Klein DeNatale Goldner (Counsel Hughes - Replenishment Services)	2.3	@375	\$	862.50
September 19, 2023 - November 17, 2023				
Prepare for/attend November 1, 2023 Ad Hoc Committee meeting; telecon w/Paxton				
			Total Klein DeNatale Goldner	\$ 1,425.00
Paxton Associates (Administrative Officer (AO))	64.5	@110	\$	7,095.00
October 26 through November 25, 2023				
Responded to telephone inquiries, e-mail, and other correspondence as needed regarding the Seaside Basin; Damon/Ascent letter review & followup email to Cody Phillips; City of Seaside/CAW transfer notice to parties/Stoldt email/follow up w/Damon & Jaques re: transfer; 2024 budget notice to parties; arrange Damiani mtg to determine method of handling Seaside overproduction; correct production report with Seaside preferred overproduction method, correct all related AR documents/send to Jaques; cancel 12/6 board meeting; correct LSRA production report and send all production reports to Georgina; prepare all Annual Reports; SIARS; Court documents for new website; prepare RA assessment invoices/statements/docs for email and US mail distribution; meet w/Damiani/correct RA Fund & Assessments; deposit Capital Fund revenue at Seaside; teleco w/Sheller DBO; followup with City of Seaside to obtain 2023 water quality report; Forward quality reports from MMP & City of Seaside to M&A. Routinely picked up mail from PO Box; reconciled accounts to the City of Seaside Watermaster accounts; prepared financial reports; processed invoices; reviewed and posted items to web site				

Paxton Associates (New Website Construction)				13	@110	\$	1,430.00
							WordPress & site hosting annual fee
							\$ 105.70
							Total Paxton Associates
							\$ 8,630.70
Robert Jaques (Technical Program Manager)							
November 1 through November 30, 2023				33.5	@150	\$	5,025.00
Responded to emails, telephone inquiries, and other correspondence on a variety of Watermaster issues; Prepare agenda transmittals for and attend 11/1 Board & RAHC meetings; meet w/ B. DeBoer at FO-9 well site re: locking cover on the well; review Court's intended decision on the MPWMD vs. LAFCO litigation; prepare Consultants work schedule for 2024; review City of Seaside's water wheeling request and provide comments to Paxton per her request; final visit to FO-9 well site to see completed well box and pad; Review/approve Paxton, M&A, and MPWMD 2023 invoices; telecon w/ C. Steinmetz and G. King re: SIAR issues; evaluate and plot Sentinel Well induction logging results; download and begin review of Draft SIAR; continue preparing 2023 Annual Report							
Montgomery & Associates (General Consulting)				0.5	\$228/hr	\$	114.00
September 1 through October 31, 2023				3.0	\$205/hr	\$	615.00
RFS 2023-01							
Review correspondence from MIW and Watermaster regarding simulated cross-boundary flows and impact on seawater intrusion; respond to request from B. Jaques to review new DWR AEM data sets; acquire and download AEM data sets for Monterey Bay Region and conduct preliminary review of report and profiles; respond to emails from Jaques on sentinel wells and SNG well							
Montgomery & Associates (FO-09 Well Installation Capital Project)				0.5	\$250/hr	\$	125.00
September 1 through October 31, 2023							
RFS 2022-05 F-09 Well Installation							
Project Management: communication regarding driller							
Montgomery & Associates (FO-09 Well Installation Capital Project)				7.5	\$228/hr	\$	1,710.00
September 1 through September 30, 2023				22.0	\$182/hr	\$	4,004.00
RFS 2023-03				46.0	\$138/hr	\$	6,348.00
Construction Management: coordinate encroachment permit and project kickoff meeting; coordination with contractor and field staff; review contractor submittals, drilling schedule, and status of encroachment permit with T. Hicks; travel to and from FO-9R shallow well site; oversee borehole drilling; prepare template for approval of preliminary well design; prepare final well design; coordinate clean-out pass, caliper survey, and construction; and upload field photographs							
				90.0	\$118/hr	\$	10,620.00
					Mileage/Expenses	\$	2,439.08
							\$ 25,975.08
Martin B. Feeney, PG CHg Consulting Hydrogeologist				14.0	\$200/hr	\$	2,800.00
August - November 2023					Locking plug for MW4		28.14
RFS 2023-01, Hydrogeologic Consulting					Surveys video/induction logging		6,366.83
Induction logging - work stopped due to equipment fail					Markup		639.50
							Total Martin Feeney
							\$ 9,834.47
							Total for November 2023
							\$ 50,890.25

Seaside Groundwater Basin Watermaster
Budget vs. Actual Administrative Fund
 Fiscal Year (January 1 - December 31, 2023)
 Balance through November 30, 2023

	2023 Adopted Budget October 5, 2022	Contract Amount	Year to Date Revenue / Expenses
Available Balances & Assessments			
Other Assessments	-		
FY (Rollover)	39,500.00		55,111.67
Admin Assessments	60,500.00		60,500.00
Available	100,000.00		115,611.67
Expenses			
Contract Staff	60,000.00	60,000.00	51,420.70
PAC / 3D Basin Modeling	3,000.00	3,000.00	3,000.00
Legal Counsel	12,000.00	20,000.00 *	2,812.50
Filing fees and postage			-
Total Expenses	75,000.00	83,000.00	57,233.20
Total Available	25,000.00		
Dedicated Reserve	25,000.00		-
Net Available	-		58,378.47

* \$8,000 of the contracted amount is an approximation of expenditures related to the Replenishment Fund

Seaside Groundwater Basin Watermaster
Budget vs. Actual Monitoring & Management - Operations Fund
 Fiscal Year (January 1 - December 31, 2023)
 Balance through November 30, 2023

	<u>2023 Adopted Budget</u>	<u>Contract Encumbrance</u>	<u>Year to Date Revenue/Expenses</u>
Available Balances & Assessments			
Operations Fund Assessment	\$ 274,930.00	\$ -	\$ 274,930.00
Pass Through		-	3,678.00
FY 2022 Rollover (estimated)	50,000.00	-	50,000.00
Total Available	\$ 324,930.00	\$ -	\$ 328,608.00
Appropriations & Expenses			
GENERAL			
Technical Project Manager*	\$ 75,000.00	\$ 75,000.00	\$ 54,525.00
Contingency @ 10% (not including TPM)	32,600.00	-	
Total General	\$ 107,600.00	\$ 75,000.00	\$ 54,525.00
CONSULTANTS (Montgomery; Web Site Database)			
Program Administration	\$ 22,744.00	\$ 25,144.00	\$ 7,266.83
Production/Lvl/Qty Monitoring	8,600.00		
Basin Management	70,000.00		
Seawater Intrusion Analysis Report	27,176.00	27,176.00	-
Total Consultants	\$ 128,520.00	\$ 52,320.00	\$ 7,266.83
MPWMD			
Production/Lvl/Qty Monitoring	\$ 49,754.00	64,297.00	18,212.18
Pass Through 2023	20,042.00	-	6,501.00
Basin Management	-		-
Seawater Intrusion	-	-	-
Direct Costs	-	-	-
Total MPWMD	\$ 69,796.00	\$ 64,297.00	\$ 24,713.18
CONTRACTOR (Martin Feeney)			
Hydrogeologic Consulting Services	\$ 4,000.00	4,000.00	600.00
Production/Lvl/Qty Monitoring	11,014.00	11,013.30	-
	\$ 15,014.00	\$ 15,013.30	\$ 600.00
CONTRACTOR (Todd Groundwater)			
Hydrogeologic Consulting Services	\$ 4,000.00	\$ 4,000.00	-
Total Appropriations & Expenses	\$ 324,930.00	\$ 210,630.30	\$ 87,105.01
Total Available	-		241,502.99

**Seaside Groundwater Basin Watermaster
Budget vs. Actual Monitoring and Management - Capital Fund
Fiscal Year (January 1 - December 31, 2023)
Balance through November 30, 2023**

	2023 Adopted Budget December 7, 2022	Contract Encumbrance	Year to Date Revenue / Expense
Available Balances and Assessments:			
Monitoring & Management Fund - Capital	\$ 240,000.00		\$ -
FY 2022 carryover	66,666.99		66,666.99
Transfer out to Operations Fund	-		-
Subtotal	<u>306,666.99</u>		<u>66,666.99</u>
Appropriations & Expenses:			
Professional Services			
Project Management	-	\$ 23,600.00 *	41,611.35
Subtotal	<u>-</u>	<u>23,600.00</u>	<u>41,611.35</u>
Direct Costs			
Well Drilling -	240,000.00 **	258,197.00	1,800.00
Subtotal	<u>240,000.00</u>	<u>258,197.00</u>	<u>1,800.00</u>
Total Appropriations and Expenses	<u>240,000.00</u>	<u>\$ 281,797.00</u>	<u>43,411.35</u>
Total Available	<u><u>\$ 66,666.99</u></u>		<u><u>\$ 23,255.64</u></u>

* RFS 2022-05 for \$23,600 covers design and planning for the new well and is funded by the 2022 \$66,667 carryover amount

**RFS 2023-03 for \$258,197 is for actual construction of the well. Costs increased between adoption of the budget and letting of the RFS with Montgomery and Associates. Watermaster will share the \$258,197 well construction expenses with MCWD & MPWMD - agreement executed September 2023. Capital Fund Assessments were levied on Watermaster Standard Producers, payment due to Watermaster December 15, 2023.

Seaside Groundwater Basin Watermaster											VII.D
Replenishment Fund											1/3/23
Water Year 2023 (October 1 - September 30) / Fiscal Year (January 1 - December 31, 2023)											Page 1
Balance through November 30, 2023											
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Assessment Water Year	WY 05/06	WY 06/07	WY 07/08	WY 08/09	WY 09/10	WY 10/11	WY 11/12	WY 12/13	WY 13/14	WY 14/15	WY 15/16
Unit Cost:	a \$1,132 / \$283	\$1,132 / \$283	\$2,485 / \$21.25	\$3,040 / \$760	\$2,780 / \$695	\$2,780 / \$695	\$2,780 / \$695	\$2,780 / \$695	\$2,702/\$675.50	\$2,702/\$675.50	\$2,702/\$675.50
Cal-Am Water Balance Forward	b \$ -	\$ 1,641,004	\$ 4,226,710	\$ (2,871,690)	\$ (2,839,939)	\$ (3,822,219)	\$ (6,060,164)	\$ (8,735,671)	\$ (6,173,771)	\$ (3,102,221)	\$ (676,704)
Cal-Am Water Production (AF)	c 3,710.00	4,059.90	3,862.90	2,966.02	3,713.52	3,416.04	3,070.90	3,076.61	3,232.10	2,764.73	1,879.21
Cal-Am Water NSY Over-Production (AF)	d 1,862.69	2,266.32	2,092.16	1,241.27	1,479.47	1,146.71	820.48	856.42	1,032.77	782.17	-
Exceeding Natural Safe Yield Considering Alternative Producers	e \$ 2,106,652	\$ 2,565,471	\$ 5,199,014	\$ 3,773,464	\$ 4,112,933	\$ 3,187,854	\$ 2,280,943	\$ 2,380,842	\$ 2,790,539	\$ 2,113,414	-
Operating Yield Overproduction Replenishment	f \$ -	\$ 20,235	\$ 8,511	\$ -	\$ -	\$ -	\$ 154,963	\$ 181,057	\$ 281,012	\$ 312,103	-
Total California American	g \$ 2,106,652	\$ 2,585,706	\$ 5,207,525	\$ 3,773,464	\$ 4,112,933	\$ 3,187,854	\$ 2,435,907	\$ 2,561,899	\$ 3,071,550	\$ 2,425,516	\$ -
CAW Credit Against Assessment	h \$ (465,648)		\$ (12,305,924)	\$ (3,741,714)	\$ (5,095,213)	\$ (5,425,799)	\$ (5,111,413)				
CAW Unpaid Balance	i \$ 1,641,004	\$ 4,226,710	(2,871,690)	\$ (2,839,939)	\$ (3,822,219)	\$ (6,060,164)	\$ (8,735,671)	\$ (6,173,771)	\$ (3,102,221)	\$ (676,704)	\$ (676,704)
City of Seaside Balance Forward	j \$ -	\$ 243,294	\$ 426,165	\$ 1,024,272	\$ 1,619,973	\$ 891,509	\$ (110,014)	\$ (773,813)	\$ (1,575,876)	\$ (2,889,325)	\$ (3,346,548)
City of Seaside Municipal Production (AF)	k 332.00	287.70	294.20	293.44	282.87	240.68	233.72	257.73	223.64	185.01	195.16
City of Seaside NSY Over-Production (AF)	l 194.07	153.78	161.99	153.06	113.21	50.84	58.82	85.17	52.71	25.77	37.87
Exceeding Natural Safe Yield Considering Alternative Producers	m \$ 219,689	\$ 174,082	\$ 402,540	\$ 465,300	\$ 314,721	\$ 141,335	\$ 163,509	\$ 236,782	\$ 142,410	\$ 69,630	\$ 102,330
Operating Yield Overproduction Replenishment	n \$ 12,622	\$ 85	\$ 4,225	\$ 16,522	\$ 20,690	\$ -	\$ 1,689	\$ 27,007	\$ 3,222	\$ 38	\$ 11,959
Total Municipal	o \$ 232,310	\$ 174,167	\$ 406,764	\$ 481,823	\$ 335,412	\$ 141,335	\$ 165,198	\$ 263,788	\$ 145,631	\$ 69,667	\$ 114,290
City of Seaside - Golf Courses (APA - 540 AFY)											
Exceeding Natural Safe Yield - Alternative Producer	p -	-	\$ 131,705	\$ 69,701	-	-	-	-	-	-	-
Operating Yield Overproduction Replenishment	q -	-	\$ 32,926	\$ 17,427	-	-	-	-	-	-	-
Total Golf Courses	r \$ -	\$ -	\$ 164,631	\$ 87,128	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total City of Seaside*	s \$ 232,310	\$ 174,167	\$ 571,395	\$ 568,951	\$ 335,412	\$ 141,335	\$ 165,198	\$ 263,788	\$ 145,631	\$ 69,667	\$ 114,290
City of Seaside Late Payment 5%	t \$ 10,984	\$ 8,704	\$ 26,712	\$ 26,750	\$ 15,737						
In-lieu Credit Against Assessment	u \$ -	\$ -	\$ -	\$ -	\$ (1,079,613)	\$ (1,142,858)	\$ (828,996)	\$ (1,065,852)	\$ (1,459,080)	\$ (526,890)	\$ (162)
City of Seaside Unpaid Balance	v \$ 243,294	\$ 426,165	\$ 1,024,272	\$ 1,619,973	\$ 891,509	\$ (110,014)	\$ (773,813)	\$ (1,575,876)	\$ (2,889,325)	\$ (3,346,548)	\$ (3,232,420)
Mission Memorial Park											
Mission Memorial Park Production (AF)	w		20.80	26.40	12.80	22.40	27.00	24.95	24.89	17.97	13.67
Mission Memorial Park NSY Over-Production (AF)	x	-	-	-	-	-	-	-	-	-	-
Exceeding Natural Safe Yield - Alternative Producer	y	-	-	-	-	-	-	-	-	-	-
Operating Yield Overproduction Replenishment	z	-	-	-	-	-	-	-	-	-	-
Total Mission Memorial Park	aa \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Replenishment Fund Balance	bb \$ 1,884,298	\$ 4,652,874	\$ (1,847,417)	\$ (1,219,966)	\$ (2,930,710)	\$ (6,170,178)	\$ (9,509,483)	\$ (7,749,648)	\$ (5,991,546)	\$ (4,023,252)	\$ (3,909,125)
Replenishment Fund Balance Forward	cc \$ -	\$ 1,884,298	\$ 4,652,874	\$ (1,847,417)	\$ (1,219,966)	\$ (2,930,710)	\$ (6,170,178)	\$ (9,509,483)	\$ (7,749,648)	\$ (5,991,546)	\$ (4,023,252)
Total Replenishment Assessments	dd \$ 2,349,946	\$ 2,768,576	\$ 5,805,632	\$ 4,369,165	\$ 4,464,082	\$ 3,329,189	\$ 2,601,104	\$ 2,825,688	\$ 3,217,182	\$ 2,495,183	\$ 114,290
Total Paid and/or Credited	ee \$ (465,648)	\$ -	\$ (12,305,924)	\$ (3,741,714)	\$ (6,174,826)	\$ (6,568,657)	\$ (5,940,409)	\$ (1,065,852)	\$ (1,459,080)	\$ (526,890)	\$ (162)
Grand Total Fund Balance	ff \$ 1,884,298	\$ 4,652,874	\$ (1,847,417)	\$ (1,219,966)	\$ (2,930,710)	\$ (6,170,178)	\$ (9,509,483)	\$ (7,749,648)	\$ (5,991,546)	\$ (4,023,252)	\$ (3,909,125)
* 2010 = 319.55 AF golf course in-lieu replenishment and 68.8 AF 4-party agmt in-lieu replenishment											
2011 = 411.1 AF golf course in-lieu replenishment											
2012 = 298.2 AF golf course in-lieu replenishment											
2013 = 383.4 AF golf course in-lieu replenishment											
2014 = 552.4 AF golf course in-lieu capped at 540 AF											
2015 = 195.0 AF golf course in-lieu											
2016 = 00.06 AF golf course in-lieu											
2017 = 00.00 AF golf course in-lieu											

Seaside Groundwater Basin Watermaster Replenishment Fund Water Year 2023 (October 1 - September 30) / Fiscal Year (January 1 - December 31, 2023) Balance through November 30, 2023										
	2017	2018	2019	2020	WY 2021	WY 2022	WY 2023	Totals WY 2006 Through 2023	Budget WY 2024	Projected Totals Through WY 2024
Replenishment Fund										
Assessment Water Year	WY 16/17	WY 17/18	WY 18/19	WY 19/20	WY 20/21	WY 21/22	WY 22/23		WY 23/24	
Unit Cost:	\$2,872 / \$718	\$2,872 / \$718	\$2,872 / \$718	\$2,872 / \$718	\$2,947 / \$737	\$3,260 / \$815	\$3,461 / \$865		\$4,569 / \$1,132	
Cal-Am Water Balance Forward	b	\$ (676,704)	\$ (491,747)	\$ (48,797,949)	\$ (47,979,852)	\$ (46,855,121)	\$ (46,855,121)		\$ (46,855,121)	
Cal-Am Water Production (AF)	c	2,029.51	2,229.45	2,120.22	2,245.88	1,664.04	1,648.71	49,259.34		
Cal-Am Water NSY Over-Production (AF)	d	64.40	374.65	284.85	334.21	-	-	1,638.57		
Exceeding Natural Safe Yield Considering Alternative Producers	e	\$ 184,957	\$ 1,075,995	\$ 818,097	\$ 959,859	-	-	\$ 33,550,034	-	\$ 33,550,034
Operating Yield Overproduction Replenishment	f				164,872	-	-	\$ 1,122,753	-	\$ 1,122,753
Total California American	g	\$ 184,957	\$ 1,075,995	\$ 818,097	\$ 1,124,731	\$ -	\$ -	\$ 34,672,786	\$ -	\$ 34,672,786
CAW Credit Against Assessment	h		\$ (49,382,196)	-	-	-	-	\$ (81,527,907)	-	\$ (81,527,907)
CAW Unpaid Balance	i	\$ (491,747)	\$ (48,797,949)	\$ (47,979,852)	\$ (46,855,121)	\$ (46,855,121)	\$ (46,855,121)	\$ (46,855,121)	\$ (46,855,121)	\$ (46,855,121)
City of Seaside Balance Forward (120.28 AF)	j	\$ (3,232,420)	\$ (3,142,500)	\$ (3,022,249)	\$ (2,919,806)	\$ (2,802,831)	\$ (2,708,829)	\$ (2,661,184)	\$ (2,661,184)	
City of Seaside Municipal Production (AF)	k	188.31	184.63	178.40	181.65	174.69	155.12	4,047.41		
City of Seaside NSY Over-Production (AF)	l	30.47	32.46	27.82	32.06	25.52	11.69	1,247.31		
Exceeding Natural Safe Yield Considering Alternative Producers	m	\$ 87,512	\$ 93,225	\$ 79,893	\$ 92,089	\$ 75,197	\$ 38,116	\$ 2,898,358	0.00	\$ 2,898,358
Operating Yield Overproduction Replenishment	n	2,409	27,026	22,550	24,886	18,808	9,529	\$ 203,263	0.00	\$ 203,263
Total Municipal	o	\$ 89,920	\$ 120,251	\$ 102,443	\$ 116,975	\$ 94,002	\$ 47,645	\$ 3,101,621	0.00	\$ 3,101,621
City of Seaside - Golf Courses (APA - 540 AFY)										
Exceeding Natural Safe Yield - Alternative Producer	p	-	-	-	-	-	-	\$ 201,406		\$ 201,406
Operating Yield Overproduction Replenishment	q	-	-	-	-	-	-	\$ 50,353		\$ 50,353
Total Golf Courses	r	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 251,759		\$ 251,759
Total City of Seaside*	s	\$ 89,920	\$ 120,251	\$ 102,443	\$ 116,975	\$ 94,002	\$ 47,645	\$ 3,353,380	0.00	\$ 3,353,380
City of Seaside Late Payment 5%	t							\$ 88,887		\$ 88,887
In-lieu Credit Against Assessment	u							\$ (6,103,451)		\$ (6,103,451)
City of Seaside Unpaid Balance	v	\$ (3,142,500)	\$ (3,022,249)	\$ (2,919,806)	\$ (2,802,831)	\$ (2,708,829)	\$ (2,661,184)	\$ (2,661,184)	\$ (2,661,184)	\$ (2,661,184)
Mission Memorial Park (APA - 31 AFY)										
Mission Memorial Park Production (AF)	w	13.74	14.43	16.07	20.00	46.77	33.95	335.84		
Mission Memorial Park NSY Over-Production (AF)	x	-	-	-	-	15.77	2.95	18.72		
Exceeding Natural Safe Yield - Alternative Producer	y	-	-	-	-	\$ 46,488	\$ 9,608	\$ 56,096		\$ 56,096
Operating Yield Overproduction Replenishment	z	-	-	-	-	11,626.00	2,401.97	\$ 14,028		\$ 14,028
Board Approved (5/4/22) Credit Against Assessment						(33,114.00)	-	\$ (33,114)		\$ (33,114)
\$8,500 Applied to Admin Fund to cover expenses						(8,500.00)	-			
Mission Memorial Park Unpaid Balance	aa	-	-	-	-	-	-	\$ -	\$ -	\$ -
Total	o	\$ -	\$ -	\$ -	\$ -	\$ 16,500	\$ 12,010	\$ 28,510	\$ -	\$ 28,510
Balance of Available Funds								\$ 35,046		
Total Replenishment Fund Balance	bb	\$ (3,634,247)	\$ (51,820,198)	\$ (50,899,658)	\$ (49,657,952)	\$ (49,563,950)	\$ (49,516,305)	\$ (49,487,795)	\$ (49,516,305)	\$ (49,516,305)
Replenishment Fund Balance Forward	cc	\$ (3,909,125)	\$ (3,634,247)	\$ (51,820,198)	\$ (50,899,658)	\$ (49,657,952)	\$ (49,516,305)		\$ (49,509,768)	
Total Replenishment Assessments	dd	\$ 274,877	\$ 1,196,246	\$ 920,540	\$ 1,241,706	\$ 110,502	\$ 59,655	\$ 38,143,563	\$ -	\$ 38,143,563
Total Paid and/or Credited	ee		\$ (49,382,196)			\$ (16,500)	\$ (12,010)	(87,659,868)		(87,659,868)
Total Paid for Replenishment Legal Services	ff							6,536	21,974	28,510
Grand Total Fund Balance	gg	\$ (3,634,247)	\$ (51,820,198)	\$ (50,899,658)	\$ (49,657,952)	\$ (49,563,950)	\$ (49,516,305)	\$ (49,509,768)	\$ (49,487,795)	\$ (49,487,795)

TO: Board of Directors
FROM: Robert S. Jaques, Technical Program Manager
Laura Paxton, Administrative Officer

DATE: January 3, 2024

SUBJECT: Consider Approving the following Professional Service Contracts for Fiscal Year 2024:

1. Two Contracts with Montgomery & Associates, Inc. — one for \$14,070 for providing ongoing and as-requested general hydrogeologic consulting services during the year, and the second for \$28,020 to prepare the Seawater Intrusion Analysis Report (SIAR) for 2024
2. One Contract with Martin Feeney— for \$4,000 to provide on-call/as-requested hydrogeologic consulting services for 2024
3. One Contract with Todd Groundwater—for \$4,000 to provide on-call/as-needed hydrogeologic consulting services for 2024
4. One Contract with MPWMD—for \$77,525 to perform monitoring and other work on the Seaside Groundwater Basin Monitoring and Management Program (M&MP) for 2024, including Sentinel Wells induction logging previously performed by Martin Feeney
5. One Contract with Klein, DeNatale, Goldner, Rosenlieb and Kimball, LLP—for \$25,000 to provide Watermaster legal services for 2024

RECOMMENDATIONS:

It is recommended that the Board approve the attached RFS No. 2024-01 and 2024-02 with Montgomery & Associates, RFS No. 2024-01 with Martin Feeney, RFS No. 2024-01 with Todd Groundwater, SOW 2024-01 with MPWMD, and RFS No. 2024-01 with Klein, DeNatale, Goldner, Rosenlieb and Kimball.

BACKGROUND:

Attached are the proposed initial contracts for each of the Watermaster’s consultants that are expected to work on M&MP activities, and for Watermaster legal services, during 2024. With the exception of MPWMD, each of these are currently working under a master form of agreement with the Watermaster called a “Professional Services Agreement” (PSA). Actual work assignments are made through the issuance of Requests for Service (RFS) under the umbrella language of the PSA. For MPWMD there is a Master Agreement and actual work assignments are made through the issuance of “Scopes of Work” (SOW) under the umbrella language of the Master Agreement.

DISCUSSION

The attached RFSs and the one SOW constitute the proposed initial 2024 work assignments for each of these consultants as follows:

- Montgomery & Associates RFS No. 2024-01 covering their providing general hydrogeologic consulting services and for providing assistance in preparing documents that the Watermaster will need to submit to fulfill its reporting requirements under the Sustainable Groundwater Management Act.
- Montgomery & Associates RFS No. 2024-02 covering their preparing the 2024 SIAR.
- MPWMD SOW No. 2024-01 covering their anticipated 2024 M&MP tasks, and covering their obtaining water quality and water level data from private producers who ask the Watermaster collect this data for them. The costs for the latter work are reimbursed by the private producers, and there is no net cost to the Watermaster for performing that work.
- Martin Feeney RFS No. 2024-01 covering his providing general hydrogeologic consulting service for 2024.
- Todd Groundwater RFS No. 2024-01 covering their providing general hydrogeologic consulting services for 2024.
- Klein et al RFS No. 2024-01 covering their providing legal services for 2024.

These consultants have reviewed the cost and scope details of these proposed contracts and their input has been included in the attached versions of the contracts. The technical contracts were reviewed by the TAC at its December 13, 2023 meeting and the TAC recommended that each of the contracts be approved.

If geochemical modeling needs to be performed on Cal Am's desalination plant water in 2024, and if that indicates the need to develop mitigation measures for possible adverse impacts from introducing non-native water into the Basin, I will develop an additional RFS for Montgomery & Associates during 2024 to use the Seaside Basin Groundwater Model to provide information to MPWMD's consultant (Pueblo Water Resources) to use in performing that geochemical modeling to develop such mitigation measures. Funds for this additional RFS have been included in the M&MP Operations Budget for 2024. When and if drafted, the RFS would come to the TAC for approval before going to the Board.

These contracts are being presented to the Board for approval at today's meeting to ensure the contracts will be in effect by the start of 2024. All of these costs are included in the Budgets that the Board approved at its September 6, 2023 meeting, and the work covered by these contracts is essentially the same as the work performed for the Watermaster by these consultants in prior years.

ATTACHMENTS:

Six Proposed Consultant Contracts for FY 2024:

2 RFSs – Montgomery & Associates

1 RFS – Martin Feeney

1 RFS – Todd Groundwater

1 SOW – MPWMD

1 RFS – Klein et al (Joseph Hughes)

SEASIDE BASIN WATERMASTER
REQUEST FOR SERVICE

DATE: January 1, 2023

RFS NO. 2023-01
(To be filled in by WATERMASTER)

TO: Cameron Tana
Montgomery & Associates
PROFESSIONAL

FROM: Robert Jaques
WATERMASTER

Services Needed and Purpose: General hydrogeologic consulting and document preparation services. See Scope of Work in Attachment 1.

Completion Date: All work of this RFS shall be completed not later than December 31, 2023, and shall be performed in accordance with the Schedule contained in Attachment 2.

Method of Compensation: Time and Materials (As defined in Section V of Agreement.)

Total Price Authorized by this RFS: \$ 22,744.00 (Cost is authorized only when evidenced by signature below.) (See Attachment 1 for Estimated Costs).

Total Price may not be exceeded without prior written authorization by WATERMASTER in accordance with Section V, COMPENSATION.

Requested by: _____ Date: _____
WATERMASTER Technical Program Manager

Agreed to by: _____ Date: _____
PROFESSIONAL

ATTACHMENT 1

SCOPE OF WORK

On an ongoing and as-requested basis, PROFESSIONAL will provide general hydrogeologic consulting services to WATERMASTER on a variety of topics. These may include, but not be limited to interpretation of water level and water quality data collected by WATERMASTER, BMAP and SIRP implementation issues, and preparation of documents for WATERMASTER's use in fulfilling its Sustainable Groundwater Management Act reporting requirements.

Providing these services will likely involve attending certain of WATERMASTER's Technical Advisory Committee (TAC) meetings, most of which will be attended remotely. These TAC meetings do not include special TAC or other meetings which may be required as part of performing other work which may be authorized under other RFSs issued to PROFESSIONAL by WATERMASTER. Any such other scope and cost proposals will incorporate costs for those meetings.

The Tasks in WATERMASTER's 2023 Monitoring and Management Program (M&MP) to which this RFS No. 2023-01 pertains are:

- M. 1. c & M.1. d - Preparation and Attendance of Meetings
- M. 1. e - Peer Review of Documents and Reports
- M.1.g – Sustainable Groundwater Management Act Documentation Preparation

ESTIMATED COSTS

Tasks M.1.c, M.1.d, and M.1.e: General Consulting Services will consist of working on these Tasks and attending some TAC and other meetings either remotely or in-person in Monterey, as requested by WATERMASTER.

\$20,280 in labor, travel, and incidental costs of this RFS No. 2023-01 are allocated to performing work on these Tasks.

Task M.1.g: Section 10720.8 of the Sustainable Groundwater Management Act (SGMA) requires adjudicated basins to submit annual reports. Most of the documentation that needs to be reported is already generated by the WATERMASTER in conjunction with preparing its own Annual Reports. However, information regarding changes in basin storage is not currently generated. PROFESSIONAL will provide an estimate of the change in basin storage under this RFS No. 2023-01.

\$2,464 in labor costs of this RFS No. 2023-01 are allocated to performing work for Task M.1.g.

All work under this RFS No. 2023-01 will be billed at the following hourly rates, including all markups and other direct costs:

Derrick Williams = \$275.00/hour Georgina King = \$228.00/hour Staff = \$160.00/hour

The total cost authorized by this RFS No. 2023-01 is \$22,744.00.

These costs are summarized in the table below.

Task	Hours			Costs		
	Derrick Williams \$275/hr	Georgina King \$228/hr	Staff \$160/hr	Consulting Fees	Expenses	Total Costs
Prepare 2023 Change in Storage Calculation per SGMA Requirements	0	8	4	\$2,464	\$0	\$2,464
General Consulting	24	60	0	\$20,280	\$0	\$20,280
TOTALS	24	68	4	\$22,744	\$0	\$22,744

ATTACHMENT 2
SCHEDULE

Montgomery & Associates RFS No. 2023-01 Work Schedule																			
ID	Task Name	2023																	
		Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	A
1	M. 1. c - Preparation and Attendance of Meetings																		
2	M. 1. e - Peer Review of Documents and Reports																		
3	M.1.g - SGMA Document Preparation																		

Montgomery & Associates RFS No 2023-01 Schedule 10-10-22.mpp Page 1

SEASIDE BASIN WATERMASTER
REQUEST FOR SERVICE

DATE: 1/1/2023

RFS NO. 2023-02
(To be filled in by WATERMASTER)

TO: Cameron Tana
PROFESSIONAL

FROM: Robert Jaques
WATERMASTER

Services Needed and Purpose: Prepare the Seawater Intrusion Analysis Report for 2023. See Scope of Work in Attachment 1.

Completion Date: All work of this RFS shall be completed not later than December 31, 2023, and shall be performed in accordance with the Schedule contained in Attachment 2.

Method of Compensation: Time and Materials (As defined in Section V of Agreement.)

Total Price Authorized by this RFS: \$ 27,176.00 (Cost is authorized only when evidenced by signature below.) (See Attachment 3 for Detailed Breakdown of Estimated Costs).

Total Price may not be exceeded without prior written authorization by WATERMASTER in accordance with Section V. COMPENSATION.

Requested by: _____ Date: _____
WATERMASTER Technical Program Manager

Agreed to by: _____ Date: _____
PROFESSIONAL

ATTACHMENT 1

SCOPE OF WORK

The scope consists of providing professional consulting services to WATERMASTER for preparation of the 2023 Seawater Intrusion Analysis Report (SIAR).

To promote efficiency, much of the text and graphics from the 2022 SIAR will be incorporated directly into the 2023 SIAR.

Preparing the 2023 SIAR will involve analyzing all water quality data at the end of Water Year 2023 (October 1, 2022 to September 30, 2023) and producing semi-annual (2nd and 4th quarters 2023) chloride concentration maps for each aquifer in the Basin. Time series graphs, trilinear graphs, and stiff diagram comparisons will be updated with new data. Second and fourth quarter groundwater elevation maps will also be produced. The annual EM logs will be analyzed to identify changes in seawater wedge locations. A determination of whether there is any evidence of seawater intrusion will be made, and recommendations will be included as warranted.

Water level and water quality data for WY 2023 will be provided to PROFESSIONAL in MS Access format. PROFESSIONAL will put this data into a report format and will include it as an attachment to the 2023 SIAR.

A Draft 2023 SIAR will be provided to WATERMASTER in electronic (not printed) form for review. WATERMASTER will provide its review comments and those of its TAC members through direct discussions with PROFESSIONAL at a TAC meeting which PROFESSIONAL will attend remotely via teleconference or Zoom. In addition to these oral comments, some TAC members may also provide recommended editorial changes electronically directly to PROFESSIONAL. These comments will be addressed in a Final 2023 SIAR. PROFESSIONAL will also present the Final version of the SIAR to the Board at a meeting which PROFESSIONAL will attend remotely via teleconference or Zoom. A CD containing an electronic version of the entire Final 2023 SIAR in MS Word will be provided to WATERMASTER. No printed copies of the 2023 SIAR will be required.

ATTACHMENT 2

ID		Task Name	2023														
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	I.4.c Annual Seawater Intrusion Analysis Report (SIAR)																
2	HydroMetrics Provides Draft SIAR to Watermaster																
3	TAC Approves Annual Seawater Intrusion Analysis Report (SIAR)																
4	Board Approves Annual Seawater Intrusion Analysis Report (SIAR)																

ATTACHMENT 3

DETAILED BREAKDOWN OF ESTIMATED COSTS

Note: Regardless of the use of the term "Estimated Cost" in this RFS, if the work of this RFS is to be compensated for using Lump Sum Payment method, it is understood and agreed to by PROFESSIONAL that the Total Price listed on page 1 of this RFS is binding and limiting as defined in Section V of the Agreement.

Task	Hours		Costs		
	Georgina King \$228/hr	Staff \$160/hr	Consulting Fees	Expenses	Total Costs
Prepare 2023 SIAR, including added appendices for groundwater levels and quality	32	108	\$24,576	\$0	\$24,576
Prepare for and Attend One TAC Meeting and One Board Meeting Online to Present Results of SIAR	10	2	\$2,600	\$0	\$2,600
TOTALS	42	110	\$27,176	\$0	\$27,176

SEASIDE BASIN WATERMASTER
REQUEST FOR SERVICE

DATE: January 1, 2023

RFS NO. 2023-01

(To be filled in by WATERMASTER)

TO: Martin Feenev

Martin Feenev
PROFESSIONAL

FROM: Robert Jaques

WATERMASTER

Services Needed and Purpose:

Perform certain Tasks contained within the Watermaster's Monitoring and Management Plan for 2023 (See detailed Scope of Work in Attachment 1).

Completion Date: The work of this RFS No. 2023-01 shall be completed in accordance with the schedule described in Attachment 1.

Method of Compensation: Time and Expense Payment Method (As defined in Section V of Agreement.)

Total Price Authorized by this RFS: \$ 11,013.30 (See Attachment 2 for a Breakdown of this Total Price. Cost is authorized only when evidenced by signature below.)

Total Price may not be exceeded without prior written authorization by WATERMASTER in accordance with Section V. COMPENSATION.

Authorized by: _____ Date: _____

WATERMASTER Technical Program Manager

Agreed to by: _____ Date: _____

PROFESSIONAL

ATTACHMENT 1

Detailed Scope of Work for RFS No. 2023-01

Background:

Performance of the work of RFS No. 2023-01 will require compliance with the State Department of Parks and Recreation Right of Entry Permit contained in Attachment 3. The document contained in Attachment 3 was issued in 2020, but was amended in 2022 to extend the term into 2023. PROFESSIONAL agrees to comply with the requirements of the Right of Entry Permit in conjunction with PROFESSIONAL's performance of this work.

Note: Sentinel Well No. 4 is located within the fenced compound of Marina Coast Water District's (MCWD's) Ord Village Pump Station. Access to perform induction logging of Sentinel Well No. 4 will be impacted by the demolition of that pump station, which is scheduled to take place in late 2022. Once the demolition is completed, the California Department of Parks and Recreation requires MCWD to restore the pump station site and the access road to that site. The restoration work will include removing the pavement materials from the access road and planting native vegetation to restore the pump station site and the access road. The van used by the induction logging contractor may still be able to drive to the well site, however, this will not be known until the restoration work is completed. If the van is not longer able to drive to the well site, logging can still be performed by parking the van on a paved road that will still exist near the pump station site, and, by using tripods and sheaves, running the induction logging cable from the van's location to the well site. In addition, to ensure that the well itself does not become overgrown with vegetation, a short riser pipe will need to be added to the existing at-grade well access box after the demolition is complete. The costs for this additional work will not be accurately known until sometime in mid-2023, shortly prior to the scheduled October 2023 logging event. Once those costs are known, an addendum to this RFS will need to be issued to increase the RFS amount accordingly.

Scope of Work

This RFS No. 2023-01 authorizes PROFESSIONAL to perform the work described in PROFESSIONAL's Proposal for Hydrogeologic Services, dated October 6, 2022 and contained in Attachment 2, with the following clarifications and/or additions:

PROFESSIONAL will collect water level data from the wells identified as SBWM-1, SBWM-2, SBWM-3, and SBWM-4. PROFESSIONAL will also perform induction logging on each of these wells. These wells are commonly referred to as WATERMASTER's Sentinel Wells. Water level data collection and induction logging will be performed on each of these wells as described below and according to the schedule described below:

Induction Logging

Induction logging will be performed on each of the four Sentinel Wells annually in September.

Water Level

Water levels in each of the four Sentinel Wells will be continuously measured by data loggers and will be downloaded annually when induction logging is being performed.

PROFESSIONAL will transmit the digital water level data to the Monterey Peninsula Water Management District (MPWMD), Montgomery and Associates, and to the WATERMASTER promptly after the data is acquired, so that (1) MPWMD can use that data in preparing its reports to the WATERMASTER and (2) Montgomery and Associates and the WATERMASTER will be made promptly aware of the data. Digital induction data will also be provided to MPWMD, Montgomery and Associates, and to the WATERMASTER as soon as it becomes available to PROFESSIONAL. Digital induction data will also be reduced and presented graphically and provided to Montgomery and Associates for use by Montgomery and Associates in preparing reports for the WATERMASTER.

ATTACHMENT 2

Martin B. Feeney
Consulting Hydrogeologist

P.G. 4634
C.E.G. 1454
C.Hg 145

October 6, 2022

Seaside Basin Watermaster
PO Box 51502
Pacific Grove CA.
93950

Attention: Bob Jaques, PE

Subject: Sentinel Well Data Collection Program 2023 – Proposal for Hydrogeologic Services

Dear Bob:

Following up on our discussions, I'm pleased to provide this proposal to assist the Seaside Basin Watermaster (Watermaster) with data collection from the Sentinel Wells for the upcoming year. Presented in this proposal is an outline of the data collection plan and an estimate of associated costs.

Based on the previously collected data and the opinion of other qualified hydrogeologists, the data collection program for the Sentinel Wells will be reduced from semi-annual induction logging to annual. The data collection program will now include annual induction logging and continuous water level data collection. The program previously included depth-specific downhole water quality sampling, however, the data proved unreliable and this portion of the program was terminated. The subcontractor for the induction logging remains unchanged.

The components of this program are as follows:

Data collection from each well:

- Annual down-loading of water level data logger.
- Annual induction logging (September/October)
- Transmittal of water level data to Monterey Peninsula Water Management District personnel.
- Processing of induction log data and presentation

The well vaults that protect the Sentinel Wells continue to need maintenance to remain functional. This could include painting of the vault covers, repairing stripped threads for the bolts that hold down the covers, and general cleaning. Costs of these services are included in this proposal.

It is understood that, as in the past, the Monterey Peninsula Water Management District (District) will share some of the data collection and analysis tasks of the overall data collection program. The District will collect water level data from the array of data loggers on the all but the fall quarter. Water level data from the data loggers will be collected as part of this scope of services only when induction logging is performed. Collected water level data will be transmitted to the District for compilation and processing. Induction logging data will continue to be compiled and processed by this author.

Annual costs for the data collection program are estimated at \$ 11,013 inclusive of outside services. Cost is up from previous year due to an additional increase in the service charge and mileage for Pacific Surveys. Also the vaults are in bad shape and need maintenance. A breakdown of costs is presented in the table below.

P.O. Box 23240, Ventura, CA 93002 ♦ Phone: 831-915-1115 ♦ e-mail mfeeney@ix.netcom.com

ATTACHMENT 3

RIGHT OF ENTRY PERMIT	Agency: Department of Parks and Recreation Project: Fort Ord Dunes State Park – Monitoring Wells
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This Right of Entry Permit (Permit) is made and entered into this 1st day of August 2020, between the State of California, acting by and through its Department of Parks and Recreation, hereinafter called State, and Seaside Groundwater Basin Watermaster hereinafter called Permittee; State and Permittee may hereinafter be referred to as a Party, or collectively the Parties.

RECITALS

- **Whereas**, the State owns, operates and maintains the State Park known as Fort Ord Dunes State Park, in the County of Monterey, State of California; and
- **Whereas**, Permittee has applied to State for permission to access Fort Ord Dunes State Park for purposes of carrying out Permittee's Monitoring Wells project (the Project); and
- **Whereas**, the State desires to accommodate Permittee's application for permission to enter Fort Ord Dunes State Park for purposes of the Project.

TERMS AND CONDITIONS

Now therefore, the State by this Permit hereby grants to the Permittee permission to enter upon State's property, conditioned upon the agreement of the Parties that this Permit does not create or vest in Permittee any interest in the real property herein described or depicted, that the Permit is revocable and non-transferable, and that the Permit is further subject to the following terms and conditions:

1. **Project Description:** By this Permit, the State hereby grants to the Permittee permission to enter onto those lands depicted and/or described on **Exhibit A** (the Property), attached hereto and herein incorporated by this reference, solely for the purpose of monitoring four (4) wells twice yearly, and as described in the completed Project Evaluation Form, **Exhibit B**, attached hereto.
2. **Permit Subject to Laws and Regulatory Agency Permits:** This Permit is expressly conditioned upon Permittee's obtaining any and all regulatory permits or approvals required by the relevant regulatory agencies for the Project and Permittee's use of the Property, and upon Permittee's compliance with all applicable municipal, state and federal laws, rules and regulations, including all State Park regulations. Permittee shall, at Permittee's sole cost and expense, comply with the Project Description, and requirements and mitigations contained in the Environmental Document.

Prior to commencement of any work, Permittee shall obtain all such legally required permits or approvals and submit to the State full and complete copies of all permits and approvals, including documentation related to or referenced in such permits and approvals, along with the corresponding agency contact and telephone numbers, and related California Environmental Quality Act (CEQA) and/or National Environmental Policy Act (NEPA) documentation as applicable.
3. **Term of Permit:** This Permit shall only be for the period beginning on August 1, 2020, and ending on August 1, 2021, or as may be reasonably extended by written mutual agreement of the Parties.
4. **Consideration:** Fee waived.
5. **Permit Subject to Existing Claims:** This Permit is subject to existing contracts, permits, licenses, encumbrances and claims which may affect the Property.
6. **Waiver of Claims and Indemnity:** Permittee waives all claims against State, its officers, agents and/or employees, for loss, injury, death or damage caused by, arising out of, or in any way connected with the condition or use of the Property, the issuance, exercise, use or implementation of this Permit, and/or the rights herein granted. Permittee further agrees to protect, save, hold harmless, indemnify and defend State, its officers, agents and/or employees from any and all loss, damage, claims, demands, costs and liability which may be suffered or incurred by State, its officers, agents and/or employees from any cause whatsoever, arising out of, or in any way connected with this Permit, exercise by Permittee of the rights herein granted, Permittee's use of the Property and/or the Project for which this Permit is granted, except those arising out of the sole active negligence or willful misconduct of State. Permittee will further cause such indemnification

and waiver of claims in favor of State to be inserted in each contract that Permittee executes for the provision of services in connection with the Project for which this Permit is granted.

7. **Contractors:** Permittee shall incorporate the terms, conditions and requirements contained herein when contracting out all or any portion of the work permitted hereunder. Permittee shall be responsible for ensuring contractor/subcontractor compliance with the terms and conditions contained herein. Failure of Permittee's contractors to abide by State's terms and conditions shall constitute default by Permittee (see DEFAULT paragraph below) allowing State to terminate this Permit and seek all legal remedies.
8. **Insurance Requirements:** As a condition of this Permit and in connection with Permittee's indemnification and waiver of claims contained herein, Permittee shall maintain, and cause its contractors to maintain, a policy or policies of insurance as follows:

General Provisions Applying to All Policies

- A. **Coverage Term** – Coverage needs to be in force for the complete term of the contract. If insurance expires during the term of the contract, a new certificate must be received by the State at least ten (10) days prior to the expiration of this insurance. Any new insurance must still comply with the original terms of the contract.
- B. **Policy Cancellation or Termination & Notice of Non-Renewal** – Contractor is responsible to notify the State within five business days before the effective date of any cancellation, non-renewal, or material change that affects required insurance coverage. In the event Contractor fails to keep in effect at all times the specified insurance coverage, the State may, in addition to any other remedies it may have, terminate this Contract upon the occurrence of such event, subject to the provisions of this Contract.
- C. **Deductible** – Contractor is responsible for any deductible or self-insured retention contained within their insurance program.
- D. **Primary Clause** – Any required insurance contained in this contract shall be primary, and not excess or contributory, to any other insurance carried by the State.
- E. **Insurance Carrier Required Rating** – All insurance companies must carry a rating acceptable to the Office of Risk and Insurance Management. If the Contractor is self-insured for a portion or all of its insurance, review of financial information including a letter of credit may be required.
- F. **Endorsements** – Any required endorsements requested by the State must be physically attached to all requested certificates of insurance and not substituted by referring to such coverage on the certificate of insurance.
- G. **Inadequate Insurance** – Inadequate or lack of insurance does not negate the contractor obligations under the contract.
- H. **Satisfying an SIR** - All insurance required by this contract must allow the State to pay and/or act as the contractor's agent in satisfying any self-insured retention (SIR). The choice to pay and/or act as the contractor's agent in satisfying any SIR is at the State's discretion.
- I. **Available Coverages/Limits** - All coverage and limits available to the contractor shall also be available and applicable to the State.
- J. **Subcontractors** - In the case of Contractor utilization of subcontractors to complete the contracted scope of work, contractor shall include all subcontractors as insured's under Contractor and insurance or supply evidence of insurance to The State equal to policies, coverages and limits required of Contractor.

COMMERCIAL GENERAL LIABILITY:

Commercial General Liability Insurance covering bodily injury and property damage in a form and with coverage that are satisfactory to the State. This insurance shall include personal and advertising injury liability, products and completed operations, and liability assumed under an insured contract. Coverage shall be written on an occurrence basis in an amount of not less than \$1,000,000 per occurrence. Annual aggregate limit shall not be less than \$2,000,000. **The State of California, its officers, agents, and employees are to be covered as additional insureds with respect to liability arising out of work or operations.**

AUTOMOBILE LIABILITY INSURANCE:

Automobile Liability Insurance covering all owned, non-owned, and hired vehicles with a combined single limit of not less than \$1,000,000 for bodily injury and property damage. **The State of California, its officers, agents, and employees are to be covered as additional insureds with respect to liability arising out of work or operations.**

WORKERS COMPENSATION AND EMPLOYERS LIABILITY:

Workers' Compensation insurance as required by the State of California, with Statutory Limits, and Employer's Liability Insurance with limit of no less than \$1,000,000 per accident for bodily injury or disease. **The Workers' Compensation policy shall be endorsed with a waiver of subrogation in favor of the State of California.**

9. **Reservation of Rights:** State reserves the right to use the Property in any manner, provided such use does not unreasonably interfere with Permittee's rights herein.
10. **Access Limits and Conditions:** Access to the Property shall be limited to the access designated by State.
11. **Notice of Work:** Any required notices to State shall be sent to the State authorities in charge of Fort Ord Dunes State Park named below. At least forty-eight (48) hours prior to any entry upon the Property for any of the purposes hereinabove set forth, Permittee shall provide the State contact[s] named below with written notice of Permittee's intent to enter the Property. Permittee shall also notify the State contact[s] listed below in writing at least -eight (48) hours prior to any change in the Project schedule or cessation or completion of work. Should State personnel need to contact Permittee, State shall notify Permittee's contact person listed below:

STATE:
Contact: Brent C. Marshall, District Superintendent
District: Monterey District
Address: 2211 Garden Road
Monterey, CA 93940
Telephone: 831-649-2836

PERMITTEE'S CONTACT:
Contact: Seaside Groundwater Basin
Watermaster
Robert S. Jaques, email:
bobj83@comcast.net
Address: PO Box 51502 Pacific Grove, CA
93950
Telephone: 831-375-0517

12. **Limits of Work:** In no event shall this Permit authorize work in excess or contrary to the terms and conditions of any regulatory agency permit or approval. Under no circumstances, whether or not authorized by any regulatory agency, other permit or any person or entity other than State, shall work exceed that which is authorized by this Permit.
13. **Public Safety:** Permittee shall erect orange plastic temporary construction fencing and appropriate signage prior to commencement of work to prevent public access to the construction zone. Permittee shall remove such fencing within two (2) days after the completion of work. Permittee shall take, and shall cause its contractors or subcontractors to take, any and all necessary and reasonable steps to protect the public from harm in connection with the Project or implementation of this Permit.
14. **Compliance with Project Requirements:**

Permittee's activities conducted under this Permit shall comply with all State and Federal environmental laws, including, but not limited to, the Endangered Species Act, CEQA, and Section 5024 of the Public Resources Code.

Any of Permittee's archaeological consultants working within the boundaries of the Property shall submit a DPR 412A permit application to the District cultural resource specialist for approval prior to commencing any archaeological or cultural investigations of the Property.

Permittee shall immediately advise State's contact person if any new site conditions are found during the course of permitted work. State will advise Permittee if any new historical resources (including archaeological sites), special status species, threatened/endangered species protocols, or other resource issues are identified within the Project site. Permittee shall abide by District Superintendent or designee's instructions to protect the resource(s) during the permitted work or risk revocation of the Permit.

Permittee shall make all excavation activities on the Property available to the State archaeologist for observation and monitoring. During excavation, the State archaeological monitor may observe and report to the State on all excavation activities. State archaeological monitor shall be empowered to stop any construction activities as necessary to protect significant cultural resources from being disturbed.

In the event that previously unknown cultural resources, including, but not limited to, dark soil containing shell, bone, flaked stone, groundstone, or deposits of historic trash are encountered during Project construction by anyone, work will be suspended at that specific location, and the Permittee's work will be redirected to other tasks, until a State archaeologist or professionally qualified designee has evaluated the find and implemented appropriate treatment measures and disposition of artifacts, as appropriate, in compliance with all applicable laws and department resource directives.

If human remains are discovered during the Project, work will be immediately suspended at that specific location and the District Superintendent or designee shall be notified by Permittee. The specific protocol, guidelines and channels of communication outlined by the California Native American Heritage Commission (NAHC), and/or contained in Health and Safety Code Section 7050.5 and Public Resources Code Sections 5097.9 et seq., will be followed. Those statutes will guide the potential Native American involvement in the event of discovery of human remains.

If resource monitoring is required to be performed by State staff, the Permittee shall provide a written work schedule to the State at least 48 hours in advance of the work. Permittee shall provide reasonable advance notice of and invite the District Superintendent or designee to any preconstruction meetings with the prime contractor or subcontractors.

15. **Restoration of Property:** Permittee shall complete the restoration, repair, and revegetation of the Property in consultation with, and to the satisfaction of, the State Environmental Scientist within one (1) year after completion of the Project or the expiration or termination of this Permit, whichever comes first. This obligation shall survive the expiration or termination of this Permit.
16. **Performance Bond:** If required by State in order to ensure that Permittee performs and completes its obligations in accordance with the terms of the Permit, Permittee shall obtain a Performance Bond in the amount of _____ from a surety duly licensed in the State of California. Permittee shall provide State with a copy of such insurance bond.
17. **Right to Halt Work:** The State reserves the right to halt work and demand mitigation measures at any time, with or without prior notice to Permittee, in the event the State determines that any provision contained herein has been violated, or in the event that cessation of work is necessary to prevent, avoid, mitigate or remediate any threat to the health and safety of the public or state park personnel, or to the natural or cultural resources of the state park.
18. **Use Restrictions:** The use of the Property by Permittee, including its guests, invitees, employees, contractors and agents, shall be restricted to the daytime hours between sunrise and sunset on a day-by-day basis, unless otherwise approved in advance in writing by State. No person shall use or occupy the Property overnight.

Activities on the Property shall be conducted only in a manner which will not interfere with the orderly operation of the state park. Permittee shall not engage in any disorderly conduct and shall not maintain, possess, store or allow any contraband on the Property. Contraband includes, but is not limited to: any illegal alcoholic beverages, drugs, firearms, explosives and weapons.

Roads and trails where motorized vehicles are normally prohibited may be used for vehicle access by Permittee, its employees, agents or contractors for patrol, maintenance or repair purposes only, and only to the extent specified by State, and shall be otherwise subject to all other conditions and/or restrictions of this Permit and any applicable laws, state park regulations and state park policies.

Permittee shall not use or allow the Property to be used, either in whole or in part, for any purpose other than as set forth in this Permit, without the prior written consent of the State.

19. **State's Right to Enter:** At all times during the term of this Permit and any extension thereof, there shall be and is hereby expressly reserved to State and to any of its agencies, contractors, agents, employees, representatives, invitees or licensees, the right at any and all times, and any and all places, to temporarily enter upon said Property to survey, inspect, or perform any other lawful State purposes.

Permittee shall not interfere with State's right to enter.

20. **Protection of Property:** Permittee shall protect the Property, including all improvements and all natural and cultural features thereon, at all times at Permittee's sole cost and expense, and Permittee shall strictly adhere to the following restrictions:

- (a) Permittee shall not place or dump garbage, trash or refuse anywhere upon or within the Property, except in self-contained trash receptacles that are maintained to State's satisfaction by Permittee.
 - (b) Permittee shall not commit or create, or suffer to be committed or created, any waste, hazardous condition or nuisance in, on, under, above or adjacent to the Property.
 - (c) Permittee shall not cut, prune or remove any vegetation upon the Property, except as identified in the Project description and herein permitted or subsequently approved in writing by the District Superintendent.
 - (d) Permittee shall not disturb, move or remove any rocks or boulders upon the Property, except as identified in the Project description and herein permitted or subsequently approved in writing by the District Superintendent.
 - (e) Permittee shall not grade or regrade, or alter in any way, the ground surface of the Property, except as herein permitted, or subsequently approved in writing by the District Superintendent.
 - (f) Permittee shall not bait, poison, trap, hunt, pursue, catch, kill or engage in any other activity which results in the taking, maiming or injury of wildlife upon the Property, except as identified in the Project description and herein permitted or subsequently approved in writing by the District Superintendent.
 - (g) Permittee shall not use, create, store, possess or dispose of hazardous substances (as defined in the California Hazardous Substances Act) on the Property except as herein permitted, or subsequently approved in writing by the District Superintendent.
 - (h) Permittee shall exercise due diligence to protect the Property against damage or destruction by fire, vandalism and any other causes.
21. **Default:** In the event of a default or breach by Permittee of any of the terms or conditions set forth in this Permit, State may at any time thereafter, without limiting State in the exercise of any right of remedy at law or in equity which State may have by reason of such default or breach:
- (a) Maintain this Permit in full force and effect and recover the consideration, if any, and other monetary charges as they become due, without terminating Permittee's right to use of the Property, regardless of whether Permittee has abandoned the Property; or
 - (b) Immediately terminate this Permit upon giving written notice to Permittee, whereupon Permittee shall immediately surrender possession of the Property to State and remove all of Permittee's equipment and other personal property from the Property. In such event, State shall be entitled to recover from Permittee all damages incurred or suffered by State by reason of Permittee's default, including, but not limited to, the following:
 - (i) any amount necessary to compensate State for all the detriment proximately caused by Permittee's failure to perform its obligations under this Permit, including, but not limited to, compensation for the cost of restoration, repair and revegetation of the Property, which shall be done at State's sole discretion and compensation for the detriment which in the ordinary course of events would be likely to result from the default; plus
 - (ii) at State's election, such other amounts in addition to or in lieu of the foregoing as may be permitted from time to time by applicable law.
22. **State's Right to Cure Permittee's Default:** At any time after Permittee is in default or in material breach of this Permit, State may, but shall not be required to, cure such default or breach at Permittee's cost. If State at any time, by reason of such default or breach, pays any sum or does any act that requires the payment of any sum, the sum paid by State shall be due immediately from Permittee to State at the time the sum is paid. The sum due from Permittee to State shall bear the maximum interest allowed by California law from the date the sum was paid by State until the date on which Permittee reimburses State.
23. **Revocation of Permit:** The State shall have the absolute right to revoke this Permit for any reason upon ten (10) days written notice to Permittee. Written notice to Permittee may be accomplished by electronic or facsimile transmission, and the notice period set forth in this paragraph shall begin on the date of the electronic or facsimile transmission, or, if sent by mail, on the date of delivery. If Permittee is in breach of the Permit or owes money to the State pursuant to this Permit, any prepaid monies paid by Permittee to State shall be held and applied by the State

as an offset toward damages and/or amounts owed. Nothing stated herein shall limit the State's exercise of its legal and equitable remedies.

24. **Recovery of Legal Fees:** In any action brought to enforce or interpret any provisions of this Permit or to restrain the breach of any agreement contained herein, or for the recovery of possession of the Property, or to protect any rights given to the State against Permittee, and in any actions or proceedings under Title 11 of the United States Code, if the State shall prevail in such action on trial or appeal, the Permittee shall pay to the State such amount in attorney's fees in said action as the court shall determine to be reasonable, which shall be fixed by the court as part of the costs of said action.
25. **Voluntary Execution and Independence of Counsel:** By their respective signatures below, each Party hereto affirms that they have read and understood this Permit and have received independent counsel and advice from their attorneys with respect to the advisability of executing this Permit.
26. **Reliance on Investigations:** Permittee declares that it has made such investigation of the facts pertaining to this Permit, the Property and all the matters pertaining thereto as it deems necessary, and on that basis accepts the terms and conditions contained in this Permit. Permittee acknowledges that State has made, and makes, no representations or warranties as to the condition of the Property, and Permittee expressly agrees to accept the Property in its as-is condition for use as herein permitted.
27. **Entire Agreement:** The Parties further declare and represent that no inducement, promise or agreement not herein expressed has been made to them and this Permit contains the entire agreement of the Parties, and that the terms of this agreement are contractual and not a mere recital.
28. **Warranty of Authority:** The undersigned represents that they have the authority to, and do, bind the person or entity on whose behalf and for whom they are signing this Permit and the attendant documents provided for herein, and this Permit and said additional documents are, accordingly, binding on said person or entity.
29. **Assignment:** This Permit shall not be assigned, mortgaged, hypothecated, or transferred by Permittee, whether voluntarily or involuntarily or by operation of law, nor shall Permittee let, sublet or grant any license or permit with respect to the use and occupancy of the Property or any portion thereof, without the prior written consent of State.
30. **Choice of Law:** This Permit will be governed and construed by the laws of the State of California.

STATE OF CALIFORNIA
Department of Parks and Recreation

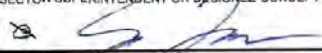

SEASIDE GROUNDWATER BASIN
WATERMASTER

By: Brent C. Marshall
Name: Brent C. Marshall
Title: District Superintendent

By: Robert S. Jaques
Name: Robert S. Jaques
Title:
Address: PO Box 51502 Pacific Grove, CA
93950
Phone: 831-375-0517



PROJECT EVALUATION (PEF)

PROJECT CONCEPT		
PROJECT TITLE Right of Entry Permit - Monitoring Wells		PARK UNIT NAME & NUMBER Fort Ord Dunes SP
DISTRICT NAME & NUMBER Monterey District 720		FACILITY NUMBER
PROJECT MANAGER & TITLE Stephen Bachman, Sr Park & Rec Spec	PHONE NUMBER 831-649-2862	EMAIL stephen.bachman@parks.ca.gov
DISTRICT PROJECT MANAGER & TITLE	PHONE NUMBER	EMAIL
PROJECT BID DATE n/a	CONSTRUCTION START DATE n/a	FUNDING SOURCE & PCA # n/a
PROJECT DESCRIPTION		
<p><i>Identify the scope of the project in detail, including its purpose, location, and potential impacts. If the ground is to be disturbed, describe the depth and extent of excavation. Describe the existing site conditions, including previous development. Note if work will impact or extend beyond park property. Indicate if work will be done in conjunction with, or as part of, other projects. (Use additional pages if necessary.)</i></p> <p>Issue Right of Entry Permit to the Seaside Groundwater Basin Watermaster for continued access to four (4) monitoring wells at Fort Ord Dunes State Park. Access is only for monitoring wells twice yearly. See attached map for wells locations.</p>		
SECTOR SUPERINTENDENT OR DESIGNEE CONCEPT APPROVAL		
SECTOR SUPERINTENDENT OR DESIGNEE CONCEPT APPROVAL 	TITLE SPS III	DATE 7/27/2020
DISTRICT SUPERINTENDENT OR DESIGNEE CONCEPT APPROVAL		
DISTRICT SUPERINTENDENT OR DESIGNEE CONCEPT APPROVAL 	TITLE	DATE

PROJECT EVALUATION (PEF)

DOCUMENTS ATTACHED

- 7.5 minute (quad) map of project area (**Required**)
- Site Map (**Required** - Scale should show relationship to existing buildings, roads, landscape features, etc.)
- Graphics (Specify - photos, diagrams, drawings, cross-sections, etc.)
- DPR 727 Accessibility Review & Comment Sheet (Note: Environmental Coordinator will send PEF to the Accessibility Section for review & comment)
- Sea-Level Rise Worksheet (for coastal park units)
- Other (Specify):

REGULATORY REQUIREMENTS

IS AN APPLICATION, PERMIT, OR CONSULTATION REQUIRED?

	YES	MAYBE	NO
PRC 5024 - Historical Review/Archaeological Review	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Native American Consultation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Coastal Development Permit	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
CDFW Stream Alteration Permit	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
State & Federal Endangered Species Consultation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
DPR Right to Enter or Temporary Use Permits	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
US Army Corps of Engineers 404 Permit	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Regional Water Quality Control Board (RWQCB) Permit	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
National Pollutant Discharge Elimination System Permit	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Stormwater Management Plan	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Encroachment Permit (Specify Agency):	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other (Specify):	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

DEPARTMENT POLICY COMPLIANCE

	YES	NO
HAS A GENERAL PLAN BEEN APPROVED FOR THE UNIT?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
if YES, is the project consistent with the GP?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
if NO, what is the project justification?		
Is it a temporary facility? (No permanent resource commitment)	<input type="checkbox"/>	<input type="checkbox"/>
Health and Safety project?	<input type="checkbox"/>	<input type="checkbox"/>
Is it a Resource Management Project?	<input type="checkbox"/>	<input type="checkbox"/>
Is it repairing, replacing, or rehabilitating an existing facility?	<input type="checkbox"/>	<input type="checkbox"/>
IS THE PROJECT WITH A CLASSIFIED SUBUNIT?		
Natural Preserve	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Cultural Preserve	<input type="checkbox"/>	<input checked="" type="checkbox"/>
State Wilderness	<input type="checkbox"/>	<input checked="" type="checkbox"/>
IS THE PROJECT CONSISTENT WITH THE DEPARTMENT'S CULTURAL RESOURCE MANAGEMENT DIRECTIVES? DOM CHAPTER 1600	<input checked="" type="checkbox"/>	<input type="checkbox"/>
IS THE PROJECT CONSISTENT WITH THE DEPARTMENT'S OPERATIONS MANUAL CHAPTER 0300, NATURAL RESOURCES?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

PROJECT EVALUATION (PEF)

RESOURCES			
<i>Explain all 'Yes' or 'Maybe' answers in the 'Evaluation and Comments' section (reference by letter and number). Attach additional pages, if necessary.</i>			
YES	MAYBE	NO	A. EARTH - WILL THE PROJECT:
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1. Create unstable soil or geologic conditions?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2. Adversely affect topographic features?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3. Adversely affect any unusual or significant geological features?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4. Increase wind or water erosion?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5. Adversely affect sand deposition or erosion of a sand beach?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	6. Expose people, property or facilities to geologic hazards or hazardous waste?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	7. Adversely affect any paleontological resource?
YES	MAYBE	NO	B. AIR - WILL THE PROJECT:
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1. Adversely affect general air quality or climatic patterns?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2. Introduce airborne pollutants that may affect plant or animal vigor or viability?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3. Increase levels of dust or smoke?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4. Adversely affect visibility?
YES	MAYBE	NO	C. WATER - WILL THE PROJECT:
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1. Change or adversely affect movement in marine or fresh waters?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2. Change or adversely affect drainage patterns or sediment transportation rates?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3. Adversely affect the quality or quantity of groundwater?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4. Adversely affect the quantity or quality of surface waters?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5. Expose people or property to flood waters?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	6. Adversely affect existing or potential aquatic habitat(s)?
YES	MAYBE	NO	D. PLANT LIFE - WILL THE PROJECT:
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1. Adversely affect any native plant community?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2. Adversely affect any unique, rare, endangered, or protected plant species?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3. Introduce a new species of plant to the area?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4. Adversely affect agricultural production?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5. Adversely affect the vigor of any tree?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	6. Encourage the growth or spread of exotic (non-native) species?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	7. Interfere with established fire management plans or practices?
YES	MAYBE	NO	E. ANIMAL LIFE - WILL THE PROJECT:
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1. Adversely affect any native or naturalized animal population?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2. Adversely affect any unusual, rare, endangered, or protected species?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3. Adversely affect any animal habitat?
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4. Introduce or encourage the proliferation of any non-native species?

PROJECT EVALUATION (PEF)

YES	MAYBE	NO	F. CULTURAL RESOURCES - WILL THE PROJECT:		
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1. Adversely affect a prehistoric or historic archaeological site or tribal cultural resource?		
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2. Adversely affect a prehistoric or historic building, structure or object?		
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3. Cause an adverse physical or aesthetic effect on an eligible or contributing building, structure, object, or cultural landscape?		
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4. Diminish the informational or research potential of a cultural resource?		
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5. Increase the potential for vandalism or looting?		
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	6. Disturb any human remains?		
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	7. Restrict access to a sacred site or inhibit the traditional religious practice of a Native American community?		
YES	MAYBE	NO	G. AESTHETIC RESOURCES - WILL THE PROJECT:		
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1. Adversely affect a scenic vista or view?		
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2. Significantly increase noise levels?		
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3. Adversely affect the quality of the scenic resources in the immediate area or park-wide?		
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4. Create a visually offensive site?		
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5. Be incompatible with the park design established for this unit or diminish the intended sense of "a special park quality" for the visitor?		
YES	MAYBE	NO	H. RECREATIONAL RESOURCES - WILL THE PROJECT:		
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. Be in a public use area?		
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2. Have an adverse effect on the quality of the intended visitor experience?		
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3. Have an adverse effect on the quality or quantity of existing or future recreational opportunities or facilities?		
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4. Have an adverse effect on the accessibility of recreational facilities (e.g. ADA requirements)?		
YES	MAYBE	NO	I. SEA-LEVEL RISE AND EXTREME EVENTS (COASTAL UNITS ONLY):		
<input type="checkbox"/>		<input checked="" type="checkbox"/>	1. Has this project been evaluated for potential impacts from sea-level rise, coastal storm surge, and other extreme events, using the Department's Sea-Level Rise and Extreme Events Guidance Document or an equivalent process? <i>Please attach the Sea-Level Worksheet or other detailed evaluation.</i>		
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2. Based on the evaluation described above, will the project be adversely impacted by frequent flooding or permanent inundation during its expected lifetime?		
<input type="checkbox"/>	Non-coastal unit				
EVALUATION AND COMMENTS					

PROJECT EVALUATION (PEF)

Project Title: Fort Ord Dunes SP – Well Monitoring ROE Permit

ENVIRONMENTAL SCIENTIST COMMENTS AND SIGNATURE (REQUIRED FOR ALL FINDINGS)

FINDINGS:

- No Impact
- Project Conditions necessary, see below
- Potential Significant Impact

EXPLANATION AND COMMENTS:

Vehicles must stay on established routes, minimize vegetation disturbance, and avoid protected species and their habitat.

SIGNATURE <i>Matthew Allen</i>	PRINTED NAME Matthew Allen
TITLE SENIOR ENVIRONMENTAL SCIENTIST	DATE 8/27/2020

PROJECT EVALUATION (PEF)

Project Title: Fort Ord Dunes SP – Well Monitoring ROE Permit

HISTORIAN COMMENTS AND SIGNATURE (REQUIRED FOR ALL FINDINGS)

FINDINGS:

- No PRC 5024 necessary (explain below)
- PRC 5024 attached, project approved as written
- PRC 5024 attached, conditions necessary
- PRC 5024 attached, mitigations and/or significant impacts

EXPLANATION AND COMMENTS:

No historical resources at the monitoring well sites. There will be no impacts to surrounding historical resources as a result of the project either.

SIGNATURE MATT BISCHOFF	PRINTED NAME MATT BISCHOFF
TITLE HISTORIAN III	DATE 7/28/20

PROJECT EVALUATION (PEF)


Project Title: Fort Ord Dunes SP – Well Monitoring ROE Permit

ARCHAEOLOGIST COMMENTS AND SIGNATURE (REQUIRED FOR ALL FINDINGS)

Findings:

- No PRC 5024 necessary (provide justification) PRC 5024 attached; project approved as written
 PRC 5024 attached, conditions necessary PRC 5024 attached; mitigations and/or potential significant impacts

Explanation/Comments: No archaeological resources are known or expected at the well sites or within path of travel to the well sites. No archaeological resources will be disturbed by well-monitoring

SIGNATURE 	PRINTED NAME RAE SCHWADERER
TITLE ASSOCIATE ARCHAEOLOGIST	DATE 8/04/2020

TRIBAL LIAISON COMMENTS AND SIGNATURE (REQUIRED FOR ALL FINDINGS)


- Reviewer is Designated District/Service Center/Division Tribal Liaison of Designee
 NAHC Listed Tribe(s) contacted (attach correspondence record for contact and findings) No tribes contacted.
 DN 2007-05 Tribal Consultation Only
 AB52 Consultation Initiated

FINDINGS:

Project action does not have potential to affect "tribal cultural" resources (explain). No tribal cultural resources will be affected by this ROE permit to monitor wells.

Check more than 1 box if tribes offering differing responses, and describe all consultation below.

- Tribe(s) did not respond.
 Tribe(s) approved project as written.
 Tribe(s) approved project with treatment or conditions.
 Tribe(s) and DPR unable to reach mutual agreement on treatment or conditions.

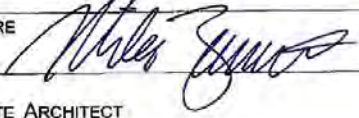
SIGNATURE 	PRINTED NAME RAE SCHWADERER
TITLE ASSOCIATE ARCHAEOLOGIST	DATE 8/04/2020

PROJECT EVALUATION (PEF)

Project Title: Fort Ord Dunes SP – Well Monitoring ROE Permit

COMMENTS:

I have no comments.

SIGNATURE 	PRINTED NAME MIKE ZUCCARO
TITLE ASSOCIATE ARCHITECT	DATE AUGUST 3, 2020

PROJECT EVALUATION (PEF)

ENVIRONMENTAL COORDINATOR REVIEW									
YES	MAYBE	NO	<u>CUMULATIVE IMPACTS</u>						
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1. Will the project be conducted in conjunction with or at the same time as other projects at the park?						
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2. Will the project be part of a series of inter-related projects?						
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3. Are there any other projects that must be completed for any part of this project to become operational?						
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4. Are there any other projects (including deferred maintenance) that have been completed or any probable future projects that could contribute to the cumulative impacts of this project?						
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	5. Are any of the projects that relate to work outside of the General Plan?						
COMMENTS:									
RECOMMENDATION:									
<input type="checkbox"/> Not a project for the purposes of CEQA compliance. <input type="checkbox"/> Project is covered activity under DOM 0600 (Figure F) that does not require Notice of Exemption. <input type="checkbox"/> Project is covered activity under previously prepared CEQA document; SCH # _____ <input checked="" type="checkbox"/> Project is exempt. Notice of exemption will be prepared. <input type="checkbox"/> A Negative Declaration should be prepared. <input type="checkbox"/> A Mitigated Negative Declaration should be prepared. <input type="checkbox"/> AB52 Consultation Initiated. See Tribal Liaison Section. <input type="checkbox"/> An EIR should be prepared.									
SIGNATURE			PRINTED NAME						
TITLE	DISTRICT ENVIRONMENTAL COORDINATOR		DATE						
			9/1/2020						
DISTRICT SUPERINTENDENT REVIEW									
<p><i>I acknowledge any constraints placed on the project as a result of the specialists' comments above and recommend the project proceed.</i></p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">DISTRICT SUPERINTENDENT APPROVAL SIGNATURE</td> <td style="width: 20%; border: none;">TITLE</td> <td style="width: 30%; border: none;">DATE</td> </tr> <tr> <td style="border: none;"></td> <td style="border: none;"></td> <td style="border: none;"></td> </tr> </table>				DISTRICT SUPERINTENDENT APPROVAL SIGNATURE	TITLE	DATE			
DISTRICT SUPERINTENDENT APPROVAL SIGNATURE	TITLE	DATE							

SEASIDE BASIN WATERMASTER
REQUEST FOR SERVICE

DATE: January 1, 2023

RFS NO. 2023-02
(To be filled in by WATERMASTER)

TO: Martin Feeney
Martin Blair Feeney
PROFESSIONAL

FROM: Robert Jaques
WATERMASTER

Services Needed and Purpose: Consultation and other hydrogeologic services. See Scope of Work in Attachment 1.

Completion Date: All work of this RFS shall be completed not later than December 31, 2023.

Method of Compensation: Time and Materials (As defined in Section V of Agreement.)

Total Price Authorized by this RFS: \$4,000.00 (Cost is authorized only when evidenced by signature below.) (See Attachment 1 for derivation of this Total Price).

Total Price may not be exceeded without prior written authorization by WATERMASTER in accordance with Section V. COMPENSATION.

Requested by: _____ **Date:** _____
WATERMASTER Technical Program Manager

Agreed to by: _____ **Date:** _____
PROFESSIONAL

ATTACHMENT 1

On an ongoing and as-requested basis, PROFESSIONAL will provide general hydrogeologic consulting services to WATERMASTER on a variety of topics. These may include, but not be limited to, interpretation of water level and water quality data, and seawater intrusion analysis issues.

Providing these services will likely involve attending certain of WATERMASTER's Technical Advisory Committee (TAC) and /or Board meetings, most of which will be attended telephonically or via Zoom.

Consulting services will be provided at the rate of \$200/hour. Related other direct costs (such as travel costs) will be billed at actual cost. Services under this RFS No. 2023-02 will only be provided when specifically requested by WATERMASTER.

The total cost authorized by this RFS No. 2023-02 is \$4,000.

SEASIDE BASIN WATERMASTER
REQUEST FOR SERVICE

DATE: January 1, 2023

RFS NO. 2023-01
(To be filled in by WATERMASTER)

TO: Gus Yates
Todd Groundwater
PROFESSIONAL

FROM: Robert Jaques
WATERMASTER

Services Needed and Purpose: See Scope of Work in Attachment 1.

Completion Date: All work of this RFS shall be completed not later than December 31, 2023.

Method of Compensation: Time and Materials (As defined in Section V of Agreement.)

Total Price Authorized by this RFS: \$ 4,000.00 (Cost is authorized only when evidenced by signature below.) (See Attachment 1 for Estimated Costs).

Total Price may not be exceeded without prior written authorization by WATERMASTER in accordance with Section V. COMPENSATION.

Requested by: _____ Date: _____
WATERMASTER Technical Program Manager

Agreed to by: _____ Date: _____
PROFESSIONAL

ATTACHMENT 1

Scope of Work

On an ongoing and as-requested basis PROFESSIONAL will provide hydrogeologic consulting services to WATERMASTER on groundwater modeling and related topics. These may include, but not be limited to, responding to questions regarding the Seaside Basin Model that HydroMetrics WRI and Montgomery & Associates has prepared for WATERMASTER, assisting in the interpretation of modeling results, and other related activities.

Providing these services may involve attending certain of WATERMASTER's Technical Advisory Committee (TAC) meetings, some of which may be attended telephonically or via Zoom.

Estimated Costs

Consulting services provided under this RFS No. 2023-01, including attending meetings either remotely or in-person as requested by WATERMASTER, will be billed at PROFESSIONAL's standard hourly rates for calendar year 2023, including all markups and other direct costs.

The total cost authorized by this RFS No. 2023-01 is \$4,000.00.

SEASIDE BASIN WATERMASTER
SCOPE OF WORK

Note: The work described in this Scope of Work (SOW) will be performed in accordance with the terms and conditions set forth in the Master Services Agreement for Groundwater Monitoring and Database Services (Agreement) executed between the Monterey Peninsula Water Management District (DISTRICT) and the Seaside Groundwater Basin Watermaster (WATERMASTER), with an effective date of January 1, 2022.

DATE: January 1, 2023

SOW NO. 2023-01

(To be filled in by WATERMASTER)

TO: Jonathan Lear
DISTRICT

FROM: Robert Jaques
WATERMASTER

Services Needed and Purpose:

Perform certain Tasks contained within the Watermaster’s Monitoring and Management Plan for 2023 (M&MP) (See detailed Scope of Work in Attachment 1).

Schedule:

The work of this SOW No. 2023-01 shall be completed in accordance with the column titled “Schedule” in Table 1 of Attachment 1.

Method of Compensation:

Time and Material Payment Method (As defined in Section 6 of the Agreement).

Total Price Authorized by this SOW:

\$ 64,297.00 (See Attachment 1 for a Breakdown of this Total Price. Cost is authorized only when evidenced by signature below.)

Total Price may not be exceeded without prior written authorization by WATERMASTER in accordance with Section 6 of the Agreement (Payment of Services).

Requested by: _____ **Date:** _____
WATERMASTER

Agreed to by: _____ **Date:** _____
DISTRICT

ATTACHMENT 1

Detailed Scope of Work for SOW No. 2023-01

Background:

This SOW No. 2023-01 authorizes DISTRICT to perform certain work on certain of the Tasks described in the WATERMASTER's 2023 M&MP. The Task numbers listed in the first column of Table 1 below correspond to the Task numbers in the 2023 M&MP. The Task numbers listed in the second column of Table 1 correspond to DISTRICT's task numbering system.

The wells from which water level and water quality data are to be obtained are listed below in Table 2.

Table 1. Scope of Work and Costs							
WATERMASTER M&MP Task No.	DISTRICT Task No.	Description	Time	Rate	Cost	Comments	Schedule
I.2.b.2	1	<u>Collect Monthly Water Levels</u>					
		Collect Monthly Water levels at 20 wells	96	113	\$10,848		Ongoing
I.2.b.2	2	<u>Collect Quarterly Water Levels</u>					
		Collect Quarterly Water levels at 8 wells	32	113	\$3,616		Ongoing
I.2.b.3	3	<u>Collect Quarterly Water Quality Samples</u>					
		Collect 7 Water Quality Samples Quarterly (28 total Samples)	48	113	\$5,424		Ongoing
		Order bottles and COC to Laboratory	4	113	\$452		
I.2.b.3	4	<u>Collect Annual Water Quality Samples</u>					
		Collect 12 Water Quality Samples Annually	16	113	\$1,808		Ongoing
		Order bottles and COC to Laboratory	1.5	113	\$170		
		RMA/Procure Replacement pump and Deploy (replaces one pump)	8	113	\$904	Only if necessary	
I.2.a.1	5	<u>Enter Water Level Data QA/QC</u>					
		Enter Qa/QC 272 Water Level Measurements Collected by MPWMD	20	170	\$3,400		Ongoing
		Enter Qa/QC 264 Water Level Measurements Reported to Watermaster	20	170	\$3,400		Ongoing
I.2.a.1	6	<u>Enter Water Quality Data QA/QC</u>					
		Enter Qa/QC 40 Water Quality Samples Collected by MPWMD	40	170	\$6,800		Ongoing
		Enter Qa/QC 12 Water Quality Samples Reported to Watermaster	16	170	\$2,720		Ongoing
I.2.b.7	7	<u>Upload Water Level Data to CASGEM</u>					
		Upload 536 Water Level Measurements to DWR Database	24	170	\$4,080		Ongoing
I.2.b.6	8	<u>Provide Data Tabulation for SIAR Appendix</u>					
		Tabulate and Transfer Water Level and Quality Data to Watermaster Consultant	16	223	\$3,568		November-23
N/A	9	<u>Respond to Data Requests</u>					
		Produce Data Requests as Necessary	10	223	\$2,230	Only if necessary	
I.2.b.2	10	<u>Annual Data Logger Downloads and Data Transfer</u>					
		Download Loggers Field Work	24	113	\$2,712		
		Transfer data	4	223	\$892		October-23
		Exchange logger if not working RMS process (replaces one logger)	4	113	\$452	Only if necessary	
		Answer questions re transferred logs	2	223	\$446	Only if necessary	
		Program and Deploy New Data Logger	2	113	\$226	Only if necessary	
I.2.b.3	11	<u>Water Quality Sample for Camp Huffman</u>					
		Air lift samples from Camp Huffman Deep and Shallow	6	113	\$678		
		Air lift samples from Camp Huffman Deep and Shallow	6	223	\$1,338		
N/A	N/A	<u>Administrative Staff</u>					
		Create Billings and Cut Checks to Water Quality Laboratory	8	89	\$712		Ongoing

Table 1. Summary						
WATERMASTER M&MP Task No.	DISTRICT Task No.	Item	Quantity	Rate	Subtotal	
		Labor (Hours)	407.5		\$56,876	
I.2.b.2 and I.2.b.3	1, 2, 3, 4, and 10	Estimated Fleet Support (Mileage)	850	0.59	\$502	
I.2.b.3	3 and 4	Watermaster Standard Panel Laboratory Analysis (Number of Analyses)	40	135	\$5,400	
		Air Compressor Rental (Camp Huffman)	1	150	\$150	
I.2.b.3	3 and 4	Fuel (CO2 Bottle) to run sample pump	10	25	\$250	
I.2.b.3	3 and 4	Replacement Low Flow Pump	1	900	\$900	Only if necessary
I.2.b.2	1, 2, and 10	Replacement Data Logger	1	850	\$850	Only if necessary
		TOTAL			\$64,927	

If necessary total = \$6,008

Note: Fleet Support, Laboratory Fees, Co2 Bottle Exchange, Data Loggers, and Sample Pumps are estimated costs. Direct costs incurred by District will be passed through to the Watermaster according to Time and Expense method

Table 2. Wells to be Monitored

Monthly Water Levels

- 1 MSC - Shallow
- 2 MSC - Deep
- 3 FO 10 (S)
- 4 FO 10 (D)
- 5 CDM MW-1
- 6 CDM MW-2
- 7 CDM MW-3
- 8 CDM MW-4
- 9 Plumas 1990 Test
- 10 K-Mart
- 11 MW-BW-08A
- 12 MW-BW-09
- 13 Sand City Public Works
- 14 CAW Granite Construction
- 15 Cypress Pacific
- 16 Sand City - Design Center
- 17 DBO - Target
- 18 MMP - MM Production
- 19 PCA West (S)
- 20 PCA West (D)

Quarterly Water Levels

- 1 SBWM MW-1
- 2 SBWM MW-2
- 3 SBWM MW-3
- 4 SBWM MW-4
- 5 Camp Huffman (S)
- 6 Camp Huffman (D)
- 7 Shea
- 8 Laguna Seca Driving Range

Quarterly Water Quality Sampling

- 1 PCA W (S)
- 2 PCA W (D)
- 3 MSC (S)
- 4 MSC (D)
- 5 FO 09 (D)
- 6 FO 10 (S)

Annual Water Quality Sampling

- 1 PCA E (S)
- 2 PCA E (D)
- 3 Ord Terrace (S)
- 4 FO 10 (D)
- 5 CAW Del Monte Observation
- 6 Sand City Public Works
- 7 Laguna Seca County Park #2
- 8 York School
- 9 Laguna Seca Golf New #12
- 10 Pasadera Main Gate
- 11 Cypress Pacific
- 12 MMP - MM Production
- 13 Camp Huffman (S and D) (Every 5 years starting in 2023)

Water Level Data Reported to Watermaster

- 1 SNG
- 2 LSCP
- 3 Nicolas
- 4 City of Seaside
- 5 Cal Am

SEASIDE BASIN WATERMASTER
REQUEST FOR SERVICE

DATE: January 1, 2024

RFS NO. 2024-01

TO: Joseph Hughes
Klein, DeNatale, Goldner, Cooper,
Rosenlieb & Kimball, LLP
PROFESSIONAL

FROM: Laura Paxton
Administrative Officer
WATERMASTER

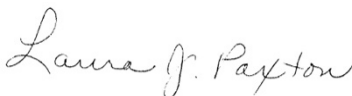
Services Needed and Purpose: Provide legal services to assist as may be requested by Watermaster.

Completion Date: All work under this RFS will be completed no later than December 31, 2024.

Method of Compensation: Time and Expense Payment Method. Hourly rates are described in Attachment 1.

Total Price Authorized by this RFS: \$25,000.00 (Cost is authorized only when evidenced by signature below.)
(See Attachment 1 for derivation of Estimated Costs).

Total Price may not be exceeded without prior written authorization by WATERMASTER in accordance with Section V. COMPENSATION.

Requested by: 
Laura Paxton, Administrative Officer

Date: January 1, 2024

Authorized by: _____
Ian Oglesby
WATERMASTER Chairman of the Board

Date: _____

Agreed to by: _____
Joseph Hughes
PROFESSIONAL

Date: _____

ATTACHMENT 1

SCOPE OF WORK AND ESTIMATED COSTS

BACKGROUND

Under RFS No. 2024-01, PROFESSIONAL will render opinions on adjudicated basin related legal matters, interact with the judge presiding in the matter, attend meetings, review documents, determine appropriate response by Watermaster to Public Records Act requests, and other work as necessary to assist WATERMASTER. Requests for assistance will normally be made by email or by telephone by WATERMASTER staff.

ESTIMATED COSTS

\$375 for attorneys with ten or more years' experience
\$345 for attorneys with more than five years' experience
\$300 for attorneys with less than five years' experience.

Work examples: time spent preparing documents, legal research, negotiations, conferences, telephone calls, emails, travel time and any time in court or before any government agency.

Since there is no detailed scope of work for this RFS, it is not possible to provide a detailed breakdown of estimated costs. It is estimated that PROFESSIONAL may provide up to 66 hours of time assisting WATERMASTER with the work to be performed under this RFS. At PROFESSIONAL's hourly rate of \$375, this would amount to \$25,000. This serves as the basis for the Total Price set forth on page 1 of this RFS No. 2024-01.

SEASIDE GROUNDWATER BASIN WATERMASTER

TO: Board of Directors
FROM: Laura Paxton, Administrative Officer
DATE: January 3, 2024
SUBJECT: Watermaster Water Year 2024 Declaration of **NO** Replenishment Water Available
PURPOSE: To notify all Seaside Groundwater Basin producers that the Watermaster has declared for Water Year 2024 that **NO** Artificial Replenishment Water is available to offset Over-Production in excess of Basin Operating Yield

RECOMMENDATION:

Consider approving Water Year 2024 Declaration of No Artificial Replenishment Water Available.

DISCUSSION:

The Court has declared in Section III L 3 j iii of the adjudication Decision that in the event Watermaster cannot procure Artificial Replenishment Water to offset Operating Yield Over-Production during the ensuing Water Year that the Watermaster Board shall so declare in December that no Operating Yield Over-Production then in effect may occur during the ensuing Water Year.

Watermaster has determined that there is no foreseeable replenishment water available for Water Year 2024. As ordered by the Court at the January 12, 2007 hearing, commencing with the fourth Water Year, and triennially thereafter the Operating Yield for both Subareas will be decreased by ten percent (10%) until the Operating Yield is equivalent of the Natural Safe Yield. A sixth and final full triennial 10% reduction in Operating Yield went into effect Water Year 2021. Beginning with Water Year 2022 Operating Yield is equivalent of the Natural Safe Yield. *Note: "Free" and "Not-free" carryover was a function of ramp down in production; now that ramp down is complete and NSY = Operating Yield, carryover is no longer divided into "Free and Not-free" (NSY and Operating Yield) carryover.*

The 2020 (most current) Declaration of Useable Storage Space in the Basin is attached listing Standard Producer Allocations of Storage Space, revised to account for storage space recalculated in the updated Basin Management Action Plan finalized in 2019. (The Court declared in Section III F of the adjudication Decision that Carryover of a Standard Producer's unproduced allocation is limited to the total amount of the Standard Producer's Storage Allocation, and that in no circumstance may the sum of a Producer's Storage Credits and Carryover Credits exceed the Producer's available Storage Allocation.) Only Standard Producers are allocated storage space.

If replenishment water becomes available in Water Year 2024, a revised Declaration will be issued.

ATTACHMENTS

- 1) 2024 Declaration of Unavailability of Replenishment Water with production limits
- 2) 2020 Declaration of Useable Storage Space in the Basin

NOTICE TO ALL SEASIDE GROUNDWATER PRODUCERS:

Case No. M66343 Amended Decision Section III.B.2.

Commencing with the fourth Water Year, and triennially thereafter, the Operating Yield for both Subareas will be decreased by ten percent (10%) until Operating Yield is the equivalent of the Natural Safe Yield unless:

- a. The Watermaster has secured and is adding an equivalent amount of Non-Native water to the Basin on an annual basis; or*
- b. The Watermaster has secured reclaimed water in an equivalent amount and has contracted with one or more of the Producers to utilize said water in lieu of their Production Allocation, with the Producer agreeing to forego their right to claim a Stored Water Credit for such forbearance; or*
- c. Any combination of a and b above which results in the decrease in Production of Native Water required by this Decision; or*
- d. The Watermaster has determined that Groundwater levels within the Santa Margarita and Paso Robles aquifers are at sufficient levels to ensure a positive offshore gradient to prevent seawater intrusion.*

The Watermaster has determined that the conditions necessary to avoid the ten percent Operating Yield reduction have not been met as follows:

1. Watermaster has not secured water for adding an equivalent amount of Non-Native water to the Basin on an annual basis.
2. The Watermaster has not secured reclaimed water in an equivalent amount.
3. The Watermaster has not secured Non-Native water or reclaimed water that results in the decrease in Production of Native Water required by the Decision.
4. The firm contracted by Watermaster for technical analyses continued to report in 2019 that Groundwater levels within the Santa Margarita and Paso Robles aquifers are not at sufficient levels to ensure a positive offshore gradient to prevent seawater intrusion, so the requirement for this item continues to not be met.

Section III.L.3.j.iii: Watermaster declares that for Water Year 2024 Artificial Replenishment Water is not available to offset Operating Yield Over-Production and producers are limited in production to the following quantities of water ⁽¹⁾:

Coastal Subarea Alternative Producers:

Seaside (Golf)	540.00 acre-feet
SNG.....	90.00 acre-feet
Mountain Lake Development Corp	59.00 acre-feet
Cypress (Calabrese)	6.00 acre-feet
Mission Memorial (Alderwood)	31.00 acre-feet
Sand City	9.00 acre-feet

Laguna Seca Subarea Alternative Producers:

The Club at Pasadera	251.00 acre-feet
Bishop	320.00 acre-feet
York School	32.00 acre-feet
Laguna Seca County Park	41.00 acre-feet

Coastal Subarea Standard Producers:

California American Water.....	2,225.46 acre-feet*
Seaside (Municipal).....	151.43 acre-feet**
Granite Rock	278.84 acre-feet***
D.B.O. Development 30	497.85 acre-feet****
Cypress (Calabrese).....	17.63 acre-feet*****

Laguna Seca Subarea Standard Producers:

California American Water.....	0.0 acre-feet
--------------------------------	---------------

(1) "Free" and "Not-free" carryover was a function of ramp down in production; now that ramp down is complete and NSY = Operating Yield, carryover is no longer divided into "Free and Not-free" (NSY and Operating Yield) carryover.

* Total is the 2024 base allocation of 1,466.03 acre-feet, plus transferred credits of 3.17 & 2.31 acre-feet plus 753.95 of carryover. California American Water has a positive balance of 2,559.35 acre-feet of stored water credit at WY-end 2023 from Basin injections exceeding extractions since WY 2010 under the CAW/MPWMD ASR Program, formalized through a Storage Agreement in 2012; and under the CAW/M1W Pure Water Monterey Program formalized through a storage agreement in 2019.

** Total is the 2024 base allocation of 120.28 acre-feet plus 31.15 of carryover.

*** Total is the 2024 base allocation of 11.35 acre-feet plus 267.49 acre-feet of carryover credit from previous water years.

**** Total is the 2024 base allocation of 20.59 acre-feet plus 479.57 acre-feet of carryover credit from previous water years, minus 2.31 in transferred water rights.

***** Total is the 2024 base allocation of 2.76 acre-feet plus 18.04 acre-feet of carryover credit from previous water years, minus 3.17 acre-feet in transferred water rights.

NOTICE TO ALL SEASIDE GROUNDWATER PRODUCERS

Pursuant to Section III.3.L.3.j.xix of the Amended Decision Filed February 2, 2007 in the Superior Court of the State of California, in and for the County of Monterey, Case No. M66343 (the “Decision”), the Seaside Basin Watermaster hereby Declares that the Total Usable Storage Space in the Seaside Groundwater Basin (“Basin”) is as follows:

Total Usable Storage Space in the Coastal and Northern Inland Subareas is 75,610 acre-feet.

Total Usable Storage Space in the Laguna Seca Subarea is 28,560 acre-feet.

Total Usable Storage Space in the entire Seaside Groundwater Basin is 104,170 acre-feet.

Pursuant to Section III.B.3.b of the Decision, Alternative Producers do not receive a storage allocation, only Standard Producers receive such an allocation. Pursuant to Section III.H.2 of the Decision, the Seaside Basin Watermaster further Declares that the Total Usable Storage Space in the Basin shall be allocated to the Standard Producers, who are identified in the Decision, as follows:

	Current Allocation (Using Table 1 of the Decision)		
Producer	Operating Yield Allocation Percentage (1)	Usable Storage Allocation Percentage (2)	Useable Storage Allocation Acre-Foot
Coastal and Northern Inland Subareas			
California American Water (3)	77.55%	90.44%	68,382
City of Seaside (Municipal)	6.36%	7.42%	5,610
Granite Rock Company	0.60%	0.70%	529
DBO Development No. 27	1.09%	1.27%	960
Calabrese (Cypress Pacific Investors LLC)	0.15%	0.17%	129
SUBAREAS TOTAL	85.75%	100.00%	75,610
Laguna Seca Subarea			
California American Water (3)	45.13%	100.00%	28,560
SUBAREA TOTAL	45.13%	100%	28,560
BASIN TOTAL		100%	104,170

Footnotes:

- (1) From Table 1 on page 19 of the Decision.
- (2) Calculated as each Standard Producer’s percentage of the total Standard Producers’ operating yield allocation percentages within each subarea.
- (3) CAW’s Usable Storage Allocation is subject to the provisions and requirements of Section III.H.3 of the Decision.

Pursuant to Section III.H.6 of the Decision, no Producer may store water in the Basin without first executing with the Watermaster a Storage and Recovery Agreement. Nov 2, 2019

SEASIDE GROUNDWATER BASIN
WATERMASTER

TO: Board of Directors
FROM: Robert S. Jaques, Technical Program Manager
DATE: January 3, 2024
SUBJECT: Consider Approving the Seawater Intrusion Analysis Report for 2023

RECOMMENDATIONS:

It is recommended that the Board approve the Seawater Intrusion Analysis Report for WY 2023.

BACKGROUND:

Montgomery & Associates has prepared the Seawater Intrusion Analysis Report (SIAR) for Water Year 2023. The SIAR examines the “health” of the Basin with regard to whether or not there are any indications that seawater intrusion is either occurring or is imminent.

At its December 13, 2023 meeting the TAC reviewed a Draft version of the 2023 SIAR, found it to be satisfactory as-is, and did not recommend making any changes to it. The Draft document thus became the Final version. The TAC recommended that it be sent to the Board with the TAC’s recommendation for approval. The Executive Summary from the WY 2023 SIAR is attached. The complete SIAR is lengthy, so rather than including it in this agenda packet it has been posted on the Watermaster’s website so Board members and members of the public wishing to review the entire document can do so.

DISCUSSION

Previous SIARs have stated that depressed groundwater levels, continued pumping in excess of recharge and freshwater inflows, and ongoing seawater intrusion in the nearby Salinas Valley all suggest that seawater intrusion could occur in the Seaside Groundwater Basin. In spite of these factors, the previous SIARs stated that neither the Piper nor the Stiff Diagrams nor any of the other parameters indicated the presence of seawater intrusion in the existing monitoring wells. The 2023 SIAR reports that the evaluation of the data from the sampling and monitoring program continues to indicate that seawater intrusion is not occurring.

The 2023 SIAR discusses some small variations in this year’s Seaside Basin Watermaster Monitoring Well (SBWM) induction logging results compared to prior years. These are the wells referred to as the “Sentinel Wells” because they are located close to the coastline. While the induction logs of the Sentinel Wells have remained essentially stable over the historical period of record, I felt that the data might be starting to show a gradual increase in conductivity in certain of the Sentinel Wells at certain depths in the Paso Robles formation. If so, this could be an early sign that seawater was beginning to creep into that formation.

I asked Montgomery & Associates (M&A) to convene a Zoom meeting of our hydrogeologic experts to discuss the findings of the induction logging and provide their thoughts and recommendations. Present at the meeting, which was held on November 27, 2023, were Georgina King (M&A), Patrick Wickham (M&A), Martin Feeney, Michael Ridder (Pacific Surveys – the induction logging contractor), Gus Yates (Todd Groundwater), and Cory Steinmetz (MPWMD).

These consultants agreed that conductivity in SBWM-1, 2 and 4 appears to be increasing over time in defined zones in the Paso Robles. However, they noted that the small conductivity increases translate to no more than a 100 mg/L increase in Total Dissolved Solids, whereas the drinking water limit is 500 mg/L.

Given the collective conclusion of our experts that no action is required at this time due to the small conductivity increases, it appears the only action needed will be to continue to monitor this apparent trend as future induction logging is performed to try to ascertain whether or not it is significant.

FISCAL IMPACTS:

None.

ATTACHMENTS:

Executive Summary of the WY 2023 Seawater Intrusion Analysis Report

For those who wish to review the complete SIAR it is posted on the Watermaster's website at:

<https://www.seasidebasinwatermaster.org/Other/2023%20Seawater%20Intrusion%20Analysis%20Final%20Report%20Body%20A%2012-23-23.pdf>

The SIAR appendices are posted at:

<https://www.seasidebasinwatermaster.org/Other/2023%20Seawater%20Intrusion%20Analysis%20Final%20Report%20Appendices%2012-23-23.pdf>

EXECUTIVE SUMMARY

This report fulfills part of the annual reporting requirements contained in the Seaside Groundwater Basin Adjudication (California American Water v. City of Seaside, Monterey County Superior Court, Case Number M66343). The annual report addresses the potential for, and extent of, seawater intrusion in the Seaside Groundwater Basin (Basin).

Seawater intrusion may occur under basic hydrogeologic conditions as a wedge beneath fresh groundwater or in more complex hydrogeology with various intrusion interfaces among the different aquifers. Continued pumping in excess of recharge and freshwater inflows, coastal groundwater levels well below sea level, and ongoing seawater intrusion in the nearby Salinas Valley all suggest that seawater intrusion could occur in the Basin.

Seawater intrusion is typically identified through regular chemical analyses of groundwater which can identify geochemical changes in response to seawater intrusion. No single analysis definitively identifies seawater intrusion, however by examining various analyses it is possible to determine when fresh groundwater mixes with seawater. At low chloride concentrations, it is often difficult to identify incipient seawater intrusion. This is due to the natural variation in freshwater chemistry at chloride concentrations below 1,000 milligrams per liter (mg/L). Mixing trends between groundwater and seawater are more easily defined when chloride concentrations exceed 1,000 mg/L. Common geochemical indicators of seawater intrusion are cation and anion ratios, chloride trends, sodium/chloride ratios, and electric induction logging.

Data collected in Water Year (WY) 2023 from monitoring and production wells do not indicate that seawater intrusion is occurring within the Basin. However, induction logging has revealed small incremental increases in conductivity over time in Sentinel wells SBWM-1, 2, and 4 within the Paso Robles Formation that may be a precursor to seawater intrusion. With SBWM-1 and SBWM-2 located north of the Basin, the focus is on SBWM-4 which has the greater conductivity changes of the 3 wells and is in the Northern Coastal subarea where most of the Basin's groundwater extraction occurs. A zone of increasing conductivity in SBWM-4 is found between 140 to 200 feet below ground surface (bgs) within a coarser-grained unit of the Paso Robles Formation. Because the conductivity changes are relatively small, roughly equating to a total dissolved solids concentration of 100-200 mg/L, and the zone of increasing conductivity is confined to a specific zone in the Paso Robles Formation, no immediate action is warranted.

Since WY 2020, chloride concentrations in FO-10 Shallow, located outside and to the north of the Basin, have been elevated above historical concentrations. Five of the last 7 samples have a sodium/chloride molar ratio below 0.86, which may suggest a seawater chloride source. Of the 4 samples collected from the Shallow well in WY 2023, the first 2 were above 90 mg/L, while

the May and August 2023 samples were just below 90 mg/L. Induction logging of FO-10 Deep in 2021 was inconclusive regarding the presence of seawater intrusion in the well. It was complicated by the presence of a 1,300-foot steel pipe that has been left in the borehole since the well's construction and which is believed to be acting as a conduit across the borehole. Evidence of hydraulic connection between FO-10 Shallow and Deep wells is that the 2 wells have shown extremely similar groundwater elevations over the past 4 years. However, in WY 2023, FO-10 Deep had a 68.4 mg/L chloride decrease bringing concentrations down to those last seen 3 years ago. Regardless, the presence of this steel pipe clouds interpretation of groundwater quality results and may act as a conduit for groundwater in overlying sediments to enter underlying aquifers.

Groundwater levels below sea level, the cumulative effect of pumping in excess of recharge and freshwater inflows, and ongoing seawater intrusion in the nearby Salinas Valley all suggest that seawater intrusion has the potential to occur in the Seaside Groundwater Basin.

Based on the findings of this report, the following ongoing detrimental groundwater conditions pose a direct threat of seawater intrusion:

- Both the Paso Robles and Santa Margarita aquifers in the Seaside Groundwater Basin are susceptible to seawater intrusion. The Paso Robles aquifer is in direct hydrogeologic connection with Monterey Bay, and seawater will eventually flow into it if inland groundwater levels continue to be below sea level. The Santa Margarita aquifer may not be in direct connection with Monterey Bay. If that is the case, then seawater intrusion will take longer as seawater in the Paso Robles aquifer would need to move downward through the clay rich deposits overlying the Santa Margarita aquifer before entering the aquifer itself and making its way into Santa Margarita production wells. It is not if, but when, seawater intrusion into these aquifers will occur if protective water elevations are not achieved.
- Over a number of years conductivity data from induction logging of Sentinel Wells 1, 2, and 4 have shown small but steady increases in conductivity within defined coarser-grained zones within the Paso Robles Formation. The estimated total dissolved solids (TDS) increase associated with the change in conductivity since 2019 is approximately 100 mg/L – 200 mg/L. The Secondary Drinking Water limit is 500 mg/L.
- Groundwater levels in some portions of both the Paso Robles and Santa Margarita aquifers in the Northern Coastal subarea continue to be below sea level year-round. WY 2023 fourth quarter (summer/fall) groundwater levels in the Santa Margarita aquifer are approximately 40 feet below sea level. However, pumping depressions in both the Paso Robles and Santa Margarita aquifers are slightly smaller than the previous year.

- Groundwater levels remain below protective elevations in all 3 Santa Margarita aquifer protective elevation monitoring wells (MSC deep, PCA-W Deep, and sentinel well SBWM-3), and 1 of the 3 Paso Robles protective elevation monitoring wells (MSC Shallow). All 3 Santa Margarita monitoring well groundwater elevations recovered slightly in WY 2023 since being the lowest in their historical record the previous year. Other than PCA-W Shallow, the shallow aquifer protective elevation monitoring wells have all consistently been below protective elevations over the period of record. Elevations at PCA-W Shallow were above protective elevations from the late 1990s through 2020 but have since dropped below, though they recovered close to the protective elevation briefly in WY 2023.

The following evidence from this report demonstrates that seawater intrusion has not been detected in monitoring and production wells from which water quality samples are collected:

- Most groundwater samples for WY 2023 from depth-discreet monitoring wells generally plot in a single cluster on Piper diagrams, with no water chemistry changes toward seawater.
- In some production wells, groundwater quality plots on Piper diagrams are different than groundwater quality in monitoring wells. This may be a result of mixed water quality because these wells are perforated in both the Paso Robles and Santa Margarita aquifers. None of the production wells' groundwater qualities are indicative of seawater intrusion.
- None of the Stiff diagrams for monitoring and production wells show the characteristic chloride spike that typically indicates seawater intrusion in Stiff diagrams. The Stiff diagrams for monitoring well FO-10 Shallow show a slightly different shape than other shallow wells because of increased chloride. The stiff diagram for FO-10 Deep, which showed a spike of increased chloride in WY 2022, returned to a shape consistent with its historical shape.
- Chloride concentration trends are stable for most monitoring wells, except FO-10 Shallow and FO-10 Deep. FO-10 Shallow experienced a 13.8 mg/L decrease in chloride concentrations in WY 2023. FO-10 Deep experienced a 68.4 mg/L chloride decrease in WY 2023. The reason for this is not apparent.
- Maps of chloride concentrations for the shallow aquifer do not show chlorides increasing toward the coast. Santa Margarita aquifer chloride concentration maps show that the highest chloride concentrations are limited to coastal monitoring wells PCA-West Deep and MSC Deep, but these are not indicative of seawater intrusion since their concentrations are less than 155 mg/L and they do not have increasing trends.

Other important findings from the analysis contained in this report include the following:

- Due to its distance from the coast, seawater intrusion is not an issue of concern in the Laguna Seca subarea. However, groundwater levels in the eastern Laguna Seca subarea have historically declined at rates of 0.6 feet per year in the shallow aquifers, and up to 4 feet per year in the deep aquifers. These declines have occurred since 2001 despite triennial reductions in allowable pumping and CAWC ceasing pumping its Ryan Ranch and Bishop wells. The cause of the declines is due to the subarea's limited groundwater inflows and natural recharge compounded by the influence of wells pumping east of the Basin. Since WY 2021, groundwater elevations in the area have appeared to experience some stabilization and recovery, potentially correlated with a cessation of pumping at California American Water Company's (CAWC) Ryan Ranch and Bishop wells.
- Native groundwater production in the Basin for WY 2023 was 2,173 acre-feet, which is 698 acre-feet less than WY 2022 and 827 acre-feet less than the Decision-ordered Operating Yield for WY 2023 of 3,000 acre-feet. In addition to WY 2023 being an above average year for rainfall, recovery of 3,458 acre-feet of recycled water from Pure Water Monterey project (PWM) and use of recycled water at the Bayonet/Blackhorse Golf Courses helped offset pumping of native groundwater. Native groundwater production was below the Decision-estimated Natural Safe Yield of 3,000 acre-feet for the fourth year in a row.

The following recommendations should be implemented to monitor and track seawater intrusion.

- Induction logging in the very bottom of SBWM-3 was hampered by the lost transducer and steel cable in the bottom of the well. Given increased conductivity occurring within the Paso Robles aquifer in SBWM-1, 2, and 4, the transducer and cable should be fished out prior to conducting the fall 2024 induction logging so a complete log of conductivity can be obtained.
- EKI and MCWD GSA (Marina Coast Water District Groundwater Sustainability Agency) should be informed that Sentinel wells SBWM-1 and SBWM-2 are starting to show an increase in conductivity in defined coarser-grained zones in the Paso Robles Aquifer. These wells are located outside of the Basin and are within the Marina Subarea of the Monterey Subbasin.
- It is recommended that options for verifying seawater intrusion occurring in the Paso Robles Formation at or near SBWM-4 be evaluated in WY 2024. This may involve finding a site for a new monitoring well, adapting an existing well, induction logging a nearby monitoring well, or some other solution. If the fall 2024 induction logging results

confirm increasing conductivity, the Watermaster should see if it would be feasible to monitor groundwater quality in the affected zone.

- It is recommended that FO-10 Shallow and FO-10 Deep be destroyed and replaced to maintain continuous water quality monitoring and to prevent cross contamination between the Paso Robles and Santa Margarita aquifers, and the overlying Dune Sands. These wells are located outside of the Basin, so destruction would need to be performed by the well owner, MPWMD, and replacement wells would need to be installed by the MCWD GSA.
- It is important to remain vigilant and to closely monitor groundwater quality even though seawater intrusion has not yet been observed in monitoring or production wells in the Basin. As outlined in the most recent Basin Management Action Plan (M&A, 2018a), it is important that the Watermaster continue to promote projects to obtain replenishment water for the Basin that is not extracted out as water supply.
- Based on the WY 2020's SIAR recommendation, groundwater elevation data from the Carmel River water Aquifer Storage and Recovery (ASR) project and PWM monitoring wells are now incorporated into the analysis of groundwater elevations if available. Groundwater level data from PWM monitoring wells are typically available for the second quarter of the water year, but fourth quarter data from are less likely to be posted online at GeoTracker at the time of reporting. Inclusion of groundwater level data from ASR monitoring wells is reliant on direct transmittal from applicable monitoring entity and is not always provided in time for reporting. As these and any future projects are implemented, groundwater levels, groundwater flow directions, and potentially groundwater quality will change in response. It is important data from monitoring wells associated with these projects continue to be evaluated in future SIARs.
- Seawater intrusion is a threat to the Basin, and data must be collected and analyzed regularly to identify incipient intrusion. Maps, graphs, and analyses like those found in this report should continue to be developed every year.

SEASIDE GROUNDWATER BASIN
WATERMASTER

TO: Board of Directors

FROM: Robert S. Jaques, Technical Program Manager

DATE: January 3, 2024

SUBJECT: Acknowledge that the extraction of water identified in the City of Seaside (City) notice of an intent for Assignment and Transfer of Production Allocation dated November 1, 2023 will be from California American Water wells, not from City of Seaside wells

RECOMMENDATION:

Acknowledge that the extraction of water identified in the City of Seaside notice of an intent for Assignment and Transfer of Production Allocation dated November 1, 2023 will be from California American Water wells within the same basin subarea as City of Seaside Well No. 4, and not from City of Seaside Well No. 4.

BACKGROUND:

The Watermaster received a notice of intent dated November 1, 2023 for Assignment and Transfer of City of Seaside Production Allocation. The transfer would be of water credits generated by the City's use of advance treated water at the Blackhorse and Bayonet golf courses to California American Water (CAW) in order to serve the City's Ascent housing project, as outlined in Attachment 1.

In accordance with the Watermaster's Rules and Regulations, (see Attachment 2 for applicable excerpt from the Rules and Regulations) on November 8, 2023 all Watermaster Members were notified of the proposed transfer, and it was requested that the Watermaster be notified by November 29, 2023 of any objection to this request. No objections were received.

DISCUSSION:

The only comment received from Members of the Watermaster was from Mr. Stoldt of the Monterey Peninsula Water Management District. He noted that Section 4 of the "*Agreement for Storage and Recovery of Non-Native Water from the Seaside Groundwater Basin*" dated February 5, 2020 only envisioned recovery of stored water by the City at the City's Well No. 4 or a replacement well. He requested Watermaster acknowledge that CAW will extract the stored water described in Attachment 1 from its wells, not from a City well.

CAW intends to extract the stored water for which the credits are being transferred from one or more of its wells located in the same subarea of the Seaside Basin within which the City's Well No. 4 is located, the Northern Coastal Subarea. This will not significantly increase the risk of Material Injury to the Basin above the risk posed by production absent the assignment/transfer.

ATTACHMENTS:

Attachment 1 – City of Seaside Notice of Intent to Transfer Credits

Attachment 2 – Applicable Excerpt from Watermaster's Rules and Regulations

Attachment 3 – Watermaster Correspondence responding to City of Seaside that no objections to the assignment/transfer were received

ATTACHMENT 1



OFFICE OF THE CITY ATTORNEY

440 Harcourt Avenue
Seaside, CA 93955
www.ci.seaside.ca.us

Telephone 831-899-6890
Facsimile 831-718-8602

November 1, 2023

Laura Paxton, Executive Director
Seaside Basin Water Master
PO Box 51502
Pacific Grove, CA 93950

RE: Seaside use of water credits

Dear Ms. Paxton,

In accordance with the Seaside Basin Watermaster rules and regulations and the Seaside Basin Adjudication, please take notice that the City of Seaside intends to utilize up to 260 water credits generated by the use of advance treated water at the Blackhorse and Bayonet golf course to serve the City's Ascent housing project. The credits will be reserved by the City during this water year and transferred as needed to CalAm as follows:

39 AF of water credits will be transferred to CalAm to set the meter on or before March 2024;
91 AF of water credits will be transferred to CalAm on or before March 2025;
130 AF of water credits will be transferred to CalAm on or before 2030.

It should be noted that should Order 95-10 and the moratorium be revised to allow CalAm to serve the properties within its service area, the City will no longer need to transfer these credits. Please do not hesitate to contact the undersigned if you have any questions.

Sincerely,

A handwritten signature in blue ink, appearing to read "Sheri L. Damon".

Sheri L. Damon
City Attorney

Cc: City Manager
CalAM
Seaside Water Company
Project Manager
Planning
Economic Development
Ascent

Include, Innovate, Inspire

ATTACHMENT 2

Excerpt from Watermaster's Rules and Regulations, Section 9.0

9.0 Procedures for Assignment and Transfer of Production Allocations

Parties proposing to assign or transfer any portion of their Production Allocation must submit a written notice to the Watermaster forty-five (45) days prior to the effective date of the proposed assignment or transfer. The notice shall include all details of the assignment/transfer (other than details related to consideration for such assignment or transfer), including thorough descriptions of: (1) the Production Allocation being assigned/transferred; (2) the assignor/assignee or transferor/transferee; (3) the duration of assignment/transfer; and (4) the quantity of Production Allocation being assigned/transferred. The Secretary shall transmit a copy of the notice to each of the Members. Within twenty-one (21) days of the mailing of the notice from the Secretary, any Member may file an objection to the proposed assignment/transfer with the Secretary. If no objection is received within that time, the proposed assignment/transfer shall become effective in accordance with its terms. If an objection is received within that time, the Secretary shall cause the matter to be placed on the agenda for the next available meeting of the Watermaster Board. At the meeting, the Member who filed the objection will carry the burden of proving to the Watermaster Board, by a preponderance of the evidence, that the production contemplated by the assignment/transfer will significantly increase the risk of Material Injury to the Basin above the risk posed by production absent the assignment/transfer. At the conclusion of the hearing, the Watermaster Board shall make its determination regarding any increased risk of Material Injury. If the Watermaster Board determines that the proposed assignment/transfer will not significantly increase risk of Material Injury, the proposed the assignment/transfer shall thereupon become effective. If the Watermaster Board determines, based on its detailed written findings, that the proposed assignment/transfer will result in significant increase of risk of Material Injury, the Watermaster may impose such conditions on the proposed assignment/transfer as it deems necessary to reduce such risk.

ATTACHMENT 3

SEASIDE GROUNDWATER BASIN WATERMASTER

P.O. Box 51502, Pacific Grove, CA 93950
(831) 595-0996

December 8, 2023

Sheri L. Damon
City Attorney
City of Seaside
440 Harcourt Avenue
Seaside, CA 93955

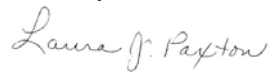
Dear Ms. Damon,

The Seaside Groundwater Basin Watermaster received a notice of intent from the City of Seaside for Assignment and Transfer of Production Allocation, specifically water credits generated by the use of advance treated water at the Blackhorse and Bayonet golf course to California American Water (CAW) to serve the City's Ascent housing project. A copy of the notice was transmitted by email to each of the Watermaster member parties on November 8, 2023 and no objections were received within 21 days of the transmission that the production contemplated by the assignment/transfer will significantly increase the risk of Material Injury to the Basin above the risk posed by production absent the assignment/transfer. No board action is required for transfer/assignment of production allocation per section 9.0 of the Watermaster Rules and Regulations.

The only comment received from Members of the Watermaster was from Mr. Stoldt of the Monterey Peninsula Water Management District by email on November 8, 2023. He noted that Section 4 of the *"Agreement for Storage and Recovery of Non-Native Water from the Seaside Groundwater Basin"* dated February 5, 2020 only envisioned recovery of stored water by the City of Seaside at the City's Well No. 4 or a replacement well. He requested that it be acknowledged through an amendment or some other form of formal action by Watermaster that CAW will extract the stored water described in the notice of intent from its wells, not from a City of Seaside well.

The Seaside/CAW transfer agreement states CAW intends to extract the stored water for which the credits are being transferred from one or more of its wells located in the same subarea of the Seaside Basin within which the City's Well No. 4 is located, the Northern Coastal Subarea. The proposed assignment/transfer would be effective in accordance with its terms upon the Watermaster Board's acknowledgement at the next Watermaster regular board meeting on January 3, 2024, that the extraction of water for which the credits will be transferred will be from California American Water wells, not from City of Seaside wells.

Sincerely,



Laura Paxton, Administrative Officer
Watermaster

Cc: City of Seaside City Manager
Monterey Peninsula Water Management District

TO: Board of Directors

FROM: Robert S. Jaques, Technical Program Manager

DATE: January 3, 2024

SUBJECT: Discussion/Consider Approving Watermaster Annual Report for WY 2023

RECOMMENDATIONS:

It is recommended that the Board approve the Watermaster Annual Report for WY 2023.

BACKGROUND:

The Watermaster submits an Annual Report to the Court after the end of each Water Year to fulfill one of its obligations under the Court Decision that created the Watermaster. This document summarizes and provides information on all of the Watermaster's principal activities of the year, and as required by the Decision is organized into the following Sections:

- A. Groundwater Extractions
- B. Groundwater Storage
- C. Amount of Artificial Replenishment, if any, performed by Watermaster
- D. Leases or sales of Production Allocation and Administrative Actions
- E. Use of imported, reclaimed, or desalinated Water as a source of Water for Storage or as a water supply for lands overlying the Seaside Basin
- F. Violations of the Decision and any corrective actions taken
- G. Watermaster administrative costs
- H. Replenishment Assessments
- I. All components of the Watermaster budget
- J. Water Quality Monitoring and Basin Management
- K. Conclusions and Recommendations

DISCUSSION:

A Preliminary Draft of the Annual Report was presented to the TAC for its review and input at the TAC's December 13, 2023 meeting. The TAC did not request any revisions to it, and recommended that the Report be forwarded to the Board for its approval.

A few days after the TAC meeting, I was contacted by Marina Coast Water District (MCWD) who said they wished to propose some edits to the Report. I met with their representatives via teleconference on December 21 to receive and discuss their suggested edits. The suggested edits were minor in nature, and none were substantive. Some of them were editorial, one pointed out a numerical error, while others provided information, I felt, that would be beneficial to incorporate into the Report. Staff also edited the carry over credit information to combine free and not-free into one "carry over credit" amount for each Standard Producer, with a note as to why. The Final Draft Annual Report before you today incorporates MCWD suggested edits I felt would benefit the accuracy and completeness of the Report, highlighted in red font.

Due to its large file size, a complete copy of the Final Draft 2023 Annual Report cannot be included with the agenda packet. However, a copy of the body of the Final Draft is attached. The complete Final Draft version is posted on the Watermaster's website at:

<https://www.seasidebasinwatermaster.org/Other/2023%20Final%20Draft%20Annual%20Report%20A%2012-23-23.pdf>.

The Draft version of the Annual Report will be made into a Final version, reflecting any comments or recommendations from the Board at today's meeting. The Final version will be submitted to the Court not later than the January 15, 2024 submittal deadline established by the Court.

Due to the length of the Annual Report, rather than making a presentation at today's meeting, staff will respond to questions about the Annual Report from the board and the public.

ATTACHMENTS:

Body of the Final Draft version of the Watermaster 2023 Annual Report.

**SEASIDE BASIN
WATERMASTER
DRAFT
ANNUAL REPORT – 2023
XXXXXX, 2023**

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SEASIDE BASIN WATERMASTER

ANNUAL REPORT – 2023

Integral to the Superior Court Decision (Decision) rendered by Judge Roger D. Randall on March 27, 2006 is the requirement to file an Annual Report. This 2023 Annual Report is being filed on or before January 15, 2023, consistent with the provisions of the Decision, as amended by the Order Amending Judgment filed March 29, 2018.

This Annual Report addresses the specific Watermaster functions set forth in Section III. L. 3. x. of the Decision. In addition, this Annual Report includes sections pertaining to:

- Water quality monitoring and Basin management
- Information that the Watermaster would otherwise include within a Case Status Conference Statement, including:
 - o A summary of basin conditions and important developments concerning the management of the Basin
 - o Planned near- and long-term actions of the Watermaster
 - o Information concerning the status of regional water supply issues
 - o Management activities that may bear on the Basin's wellbeing.

A. Groundwater Extractions

The schedule summarizing the Water Year 2023 (WY 2023) groundwater production from all the producers allocated a Production Allocation in the Seaside Groundwater Basin is provided in Attachment 1, “Seaside Groundwater Basin Watermaster, Reported Quarterly and Annual Water Production from the Seaside Groundwater Basin for all Producers Included in the Seaside Basin Adjudication During Water Year 2023.” Water Year 2023 is defined as beginning October 1, 2022 and ending on September 30, 2023.

B. Groundwater Storage

Monterey Peninsula Water Management District (MPWMD), in cooperation with California American Water (CAWC), operates the Seaside Basin Aquifer Storage and Recovery (ASR) program. Under the ASR program, CAWC diverts water from its Carmel River sources during periods of flow in excess of NOAA-Fisheries’ bypass flow requirements, and transports the water through the existing CAWC distribution system for injection and storage in the Seaside Basin at the MPWMD’s Santa Margarita ASR site and CAWC’s Seaside Middle School ASR site. During WY 2023, 1,656 acre-feet was diverted and stored in the Seaside Basin under the ASR program. Rainfall in the area was about 166% of normal, and Carmel River flow was about 304% of normal.

Based upon production reported for WY 2023, the following Standard Producers are entitled to Carryover Credits to WY 2024 in accordance with the Decision, Section III.

H. 5. *Note: "Free" and "Not-free" carryover was a function of ramp down in production; now that ramp down is complete and NSY = Operating Yield, carryover is no longer divided into "Free and Not-free" (NSY and Operating Yield) carryover.*

<u>Producer</u>	<u>Carryover Credit</u> (Acre-feet)
Granite Rock	267.49
DBO Development	479.57 (-2.31 transfer)
Calabrese (Cypress)	18.04 (-3.17 transfer)
CAWC	753.95 (+5.48 transfer)
City of Seaside Muni	31.15

C. Amount of Artificial Replenishment, If Any, Performed by Watermaster

Per the Decision, “Artificial Replenishment” means the act of the Watermaster, directly or indirectly, engaging in contracting for Non-Native Water to be added to the Groundwater supply of the Seaside Basin through Spreading or Direct Injection to offset the cumulative Over-Production from the Seaside Basin in any particular Water Year pursuant to Section III.L.3.j.iii. It also includes programs in which Producers agree to refrain, in whole or in part, from exercising their right to produce their full Production Allocation where the intent is to cause the replenishment of the Seaside Basin through forbearance in lieu of the injection or spreading of Non-Native Water (referred to herein as “In-lieu Replenishment”).

During Water Year 2023 the Watermaster did not indirectly engage in In-lieu Replenishment of the Basin. No non-native water was made available to the Basin during Water Year 2022 under the April 7, 2010 Memorandum of Understanding and Agreement entered into by Watermaster with the City of Seaside for its golf course irrigation program creating in-lieu replenishment water.

As reported in the 2019 Annual Report, on September 4, 2019 the City of Seaside filed a motion with the Court seeking the Court’s approval of the City’s request for a Storage and Recovery Agreement for in-lieu storage and recovery of water. On October 25, 2019 the Court approved the City’s request. Court documents pertaining to the City’s request were contained in Attachment 15 of the 2019 Annual Report. On February 5, 2020 the Watermaster executed a Storage and Recovery Agreement with the City of Seaside, a copy of which was included in Attachment 7 of the 2020 Annual Report. 365.03 AF of non-native water was made available to the Basin during Water Year 2023 under this Storage and Recovery Agreement. The 365.03 AF accrues as a storage credit for future City of Seaside Municipal or Golf Course use per the agreement.

D. Leases or Sales of Production Allocation and Administrative Actions

As reported in the 2019 Annual Report, in WY2019 a transfer or assignment of water allocation was activated, as provided for in the Cypress Pacific Investors (CPI), successor to Muriel L. Calabrese 1987 Trust, front-loading delivery of water agreement that was contained in Attachment 14 of the 2019 Annual Report. Per the agreement, CPI leases to California American Water Company (CAWC) 8.0 AF of water (subject to reduction per the formulas in the Decision) for the purpose of producing such water from, or moving the production of such water to, the inland wells operated by CAWC and for delivery of such water by CAWC to one or more CPI properties. In WY 2017 CPI assigned its entire Standard Production Allocation water right to CAWC effective October 1, 2016.

As discussed in Attachment 13 of the 2018 Annual Report, in 2019 Security National Guarantee (SNG) indicated it intended to convert a portion of its Alternative Production Allocation to Standard Production. However, SNG subsequently decided not to make such a conversion.

During WY 2023 the Watermaster Board made changes to sections 3.3.1 through 3.3.2 of the *Rules and Regulations* regarding Standing Committees.

During WY 2023 the Watermaster Board was comprised of the following Members and Alternates:

<u>MEMBER</u>	<u>ALTERNATE</u>	<u>REPRESENTING</u>
Director Paul Bruno	Director John Gaglioti	Coastal Subarea Landowner
Christopher Cook	Tim O'Halloran	California American Water
Director John Gaglioti	Director Paul Bruno	Laguna Seca Subarea Landowner
Director George Riley	Director Alvin Edwards	MPWMD
Mayor Mary Ann Carbone	City Manager Vibeke Norgaard	City of Sand City
Supervisor Wendy Askew	Supervisor Mary Adams	Monterey County (MCWRA)
Councilmember Kim Shirley	Council Member Bill Ragsdale-Cronin	City of Del Rey Oaks
Councilmember Kim Barber	Mayor Tyller Williamson	City of Monterey
Mayor Ian Oglesby	Mayor Pro Tem David R. Pacheco	City of Seaside

E. Use of Imported, Reclaimed, or Desalinated Water as a Source of Water for Storage or as a Water Supply for Lands Overlying the Seaside Basin

The CAWC/MPWMD ASR Program operated in WY 2023 and 1,656 acre-feet of water was injected into the Basin as Stored Water Credits and 806 acre-feet was extracted.

As reported in the 2019 Annual Report, the Watermaster issued a Storage and Recovery Agreement to CAWC and MPWMD governing the injection and recovery of water from the Pure Water Monterey (PWM) Project. A copy of the agreement was included in Attachment 13 of the 2019 Annual Report. The quantities of water that were stored and recovered in accordance with that Agreement during WY 2023 are reported in the lower portion of the spreadsheet in [Attachment 1](#).

F. Violations of the Decision and Any Corrective Actions Taken

Section III. D. of the Decision enjoins all Producers from any Over-Production beyond the Operating Yield in any Water Year in which the Watermaster declares that Artificial Replenishment is not available or possible. Section III. L. 3. j. iii. requires that the Watermaster declare the unavailability of Artificial Replenishment in December of each year, so that the Producers are informed of the prohibition against pumping in excess of the Operating Yield.

In WY 2021 the Watermaster implemented a final ramp-down in production to achieve the Basin's Decision-established Natural Safe Yield of 3,000 AFY. The Watermaster made its declaration regarding the availability of Artificial Replenishment Water, and the Total Usable

Storage Space of the Basin, for WY 2023 at its Board meeting of December 7, 2022. Copies of these declarations are contained in [Attachment 2](#).

Total pumping for WY 2023 did not exceed the Operating Yield (OY) of the Basin, and did not exceed the Natural Safe Yield (NSY) of the Basin.

G. Watermaster Administrative Costs

The total estimated Administrative costs through the end of Fiscal Year 2023 amounted to \$75,000 including a \$25,000 dedicated reserve. Costs include the Administrative Officer salary and legal counsel fees. The “Fiscal Year 2023 Administrative Fund Report” and “Fiscal Year 2023 Operations Fund Report” are provided in [Attachment 3](#).

H. Replenishment Assessments

At its meeting of November 1, 2023 the Watermaster Board determined that beginning with WY 2024 the Natural Safe Yield Replenishment Assessment unit cost should be updated to \$4,528.63 per acre-foot, and the Operating Yield Replenishment Assessment unit cost should be updated to \$1,132.16 per acre-foot. The spreadsheet that was included with the agenda transmittal for the November 1 meeting, and which explains the basis of calculation for these new unit costs, is contained in [Attachment 4](#).

Alternative and Standard Producers report their production amounts from the Basin to the Watermaster on a quarterly basis. Based upon the reported productions for WY 2023, no replenishment assessments were made.

A summary of the calculations for Replenishment Assessments for WY 2023 is contained in [Attachment 5](#). Credits against Replenishment Assessments are contained in [Attachment 6](#).

I. All Components of the Watermaster Budget

The Watermaster budget has four separate funds: Administrative Fund; Monitoring & Management–Operations; Monitoring and Management–Capital Fund and; Replenishment Fund. At its meeting of September 6, 2023 the Watermaster Board approved these budgets for Fiscal Year 2024, and copies of these budgets are contained in [Attachment 6](#).

The Watermaster Board is provided monthly financial status reports on all financial activities for each month with year-to-date totals.

J. Water Quality Monitoring and Basin Management

Water Quality Analytical Results

Groundwater quality data continued to be collected and analyzed on a quarterly basis during WY 2023 from the enhanced network of monitoring wells. The low-flow sampling method implemented in 2009 continued to be used in 2023 and is expected to continue to be used in the future to improve the efficiency of sample collection.

Monitoring and Management Program for the Upcoming Year

The 2024 Monitoring and Management Program (M&MP) contained in [Attachment 8](#) includes the same types of basin management activities that have been conducted in prior years.

Most of the differences between the 2023 M&MP and the 2024 M&MP are relatively minor,

but:

- Task I.2.b.5 mentions that a replacement for Monitoring Well FO-9 Shallow, which had to be destroyed because of casing leakage, is being installed in 2023. Drilling of this new well commenced on October 16, 2023 and was completed in early November 2023.
- Task I.3.a.3 provides updated information regarding replenishment water for the Basin, gained from analyses performed in 2023, and updated information about Groundwater Sustainability Plans that may affect the Laguna Seca Subarea. The proposed budget to provide funds for modeling or other work to assess Basin management issues, if so directed by the Board, has been reduced from \$60,000 to \$40,000 because no specific modeling or other work has been identified for 2024.

The 2024 Monitoring and Management Program (M&MP) Budgets contained in Attachment 8 cover the same types of basin management activities that have been conducted in prior years.

The following are comments and/or principal revisions from the 2023 M&MP Budget:

Technical Program Manager: Although the Groundwater Sustainability Plan for the adjacent Monterey Subbasin has been completed and was submitted in early 2022 by the Salinas Valley Basin and the Marina Coast Water District Groundwater Sustainability Agencies, there will continue to be regular meetings of their GSP-related committees that I serve on representing the Watermaster. Also, there will likely be further work related to obtaining replenishment water for the Basin. Therefore, it is anticipated that the 2024 workload will be similar to that of 2023, so the proposed line-item budget amount has been maintained at \$75,000 in 2024.

Tasks Involving MPWMD and Montgomery & Associates: The scopes-of-work for both MPWMD and Montgomery & Associates are essentially unchanged from 2023. However, both will have hourly-rate increases in 2024, so the costs of the Tasks in which they are involved reflect somewhat higher dollar amounts in 2024 compared to 2023.

For several of the Tasks involving MPWMD (I.2.a.1, I.2.b.2, I.2.b.3) certain of their costs have been re-allocated to more closely match the Tasks to which they pertain. This accounts for some of the changes in costs of these Tasks in 2024 compared to their costs in 2023.

Task I.2.b.3 includes induction logging of the Sentinel Wells. Access to Sentinel Well #4 may be reduced if the access road leading to it is removed and re-vegetated in conjunction with the demolition of the Ord Village Pump Station. If that is the case, the induction logging vehicle will have to be located some distance away from this well, and the cable that connects the logging tool to the vehicle will have to be supported by a series of braces with pulleys on them. A contingency amount of \$5,000 has been included in the cost estimate for this work in case this additional work is needed. This, along with increases in the charges from the induction logging subcontractor, led to the increase in the cost of this Task.

As a result of the changes described above, as indicated by the right-hand column titled “Comparative Costs from 2023 Budget” in the 2024 M&MP Operations Budget in Attachment 6, the proposed 2024 Budget is \$31,149 lower (\$324,930 -\$293,781) than the 2023 Budget.

Basin Management Database

Pertinent groundwater resource data obtained from a number of sources has been consolidated into the Watermaster's database to allow more efficient organization and data retrieval. No modifications or enhancements to the database are planned in FY 2024.

Enhanced Monitoring Well Network

The Seaside Basin M&MP uses an Enhanced Monitoring Well Network to fill in data gaps in the previous monitoring well network used by the Monterey Peninsula Water Management District (MPWMD), and others, in order to improve the basin management capabilities of the Watermaster. The Enhanced Monitoring Well Network has been described in detail in previous Watermaster Annual Reports. It continues to be used to obtain additional data that is useful to the Watermaster in managing the Basin.

As reported in the 2021 Annual Report, monitoring well FO-9 Shallow had developed a leak in its casing and had to be destroyed to prevent cross-aquifer contamination. A Capital Project to drill a replacement for this well was included in the 2022 and 2023 M&MP Capital Budgets. Monitoring data from the replacement well will be useful to MPWMD and MCWD as well as the Watermaster. Therefore, in 2023 a three-party cost-sharing agreement (between MPWMD, the Watermaster, and MCWD) was developed and executed to share in the costs to replace the well. The replacement well was installed in late 2023 and is included in the 2024 M&MP as one of the wells in the Enhanced Monitoring Well Network.

The Security National Guaranty (SNG) well is privately owned and is located in the dunes area in the northern portion of Sand City. It is on land where a development project is being pursued by the owner. Prior to 2021 this was an inactive well, and therefore water quality samples were not collected from it. In early 2021 it started to be pumped, thus making it an active well from which water quality samples are to be collected. The first sample taken from this well had a very high chloride level (8,660 mg/L) which is a strong indicator that this well is sea water intruded. The well owner was contacted and he was asked to look into whether the well casing was leaking and allowing salty water from a shallow aquifer to flow downward into the Paso Robles aquifer and cause the higher chloride level. He responded that he would look into this, but that the development project on this property was in the midst of litigation and he was prevented by the Court from doing any work on the well until the litigation was concluded. The well is currently inactive and there is no active pumping.

In late fall of 2021 the owner reported that he was awaiting the Court's Decision on the development project litigation, which he expected he would get in late January 2022. He went on to say that as soon as he got the Court's Decision, and finalized the title, he would be able to repair the well. In October 2022 the well owner reported that the final Court Decision which he originally expected would come out in January of 2022 did not come out until August 2022. He said that SNG found the Decision to be unacceptable. In late 2023 the owner reported that an appeal to the Court's Decision had just been filed, and that he did not anticipate a final Court ruling until early 2025.

In the meantime, however, another lawsuit was filed against the other owner Evariste Group (conversion of property and embezzlement) and that matter is pending in Orange County. Because of this litigation and the appeal, the owner said he is not able to address fixing any of the well issues or concerns. As soon as the litigation is concluded or a settlement is achieved, the owner said he will be able to examine the well and address any concerns that need repairs.

In summary, the well problem cannot be remedied unless/until the other litigants agree to having the repair work performed prior to the litigation being resolved, or there is some other resolution.

Basin Management Action Plan (BMAP)

The BMAP constitutes the basic plan for managing the Seaside Groundwater Basin. The BMAP identifies both short-term actions and long-term strategies intended to protect the groundwater resource while maximizing the beneficial use of groundwater in the basin. It provides the Watermaster a logical set of actions that can be undertaken to manage the basin to its Safe Yield.

The Watermaster's first BMAP was completed in 2009 and the Executive Summary from that BMAP was contained in Attachment 9 of the 2009 Annual Report. The complete document is posted on the Watermaster's website at:

http://www.seasidebasinwatermaster.org/Other/BMAP_FINAL_5-Feb-2009.pdf.

The BMAP was updated in 2019 and the Executive Summary from the updated BMAP was contained in Attachment 7 of the 2019 Annual Report. The complete document is posted on the Watermaster's website at:

http://www.seasidebasinwatermaster.org/Other/BMAP%20Final_07192019.pdf.

One of the findings in the Updated BMAP is that the Natural Safe Yield (NSY) of the Basin is 2,370 AFY, which is lower than the Adjudication Decision's initially-established 3,000 AFY. Attachment 10 of the 2019 Annual Report contains a Memo titled "Seaside Groundwater Basin Natural Safe Yield Allocations to Producers." The Memo describes how the Adjudication Decision allocated water rights to each of the Producers (both Standard and Alternative Producers), and the water rights that each Producer would have after all of the Adjudication Decision-required ramp-downs in pumping have been completed. The Memo also briefly describes the water rights impacts that would result from lowering the NSY of the Basin from 3,000 AFY to 2,370 AFY.

At its meeting of June 5, 2019 the Watermaster Board determined to stay with the 3,000 AFY NSY for the time being, in part because ramping-down to 3,000 AFY would cause less hardship on the Alternative Producers by not requiring them to ramp-down along with the Standard Producers, and because ramping down to 2,913 AFY would provide negligible additional benefit and would require both the Standard and Alternative Producers to ramp-down.

In conjunction with updating the BMAP, the Watermaster's hydrogeologic consultants recommended that at some point in the future the Watermaster change to a different approach (Sustainable Yield) rather than continuing to use the Natural Safe Yield approach that was used in the Adjudication Decision, for basin management purposes.

Attachment 11 in the 2019 Annual Report contains a discussion of the pros and cons of using the Sustainable Yield approach vs. the Natural Safe Yield approach. The Watermaster Board considered the information contained in that attachment at its June 5, 2019 meeting and made the following determinations:

- A Sustainable Yield analysis should not be performed at this time.

- The concept of using the Sustainable Yield approach to replace the Natural Safe Yield approach should be revisited after the Groundwater Sustainability Plans (GSP) for the subbasins within the Salinas Valley Groundwater Basin (notably the Monterey and 180/400-Foot Aquifer Subbasins) have been completed, and their impacts on the Seaside Groundwater Basin have been determined. The status of those GSPs is discussed below in the section of this Annual Report titled “Sustainable Groundwater Management Act.”
- If something is learned, or events occur, that would warrant performing a Sustainable Yield analysis sooner, the Board should revisit the decision at that time.

The Watermaster Board revisited this topic at its September 1, 2021 meeting, and concluded the following:

- Sustainable Yield (SY) is a technically superior Basin management approach compared to the Natural Safe Yield (NSY) approach used in the Decision, and an SY analysis should be performed at some point in time.
- Because of the historical over pumping from the Basin, regardless of the approach that is used for Basin management, be it NSY or SY, even reducing pumping levels to match either the NSY or SY pumping levels will not achieve protective groundwater elevations. This is because these approaches only seek to stabilize groundwater levels and do not take into account that the Basin would still be at risk of seawater intrusion at some time in the future. An additional source(s) of water (replenishment water) that can be injected into the Basin to raise groundwater levels, and to maintain them at protective water levels, will be necessary regardless of which approach is used for Basin management.
- In view of the expense and complexity of changing to the SY approach, the Board concluded that making this change would not be justified until a source for this replenishment water has been secured.

Seawater Intrusion Response Plan

HydroMetrics LLC (now Montgomery and Associates) was hired by the Watermaster to prepare a long-term Seawater Intrusion Response Plan (SIRP), as required in the M&MP.

The Final SIRP was approved by the Watermaster Board in 2009 and a summary of the Seawater Intrusion Contingency Actions from the SIRP were contained in Attachment 10 of the 2009 Annual Report. The complete document may be viewed and downloaded from the Watermaster’s website at: <http://www.seasidebasinwatermaster.org/>.

Seawater Intrusion Analysis Report

The Seawater Intrusion Analysis Report (SIAR) examines the “health” of the Basin with regard to whether or not there are any indications that seawater intrusion is either occurring or is imminent. Previous SIARs have stated that depressed groundwater levels, continued pumping in excess of recharge and freshwater inflows, and ongoing seawater intrusion in the nearby Salinas Valley all suggest that seawater intrusion could occur in the Seaside Groundwater Basin.

The 2022 Annual Report includes a discussion of two monitoring wells which have experienced increased chloride concentrations. One of these, monitoring well FO-10 Shallow, is north of and outside of the Seaside Basin, and the other, monitoring well FO-9 Shallow, was just inside the northern boundary of the Northern Coastal Subarea of the Seaside

Basin. As reported earlier in this 2023 Annual Report, the original monitoring well FO-9 Shallow was destroyed and was replaced with a new FO-9 Shallow monitoring well in late 2023. Further investigation of Well FO-10 Shallow led to the conclusion that it might be allowing leakage to occur from the shallower Aromas or Dunes Sands formation into the Paso Robles aquifer below. One of the actions listed in the Monterey Subbasin GSP is for MCWD to install monitoring wells near the northern boundary of the Seaside Subbasin. Although work to destroy and replace monitoring well FO-10 Shallow is not mentioned, MCWD may wish to perform such work in order to restore that well for its monitoring purposes.

The induction logging device that has been used each year needed to be repaired before this year's logging event could be performed. Although there were some minor variations in this year's results compared to prior years, the induction logs of the Sentinel Wells remained essentially stable over the historical record. The variations were potentially the result of making the repairs, and were not greater than those experienced in prior years.

The Watermaster retained Montgomery & Associates to prepare the WY 2023 SIAR required by the M&MP. The WY 2023 SIAR provided an analysis of data collected during that Water Year.

There continue to be ongoing detrimental groundwater conditions within the Basin that pose a potential threat of seawater intrusion. Groundwater levels below sea level, the cumulative effect of pumping in excess of recharge and freshwater inflows, and ongoing seawater intrusion in the nearby Salinas Valley all suggest that seawater intrusion has the potential to occur in the Seaside Groundwater Basin. However, no data collected in Water Year (WY) 2023 indicate that seawater intrusion is occurring within the Seaside Groundwater Basin.

The SIAR is lengthy, but the full *Executive Summary Section* from it is provided in Attachment 7. A complete copy of the document is posted for viewing and downloading from the Watermaster's website at: <http://www.seasidebasinwatermaster.org/>. All recommendations contained in the SIAR are being or will be carried out and are included in the budgeted activities contained in Attachment 6 and described in Attachment 8.

Geochemical Impact Assessments

When new sources of water are introduced into an aquifer, with each source having its own unique water quality, there can be chemical reactions that may have the potential to release minerals into solution which have previously been attached to soil particles, such as arsenic or mercury, and thus into the water itself. This has been experienced in some other locations where changes in water quality occurred as a result of water being injected into an aquifer.

The 2022 Annual Report includes a discussion of geochemical impact assessments pertaining to the introduction of desalinated water, additional ASR water, and advanced wastewater treatment (AWT) water under the Pure Water Monterey Project (PWM).

In 2023 no additional geochemical impact assessments needed to be performed, since the desalination plant component of the Monterey Peninsula Water Supply Project was still in the process of obtaining the permits necessary to move forward.

Sustainable Groundwater Management Act (SGMA)

As reported in the 2015 Annual Report the Watermaster Board determined that the Watermaster should monitor the development of the Salinas Valley Basin Groundwater Sustainability Agency (SVBGSA) and the State Department of Water Resources' (DWR) development of SGMA regulations with the intent to collaborate with these entities as appropriate.

At the State Level:

During 2023 DWR did not issue any new regulations, or revisions to prior regulations, that impacted the Seaside Groundwater Basin or the Watermaster. In March of 2023 the Watermaster submitted to DWR the reporting information required of it, as an adjudicated basin, under SGMA.

At the Monterey County level:

The 2022 Annual Report includes a discussion of the formation of the Groundwater Sustainability Agencies (GSAs) involved in the development and implementation of the GSP for the Monterey Subbasin. The Watermaster participated in the development of the Monterey Subbasin GSP and continued monitoring the implementation of that GSP in 2023. The Watermaster also continued monitoring the implementation of the GSP for the 180/400-Foot Aquifer Subbasin GSP, since that subbasin has a direct impact on groundwater conditions in the Monterey Subbasin. Its participation as a member of the SVBGSA's Advisory Committee, and the MCWDGSA's Stakeholder Group, helps to ensure that there is close coordination between the SVBGSA, MCWDGSA, and the Watermaster on matters of mutual interest. Monthly summary reports of meetings of those groups are provided to the Watermaster Board by the Watermaster's Technical Program Manager.

K. Information that the Watermaster Would Otherwise Include within a Case Status Conference Statement

This Section was added to the Annual Report beginning in 2018 year as directed by the Court in its Order Amending Judgment filed March 29, 2018. It is formatted to contain the topic headings below, which were requested by the Court in its March 29, 2018 Order.

Summary of Basin Conditions and Important Developments Concerning the Management of the Basin

The condition of the Basin is discussed in the *Water Quality, Seawater Intrusion Analysis Report*, and *Basin Management Action Plan* subheadings in Section J of this Annual Report.

In summary, the *2023 Seawater Intrusion Analysis Report*, which analyzes the water quality data collected under the Watermaster's sampling program, reported that while conditions exist within the Basin that pose a risk of seawater intrusion, none of the data collected in WY 2023 indicate that seawater intrusion has actually occurred.

The 2019 updated *Basin Management Action Plan* found that in spite of recent pumping at levels less than the Decision-established Natural Safe Yield of 3,000 AFY, water levels in some portions of the Basin are continuing to drop. It is expected that once the desalination plant component of the MPWSP becomes operational, or if that plant is not constructed but an expansion of the PWM project is constructed, and CAWC is able to further reduce its pumping from the Basin by 700 AFY through its 25-year overpumping repayment program, the rate of drop in groundwater levels will be at least partially mitigated. However, unless the Basin is

replenished to raise groundwater levels to protective elevations, the Basin will remain vulnerable to seawater intrusion.

As the Groundwater Sustainability Plans (GSPs) were developed under the State's Sustainable Groundwater Management Act (SGMA), the Watermaster became more aware of the impact of adjacent groundwater basins on the Seaside Groundwater Basin. In the context of the Salinas Valley Groundwater Basin, as recognized and defined by the DWR, each basin within that larger Basin is referred to as a "subbasin". Therefore, in this section of this Annual Report the Seaside Basin is referred to as the "Seaside Subbasin." The GSP for the Monterey Subbasin (which abuts the Seaside Subbasin to the north and east) made it clear that:

- The portion of the Monterey Subbasin to the east of the Seaside Subbasin (referred to as the Corral de Tierra/Toro Subarea) will not be able to achieve sustainability as defined under the SGMA without the importation of additional sources of water supply.
- The portion of the Monterey Subbasin to the north of the Seaside Subbasin (referred to as the Marina-Ord Subarea) will not be able to achieve sustainability unless the subarea immediately to the north (the 180/400-foot Aquifer Subbasin) raises its groundwater levels high enough to stop seawater from intruding that subbasin.
- There is significant loss of groundwater from the Seaside Subbasin to the Monterey Subbasin because the groundwater levels in the Monterey Subbasin are lower than those in the Seaside Subbasin.

Planned Near and Long-term Actions of the Watermaster

Near-term actions are described in the 2023 Monitoring and Management Program discussed in Section J and Attachment 8 of this Annual Report.

Long-term actions will include:

- Continuing to carry out the duties and responsibilities assigned to the Watermaster by the Decision
- Continuing to coordinate with the Monterey County Water Resources Agency, the SVBGSA, and the MCWDGSA:
 - In their development of updated hydrogeologic models to ensure that there is hydrogeologic agreement between those models and the Watermaster's Seaside Basin model, and
 - Continuing to coordinate with the SVBGSA to develop measures to aid in groundwater management of the Laguna Seca Subarea.
- Continuing meetings of the ad hoc "Public Awareness Committee" of the Watermaster Board to:
 - Develop information about potential funding mechanism options for the purchase of replenishment water
 - Developing materials to educate decision makers and the public in general about:
 - The risk of seawater intrusion that the Seaside Basin faces
 - The need to replenish the Basin to raise groundwater levels high enough to keep that from occurring
 - Ensuring the Basin has sufficient groundwater resources to supply customer demands.

Information Concerning the Status of Regional Water Supply Issues

MPWSP

Implementation of the Monterey Peninsula Water Supply Project (MPWSP) continues to be actively pursued by CAWC. CAWC received approval of the project from the Coastal Commission in November 2022. The MPWSP 4.8 MGD desalination plant is currently anticipated to be operational in 2027 to 2028.

During WY 2023 CAWC continued to work on getting well ASR-4 permitted for use so it could be used in place of ASR-1 as a supply well. Because ASR-4 had been found to have a mercury concentration level above the drinking water standard, CAWC installed a mercury removal treatment unit so it could be permitted for use as a supply well. The mercury treatment system has been approved by DDW, and CAWC is currently working on startup and commissioning of the well and treatment system.

PWM

Construction work on the Monterey One Water (M1W) and Marina Coast Water District (MCWD) Pure Water Monterey (PWM) recycled water project in Marina was completed in late 2019, and the Advanced Water Treatment (AWT) plant began producing water in early 2020. Water began being injected into the Seaside Groundwater Basin in February 2020. In WY 2023 a total of 4,516 acre-feet of water was injected. Of this amount, 3,493 acre-feet was available to CAWC for extraction and 663 acre-feet was added to the operating reserve.

The Title 22 Indirect Potable Reuse (IPR) Groundwater Replenishment regulations require that the water from the PWM project be retained underground no less than two months before it reaches the closest downgradient drinking water well. This is referred to as the Response Retention Time, and is intended to provide sufficient response time to identify a treatment failure and a quick response.

Extrinsic tracer studies conducted during WY 2023 indicated that the minimum retention time was consistently being met, and no violations of the AWT plant's permit had occurred.

On September 14, 2021 the State Division of Drinking Water (DDW) issued a letter to CAWC stating that "the drinking water source designation of ASR Well 01 (ASR-1) has been changed from active to inactive." DDW issued this letter because tracer studies indicated that the minimum retention time requirement for water injected by the PWM project was likely not being met for this well. That inactive status remains in effect today since no changes were made in the operation of the PWM project that would enable the status to revert to "active."

During WY 2023 CAWC continued to work on getting well ASR-4 permitted for use so it could be used in place of ASR-1 as a supply well. Because ASR-4 had been found to have a mercury concentration level above the drinking water standard, CAWC installed a mercury removal treatment unit so it could be permitted for use as a supply well. The Mercury Treatment system has been approved by DDW, California American Water is currently working on startup and commissioning of the well and treatment system.

In 2022, M1W received Division of Drinking Water approval for additional virus log reduction credits for chloramine disinfection based on chlorine residual in the pipeline and the contact time during conveyance. M1W also received approval for 4-logs of virus reduction credit for an underground retention time of 4 months modeled with additional injection volumes and all extraction well operational scenarios. In 2023 M1W optimized the monitoring and reporting of

virus reduction credits through the reverse osmosis system and through conveyance. Since start-up of the PWM Project, MIW has always exceeded the regulatory requirement of 12-logs of virus reduction using a combination of reverse osmosis, ultraviolet advanced oxidation, conveyance system disinfection, and underground retention time.

Public Buyout of CAWC's Water System

As discussed in the 2022 Annual Report, the Local Agency Formation Commission (LAFCO) passed a resolution denying MPWMD's application to activate its latent powers in order to acquire CAWC's Monterey Water System. MPWMD filed an Application for Reconsideration of LAFCO's disapproval, and LAFCO denied MPWMD's Application.

MPWMD initiated litigation against LAFCO on April 1, 2022 as set forth in Monterey County Superior Court Case No. 22CV000925. Numerous filings were made by the parties involved in the litigation, and the case was heard in late September 2023. At that hearing the Court asked for additional citations from the administrative record to be provided, and a "Statement of Intended Decision" was issued by the Court on October 25, 2023. The Conclusion at the end of that Intended Decision reads as follows:

Conclusion:

In summary, the Court orders that writ of mandate shall issue on the grounds that (1.) Respondent LAFCO failed properly to consider whether Petitioner will have sufficient revenue to carry out the proposed new or different services following the proposed change, pursuant to Government Code section 56668 (k); (2.) LAFCO improperly applied the 'Environmental Justice' factor of Government Code section 56668(p), since there is no evidence in the record of any pollution; (3.) there is no substantial evidence to support its finding that the proposed action would pose an undue economic hardship on other County residents in satellite water systems; and (4.) LAFCO's findings regarding the sufficiency of water supply for the proposed action here are inconsistent and irreconcilable with its findings the same day in its adoption of the 2021 Municipal Service Review and Sphere of Influence for the District, which concluded that 'completion of either Cal-Am's MPWSP desalination plant or MIW/MPWMD'S Pure Water Monterey Expansion Project will be more than sufficient to meet anticipated water demand for at least the next 20 years.' Petitioner is to prepare and submit proposed Writ of Mandate consistent with this ruling. This Statement of Intended Decision shall serve as the Statement of Decision, subject to any objections of the parties.

At its meeting on October 10, 2023 the MPWMD Board voted to approve a "resolution of necessity" authorizing MPWMD to move ahead with the forced acquisition of the CAWC system and convert it to government ownership. MPWMD has six months from that date to commence an eminent domain proceeding in court to determine the value of CAWC and acquire it.

Management Activities that May Bear on the Basin's Wellbeing

1. *Water Conservation.* From a water conservation standpoint, customers of CAWC are doing an exceptional job. CAWC's Monterey system has one of the highest levels of voluntary conservation in the state. There has essentially been no back-off in conservation following the end of mandatory conservation that occurred after the wet winter of 2016-2017.

2. *Storm Water and Recycled Water.* Storm water and recycled water are both components of the Pure Water Monterey (PWM) project that has been implemented by M1W and MCWD. CAWC has already contracted to receive 3,500 AFY of PWM recycled water for injection into, and recovery from, the Seaside Basin. M1W, in coordination with others, is pursuing the PWMX project to expand the delivery capacity of the PWM project by using additional sources of recycled water and storm water.

Construction contracts for the initial components of the PWMX project were issued in late 2023 by M1W. The current schedule for that project indicates the project is expected to become operational in early 2026, and would deliver an additional 2,250 AFY of recycled water.

3. *Sustainable Groundwater Management Act.* Coordination between the Watermaster and the SVBGSA and the MCWDGSA is ongoing and is discussed in more detail above under Section J of this Annual Report. That coordination will aid in groundwater management of the Seaside Basin.

4. *Climate Change.* Higher seawater levels could exacerbate seawater intrusion concerns, which punctuates the importance of monitoring and long-term management to avoid seawater intrusion. From a water supply perspective, reliance on groundwater with sustainable management is ideal because the resource is a reservoir and therefore not subject to sharp fluctuations in availability resulting from year-to-year precipitation amounts as is the case with surface water supplies. Updating of the Watermaster's *Groundwater Model* in 2018 (discussed in Section J of the 2018 Annual Report) and *Basin Management Action Plan* in 2019 (discussed in Section J of the 2019 Annual Report) incorporated projected impacts from climate change and sea level rise.

5. *New Technical Issues or Activities.*

- Stormwater Projects Being Evaluated in the Monterey Peninsula Stormwater Resource Plan (SWRP).

As reported in the 2018 Annual Report, Monterey One Water as the lead entity coordinated the development of a Stormwater Resource Plan (SWRP) for the Monterey Peninsula, Carmel Bay, and South Monterey Bay (Monterey Peninsula) Integrated Regional Water Management Plan (IRWMP) area.

The purpose of the SWRP is to identify opportunities to capture stormwater that could be utilized as new water supply sources for the Monterey Peninsula and provide additional water quality and environmental benefits. Some of those projects have the potential to minimally benefit the Seaside Basin, and are discussed in the 2019 Updated Basin Management Action Plan.

Of the seven priority projects that were identified in the SWRP, several projects have been able to receive funding and are proceeding as described below.

City of Seaside: The Del Monte Manor project in the City of Seaside received a grant in the amount of approximately \$560,000 to complete the project, and the project was completed in 2023. This will divert stormwater that is captured in this area into an infiltration structure and the storm drain.

City of Sand City: The City of Sand City has two green street retrofit projects. They are the West End Stormwater Improvement Projects on Contra Costa Street and Catalina Street. The Contra Costa Street project is funded by an SWRCB Proposition 1 Stormwater Grant (technical assistance and implementation) and the Catalina Street project is funded by a DWR Proposition 1 IRWMP Grant. At the time of preparation of this 2023 Annual Report, both of these projects are in the approximately 70% design phase with construction anticipated to begin at the end of the 1st quarter or in the 2nd quarter of 2024. They are described in more detail below:

West End Stormwater Improvement Project – Contra Costa Street

Project Description

The West End Stormwater Improvement Project is a retrofit of an existing major collector street, Contra Costa Street between Olympia Avenue and Redwood Avenue. The Project will integrate Low Impact Development (LID) strategies to address flood control, water quality, and meet several community objectives. The Project proposes to install bioretention facilities (i.e., urban rain gardens), trash capture, permeable pavement, landscaping, and subsurface infiltration chambers and will improve pedestrian and Americans with Disability Act (ADA) access throughout the corridor. The Project will improve urban storm water runoff quality, augment groundwater quantity, provide climate change adaptation, reduce flooding, and create urban green space. The City developed the conceptual phase of the Project with a grant from the State Water Resources Control Board Proposition 1 Technical Assistance Funding Program for disadvantaged communities. Final design and construction of the Project will be funded through a Proposition 1 Stormwater Implementation Grant.

West End Stormwater Improvement Project – Catalina Street

Project Description

The West End Stormwater Improvement Project is a retrofit of an existing minor collector street, Catalina Street, between Olympia Ave. and Ortiz Avenue. The Project will integrate Low Impact Development (LID) strategies to address flood control, water quality, and meet several community objectives. The Project proposes to install bioretention facilities (i.e. urban rain gardens), trash capture, permeable pavement, landscaping, and subsurface infiltration chambers and will improve pedestrian and Americans with Disability Act (ADA) access throughout the corridor. The Project will improve urban storm water runoff quality, augment groundwater quantity, provide climate change adaptation, reduce flooding, and create urban green space. The City developed the conceptual phase of the Project with a grant from the State Water Resources Control Board Proposition 1 Technical Assistance Funding Program for disadvantaged communities. Final design and construction of the Project will be funded through a Proposition 1 Round 1 Integrated Regional Water Management (IRWM) Grant.

Note: Both Projects are designed to capture, treat, and infiltrate urban storm water runoff to reduce the amount of pollutants such as metals, bacteria, nutrients, and trash that are currently being discharged into the Monterey Bay. Both Projects will increase the reliability of the Seaside Groundwater Basin through infiltration of treated storm water and will incorporate City and regional objectives for economic vitality, community livability, and environmental equity. In addition, the Project will improve regional water self-reliance and strengthen collaborative efforts between local agencies to provide sustainable water resources. The City obtained community input regarding storm water management priorities which influenced the design of the Projects.

City of Monterey:

Oliver Street Stormwater Diversion Project

In October 2022, the City of Monterey received a \$25,000 Local Agency MPWMD grant to help with the costs of survey work for the Olivier Street Stormwater Diversion Project (previously known as the Tunnel Diversion Project). The Project will divert urban stormwater drainage from an existing storm drain, currently discharging untreated into the Harbor/Monterey Bay, to an existing City sanitary sewer utility for treatment at MIW's Regional Wastewater Treatment Plant. This diversion is estimated to provide 10-12 acre-feet of dry-weather source water for water recycling at the time of year when source water is not abundant, and reduce the discharge into the Bay. The City is now coordinating with MPWMD on a State funding award to assist with the design and construction of the project.

Lake El Estero Urban Diversion Project

The City of Monterey has received State funding for this project and is beginning to work on the design and permitting for it. Currently, storm water that flows into Lake El Estero is periodically pumped into Monterey Bay to avoid flooding. This project will divert a portion of that pumped flow into the sanitary sewer for treatment at MIW's Regional Wastewater Treatment Plant.

These diversion projects will increase the amount of water that can be recycled for beneficial reuse.

6. Reduction in Pumping in the Laguna Seca Subarea

As mentioned in the 2022 Annual Report, in 2020 CAWC completed construction of an intertie pipeline that enabled it to serve the customers in its Bishop and Ryan Ranch Units in the Laguna Seca Subarea with water from its Main System. With the completion of this pipeline, CAWC has been able to discontinue pumping from the Laguna Seca Subarea to serve those customers. This is expected to reduce total pumping from the Laguna Seca Subarea by about 28%.

7. Obtaining Replenishment Water.

As described in Section J under the subheading "Basin Management Action Plan," and above in the subsection of this Section titled "Summary of Basin Conditions and Important Developments Concerning the Management of the Basin," portions of the Seaside Basin have groundwater levels below sea level. Therefore, even with the pumping reductions achieved to date the Basin will remain vulnerable to seawater intrusion. Replenishing the Basin by injecting water and leaving it in the Basin, rather than withdrawing it as is done in the ASR and PWM projects, could help to raise groundwater levels high enough to protect the Basin against seawater intrusion.

Potential sources of replenishment water include the MPWSP's desalination plant and the PWMX project during their initial years of operation when projected water demands will be less than the production capacities of either of these projects. The replenishment water would be obtained by operating either of these projects at their full capacities and injecting the excess water into the Basin. Doing this would increase the operational costs of those projects, and funds to cover those costs would be needed. **Other potential sources being evaluated by MCWD include a Phase II PWM project to deliver recycled water to areas in the former Fort Ord, and MCWD's Reservation Road desalination project.**

As reported in the 2022 Annual Report, it was found that there are no State or Federal funding programs that could provide money to purchase replenishment water. All of those programs only provide funding for planning, design, and construction of projects, but not for operational costs once the projects are constructed. Discussions involving the Watermaster, MPWMD, M1W, and CAWC led to the conclusion that MPWMD had the legal authority to levy fees to help pay for replenishment of the Basin. In 2023 the Watermaster formed an ad hoc committee to develop concepts and/or funding mechanisms for replenishing the Seaside Basin, once replenishment water becomes available. Meetings of that ad hoc committee were ongoing as of the date of preparation of this 2023 Annual Report.

Studies performed for the Watermaster in 2022 pertaining to the need for replenishment water to raise ground water levels in the Seaside Subbasin to protect it against seawater intrusion concluded:

- Under a “best case” scenario based on future water demand projections, Aquifer Storage and Recovery (ASR) injection rates, and Pure Water Monterey Expansion (PWMX) injection rates prepared by MPWMD, 1,000 acre-feet-per-year (AFY) of water would need to be injected into the Seaside Basin every year to replenish it and raise groundwater levels high enough to prevent seawater intrusion from occurring.
- Under a more “conservative” scenario based on future water demand projections and the timing of start-up of CAWC’s desalination plant contained in CAWC’s 2020 Urban Water Management Plan, ASR and PWMX injection rates with a built-in margin of safety, and revised water demands for the City of Seaside’s golf courses proposed by Cal Am and the City of Seaside, the amount needed would be 3,600 AFY every year.
- Unless replenishment water in these quantities is added annually, the Seaside Basin will be at risk of seawater intrusion, and that risk will increase each year that groundwater levels continue to fall and remain below sea level.
- Implementation of the PWMX project does not accomplish this, and an additional source of replenishment water will be needed. Of the projects currently being pursued, the only other potential source of replenishment water will be from desalination.

The entire Technical Memorandum describing the work that led to these conclusions is posted on the Watermaster’s website at this link:

http://www.seasidebasinwatermaster.org/Other/ExecSummary_and%20TMs_Replenishment_Modeling_WaterBudget_and_AlternateScenario_Analysis%20BOARD_DRAFT_20220901pdf.pdf. A summary of this Technical Memo was contained in Attachment 9 of the 2022 Annual Report.

As reported in the 2022 Annual Report, studies performed for the Watermaster pertaining to the directions and inland velocities that seawater intrusion into the Seaside Subbasin would move, if intrusion should occur, concluded:

- Under current conditions inland seawater intrusion encroachment of 250 ft/yr could occur.
- Periods of prolonged drought with no ASR injection increases inland travel rates and the risk of seawater intrusion.
- The number of critically dry rainfall years has greatly increased in the last 50 years compared to the prior 50 years of data. Critically dry years now exceed the number of “normal rainfall” years thus becoming the “new norm”.

These studies highlight the vulnerability of the Seaside Subbasin to seawater intrusion, and the need for replenishment water to raise groundwater levels within the Seaside Subbasin to prevent that from occurring.

The Watermaster considered performing additional analyses to reflect the impacts from more severe climatic conditions of reduced rainfall and longer periods of drought. However, it was concluded that such additional analyses would be unlikely to provide any further information that would be useful in Basin management. A Memorandum summarizing this work and the basis for not conducting additional analyses is contained in Attachment 10.

L. Conclusions and Recommendations

The Seaside Basin Watermaster Board has worked diligently to meet all of the Court's established deadline dates. All of the Phase 1 Scope of Work activities, which are described in the "Implementation Plan for the Seaside Basin Monitoring and Management Program" dated March 7, 2007, have been completed. The FY 2024 budgets contained in Attachment 6 support carrying out all elements of the 2024 Seaside Groundwater Basin Monitoring and Management Program (M&MP). The M&MP is contained in Attachment 8 and describes the activities that the Watermaster plans to conduct during Fiscal Year 2024.

As described in Section J above, information from the Enhanced Monitoring Well Network is being utilized to detect seawater intrusion. The response actions described in the Watermaster's Seawater Intrusion Response Plan, which was contained in the 2009 Annual Report, will be implemented if seawater intrusion is detected within the Basin.

As of the date of preparation of this 2023 Annual Report, no future status conferences with the Court have been scheduled.

LISTING OF ACRONYMS USED IN THIS ANNUAL REPORT

AF - acre-feet
ASR - Seaside Basin Aquifer Storage and Recovery program
Basin - The adjudicated Seaside Groundwater Basin
BLM - Bureau of Land Management
BMAP - Basin Management Action Plan
CASGEM - California Statewide Groundwater Elevation Monitoring
CAWC - California American Water Company
DDW - State Water Resources Control Board Division of Drinking Water
Decision - Decision filed February 9, 2007 by the Superior Court in Monterey County under Case No. M66343 - California American Water v. City of Seaside et al.
DWR - California State Department of Water Resources
GSA - Groundwater Sustainability Agency
GSP - Groundwater Sustainability Plan
LSSA - Laguna Seca Subarea
MIW - Monterey One Water (formerly Monterey Regional Water Pollution Control Agency)
MCWD - Marina Coast Water District
MCWDGSA - **Marina Coast Water District Groundwater Sustainability Agency**
MPWMD - Monterey Peninsula Water Management District
MPWSP - Monterey Peninsula Water Supply Project
M&MP - Monitoring and Management Program
NSY - Natural Safe Yield
PWM - Pure Water Monterey Project
PWMX - Pure Water Monterey Expansion Project
SGMA - Sustainable Groundwater Management Act
SIAR - Seawater Intrusion Analysis Report
SIRP - Seawater Intrusion Response Plan
SVBGSA - Salinas Valley Basin Groundwater Sustainability Agency
SWRCB - State Water Resources Control Board
TAC - Technical Advisory Committee
USGS - United States Geological Survey
WY - Water Year

SEASIDE GROUNDWATER BASIN WATERMASTER

Item IX.A

1/3/24

TO: Watermaster Board of Directors

FROM: Laura Paxton, Administrative Officer

DATE: January 3, 2024

SUBJECT: Options for in-person vs. hybrid board meetings

RECOMMENDATIONS:

It is recommended that the Board consider board meeting format options.

BACKGROUND:

At its September 6, 2023 regular meeting, the Board approved having the Watermaster’s Technical Advisory Committee hold its meetings virtually while complying with traditional Brown Act teleconferencing requirements, and defining Watermaster jurisdiction as within the bounds of areas represented by its board members, and directed staff to present options for conducting future board meetings in-person versus virtually. Staff presented options at the November 1, 2023 board meeting with six directors present and the chair and vice chair absent. The board chose to table the item until the next meeting when Monterey One Water technician fees for conducting virtual meetings are known and there is full board participation in the discussion.

DISCUSSION:

Virtual, or remote events are those in which everyone attends online. Staff noted that in general directors’ emphasis during the November 1, 2023 board meeting discussion was more on the importance of public participation and less on the ability of board members to attend virtually. Therefore, staff chose to present options between continuing to hold in-person meetings or changing format to hybrid meetings with a centralized in-person meeting held that has public virtual attendance capabilities. Original Brown Act teleconferencing rules however remain available to board members for virtual attendance under certain circumstances and requirements.

There have been many instances locally and throughout the state of a public member attending a government meeting virtually to voice offensive remarks. Webinar-based software (as opposed to open meeting software that Watermaster uses) is used by some agencies to control these instances by denying virtual audio/visual connection by attendees however it seems to me that this defeats the purpose of conducting virtual meetings for public participation. Counsel Hughes has assured that if such an incident occurs in person at a board meeting or virtually, the meeting can be shut down immediately.

The Monterey One Water board room has virtual capability however Watermaster would be charged \$86.14 per hour for a technician to operate the equipment during its meetings unless Watermaster purchases its own virtual meeting camera/audio device. Director Askew has offered the county district offices in Marina that are virtually capable to hold future Watermaster meetings: Though the offices are outside the bounds of the Seaside Basin, Watermaster has defined its jurisdiction as within the bounds of areas represented by its board members, and Legal Counsel Hughes found a case could be made that no one is harmed by meetings held there. The Seaside Health Clinic and the City of Seaside offices were both suggested as meeting places with virtual capability however no responses have been received to inquiries.

It is recommended that the Board consider what format it would like to proceed with when conducting future board meetings.

FISCAL IMPACT:

\$86.14/hour for continued use of Monterey One Water board room adding virtual technician

Approximately \$1,100 one-time cost of stand-alone virtual tower in lieu of technician

Approximately \$1,000/year Zoom Webinar software subscription if used

Possible attorney fees for litigation brought on claiming violation of free speech

ATTACHMENTS: None

D-R-A-F-T
MINUTES

**Seaside Groundwater Basin Watermaster
Technical Advisory Committee Meeting
December 13, 2023**

Attendees: TAC Members

City of Seaside – Nisha Patel
California American Water – Tim O’Halloran
City of Monterey – Cody Hennings
Laguna Seca Property Owners – No Representative
MPWMD – No Representative
MCWRA – Tamara Voss
City of Del Rey Oaks – Kim Shirley
City of Sand City – Leon Gomez
Coastal Subarea Landowners – No Representative

Watermaster

Administrative Officer – Laura Paxton

Consultants

Montgomery & Associates – Pascual Benito
Montgomery & Associates – Georgina King

Others

MCWD – Tobias Osbourn
SNG – Ed Ghandour

The meeting was convened at 1:30 p.m.

Ms. Voss Chaired the meeting as Mr. Lear was out of town and unable to attend. Ms. Paxton assisted Ms. Voss by conducting the roll call votes.

1. Public Comments

Mr. Ghandour said he was present for the item concerning the SNG well. There were no other public comments.

2. Administrative Matters:

A. Approve Minutes from the August 9, 2023 Meeting

On a motion by Ms. Shirley, seconded by Mr. O’Halloran, the minutes were unanimously approved as presented, with Ms. Voss, Ms. Patel, and Mr. Hennings abstaining as they were not present at that meeting.

B. Sustainable Groundwater Management Act (SGMA) Update

Ms. Voss provided Mr. Jaques' summary of the agenda packet materials for this item. Ms. Voss and Mr. O'Halloran said they appreciated having these summaries in the agenda packet.

C. Update on Damage to Sentinel Well No. 4

Ms. Voss provided Mr. Jaques' summary of the agenda packet materials for this item and there was no other discussion.

D. Results from Fall 2023 Induction Logging of the Sentinel Wells

Ms. Voss provided Mr. Jaques' summary of the agenda packet materials for this item. The hydrogeologic consultants felt that no action is required at this time, due to the small conductivity increases that have been observed.

There was a brief discussion regarding the Sentinel Wells in general. Mr. Voss commented that small conductivity increases have also been noted in some of the other Sentinel Wells as well as in Sentinel Well No. 4.

A motion was made by Mr. O'Halloran, seconded by Ms. Shirley, that the TAC concur with the consultants' finding that no action at this time is required. The motion passed unanimously.

E. Interpretation of Airborne Electromagnetic (AEM) Surveys Conducted by the Department of Water Resources as They Pertain to the Seaside Basin

Ms. Voss introduced this item. Mr. Benito of Montgomery & Associates provided a PowerPoint presentation describing the work that had been done and what information it provided regarding the Seaside Basin. A copy of those presentation slides is attached.

Limited data regarding seawater intrusion within the Seaside Basin was obtained from this work. However, it was shown that the top 150 feet all along the immediate shoreline of the Basin is intruded, as was previously assumed. New stratigraphy information within the Basin was provided by the surveys.

There was some discussion regarding possibly performing additional surveys within the Basin. Ms. King commented that such work is costly and there are limitations on where it can be performed. Ms. Voss noted that ground-truthing using data from existing wells is important to verify the results of the AEM surveys.

F. Update on SNG Well

Ms. Voss provided Mr. Jaques' summary of the agenda packet materials for this item. Mr. Ghandour provided historical information regarding this well and there was discussion about it. His recollection was that the well was perforated at a depth of approximately 160 feet. Ms. King noted that the other wells slightly further inland in this area are perforated at deeper depths and are not showing the higher chloride levels that the SNG well is.

Ms. Voss was in favor of seeing if legal efforts could be made to have the SNG well repaired or destroyed without having to await the resolution of the litigation that is currently in progress.

Mr. Ghandour reported that litigation among the partnership partners is currently in Court and under appeal. Recently an embezzlement litigation in Orange County has been initiated regarding the property. Some damage to the casing has been observed earlier via video inspection, but nothing has been done due to the limitations imposed by the Court. He asked if there was any data indicating the presence of seawater intrusion when no pumping is occurring, commenting that it was his understanding that no intrusion was being detected in nearby wells that are closer to the coastline. He was hopeful that some resolution to the litigation by the Orange County Court will occur in the next few months.

Ms. Voss commented that downward migration of seawater intruded water in wells having leaking casings has been observed in the Salinas Valley. Ms. Shirley felt it would be good to pursue legal efforts to have the well repaired or destroyed.

A motion was made by Ms. Shirley, seconded by Mr. Hennings, that the Board be asked to see if it is feasible to initiate legal action to have the Court direct that repairs be made to this well now, rather than waiting until the litigation between the well owners is resolved. The motion passed unanimously with Mr. Gomez abstaining.

3. Progress Report on FO-9 Replacement Well

Ms. Voss provided Mr. Jaques' summary of the agenda packet materials for this item and there was no other discussion.

4. Discuss and Provide Input on the 2023 Seawater Intrusion Analysis Report (SIAR)

Ms. Voss introduced this item and Ms. King of Montgomery & Associates provided a PowerPoint presentation describing the SIAR. A copy of those presentation slides is attached. The SIAR concluded that there was no evidence of seawater intrusion coming into the Seaside Basin. Groundwater levels in the Laguna Seca Subarea continue to decline as they have in prior years. It includes some discussion regarding the induction logging results from Sentinel Well No. 4. Native groundwater production from the Seaside Basin was considerably below the Decision-established Natural Safe Yield of 3,000 AFY, and considerably below the production level in 2022.

A motion was made by Mr. O'Halloran, seconded by Ms. Shirley, that the TAC approve the SIAR and that it be forwarded to the Board for its approval. The motion passed unanimously.

5. Discuss and Provide Input on the Preliminary Draft Watermaster 2023 Annual Report

Ms. Voss provided Mr. Jaques' summary of the agenda packet materials for this item. No edits to the Preliminary Draft 2023 Annual Report were requested or recommended by the TAC. A motion was made by Mr. Hennings, seconded by Ms. Patel, to approve the Preliminary Draft 2023 Annual Report as presented, and recommended that it be forwarded to the Board for its approval.

6. Approve Initial RFSs for Montgomery & Associates, MPWMD, Martin Feeney, and Todd Groundwater for 2024

Ms. Voss provided Mr. Jaques' summary of the agenda packet materials for this item. A motion was made by Mr. O'Halloran, seconded by Mr. Gomez, to approve the Initial RFSs for Montgomery & Associates, MPWMD, Martin Feeney, and Todd Groundwater for 2024, and that they be forwarded to the Board for its approval. The motion passed unanimously.

7. Schedule

Ms. Voss provided Mr. Jaques' summary of the agenda packet materials for this item. TAC members will be considering Mr. Jaques' proposed different approach to having the 2024 SIAR approved in order to avoid having to hold a December 2024 TAC meeting or a January 2025 Board meeting.

8. Other Business

There was no other business.

The meeting adjourned at 3:18 PM.

**SEASIDE GROUNDWATER BASIN WATERMASTER
REPLENISHMENT AD HOC COMMITTEE MEETING**

MINUTES

NOVEMBER 1, 2023 - 2:45 P.M.

Monterey One Water Board Room

5 Harris Court, Building “D”, Ryan Ranch, Monterey, CA

Absent: John Gaglioti

Others Present:

Laura Paxton – Watermaster Administrative Officer

Robert Jaques – Watermaster Technical Program Manager

Joe Hughes – Watermaster Legal Council (Virtually)

Wendy Root Askew – Monterey County/Monterey County Water Resources Agency

Yuri Anderson – Monterey County/Monterey County Water Resources Agency

Jon Lear – Monterey Peninsula Water Management District (MPWMD)

Maureen Hamilton – MPWMD

Ad Hoc Committee Members

Laguna Seca Subarea

Landowners

John Gaglioti - Facilitator

Monterey Peninsula Water

Management District

George Riley

California American Water

Chris Cook

City of Del Rey Oaks

Kim Shirley

Coastal Subarea Landowners

Paul Bruno

CALL TO ORDER/ROLL CALL: Meeting Facilitator – Director Paul Bruno called the meeting to order at 3:23pm.

PUBLIC COMMENT: None

MINUTES: Moved by Director Riley, seconded by Council Member Shirley, and unanimously carried 4-0 to approve the September 6, 2023 Replenishment Ad Hoc Committee meeting minutes.

DISCUSSION ITEM: Potential funding mechanism options for Replenishment Assessment Fund

Mr. Jaques noted the assessment method laid out in the Decision achieved its objective as required by 2022, reducing total annual production from the basin to the amount of basin natural annual recharge. However, the assessment method did not address how to replenish the groundwater deficit to a point of basin protection from seawater intrusion to remedy the severely over drafted condition of the basin prior to the 2007 Decision. Director Riley envisioned the assessment revenue being used to contribute to replenishment water planning, or to enhance an existing water supply project to generate surplus water for recharge, not to foot the entire cost of replenishment to bring the basin whole. There was general committee consensus that a surplus water supply for basin replenishment may be available in roughly three to five years.

Counsel Hughes explained his approach as 1) review of the Amended Decision and 2) applying his experience with other agencies that have developed recharge procurement methods. The Watermaster replenishment assessment-based fund established in the Decision generates very little revenue, far short of the revenue needed to acquire water needed for basin sustainability. He examined assessment alternatives and functional alternatives to the assessments.

Under the Decision, Watermaster is authorized to levy budget and replenishment assessments only. Watermaster does have the option to return to Court to address the shortcomings of the assessments, offering a solution such as developing a new assessment structure, or adding a third assessment “species.” However, increasing or adding assessments most likely would cause legal pushback by Watermaster parties.

A revenue generating method used by other agencies involves “passing the hat” to producers. Another method would be for MPWMD to use its authority to levy a groundwater replenishment charge on its constituency, building funds to purchase surplus water when it becomes available.

Functional alternatives in Counsel Hughes’s definition are programs with limited monetary exchange. For example, the Kern Water District two-for-one leave back groundwater banking project was developed by the small agency with limited funds whereby parties banking water leave 50% of what is banked. Counsel Hughes noted that in his experience a banking program guiding document is established, then long-term banking agreements are let under the master program document. Director Bruno suggested perhaps converting current storage agreements to de facto banking agreements by activating the clause in them that states naturally occurring losses of stored water could result in Watermaster reducing the percentage of stored water for extraction: the naturally occurring losses would need to be defined, the extraction percentages established, and the agreements amended accordingly. Director Cook cautioned regarding the leave back program: the Aquifer Storage and Recovery Project and PWM do not have the surplus water necessary to participate; he felt that if jurisdictions outside the area are interested in groundwater banking, then the program would be worth looking into.

Director Riley inquired whether Watermaster could pursue grants. Counsel Hughes responded that Watermaster collectively did not have the authority, however there was an option to draw up a Memorandum of Understanding (MOU) amongst the parties that establishes one of the Watermaster governmental parties as a grant applicant, and file the MOU with the court. Director Bruno inquired whether a non-profit agency governed by a board that mirrors the Watermaster board could be established to apply for grants and receive tax deductible contributions. Counsel Hughes recalled this maybe being done in other jurisdictions.

Mr. Jaques pointed out that the Pure Water Monterey (PWM) expansion project, once built, includes all the infrastructure needed to supply future demand, allowing surplus water above current demand to be produced during the initial years of the project: there was no need for Watermaster to pursue grant funding for another project to generate a surplus, only an understanding of the cost to generate surplus PWM water and a mechanism to purchase. In his research, Mr. Jaques found no such loan or grant funding available for purchasing replenishment water, only for constructing water supply projects.

In parallel with an analysis of water banking and grant options, Director Cook requested at least two defined options for collection fee methods be presented that have been used by others, particularly other Watermasters, as a revenue source.

The Committee concurred to have Counsel Hughes prepare written, in-depth analyses of the concepts discussed for presentation at a future Watermaster regular board meeting.

ADJOURNMENT – The meeting was adjourned at 4:10pm.

Next meeting TBD.

Respectfully submitted by Laura Paxton, Watermaster Board Secretary

SEASIDE GROUNDWATER BASIN WATERMASTER
Reported Quarterly and Annual Water Production From the Seaside Groundwater Basin
For All Producers Included in the Seaside Basin Adjudication -- Water Year 2023
 (All Values in Acre-Feet [AF])

	Type	Oct	Nov	Dec	Oct-Dec	Jan	Feb	Mar	Jan-Mar	Apr	May	Jun	Apr-Jun	Jul	Aug	Sep	Jul-Sep	Reported Total	Yield Allocation	from WY 2022	for WY 2023				
Coastal Subareas																									
CAW - Coastal Subareas	SPA	497.16	410.19	389.22	1,296.57	370.86	475.09	659.11	1,505.05	585.36	606.31	99.22	1,290.89	328.60	328.42	247.05	904.07	1,538.81	1,466.03	110.45	1,576.48				
Luzern		49.71	0.00	0.00	49.71	0.08	21.35	52.18	73.61	49.92	52.09	8.35	110.36	0.47	53.61	29.76	83.84	317.51							
Ord Grove		107.26	101.65	107.01	315.92	107.13	103.08	125.80	336.00	123.14	125.76	25.68	274.58	112.53	133.33	129.04	374.90	1,301.40							
Paralta		128.77	119.63	95.62	344.02	93.48	130.05	183.04	406.57	168.46	186.59	106.98	462.03	164.02	182.61	172.94	519.57	1,732.19							
Playa		32.86	32.92	33.50	99.28	33.69	30.01	31.91	95.60	31.54	32.73	1.04	65.31	1.07	30.85	32.92	64.85	325.04							
Plumas		27.64	26.92	27.46	82.03	27.60	24.67	26.76	79.04	23.50	26.82	0.85	51.17	1.06	26.76	25.15	52.97	265.20							
Santa Margarita		150.92	129.07	125.62	405.62	108.88	165.93	239.42	514.23	188.79	182.32	162.21	533.32	128.52	125.35	153.81	407.68	1,860.85							
ASR Recovery		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(205.88)	(205.88)	(79.08)	(224.09)	(296.56)	(599.73)	(805.62)							
PWM Recovery		(404.79)	(333.96)	(359.30)	(1,098.05)	(339.81)	(436.43)	(498.90)	(1,275.15)	(301.76)	0.00	0.00	(301.76)	(237.24)	(327.02)	(218.55)	(782.81)	(3,457.77)							
Seaside Municipal		15.26	11.75	10.85	37.86	11.05	13.22	10.07	34.34	12.54	14.66	14.00	41.20	16.25	15.92	12.90	45.06	158.46	120.28		120.28				
Inlieu Extraction					0.00				0.00				0.00	0.00	0.00	0.00	0.00	0.00							
Granite Rock Company	SPA	--	--	--	0.00	--	--	--	0.00	--	--	--	0.00	--	--	--	0.00	0.00	11.35	249.60	260.95				
DBO Development No. 30	SPA	--	--	--	0.00	--	--	--	0.00	--	--	--	0.00	--	--	--	0.00	0.00	20.59	447.12	467.71				
Calabrese (Cypress Pacific Inv.)	SPA	--	--	--	0.00	--	--	--	0.00	--	--	--	0.00	--	--	--	0.00	0.00	2.76	13.69	16.45				
City of Seaside (Golf Courses)	APA	41.260	0.00	0.00	41.26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	41.26	540.00		540.00				
Sand City	APA	0.16	0.14	0.06	0.36	0.07	0.18	0.00	0.25	0.06	0.14	0.08	0.28	0.10	0.16	0.05	0.31	1.20	9.00		9.00				
SNG (Security National Guaranty) / MLDC (Mountain Lake Dev. Corp.)	APA	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	0.00	90.00		90.00				
Calabrese (Cypress Pacific Inv.)	APA	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	0.00	59.00		59.00				
Mission Memorial (Alderwoods)	APA	3.72	1.21	0.45	5.38	0.78	0.36	0.25	1.40	0.82	1.71	1.85	4.39	3.04	4.83	3.28	11.16	22.32	31.00		31.00				
Coastal Subareas Totals					283.38				265.89				1,035.00				177.78	1,762.05	2,356.01	820.86	3,176.87				
Laguna Seca Subarea																									
CAW - Laguna Seca Subarea	SPA	12.42	10.03	8.35	30.79				0.00	0.00	0.00	0.00	0.00				0.00	30.79	0.00		0.00				
Ryan Ranch Unit		05/21/21: Ryan Ranch Wells #7, #8, and #11 physically disconnected from the distribution system.																							
Hidden Hills Unit		12.42	10.03	8.35	30.79	7.82	6.93	7.47	22.22	8.66	11.26	13.96	33.88	14.65	13.83	13.29	41.77	128.67							
Bishop Unit 1		05/27/21: Bishop Wells #1 and #3 physically disconnected from the distribution system.																							
Bishop Unit 3		The Monterey Main to Ryan Ranch & Bishop Interline was opened on 12/08/20																							
Bishop Unit 7		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	0.00	0.00	0.00	0.00	0.00		0.00				
The Club at Pasadera	APA	19.00	0.00	0.00	19.00	0.00	0.00	0.00	0.00	0.00	31.00	20.00	51.00	20.00	39.00	41.00	100.00	170.00	251.00		251.00				
Laguna Seca Golf Resort (Bishop)	APA	20.00	5.17	0.00	25.17	0.00	0.00	0.00	0.00	6.12	15.96	29.18	51.26	36.19	39.65	20.78	96.63	173.06	320.00		320.00				
York School	APA	1.40	0.12	0.02	1.54	0.01	0.00	0.00	0.01	1.25	1.33	2.48	5.07	2.12	1.64	2.10	5.87	12.49	32.00		32.00				
Laguna Seca County Park	APA	1.17	1.14	0.15	2.46	0.47	0.25	0.84	1.56	2.85	3.63	1.98	8.46	5.16	4.72	1.94	11.82	24.30	41.00		41.00				
Laguna Seca Subarea Totals					78.96				1.58				115.79				214.31	410.64	644.00	0.00	644.00				
Total Production by WM Producers					362.34				267.46				1,150.79				392.10	2,172.69	3,000.01	820.86	3,820.87				
										Annual Production from APA Producers								444.62						1,379.00	
										Annual Production from SPA Producers								1,728.07							2,441.87

CAW / MPWMD ASR (Carmel River Basin source water)																		Previous Balance	Total	
Injection	0.00	0.00	37.49	37.49	244.16	323.50	299.63	867.29	344.76	406.89	0.00	751.64	0.00	0.00	0.00	0.00	1,656.42			
(Recovery)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	(205.88)	(205.88)	(79.08)	(224.09)	(296.56)	(599.73)	(805.61)			
Net ASR	0.00	0.00	37.49	37.49	244.16	323.50	299.63	867.29	344.76	406.89	(205.88)	545.76	0.00	0.00	0.00	0.00	850.80	872.10	1,722.90	
Pure Water Monterey (PWM) Injection and Cal-Am Recovery																		Previous Balance	Total	
Balance Forward																				
Injection Operating Reserve	1,164.52	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	0.00	705.60	705.60	1,870.12		
Injection Drought Reserve	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	0.00	0.00	0.00	0.00	0.00		
Delivery to Basin	349.81	333.96	397.41	1,081.18	423.25	379.74	434.04	1,237.03	311.01	303.12	350.42	964.54	237.24	327.02	218.55	782.81	4,065.57			
CAW Extraction	(404.79)	(333.96)	(359.30)	(1,098.05)	(339.81)	(436.43)	(498.90)	(1,275.14)	(301.76)	0.00	0.00	(301.76)	(237.24)	(327.02)	(218.55)	(782.81)	(3,457.76)			
																	607.81	228.64	836.45	
Balance Forward																				
City of Seaside Golf Course Recycled Water Use/Municipal Potable Water Recovery 2,361AF Max																		Previous Balance	Total	
In-lieu Storage/Recycled Water Use	0.00	0.00	0.00	0.00	0.00	10.54	0.66	11.20	34.22	83.29	66.54	184.05	68.47	64.02	37.28	169.77	365.03			
City of Seaside Municipal Extraction	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	0.00	0.00	0.00	0.00	0.00		
Net In-lieu					0.00			11.20	34.22	83.29	66.54	184.05	68.47	64.02	37.28	169.77	365.03	0.00	365.03	

Notes:

- The Water Year (WY) begins October 1 and ends September 30 of the following calendar year. For example, WY 2023 begins on October 1, 2022, and ends on September 30, 2023.
- "Type" refers to water right as described in Seaside Basin Adjudication decision as amended, signed February 9, 2007 (Monterey County Superior Court Case No. M66343).
- Values shown in the table are based on reports to the Watermaster received by October 15, 2023.
- All values are rounded to the nearest hundredth of an acre-foot. Where required, reported data were converted to acre-feet utilizing the relationships: 325,851 gallons = 43,560 cubic feet = 1 acre-foot.
- "Base Operating Yield Allocation" values are based on Seaside Basin Adjudication decision. These values are consistent with the Watermaster Producer Allocations Water Year 2023 (see Item IX.B. in 12/7/2022 Board packet).
- Any minor discrepancies in totals are attributable to rounding.
- APA = Alternative Producer Allocation; SPA = Standard Producer Allocation; CAW = California American Water.
- It should be noted that CAW/MPWMD ASR "Injection" and "Recovery" amounts are not expected to "balance" within each Water Year. This is due to the injection recovery "rules" that are part of SWRCB water rights permits and/or separate agreements with state and federal resources agencies that are associated with the water rights permits.
- Cal-Am Toro Well #3 Destroyed 09/30/21

WATERMASTER PRODUCER ALLOCATIONS WATER YEAR 2023 IN ACRE-FEET (AF)

TRIENNIEL REDUCTION FINAL END OF WATER YEAR 2021 TO 3,000 AFY

Initial Basin-Wide Operating Yield⁽¹⁾	3000.00	Coastal Operating Yield. ⁽¹⁾	2356.00
Natural Safe Yield (NSY)⁽²⁾	3000.00	Laguna Seca Operating Yield. ⁽¹⁾	644.00

ALTERNATIVE PRODUCER ALLOCATIONS				ALTERNATIVE PRODUCER AMOUNT PUMPED WY 2023				Total Alternative Producer WY 2023 Production
Coastal Subarea ⁽³⁾	AF	Laguna Seca Subarea ⁽³⁾	AF	Coastal Subarea ⁽³⁾	AF	Laguna Seca Subarea ⁽³⁾	AF	
Seaside (Golf)	540.00	Nicklaus Club Monterey	251.00	Seaside (Golf)	41.26	The Club at Pasadera	170.00	
SNG	149.00	Bishop	320.00	SNG	0.00	Bishop	173.06	
Calabrese	6.00	York School	32.00	Calabrese	0.00	York School	12.49	
Mission Memorial (Alderwood)	31.00	Laguna Seca County Park	41.00	Mission Memorial (Alderwood)	22.32	Laguna Seca County Park	24.30	
Sand City	9.00			Sand City	1.20			
Total⁽⁴⁾	735.00	Total⁽⁴⁾	644.00	Total⁽⁴⁾	64.78	Total⁽⁴⁾	379.85	444.62

STANDARD PRODUCER ALLOCATIONS							
Coastal Operating Yield Available to Standard Producers (AF)			1621.00	Laguna Seca Operating Yield Available to Standard Producers (AF)			0.00
Coastal Subarea	Standard Producer Allocations		AF Available to This Producer	Laguna Seca Subarea	Standard Producer Allocations		AF Available to This Producer
	Base Water Right %⁽⁴⁾	Weighted % ⁽⁵⁾			Base Water Right % ⁽⁴⁾	Weighted % ⁽⁵⁾	
California American Water (CAW)	77.55%	90.44%	1,466.03	CAW	45.13%	100.00%	0.00
Seaside (Municipal)	6.36%	7.42%	120.28				
Granite Rock	0.60%	0.70%	11.35				
D.B.O. Development No. 30	1.09%	1.27%	20.59				
Calabrese (Cypress Pacific Investors LLC)	0.15%	0.17%	2.76				
Total	85.75%	100.0%	1,621.00	Total	45.13%	100.0%	0.00

Allocation of Available Operating Yield Among Standard Producers	Base Water Right Available to this Producer (AF)	% NSY to SPA (Base Water Right / Total Water Right)	NSY Available to Producers (AF) Current Water Year	Carryover Credits from Prior Water Year	Water Rights Transferred / Sold DBO to CAW 710 Amador (0.16) DBO to CAW 2 Upper Ragsdale (2.15)	Water Rights Transferred / Sold Calabrese to CAW Ryan Ranch CHOME	Total Authorized Production Current WY (Base Water Right + APA non-production⁽⁷⁾ + Carryover⁽⁸⁾)	Actual AF Pumped by Producer in WY 2023	Carryover⁽⁸⁾ Credits to WY 2024	Stored Water Credits to WY 2024
			WY 2023 APA Pumped 444.62 AF							
		NSY 3000 - 444.62 AF = 2555.38								
California American Water	1,466.03	90.44%	2,311.07	7.00	2.31	3.17	2,323.55	1,569.61	753.95	2,559.35
Seaside (Municipal)	120.28	7.42%	189.61	0.00	0.00	0.00	189.61	158.46	31.15	365.03
Granite Rock	11.35	0.70%	17.89	249.61	0.00	0.00	267.49	0.00	267.49	0.00
D.B.O. Development No. 30	20.59	1.27%	32.46	449.42	(2.31)	0.00	479.57	0.00	479.57	0.00
Calabrese (Cypress Pacific Investors LLC)	2.76	0.17%	4.35	16.86	0.00	(3.17)	18.04	0.00	18.04	0.00
Total	1,621.01	100.00%	2,555.38	722.89	0.00	0.00	3,278.27	1,728.07	1,550.20	2,924.38

Footnotes:
 (1) From page 17 of Exhibit A (Amended Decision) of Court Order filed February 9, 2007.
 (2) From page 14 of Exhibit A (Amended Decision) of Court Order filed February 9, 2007.
 (3) From page 21 of Exhibit A (Amended Decision) of Court Order filed February 9, 2007.
 (4) From Table 1 on page 19 of Exhibit A (Amended Decision) of Court Order filed February 9, 2007.
 (5) Calculated from the Base Water Right percentages in the adjacent column. Any discrepancy in totals is due to rounding.
 (6) Base Water Right plus Free and Not Free Carryover Credit = 2019 Production Allocation no longer capped due to increase in storage allocation (see 2020 Declaration of Usable Storage Space)
 (7) Commencing Water Year 2021 Natural Safe Yield = Operating Yield of 3,000AF. Therefore, the remainder of 3,000AF - APA production is applied to both NSY & OY Standard Producer allocations
 Note: Calabrese (Cypress Pacific Investors LLC) opted to convert 8AF of its 14AF Alternative Production Allocation to Standard Production Allocation on January 22, 2015 (notice filed by Cypress with Superior Court).
 Producers carryover is capped at their storage capacity.
 (8) "Free" and "Not-free" carryover was a function of ramp down in production; now that rampdown is complete and NSY = Operating Yield, carryover is no longer divided into "Free and Not-free" (NSY and Operating Yield) carryover.

**SEASIDE BASIN WATER MASTER
TECHNICAL ADVISORY COMMITTEE**

***** AGENDA TRANSMITTAL FORM *****

MEETING DATE:	December 13, 2023
AGENDA ITEM:	2.C
AGENDA TITLE:	Update on Damage to Sentinel Well No. 4
PREPARED BY:	Robert Jaques, Technical Program Manager
SUMMARY:	<p>The damage previously reported consisted of having the monitoring well vault cover ripped off, and the plug on the top of the casing, from which the datalogger is suspended, falling into the well.</p> <p>Maggiore Brothers well drilling contractor was hired by Monterey Peninsula Engineers to retrieve the well plug and they were successful I doing that on August 22, 2023. The datalogger was still attached to the plug so it, too, was retrieved. MPWMD staff reported that the datalogger appeared to still be in satisfactory condition, and it was reinstalled in the well.</p> <p>To ensure that no debris or other material had fallen into the well, Newman Well Surveys was hired by Monterey Peninsula Engineers to video inspect the full depth of the well. That work was done on October 4, 2023 and the video shows that the well is free of debris over its entire depth. Attached is a copy of the video survey report. We were also provided a video of the inspection itself.</p>
ATTACHMENTS:	None
RECOMMENDED ACTION:	None required – information only

SUMMARY OF
PURE WATER MONTEREY, AND
SALINAS VALLEY AND
MARINA COAST WATER DISTRICT GROUNDWATER
SUSTAINABILITY AGENCY ZOOM MEETINGS
IN AUGUST 2023

Note: This is a synopsis of information from these meetings that may be of interest to the Seaside Basin Watermaster

SVBGSA Advisory Committee Meeting August 17, 2023:

Due to a mix-up resulting in a failure to properly notice this meeting, the Advisory Committee could not hold its meeting. However the PowerPoint presentations on two of the items on today's agenda were made. The next regularly scheduled meeting date would be October 19, but the Chair of the Committee suggested having a Special Meeting sooner to enable today's agenda items to be discussed and potentially acted upon.

A presentation on Agenda item 2.a, pertaining to Extraction Barrier Planning in the United Water Conservation District in Ventura County, was made. Mr. John Lindquist from that organization made the presentation with the aid of PowerPoint slides. They are doing planning work to develop a seawater extraction barrier since they are experiencing some seawater intrusion in their basin. The concept they are using is similar to the one being proposed as a project in the 180/400-Foot Aquifer Subbasin in the Salinas Valley Basin.

Mr. Lindquist reported that their aquifers daylight on the ocean floor, some as close as about ¼ mile offshore. They are getting some grant funds to help with the planning, and hopefully also with the design and construction, of the first phase of this project.

They estimate the construction cost of the first phase facilities to be in the \$30 million-\$50 million range. This would be for a 3,500 acre-foot-per-year sized project.

The United Water Conservation District collects extraction fees from all water users who pump out of the basin, and these fees fund the activities of the District. Mr. Lindquist commented in response to a question that this fee could potentially be increased to pay the cost of building the seawater extraction barrier.

They are currently getting about 50% of their costs for their work on their projects funded through grants. They have applied for grants to hopefully cover the design and construction phase of this project.

A presentation on Agenda item 4.a, pertaining to the Seawater Extraction Barrier Feasibility Study for the 180/400-Foot Aquifer Subbasin, was made. Some of the presentation was made by Ms. Hardgrave and some by representatives of Carollo Engineers who are conducting the study. The goals and objectives are to (1) Evaluate whether the extraction barrier project could effectively achieve Groundwater Sustainability Plan goals to halt seawater intrusion in the

180/400-Foot Aquifer Subbasin, (2) to estimate costs and benefits of potential projects to be able to compare them to other options, and (3) to lay out a roadmap of next steps for the technical, permitting, CEQA, and funding potential for implementation.

There is a 16-month long schedule to complete the study, with the final report expected to be received in September 2024. Defining end users of desalinated water that could come for this project is a task that is currently in progress. I intend to send a letter to formally state the Watermaster's request that some of the water produced from the extraction barrier's desalination plant be provided to the Seaside Groundwater Basin to help replenishment and protect the Seaside Basin against seawater intrusion.

Monterey Subbasin Implementation Committee Meeting August 23, 2023:

Activities at this meeting included a review of the various feasibility studies that are in progress. These are:

- Seawater Intrusion Extraction Barrier Feasibility Study. (See my notes from the August 17 Advisory Committee meeting about this Study). I commented requesting that the Seaside Groundwater Basin be included as a potential end-user of water that could be produced by the desalination plant component of this project. Sarah Hardgrave reported that they are starting a survey of urban water suppliers to determine their interest in getting desalinated water. Some questions were raised by committee members about whether the water could be provided to California American Water since California American Water delivers water outside of the Salinas Valley Groundwater Basin. Ms. Hardgrave pointed out that the Seaside Groundwater Basin is one of the subbasins included within the greater Salinas Valley Groundwater Basin even though it did not have to prepare a Groundwater Sustainability Plan (GSP) because it is adjudicated.
- Demand Management Feasibility Study. This is being developed initially just for the 180/400-Foot Aquifer Subbasin. Demand management in the Monterey Subbasin may be a different approach. Most subbasins' GSPs include demand management as a potential action. It was mentioned that there are numerous means of accomplishing demand management.
- ASR Feasibility Study. This would involve diverting water at the Salinas River Diversion Facility and storing some of it in the 180/400-Foot Aquifer Subbasin to maintain groundwater levels, address seawater intrusion, and provide source water to the CSIP.
- There will be a feasibility study summary report prepared that will cover all three of these studies.

There was also discussion of the Corral de Tierra Management Area's Annual Work Plan. The components of that Plan include:

- Data Expansion & SGMA Compliance
 - Develop Well Registration Program
 - Expand Groundwater Extraction Monitoring
 - Modeling Preparation: Refine Hydraulic Conceptual Model
 - Verify Groundwater Dependent Ecosystems (GDEs)
 - Manage Data/Annual Reports
 - Maintain Groundwater Models

- Interested Parties Coordination and Outreach
 - Meetings
 - Coordination with partner agencies and implementation actions
 - Groundwater Technical Advisory Committee and technical support
- Projects and Management Actions
 - Central Coast Ag Irrigation Efficiency Website
 - Assess Demand Management
 - Assess Groundwater Benefits of Salinas River Stream Maintenance Programs
 - Conduct Deep Aquifer Study

SUMMARY OF
PURE WATER MONTEREY, AND
SALINAS VALLEY AND
MARINA COAST WATER DISTRICT GROUNDWATER
SUSTAINABILITY AGENCY ZOOM MEETINGS
IN SEPTEMBER 2023

Note: This is a synopsis of information from these meetings that may be of interest to the Seaside Basin Watermaster

SVBGSA Advisory Committee Special Meeting September 19, 2023:

Due to a mix-up resulting in a failure to properly notice this meeting, the Advisory Committee could not hold its meeting in August, but the PowerPoint presentations on two of the items on that meeting's agenda were made. The Chair of the Committee suggested having a Special Meeting to enable the August meeting's agenda items to be discussed and potentially acted upon.

At the September 19th Special Meeting:

- Mr. Lindquist of the United Water Conservation District in Ventura County recapped his August presentation on his District's planning work to construct a seawater intrusion extraction barrier and responded to questions from the Advisory Committee members.
- The Carollo Engineers consultant recapped her August presentation on the Seawater Extraction Barrier Feasibility Study for the 180/400-Foot Aquifer Subbasin, and responded to questions from the Advisory Committee members. In this discussion Ms. Hardgrave said that other projects such as the Cal Am Desalination Plant, the Pure Water Monterey Project, a possible desalination plant being considered by the Marina Coast water District, and other such projects would be included in the scope of the study. Also, other water-involved entities in and adjacent to the area of the study would also be considered in the scope of the study. Several persons expressed concerns about how the cost of such a project would be paid for and the impacts on pumpers.
- There was discussion of the Demand Management Study which has recently been started. The SVBGSA has hired a mediator/facilitator consultant to guide them in developing a Demand Management policy. He introduced himself to the Committee and provided background on his work experience. He has worked with numerous water agencies on a variety of issues including demand management issues. He pointed out that this is likely to be a contentious topic. Some members expressed opposition to having a single demand management policy for all subbasins. They felt it would be better to have demand management addressed on an individual subbasin basis. It sounds like this will be a lengthy process for the SVBGSA Board to work its way through. The facilitator said he plans to have the Advisory Committee heavily involved in the process.

Monterey Peninsula Water Operations Meeting September 27 23, 2023:

This meeting takes the place of the previous Pure Water Monterey Water Quality and Operations meetings and is hosted by MPWMD. Topics discussed included:

- ASR annual injection during Water Year 2023 was 1,656 acre-feet. This is the second highest injection rate in the history of the ASR program.
- 2,250 acre-feet of ASR stored water is now in the Seaside Groundwater Basin.
- Groundwater mounding at the ASR injection Wells #1 and #2 slows movement of the Pure Water Monterey injected water toward the Cal Am and City of Seaside production wells that are located to the west. This increases the travel time from the Pure Water Monterey injection wells to the production wells.
- The regulatory-required 4 month minimum travel time between Pure Water Monterey injection and the Paralta well is being exceeded, i.e. the tracer-measured travel times are well over four months.
- Though advanced water purification facility water quality problems were reported.
- The pure water Monterey expansion Project initial construction contracts have been awarded and notice to proceed has been given.
- The division of drinking water permit has been received for ASR number four.
- Regarding new Extraction Wells #1 and #2, a test well is going to be drilled in October. Regarding new Extraction Wells #3 and #4, Cal Am is working with the Army on this, but expects that it will take quite a while to complete the discussions with them.
- The next meeting of this committee is now scheduled for January 2024.

SUMMARY OF
PURE WATER MONTEREY, AND
SALINAS VALLEY AND
MARINA COAST WATER DISTRICT GROUNDWATER
SUSTAINABILITY AGENCY ZOOM MEETINGS
IN OCTOBER 2023

Note: This is a synopsis of information from these meetings that may be of interest to the Seaside Basin Watermaster

180/400 Foot Aquifer Subbasin GSP Implementation Committee Meeting, October 5, 2023:

At this meeting items discussed included presentations on the development of the SVBGSA's Seawater Intrusion Model and the Seasonal Reservoir Releases with Aquifer Storage and Recovery Feasibility Study. The Seawater Intrusion Model presentation was similar to the one made at an earlier meeting and to one that was given to the Watermaster TAC at its August 9, 2023 meeting. The Watermaster TAC meeting presentation is discussed elsewhere in the minutes from that meeting.

The Seasonal Reservoir Releases with Aquifer Storage and Recovery Feasibility Study is being undertaken to determine whether constructing facilities to capture water that is released from the Nacimiento and San Antonio reservoirs can be an effective means of mitigating seawater intrusion in the 180/400-Foot Aquifer Subbasin and increase the reliability of water supply to the Castroville Seawater Intrusion Project (CSIP). Attached are copies of the PowerPoint slides used in the presentation.

During the presentation numerous questions were raised and answered by the consultant, Abby Ostovar of Montgomery & Associates and Sarah Hardgrave of the SVBGSA staff. Several of the Committee members were very familiar with groundwater issues in this subbasin and had personal experience with their own wells located therein. Some of the more pointed questions included:

- If this study is directed at the 180/400-Foot Aquifer Subbasin, why should other subbasins be asked to share in the costs of the study?
- How would the ASR facilities be paid for?
- Will the environmental impacts be manageable?
- With so many challenges facing such a project (e.g. permit issues, environmental issues, etc.) is it worth spending money on this study at this point in time?