

MEETING NOTICE AND AGENDA
TECHNICAL ADVISORY COMMITTEE
OF THE
SEASIDE BASIN WATER MASTER

DATE: Wednesday, January 8, 2020
MEETING TIME: 1:30 p.m.
Monterey One Water Offices
5 Harris Court, Building D (Ryan Ranch)
Monterey, CA 93940

If you wish to participate in the meeting from a remote location, please call in on the Watermaster Conference Line by dialing (515) 604-9094. Use the Meeting ID 355890617. Please note that if no telephone attendees have joined the meeting by 10 minutes after its start, the conference call will be ended.

OFFICERS

Chairperson: Jon Lear, MPWMD
Vice-Chairperson: Tamara Voss, MCWRA

MEMBERS

California American Water Company	City of Del Rey Oaks	City of Monterey
City of Sand City	City of Seaside	Coastal Subarea Landowners
Laguna Seca Property Owners	Monterey Peninsula Water Management District	Monterey County Water Resources Agency

<u>Agenda Item</u>	<u>Page No.</u>
1. Public Comments	
2. Administrative Matters:	
A. Approve Minutes from the November 20, 2019 Meeting	2
B. Sustainable Groundwater Management Act (SGMA) Update	14
C. Continued Discussion Regarding Seeking Grant Assistance for Projects	15
3. Request from Cal Am for Discussion of Several Topics Pertaining to Proposed Moratorium of New/Expanded Service in the Laguna Seca Subarea	19
4. Draft Agreement for In-Lieu Storage and Recovery Agreement with the City of Seaside	33
5. Schedule	45
6. Other Business	48

The next regular meeting will be held on Wednesday February 12, 2020 at 1:30 p.m. at the M1W Board Room.

**SEASIDE BASIN WATER MASTER
TECHNICAL ADVISORY COMMITTEE**

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

MEETING DATE:	January 8, 2020
AGENDA ITEM:	2.A
AGENDA TITLE:	Approve Minutes from the November 20, 2019 Meeting
PREPARED BY:	Robert Jaques, Technical Program Manager
SUMMARY:	<p>Draft Minutes from this meeting was emailed to all TAC members. Any changes requested by TAC members have been included in the attached version.</p>
ATTACHMENTS:	Minutes from this meeting
RECOMMENDED ACTION:	Approve the minutes

D-R-A-F-T
MINUTES

**Seaside Groundwater Basin Watermaster
Technical Advisory Committee Meeting
November 20, 2019**

Attendees: TAC Members

City of Seaside – Scott Ottmar (via telephone)
California American Water – Tim O’Halloran
City of Monterey – Tom Harty
Laguna Seca Property Owners – Wes Leith
MPWMD – Jon Lear
MCWRA – Tamara Voss
City of Del Rey Oaks – John Gaglioti
City of Sand City – Leon Gomez (via telephone)
Coastal Subarea Landowners – No Representative

Watermaster

Technical Program Manager - Robert Jaques

Consultants

None

Others

MCWD – Patrick Breen
M1W – Allison Imamura, Mike McCullough

The meeting was convened at 1:33 p.m.

1. Public Comments

There were no public comments.

2. Administrative Matters:

A. Approve Minutes from the September 11, 2019 Meeting

On a motion by Ms. Voss, seconded by Mr. O’Halloran, the minutes were unanimously approved as presented.

B. Results from Martin Feeney’s September 2019 Induction Logging of the Sentinel Wells

Mr. Jaques summarized the agenda packet materials for this item.

Mr. Gaglioti to asked if this information would be included in the analysis in the Seawater Intrusion Analysis Report, and Mr. Jaques responded that it would be.

C. Sustainable Groundwater Management Act (SGMA) Update

Mr. Jaques summarized the agenda packet materials for this item.

Mr. Gaglioti asked whether a Ground Water Sustainability Plan could be approved by the Department of Water Resources even if there were overlapping jurisdictions claiming authority for the same territory. Mr. Lear and Ms. Voss said it was their understanding that only one GSP could

be approved for that territory, and that this would be only on the condition that there were no unresolved issues between the jurisdictions claiming overlapping authority.

D. Information Regarding Seeking Grant Assistance for Projects

Mr. Jaques summarized the agenda packet materials for this item

Mr. Gaglioti asked if MPWMD could apply for funding under the grant program. Mr. Lear said he believed that MPWMD could apply on behalf of the Watermaster if there was a project for which the Watermaster wished to seek grant funding.

Mr. Jaques noted that the Department of Water Resources response indicated that Adjudicated Basins could not receive grant funding.

E. Discuss Whether or Not to Include Pure Water Monterey Monitoring Wells in the List of Wells that are Monitored in the Watermaster's Monitoring and Management Program

Mr. Jaques summarized the agenda packet materials for this item.

Mr. Lear reported that monitoring well number MW-7 had not been constructed but monitoring well number M-4 had been constructed. The figure included in the agenda packet needs to reflect this correction.

Mr. Lear also reported that the monitoring wells are currently being monitored by MPWMD under an agreement they have with M1W. He said that dataloggers have already been installed in these wells. Both water level and water quality data are already being collected. After normal Pure Water Monterey project operations commence, the dataloggers will provide continuous water level data and quarterly water quality samples will be collected for analysis.

Mr. Gaglioti asked how the Watermaster gets its monitoring data. Mr. Lear responded that the data MPWMD collects for its own monitoring wells, and the data that MPWMD collects for additional wells under its agreement with the Watermaster, provides the data the Watermaster's consultants use for preparation of the Seawater Intrusion Analysis Report. This data is in an Access database and the consultants get the data in that form.

Mr. Lear said the wells could be added to the list of monitoring wells in the Watermaster's Monitoring and Management Program without additional cost to the Watermaster.

Ms. Voss said she concurred with Ms. King's opinion that water quality data from these monitoring wells would not be helpful.

Mr. Lear reported that water levels change very rapidly when injection occurs, and said he felt that water level data from these monitoring wells would confound things because they are not static water levels but are water levels taken under injection conditions.

Mr. Jaques asked the M1W representatives when they anticipated normal operation of the Pure Water Monterey project would begin. The indicated it should be by the end of December or in early January.

Mr. Jaques will request from Mr. Lear that data from those two monitoring wells be added to the data currently being collected under the Monitoring and Management Program.

F. Pure Water Monterey Project Draft Supplemental EIR

Mr. Jaques summarized the agenda packet materials for this item. There was no other discussion.

G. Vacancy in the Chairperson Position

Mr. Jaques summarized the agenda packet materials for this item.

Mr. Lear asked for thoughts and discussion from the TAC.

After a brief discussion Mr. Lear said he would offer to serve as the Chairperson.

Mr. O'Halloran was asked if he would be willing to serve as the Vice Chairperson and he said that he would, but noted that he is new to the TAC.

Ms. Voss said she would offer to serve as the Vice Chairperson since she has been involved with the TAC for some time.

Mr. Lear asked for a vote on appointing Mr. Lear as the Chairperson and Ms. Voss as the Vice Chairperson of the TAC. All TAC members voted in favor of this.

3. Update on Geochemical Modeling for the Pure Water Monterey Project AWT Water

Mr. Jaques summarized the agenda packet materials for this item.

Ms. Voss asked which wells the cuttings used in the geochemical analysis came from. Mr. Lear responded that Mark monitoring well number one was only used for a leaching analysis but was not used for the geochemical modeling. Other cuttings were used.

Mr. Gaglioti asked several questions of Mr. Lear about the cuttings and how they were analyzed. Mr. Lear explained that cuttings were taken from areas where there were high levels of heavy metals, and that these cuttings were exposed to the injection water to see if any leaching would occur. He noted that the Pueblo Water Resources analysis concluded that the PWM AWT water will not cause leaching if the quality of that water is kept within the range of parameters set by the Division of Drinking Water's Operating Report for the PWM AWT water.

Mr. Lear responded to Ms. Voss's questions about the aquifers covered by the geochemical testing and the upcoming tracer testing, which Mr. Lear reported has already been started and will continue after injection starts.

Mr. Jaques asked if the TAC would be interested in a presentation on the tracer study that will be conducted in the near future. Several TAC members responded that they would be interested, and Mr. Jaques said he would contact M1W to arrange such a presentation.

4. Discuss and Provide Input on the Draft 2019 Seawater Intrusion Analysis Report (SIAR)

Mr. Jaques introduced this topic and Ms. King of Montgomery and Associates made a presentation with the aid of Power Point slides, a copy of which is attached hereto.

During her presentation Ms. King pointed out that multiple methods or "lines of evidence" were used in the analysis to look for signs of potential seawater intrusion.

Only one well, FO – 9 Shallow, showed a change of potential significance, but its Piper and Stiff diagrams did not indicate the presence of seawater intrusion.

Referring to the sodium/chloride ratio slide, Mr. Gaglioti said it looked like all data was above the 0.86 level. Ms. King responded that he was correct, and that there is only concern if the level falls to 0.86 or below.

Since the deep aquifer is far below mean sea level in some areas, Mr. Gaglioti asked if the aquifer was at risk of seawater intrusion. Ms. King responded in the affirmative, but noted that thus far seawater intrusion has not been detected. She went on to explain that Protective Water Levels have to be a little above mean sea level to cause a positive gradient in the offshore direction. Mr. Jaques commented that Protective Water Levels are discussed in more detail in the Basin Management Action Plan Update.

Ms. King reported that the Seaside Groundwater Basin has not recovered from the drought several years ago, whereas some other basins, such as those in the Santa Cruz area, have shown some recovery.

Mr. Gaglioti asked whether more production wells could be put into the eastern part of the Laguna Seca Subarea to create a barrier against water flowing out of that subarea to the east. Ms. King and Mr. Lear described the Watermaster's plans with regard to interfacing with the Salinas Valley Basin Groundwater Sustainability Agency's Groundwater Sustainability Plan (GSP) for the Monterey Subbasin which includes the area to the east of the Laguna Seca Subarea. They noted that the GSP for the Monterey Subbasin will have to show that it is not adversely impacting adjacent basins, such as the Adjudicated Seaside Basin. There was much discussion on this general topic.

Ms. King said that she would be including an additional recommendation to the effect that, if well FO – 9's chloride level in the spring of 2020 sampling event is found to be greater than last year's value of 80 mg/l, monitoring of that well should be increased in frequency to quarterly.

Mr. Gaglioti commended Ms. King on the SIAR being thorough. He felt, however, that a brief review of it could leave the reader with the impression that since seawater intrusion has not yet been detected, that there is no problem. He went on the note that since groundwater levels are so far below mean sea level in some parts of the basin, there is significant concern of seawater intrusion occurring at some time in the future.

In response to Mr. Gaglioti's concern, Mr. Jaques asked Ms. King to add a paragraph in the body of the SIAR highlighting that risk, and including in the Conclusions section of the SIAR that it is not "if" but "when" seawater intrusion will occur in the Seaside Basin aquifers if groundwater levels are not brought up to Protective Water Levels. Mr. Gagliardi said he felt this would be helpful in highlighting that risk to the Board members.

Ms. Voss noted there is very little data between the area shown in orange on one of the slides (which represents the location developed by MCWRA for the 500 mg/L chloride line, and the northerly part of the Seaside Basin. She said she would like to find out from MCWD if they have monitoring or production wells in that area, and whether data from those wells could be provided for use by the Watermaster's consultants in preparing future SIARs. There was some question as to whether the increase in chloride in the FO – 9 well might be coming from that direction. Ms. Voss went on to note that MCWRA has jurisdiction over the entire County, so it could pursue getting data from those wells if there are any inexistence in that area. Mr. Jaques said he would contact MCWD to seek information on this.

Mr. Gaglioti suggested changing the order of the bulleted items in the Conclusions section to make the first bullet be one describing the risk of seawater intrusion.

Ms. Voss pointed out a typo graphical error in Section 2.6.1.1 on page 42 of the SIAR, and Ms. King said she would correct that. Ms. King reported she was also making some other clarifying types of edits.

Mr. Gaglioti made a motion, seconded by Mr. O'Halloran, to approve the SIAR and to forward it to the Board for their approval. The motion carried unanimously.

5. Discuss and Provide Input on the Preliminary Draft Watermaster 2019 Annual Report

Mr. Jaques said that in the interest of saving time, rather than going through the Preliminary Draft Annual Report he would be happy to instead simply respond to questions from TAC members on that document.

The TAC had no questions to ask about the Preliminary Draft Annual Report.

A motion was made by Ms. Voss, seconded by Mr. Gaglioti, to approve the Preliminary Draft Annual Report as presented, and the motion carried unanimously.

6. Schedule

Mr. Jaques commented that there would be no need for a December TAC meeting, and that the TAC's next meeting would be on January 8, 2020. There was no other discussion.

7. Other Business

There was no other business.

The meeting adjourned at 3:36 p.m.


SEASIDE GROUNDWATER BASIN

2019

SEAWATER INTRUSION

ANALYSIS REPORT

Presented to the Seaside Basin Technical Advisory Committee
November 20, 2019



MONTGOMERY & ASSOCIATES

1

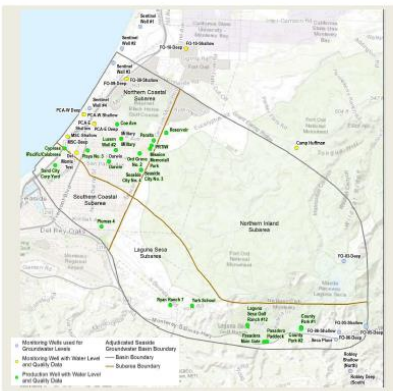
SIAR ANALYSIS

- Chloride Distribution and Na/Cl Molar Ratio
- Cation/Anions – Piper and Stiff Diagrams
- Electric Induction Logs
- Groundwater Elevations
- Protective Groundwater Elevations
- Groundwater Production



MONTGOMERY & ASSOCIATES

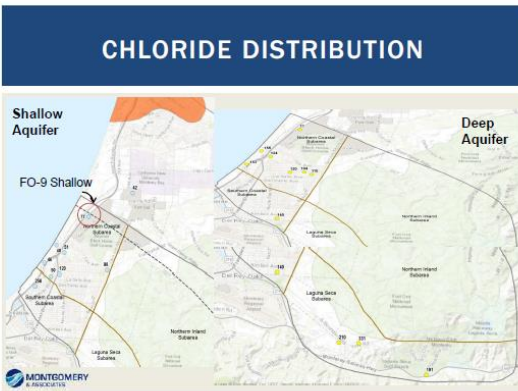
2



WELL DATA INCLUDED IN SIAR

3


CHLORIDE DISTRIBUTION



Shallow Aquifer

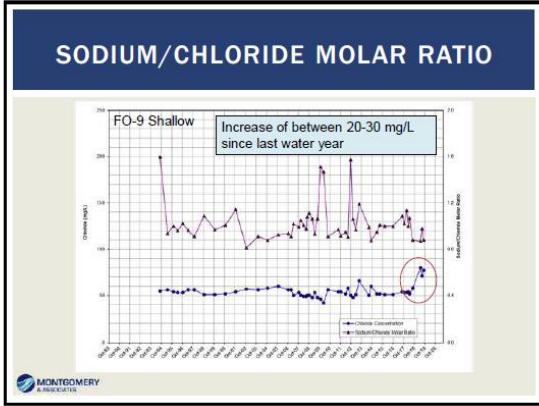
Deep Aquifer

FO-9 Shallow

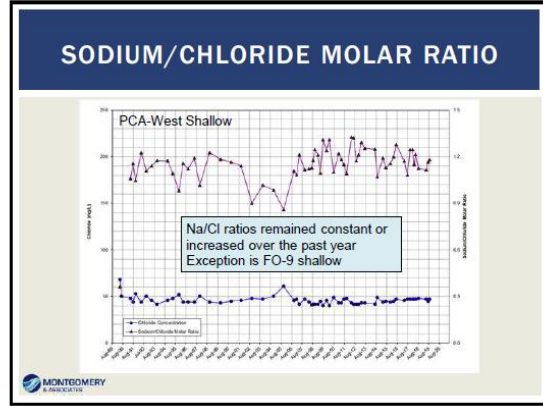


MONTGOMERY & ASSOCIATES

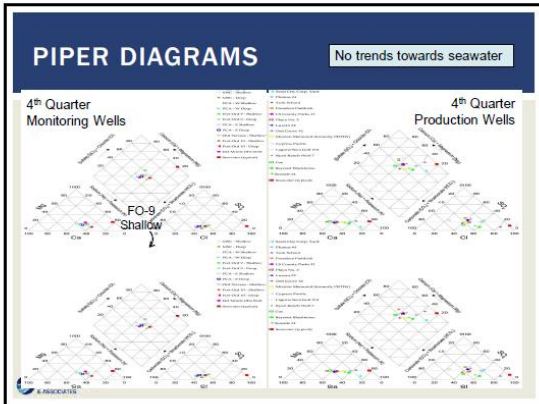
4



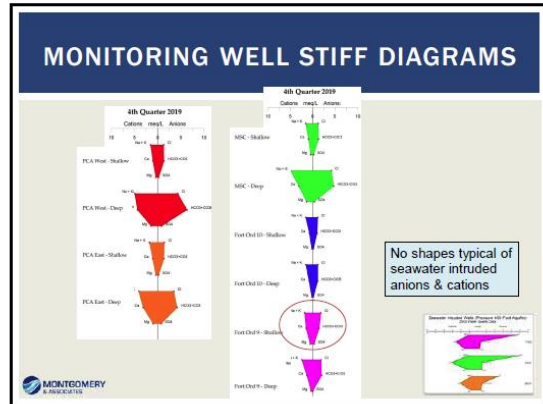
5



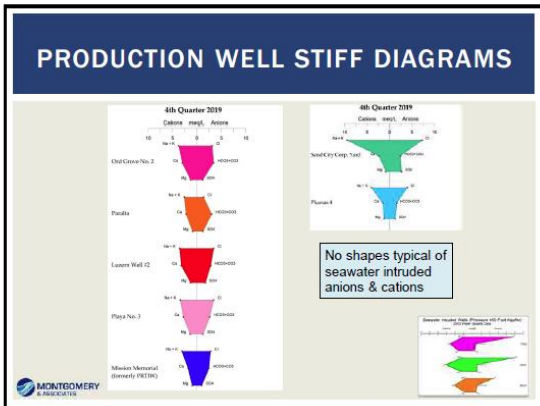
6



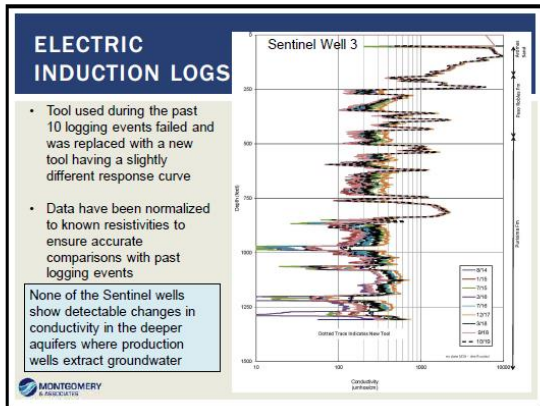
7



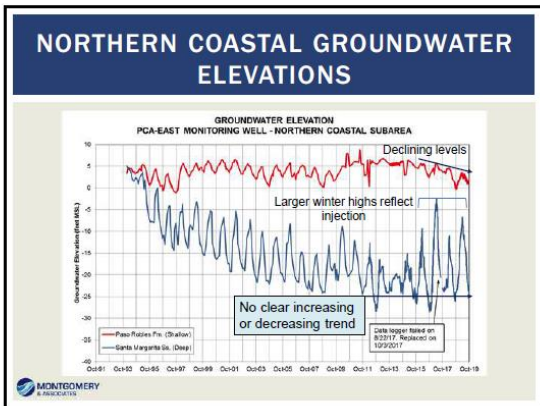
8



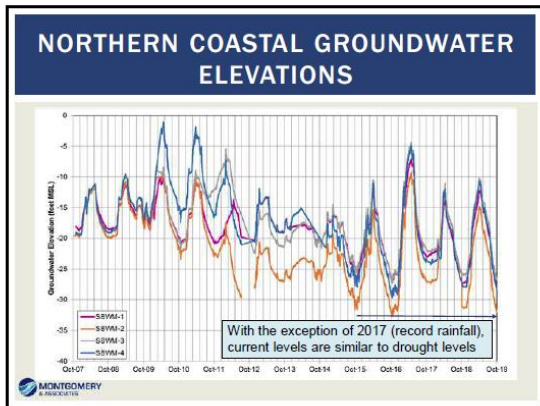
9



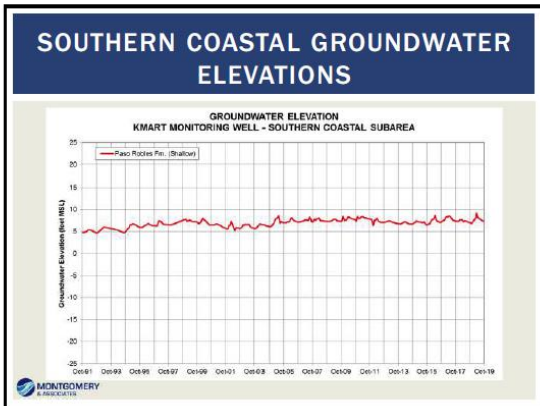
10



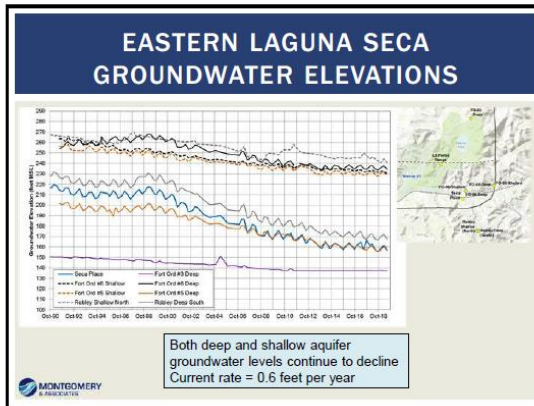
11



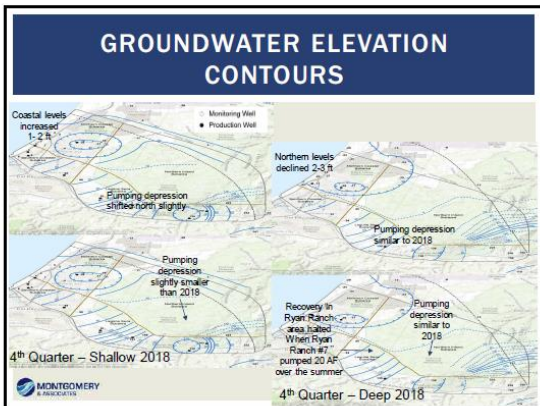
12



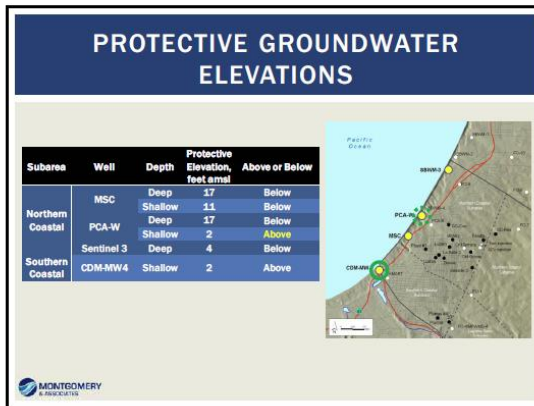
13



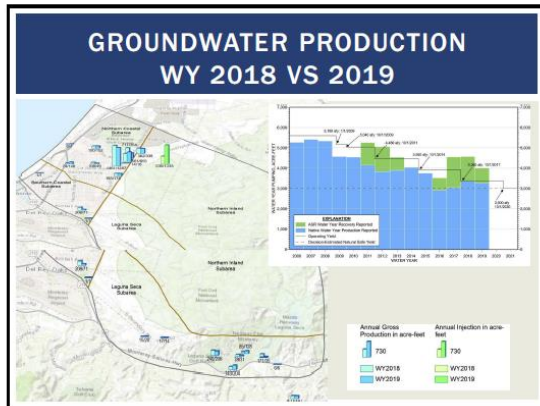
14



15



16




17

CONCLUSIONS

Analyses indicating seawater intrusion is NOT occurring:

- No groundwater chemistry changes towards seawater in either shallow or deep groundwater
- Overall, chloride concentration trends were stable for most monitoring wells, only one well had an increase greater than 10 mg/L
 - FO-9 shallow has a sustained increase of 20-30 mg/L over last years concentrations
- Sodium/chloride molar ratios in the monitoring wells remained constant or increased over the past year
- Induction logging data at the coastal Sentinel Wells do not show large changes over time that are indicative of seawater intrusion




18

CONCLUSIONS

Conditions in the basin that continue to provide a potential for seawater intrusion:


- All deep groundwater in the Northern Coastal subarea is below sea level
 - 2nd quarter (winter/spring) > 12 feet below sea level
 - 4th quarter (summer/fall) > 25 feet below sea level
- Groundwater levels remain below protective elevations in all deep target monitoring wells
- One of the three shallow wells' groundwater levels are below protective elevations



19

CONCLUSIONS


- There is still ongoing groundwater level declines in the Laguna Seca subarea of around 0.6 feet per year
- Native groundwater production in the Seaside Groundwater Basin for Water Year 2019 was 3,269.2 acre-feet:
 - 94 acre-feet less than Water Year 2018
 - 91 acre-feet less than the Decision-ordered Operating Yield of 3,360 acre-feet per year that is required between October 1, 2017 and September 30, 2020



20


RECOMMENDATIONS

1. For FO-9 shallow, quality results from to be reviewed after each sampling event to identify if the recent increases are part of natural fluctuations or an ongoing increasing trend
2. Continue to Analyze and Report on Water Quality Annually
3. Include Data from New Monitoring Wells Installed as Part of Pure Water Monterey



21

QUESTIONS?



22

**SEASIDE BASIN WATER MASTER
TECHNICAL ADVISORY COMMITTEE**

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

MEETING DATE:	January 8, 2020
AGENDA ITEM:	2.B
AGENDA TITLE:	Sustainable Groundwater Management Act (SGMA) Update
PREPARED BY:	Robert Jaques, Technical Program Manager

At the State level:

Since my last update, I have not received any new materials from the State that would impact the Watermaster.

At the Monterey County level:

As reported in the December 12, 2019 edition of the *Monterey Herald*:

“The Board of Supervisors agreed at its December 11, 2019 meeting to form a County Groundwater Sustainability Agency (GSA) for the Cemex sand mining plant site.

By a 4-1 vote, the County Board decided to form the agency specifically for the Cemex parcel (approximately 450-acres in size) within Marina city limits that has been claimed by both the Salinas Valley Basin and Marina city GSAs.

After notifying the state Department of Water Resources of its intention to form the groundwater agency, County staff has indicated it will return to the Board later with an agreement for the County to cooperate with the Salinas Valley Basin GSA to develop and implement a groundwater sustainability plan (GSP) for the Cemex site and to allow the Salinas Valley Basin GSA to manage groundwater there.

County officials argued the move was necessary to avoid the prospect that the disputed Cemex site, and perhaps by extension the entire critically overdrafted Salinas Valley basin’s 180/400-foot aquifer, could formally be declared unmanaged and probationary by state Department of Water Resources officials and be subject to a pumping ban.

Marina city manager Layne Long called the county’s action a “hostile takeover” of the Marina city groundwater agency. He argued that Salinas Valley Basin agency officials refused to negotiate and warned the city would do “everything necessary” to protect its interests.”

At its December 12, 2019 meeting the Salinas Valley Basin GSA Board adopted a final GSP for the 180/400-foot aquifer, including the Cemex parcel, and also adopted a coordination agreement with the Monterey County GSA that would be required should the County petition to be the exclusive GSA for this parcel.

ATTACHMENTS:	None
RECOMMENDED ACTION:	None required – information only

**SEASIDE BASIN WATER MASTER
TECHNICAL ADVISORY COMMITTEE**

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

MEETING DATE:	January 8, 2020
AGENDA ITEM:	2.C
AGENDA TITLE:	Continued Discussion Regarding Seeking Grant Assistance for Projects
PREPARED BY:	Robert Jaques, Technical Program Manager

SUMMARY:

At the TAC's November 20, 2019 meeting there was an agenda item pertaining to the potential for the Watermaster to obtain State funds for assistance in implementing projects such as purchasing water for the purpose of recharging the Seaside Basin. Based on the response from DWR on this question it did not appear that the Watermaster could be the recipient of such funding, because DWR stated that adjudicated basins could not receive such funds. A copy of the email information included with that agenda item is attached for reference.

This topic was briefly discussed at the Watermaster Board's December 5, 2019 meeting and Board members expressed an interest in pursuing the issue of funding. Specifically, they wanted to know if such funding could be obtained on the Watermaster's behalf by MPWMD. At that meeting Mr. Lear of MPWMD indicated he felt MPWMD could seek such funding, if there were a suitable project that could be submitted in a funding request (application).

Subsequent to the Board's December 5 meeting I contacted Kelley L. List, a Senior Engineering Geologist who is DWR's contact person for the Sustainable Groundwater Management Grant Program (SGWMGP) to seek her guidance on how funding for projects to help replenish the Seaside Basin could be obtained. She explained that the SGWMGP is intended only to assist Groundwater Sustainability Agencies (GSAs) in preparing and carrying out their Groundwater Sustainability Plans (GSPs) and that Proposition 68 which is the source of funds for these grants specifically excludes adjudicated basins from receiving grants. Excerpts from the Grant Proposal Solicitation Package (PSP) are attached and make it clear that no SGWMGP funds can be used for projects within the adjudicated portions of groundwater basins.

Ms. List also pointed out that to be eligible to receive an SGWMGP grant the applicant must be a GSA, a member agency of a GSA, or a member agency of an approved Alternate to a GSP for the basin for which the application is submitted. Neither the Watermaster nor MPWMD meet this application requirement and thus could not apply for a grant under this program. She also said that the application deadline for Planning Grants under the SGWMGP has already passed, and that the PSP for Implementation Grants is now not expected to come out until late 2021 or early 2022.

She said that there are other grant programs under Propositions 1 and 68 that might be opportunities for the Watermaster to receive financial assistance for a recharge project, since those programs do not exclude adjudicated basins. I believe she was referring to the 2019 Integrated Regional Water Management Grant Program that DWR is using to implement the Proposition 1 (The Water Quality, Supply, and Infrastructure Improvement Act of 2014) IRWM Implementation Grant Program. She said that seawater intrusion is considered an eligible condition to qualify as a cleanup project under

**SEASIDE BASIN WATER MASTER
TECHNICAL ADVISORY COMMITTEE**

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

AGENDA ITEM:

2.C (Continued)

those programs, and that in order to submit an application the project would have to go through the local Integrated Regional Water Management (IRWM) organization.

I will investigate these other grant programs and provide further information to the TAC at a future meeting.

ATTACHMENTS:

1. Email Information from November 20, 2019 TAC Meeting Agenda Packet
2. Excerpt language from SGWMGP Proposal Solicitation Package

**RECOMMENDED
ACTION:**

None required – information only

Attachment 1

Email Information from November 20, 2019 TAC Meeting Agenda Packet

Question Posed: *I am the Technical Program Manager for the Seaside Basin Watermaster, for the Adjudicated Seaside Groundwater Basin in Monterey County. I am exploring ways that the Watermaster can obtain funds to help purchase water that can be used to recharge the Basin in order to raise groundwater levels to “protective levels” i.e. above seawater level, in order to prevent seawater intrusion.*

In the description of the types of projects that are eligible to apply for funding under the Sustainable Groundwater Management (SGM) Grant Program for Planning and Implementation, it appears that an Adjudicated Basin project that would recharge an overdrafted basin could be eligible, per the language in the Guidelines which state: “GWMP Compliance – The applicant and the project proponent responsible, if different, must meet one of the following conditions (Water Code § 10753.7 (b)(1)): Conform to the requirements of an adjudication of water rights in the subject groundwater basin.”

Please advise if this is correct.

DWR Response: *The largest problem here would be who is applying for the funding. To be eligible to receive the Prop 68 Sustainable Groundwater Management funding, the applicant has to be a Groundwater Sustainability Agency (GSA), member agency of a GSA, or an agency that has an approved Alternative to a Groundwater Sustainability Plan (GSP) requiring an update. In this situation, you would need to partner with the GSA to apply for a grant on behalf of the Watermaster. Adjudicated groundwater basins are also not eligible. Therefore, the project would have to benefit a non-adjudicated groundwater basin for us to be able to fund the project.*

It is possible, in this case, the project housed within an adjudicated groundwater basin that is helping to benefit a COD (Critically Over Drafted) basin could be eligible. There would need to be a direct benefit to the COD basin. Seawater intrusion is a water quality issue and those types of activities can all be eligible.

It is just who is going to apply and who is going to benefit. The other issue is the project must be consistent with the applicant’s GSP. Getting past the ineligible applicant and ineligible groundwater basin is going to be difficult.

Attachment 2

Excerpt language from SGWMGP Proposal Solicitation Package (PSP)

(Note: Boldface italics added to highlight wording associated with adjudicated basins)

Eligible Project Types

Eligible projects must benefit basins or *a non-adjudicated portion of basins* that are designated by DWR as high and medium priority basins, or COD basins, by the latest SGMA Basin Prioritization. Eligible projects include those activities associated with the development or implementation of a GSP(s) that will comply with and meet DWR requirements and GSP regulations. Projects must support groundwater sustainability planning and management within medium and high priority basins and should assist in the development and implementation of a GSP(s) in reaching sustainability. Eligible project activities must be consistent with the purpose of Proposition 68, Chapter 11.6. Activities within the proposed project should also be consistent with the SGMA Guidance Documents located here:

<https://water.ca.gov/Programs/Groundwater-Management/SGMA-GroundwaterManagement/Best-Management-Practices-and-Guidance-Documents>. Projects that are in basins determined to be probationary under SGMA by State Water Resources Control Board (SWRCB) are not eligible for this grant program. The project area and service area must be within a DWR Bulletin 118 basin *or a non-adjudicated portion of a basin* that are designated by DWR as high and medium priority basins, including COD basins, by the latest SGMA Basin Prioritization. Please check the links provided in the Foreword for additional information on Bulletin 118, Basin Prioritization, CODs, and GSA Formation.

There is a *Table 4-Grant Application Checklist* in the PSP, and in that table there is a tab titled “*Questions*” which states “*The answers to these questions will be used in processing the application and determining eligibility and completeness.*” One of the questions is: Does the proposal include any of the following activities:

- The potential to adversely impact a wild and scenic river or any river afforded protection under the California or Federal Wild and Scenic Rivers Act
- Acquisition of land through eminent domain
- Design, construction, operation, mitigation, or maintenance of Delta conveyance facilities
- Acquisition of water except for projects that will provide fisheries or ecosystem benefits or improvements that are greater than required currently applicable environmental mitigation measures or compliance obligations
- Pay any share of the costs of remediation recovered from parties responsible for the contamination of a groundwater storage aquifer
- *Projects or groundwater planning activities associated with adjudicated groundwater basins.*

This tab goes on to state that if the answer is “yes” to any of these questions, the project is not eligible to receive grant funding.

**SEASIDE BASIN WATER MASTER
TECHNICAL ADVISORY COMMITTEE**

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

MEETING DATE:	January 8, 2020
AGENDA ITEM:	3
AGENDA TITLE:	Request from Cal Am for Discussion of Several Topics Pertaining to Proposed Moratorium of New/Expanded Service in the Laguna Seca Subarea
PREPARED BY:	Robert Jaques, Technical Program Manager
SUMMARY:	
<p>Cal Am has requested that this item be placed before the TAC for its review and input. A copy of their request, which was sent by email is contained in <u>Attachment 1</u>.</p> <p>I have reviewed pertinent reports and documents with Laura Paxton, the Watermaster's Administrative Officer (she prepares the Replenishment Assessment calculations each year), and we have provided our comments in <u>Attachment 2</u>. The Adjudication Decision's numerical anomalies that are referred to in <u>Attachment 2</u> are discussed in <u>Attachment 3</u>.</p> <p>In summary:</p> <ul style="list-style-type: none"> • I believe Cal Am's request involves some issues of interpretation of the Decision, as well as some technical issues. I believe that the TAC should weigh-in on the technical issues and defer to the Board on issues involving interpretation of the Decision. • The technical issues pertain to what impacts, if any, will result from deferring until the fall of 2020 Cal Am's cessation of LSSA pumping, with the exception of the well(s) it uses to serve its Hidden Hills Unit. Cal Am's request states that by that date they anticipate putting into operation their planned intertie to serve most of their LSSA customers from their Main System. • As my comments discuss, I do not see any near-term adverse impacts associated with Cal Am's request, and therefore do not see any reason to object to it from a technical basis. <p>The TAC is invited to discuss Cal Am's request and provide direction to the Technical Program Manager on what recommendations it would like to make to the Board on this matter.</p>	
ATTACHMENTS:	<ol style="list-style-type: none"> 1. Cal Am's request 2. Technical Program Manager's and Administrative Officer's comments 3. Excerpts from a March 18, 2019 Memorandum discussing the anomalies in the Adjudication Decision and how they were addressed by the Watermaster when calculating pumping ramp-down water allocations to Producers
RECOMMENDED ACTION:	Provide direction to the Technical Program Manager on what recommendations the TAC would like to make to the Board on this matter

Attachment 1

Concurrence that California American Water Plan to Avoid Moratorium Is Consistent with the Amended Decision and Would Not Harm the Basin

California American Water filed an application with the Public Utilities Commission (PUC) for imposition of a moratorium in its Laguna Seca Subarea on new or expanded water service connections because its allocation for the Laguna Seca sub-basin is currently zero (0) acre feet per year. California American Water’s Laguna Seca Subarea consists of the Ryan Ranch, Bishop and Hidden Hills service areas. California American Water requests concurrence from the Watermaster that the following plan, based on input from Monterey Peninsula Water Management District, to avoid imposition of a moratorium at this time is reasonable and consistent with the adjudication.

1. In a normal year with Aquifer Storage and Recovery water available, California American Water will pump groundwater from the Coastal Subbasin and deliver that groundwater for use in the Laguna Seca Subbasin, consistent with Section III.M.3.a., pp. 42-43 of the 2007 Amended Decision. Specifically, once the Main System/Ryan Ranch intertie project is complete in Fall 2020, California American Water will supply the Ryan Ranch and Bishop service areas with water produced from the Coastal Subarea of the Basin, consistent with California American Water’s allocation for the Coastal Subarea.

2. Cal Am will use its Standard Production and Carryover from its Laguna Seca Subbasin allocation to meet or offset its Hidden Hills pumping. In the PUC moratorium proceeding, the Monterey Peninsula Water Management District recognized that California American Water is entitled to unproduced Alternative Production originating in the Laguna Seca Subarea, and may use that water to meet or offset California American Water’s Laguna Seca pumping. The following table, based on Watermaster Annual Reports, was supplied in the Monterey Peninsula Water Management District’s testimony:

Table 4
Carryover Originating in Laguna Seca Subarea (AF)

	2016	2017	2018
Nicklaus Club Monterey	139.43	96.00	108.00
Laguna Seca Golf Ranch	96.18	126.52	80.13
York High School	18.11	18.48	15.17
Laguna Seca County Park	24.06	24.78	19.04
Total	277.78	265.78	222.34

California American Water requests concurrence from the Watermaster that the above plan, at this time, is consistent with the Amended Decision and will not harm the Basin because while California American Water’s initial annual allocation is at zero, (1) California American Water may pump groundwater from the Coastal Subbasin and deliver that groundwater for use in the Laguna Seca Subbasin, and (2) there is sufficient

unproduced Alternative Production in the Laguna Seca subbasin for California American Water to meet or offset its Hidden Hills pumping.

Cathy Hongola-Baptista
Director Corporate Counsel
California-American Water Company
555 Montgomery, Suite 816
San Francisco, CA 94111
T: 415-293-3023
C: 415-940-0326
cathy.hongola-baptista@amwater.com

Attachment 2

Technical Program Manager's and Administrative Officer's Comments

The Adjudication Decision (Decision) makes no mention of moratoriums. California American Water (CAW) imposing a moratorium on Laguna Seca Subarea (LSSA) wells is not inconsistent with the Decision, and in so doing would be at the sole discretion of CAW.

The Decision specifies allocation quantities for producers in the Coastal Subareas (Northern and Southern) and the LSSA. However annual replenishment assessments and carryover are not calculated on a subarea-by-subarea basis, but basin-wide as established by the court and legal counsels at the inception of the Watermaster in 2006. This means that CAW is allowed by the Decision to over pump its Operating Safe Yield (OSY) allocation basin-wide, subject to a Replenishment Assessment, with no differentiation as to production in the LSSA versus the other subareas.

The terms “unproduced alternative production” and “carryover” are not the same. Percentages specified in the Decision are applied to unproduced alternative production at the end of each Water Year (WY) and added to each Standard Producer’s allocation. Therefore, unproduced alternative production does not equate directly to carryover. Moreover, unproduced alternative production does not equate to carryover at all if the Standard Producer has over-pumped beyond the sum of its unproduced alternative production allocation and its Standard Production allocation during the WY. Hence, in CAW’s Request, the Attachment 1 Table 4 title should read *Unproduced Alternative Production Originating in Laguna Seca Subarea* (instead of *Carryover Originating in Laguna Seca Subarea*). Demand and drought (availability of ASR water from the Carmel River) are two obvious determining variables for carryover available each year. CAW has had years with carryover available, and years without.

Aquifer Storage and Recovery (ASR) entails diversion of “excess” Carmel River winter flows, as allowed by state and federal resource agencies, only when it is plentiful. Diverted water is treated and then stored in the over-pumped Seaside Basin in wet periods. Water is then pumped back out from the Seaside Basin in dry periods to help reduce pumping-related impacts on the Carmel River. Although storage of non-native water in the Seaside Basin is allowed and encouraged by the Decision, amounts of ASR water diverted/recovered have no bearing on Decision production allocations (unproduced or overproduced), carryover, or basin recharge since the water is transitory and not a physical solution to the over-drafted basin condition. (There is however a decrease in CAW basin production reportable to Watermaster equivalent to ASR water used.)

The Production Spreadsheet for WY 2019 (attached hereto) that is contained in Attachment 1 to the 2019 Watermaster Annual Report shows that in WY 2019 CAW pumped a total of 297.67 AF of water from the LSSA to serve its Ryan Ranch, Hidden Hills, and Bishop units.

A planned intertie of the CAW Main System to serve its Ryan Ranch and Bishop units is projected by CAW to become operational in the fall of 2020. Once this intertie becomes operational, the amount of CAW pumping in the LSSA will decrease considerably. If this had occurred in WY 2019 the pumping reduction would have been from approximately 298 AF to 119 AF, a reduction of 179 AF. If in 2020 Cal Am pumps approximately the same amount as it pumped in WY 2019 for its Hidden Hills Unit (which apparently will be the only remaining CAW Unit being served by well(s) in the LSSA after the intertie is completed), then it would only be pumping on the order of 119 AF from the LSSA. 119 AF would represent only 16% of the total water pumped from the LSSA in WY 2019.

The Replenishment Assessment Spreadsheet contained in Attachment 5 to the 2019 Watermaster Annual Report (attached hereto) shows that CAW has 130.75 acre-feet (AF) of “Not Free Carryover Credits” for

WY 2020.¹ If the intertie is not completed in time to allow much of CAW's LSSA demand to be served from its Main System, this may not be enough to cover the estimated 298 AF of pumping from the LSSA in WY 2020. However, it would be enough to cover the estimated production of the Hidden Hills Unit alone.

The modeling report prepared for the Watermaster by HydroMetrics, dated July 28, 2014, found that if CAW ceased all of its LSSA pumping, groundwater levels in the western portion of the LSSA would stabilize, but that levels would continue to slowly fall in the central and eastern portions of the LSSA. That report found that if CAW had ceased all of its LSSA pumping in 2009, it would have taken over 30 years before water levels would drop far enough to fall below the top of the well screens in any of the LSSA wells. No subsequent modeling has been performed to project what the impacts would be if CAW ceased pumping all except its Hidden Hills Unit well(s) in 2020. The 2019 Seawater Intrusion Analysis Report (SIAR) reported that: "Groundwater levels in the eastern LSSA have historically declined at rates of 0.6 feet per year in the shallow aquifers, and up to four feet per year in the deep aquifers. These declines have occurred since 2001, despite triennial reductions in allowable pumping. The cause of the declines is due in part to the Natural Safe Yield of the subarea being too high and in part due to the influence of wells to the east of the Seaside Basin. Although there was some stabilization in groundwater levels between Water Years 2014 and 2016, groundwater levels are continuing to decline. The rate of decline now, however, is less than 0.6 feet per year."

Based on this information, it does not appear that CAW delaying its cessation of LSSA pumping for another year (until the fall of 2020) will pose any risk of "Material Injury" as defined in the Decision, and will not adversely impact production from any of the LSSA wells.

Related to CAW plans to serve the LSSA from its Main System (including its wells in the Northern Coastal Subarea of the Basin), we have these observations:

- Serving the LSSA from wells that do not pump from the LSSA will have some benefit to the LSSA in terms of helping to stabilize, or slow the decline in, groundwater levels there.
- The Northern Coastal Subarea already has a significant groundwater depression around the large production wells there. If CAW proposes to serve the LSSA by increasing pumping from its Northern Coastal Subarea wells, that condition would be exacerbated.
- If CAW plans to make up for the loss of LSSA pumping from other supply sources then this is not a concern.

¹ "Not Free Carryover" is the amount granted by the Decision, albeit subject to a Replenishment Assessment and therefore "Not Free," that a Standard Producer under-produces its Operating Safe Yield (OSY) allocation. To determine Replenishment Assessments charged to Standard Producers, OSY is determined after each WY taking into account a percentage of the amount Alternative Producers under-produce their allocations and adding that amount to the base allocation granted each Standard Producer by the Decision. Base allocations have decreased in three-year increments since Watermaster inception in 2006 and will ultimately be reduced to equal the basin-wide Natural Safe Yield of 3,000AF/year beginning October 1, 2020.

PRODUCTION SPREADSHEET

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 2019
 (All Values in Acre-Feet [AF])

	Type	Oct	Nov	Dec	Oct-Dec 18	Jan	Feb	Mar	Jan-Mar 19	Apr	May	Jun	Apr-Jun 19	Jul	Aug	Sep	Jul-Sep 19	Reported Total	Yield Allocation	from WY 2018	for WY 2019	
Coastal Subareas																						
CAW - Coastal Subareas	SPA	340.23	291.75	161.71	793.69	145.42	133.68	144.34	423.43	137.61	113.80	123.03	374.44	216.74	13.22	1.03	230.99	1,822.55	1,791.62	453.87	2,245.49	
Lucern		1.25	4.51	0.00	5.76	0.00	4.57	0.00	4.57	0.00	0.00	8.96	8.96	29.38	0.00	0.00	29.38	48.67				
Ord Grove		123.91	118.28	118.81	361.00	116.84	103.82	113.35	334.01	105.62	105.95	98.48	310.05	98.87	94.41	89.26	282.54	1,287.60				
Paralta		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	55.13	154.19	147.09	356.41	356.41				
Playa		0.00	1.97	32.07	34.04	8.91	0.00	13.80	22.71	31.99	7.85	7.82	47.65	32.05	11.84	0.00	43.90	148.30				
Plumas		0.05	0.00	0.00	0.05	19.67	25.28	17.19	62.14	0.00	0.00	7.77	7.77	1.31	0.00	0.02	1.33	71.29				
Santa Margarita		215.02	166.99	10.83	392.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	117.26	144.55	261.81	654.65				
ASR Recovery															-364.47	-379.89						
City of Seaside (Municipal)	SPA	15.74	14.59	11.76	42.09	6.74	17.24	14.15	38.13	13.97	15.68	15.59	45.24	17.28	18.20	17.46	52.94	178.40	146.99	0.00	146.99	
Granite Rock Company	SPA	--	--	--	0.00	--	--	--	0.00	--	--	--	0.00	--	--	--	0.00	0.00	13.87	221.99	235.86	
DBO Development No. 30	SPA	--	--	--	0.00	--	--	--	0.00	--	--	--	0.00	--	--	--	0.00	0.00	25.16	403.96	429.12	
Calabrese (Cypress Pacific Inv.)	SPA	--	--	--	0.00	--	--	--	0.00	--	--	--	0.00	--	--	--	0.00	0.00	3.37	16.09	19.46	
City of Seaside (Golf Courses)	APA	51.64	26.75	0.00	78.38	0.51	2.61	6.22	9.34	55.10	48.14	76.91	180.15	81.55	82.12	58.87	222.54	490.42	540.00		540.00	
Sand City	APA	0.20	0.21	0.04	0.46	0.04	0.04	0.04	0.12	0.08	0.14	0.11	0.34	0.15	0.15	0.15	0.45	1.36	9.00		9.00	
SNG (Security National Guaranty)	APA	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.16	1.86	1.47	3.50	3.51	149.00		149.00	
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	0.01	0.01	0.02	6.00		6.00	
Mission Memorial (Alderwoods)	APA	2.51	1.49	0.00	4.00	0.03	0.00	0.00	0.03	0.32	1.51	2.11	3.93	3.20	2.48	2.43	8.12	16.07	31.00		31.00	
Coastal Subareas Totals					918.63				471.05				604.11				518.54	2,512.33	2,716.00	1,095.91	3,811.91	
Laguna Seca Subarea																						
CAW - Laguna Seca Subarea	SPA	28.44	24.66	17.80	70.90	14.84	14.10	16.81	45.76	19.99	26.99	31.75	78.74	33.79	34.66	33.82	102.27	297.67	0.00		0.00	
Ryan Ranch Unit		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.01	3.01	5.71	5.70	5.93	17.34	20.35				
Hidden Hills Unit		11.24	9.73	7.31	28.29	7.11	5.93	6.97	20.01	8.31	11.90	11.67	31.88	12.79	13.03	12.76	38.59	118.76				
Bishop Unit 3		17.20	14.93	10.48	42.62	7.74	8.17	9.84	25.75	11.68	15.10	11.09	37.86	6.62	8.06	6.96	21.64	127.87				
Bishop Unit 1		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.99	5.99	8.67	7.86	8.17	24.70	30.69				
The Club at Pasadena	APA	16.00	24.00	7.00	47.00	2.00	0.00	0.00	2.00	9.00	10.00	35.00	54.00	38.00	32.00	31.00	101.00	204.00	251.00		251.00	
Laguna Seca Golf Resort (Bishop)	APA	16.55	12.42	0.22	29.19	0.00	0.30	0.00	0.31	16.68	16.71	34.50	67.88	37.78	39.98	31.07	108.83	206.21	320.00		320.00	
York School	APA	1.33	0.49	0.00	1.81	0.03	0.00	0.00	0.03	1.69	1.47	1.78	4.94	3.25	2.66	1.51	7.43	14.20	32.00		32.00	
Laguna Seca County Park	APA	3.01	1.47	0.76	5.23	1.70	0.41	1.16	3.28	1.84	2.55	2.62	7.00	8.37	4.78	6.17	19.31	34.83	41.00		41.00	
Laguna Seca Subarea Totals					154.13				51.37				212.57				338.83	756.91	644.00	0.00	644.00	
Total Production by WM Producers					1,072.76				522.42				816.68				857.38	3,269.24	3,360.00	1,095.91	4,455.91	
										Annual Production from APA Producers								970.62	1,379.00			
										Annual Production from SPA Producers									2,298.62	3,076.91		

City of Seaside Golf Courses In-Lieu (MCWD source water)																					
MCWD delivery		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
CAW / MPWMD ASR (Carmel River Basin source water)																					
Injection		0.00	0.00	0.00	0.00	269.63	306.73	372.93	949.29	282.60	103.18	0.00	385.78	0.00	0.00	0.00	0.00	1335.07			
(Recovery)		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	(364.47)	(379.89)	(-744.36)	-744.36			
Net ASR		0.00	0.00	0.00	0.00	269.63	306.73	372.93	949.29	282.60	103.18	0.00	385.78	0.00	(-364.47)	(-379.89)	(-744.36)	590.71			

Notes:

- The Water Year (WY) begins October 1 and ends September 30 of the following calendar year. For example, WY 2019 begins on October 1, 2018, and ends on September 30, 2019.
- "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, 2019.
- 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 2019* (see Item IX A. in 1/2/2019 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.

REPLENISHMENT ASSESSMENT SPREADSHEET

WATERMASTER PRODUCER ALLOCATIONS WATER YEAR 2019 IN ACRE-FEET (AF)															
INCLUDING A 10% TRIENNIEL REDUCTION FOR 100% OF THIS WATER YEAR															
Initial Basin-Wide Operating Yield ⁽¹⁾			3360.00		Coastal Operating Yield ⁽¹⁾			2716.00							
Natural Safe Yield (NSY) ⁽²⁾			3000.00		Laguna Seca Operating Yield ⁽¹⁾			644.00							
ALTERNATIVE PRODUCER ALLOCATIONS															
ALTERNATIVE PRODUCER AMOUNT PUMPED WY 2019															
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)		490.42	Nicklaus Club Monterey		204.00				
SNG		149.00	Bishop		320.00	SNG		3.51	Bishop		206.21				
Calabrese		6.00	York School		32.00	Calabrese		0.02	York School		14.20				
Mission Memorial (Alderwood)		31.00	Laguna Seca County Park		41.00	Mission Memorial (Alderwood)		16.07	Laguna Seca County Park		34.83	Total Alternative Producer WY 2019 Production			
Sand City		9.00				Sand City		1.36							
Total⁽¹⁾		735.00	Total⁽¹⁾		644.00	Total⁽¹⁾		511.38	Total⁽¹⁾		459.24	970.62			
STANDARD PRODUCER ALLOCATIONS															
Coastal Operating Yield Available to Standard Producers (AF)			1981.00		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%	1791.62	CAW	45.13%	100.00%	0.00								
Seaside (Municipal)	6.36%	7.42%	146.99												
Granite Rock	0.60%	0.70%	13.87												
D.B.O. Development No. 30	1.09%	1.27%	25.16												
Calabrese (Cypress Pacific Investors LLC)	0.15%	0.17%	3.37												
Total		85.75%	100.0%	1981.00	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	Free Carryover Credits from Prior Water Year	Not-Free 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 CHOMP	Total Producer NSY (AF) (NSY Available + Free Carryover Credits)	Total Authorized Production Current WY (Base Water Right Plus All Carryover) ⁽⁶⁾	Actual AF Pumped by Producer in WY 2019	Free Carry over Credits to WY 2019	Not-Free Carry over Credits to WY 2019	Stored Water Credits to WY 2020
					WY 2019 APA Pumped 970.62 AF										
				NSY 3000 - 970.62 AF =	2029.38										
California American Water	1791.62	90.44%	1835.37	182.91	270.96	2.31	3.17	2023.76	2250.97	2120.22	0.00	130.75	735.49		
Seaside (Municipal)	146.99	7.42%	150.58	0.00	0.00	0.00	0.00	150.58	146.99	178.40	0.00	0.00	0.00		
Granite Rock	13.87	0.70%	14.21	180.68	41.32	0.00	0.00	194.88	235.86	0.00	194.88	27.12	0.00		
D.B.O. Development No. 30	25.16	1.27%	25.77	341.51	62.45	(2.31)	0.00	364.98	426.81	0.00	364.98	38.98	0.00		
Calabrese (Cypress Pacific Investors LLC)	3.37	0.17%	3.45	14.36	1.73	0.00	(3.17)	14.65	16.29	0.00	14.65	1.64	0.00		
Total		1981.00	100.00%	2029.38	719.46	376.46	0.00	0.00	2748.84	3076.92	2298.62	574.50	198.49	735.49	
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.															
(6) Base Water Right plus Free and Not Free Carryover Credit = 2018 Production Allocation capped at storage allocation (see 2018 Declaration from 12/6/2017 Watermaster board meeting)															
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.															

Attachment 3

(Note: This Attachment contains excerpts from the March 18, 2019 Memorandum that is contained in Attachment 10 of the Watermaster's 2019 Annual Report)

MEMORANDUM

TO: Seaside Groundwater Basin Producers

FROM: Robert S. Jaques, Technical Program Manager, Seaside Basin Watermaster

DATE: March 18, 2019

SUBJECT: Seaside Groundwater Basin Natural Safe Yield Allocations to Producers

Introduction

As required by the Amended Seaside Groundwater Basin Adjudication Decision dated February 2007 (referred to herein simply as the "Decision"), ramp-downs in pumping are to be performed triennially until the initially authorized Operational Yield (OY) of 5,600 acre-feet per year (AFY) is reduced to the Basin's Natural Safe Yield (NSY).

The purpose of this Memorandum is to describe how the allocation of water rights to each of the Producers that are parties to the Decision could be calculated once these ramp-downs to achieve NSY production levels have been completed. These allocations will be the amounts that each Producer can pump on an ongoing basis and be in compliance with the Decision.

The Memorandum also briefly provides information on the water rights impacts if the initial NSY established by the Decision were to be reduced as recommended in the recently completed Draft Updated Basin Management Action Plan (Updated BMAP). No action or decision on using a lower NSY has been made, and no consideration of that recommendation by the Watermaster Board is expected until at least the Board's June 2019 meeting.

The Decision's Breakdown of NSY Between Subareas of the Basin

The Decision breaks the Seaside Basin down into these four subareas:

- Northern Coastal Subarea
- Southern Coastal Subarea
- Northern Inland Subarea
- Laguna Seca Subarea

The Decision used the NSY approach to establish the total quantity of water that Producers may ultimately pump from the Basin on an ongoing basis (their long-term OYs), and laid out how the long-term OYs are to be allocated amongst the various Producers. Under the NSY approach used in the Decision, Alternative Producers have first rights to the NSY, and Standard Producers share in the amount of NSY remaining after the Alternative Producer allocations have been made. The 5,600 AFY Basinwide initial OY consisted of an OY of 4,611 AFY for the Coastal Subarea and an OY of 989 AFY for the Laguna Seca Subarea.

Section III.A.17 of the Decision states that for the Basin as a whole the NSY is between 2,581 and 2,913 AFY, that for the Coastal Subarea the NSY is between 1,973 and 2,305 AFY, and that for the Laguna Seca Subarea the NSY is 608 AFY.

However, Section III.A.20 of the Decision states that the initially assumed Basinwide NSY is 3,000 AFY. In the range of values stated in the Decision for the Coastal Subarea (1,973 to 2,305 AFY), if the upper value of 2,305 AFY is added to the 608 AFY for the Laguna Seca Subarea, the resultant NSY is only 2,913 AFY for these two Subareas. This is slightly less than the Basinwide NSY of 3,000 AFY cited in Section III.A.20. This apparent anomaly in the Decision is discussed below in the section titled *Pumping Ramp-down Calculations*.

Alternative and Standard Producer Allocations

Table 2 on page 21 of the Decision sets forth the initial Alternative Producer allocations in the Coastal and Laguna Seca Subareas. These are shown below in Table 1.

In 2015 Alternative Producer Calabrese converted 8 AFY of its Alternative Production allocation to a Standard Production allocation, leaving it with 6 AFY of Alternative Production. As a result of this the Alternative Production allocations were revised to those shown below in Table 2.

Table 1 on page 19 of the Decision sets forth the initial Standard Producer percentages of OY in the Coastal and Laguna Seca Subareas as shown below in Table 3. Shown in the right-hand column of Table 3 are the percentages of the total Standard Producer allocation for each of these Standard Producers.

As a result of Producer Calabrese's 2015 partial conversion of its Alternative Production allocation to a Standard Production allocation, giving it 8 AFY of Standard Production, the Standard Production OY allocation percentages were revised to those shown below in Table 4.

Pumping Ramp-down Calculations

The Decision requires only Standard Producers to ramp-down in order for pumping to be reduced to the NSY level, unless all Standard Producers are ramped-down to zero production, in which case ramp-downs are also required of Alternative Producers. If it is necessary to ramp-down Alternative Producers, the amount of ramp-down required would be allocated amongst the Alternative Producers in proportion to their share of the initial OY of the subarea within which they are located.

3,000 AFY NSY

If it is assumed that the intent of the Decision was to set the Basinwide NSY at 3,000 AFY, and that the ranges of values for NSY cited in Section III.A.17 were simply to provide background information, then the allocation of long-term OY would be calculated on the Basin as a whole, and not on a subarea-by-subarea basis. This subsection describes the calculation of long-term OYs based on this assumption.

Section III.A.20 of the Decision establishes an OY of 4,611 AFY for the Coastal Subarea, and in that subarea the total allocation to Alternative Producers (including the Calabrese partial conversion to Standard Production) is 735 AFY as shown below in Table 2. Therefore, the OY available to Standard Producers in the Coastal Subarea is $4,611 - 735 = 3,876$ AFY. Using the allocation percentages in Table 4, the amount of OY available to each Standard Producer in the Coastal Subarea before any ramp-downs occur is shown below in Table 5.

Similarly, Section III.A.20 of the Adjudication Decision establishes an OY of 989 AFY for the Laguna Seca Subarea, and in that subarea the total allocation to Alternative Producers is 644 AFY as shown above in Table 2. Therefore, the OY available to Standard Producers in the Laguna Seca Subarea is $989 - 644 = 345$ AFY. Using the allocation percentages in Table 4, the amount of OY

available to each Standard Producer in the Laguna Seca Subareas is shown in Table 5. Note that there is only one Standard Producer in the Laguna Seca Subarea – California American Water.

The total amount of OY available to each Standard Producer for all subareas Basinwide before any ramp-downs occur is shown in Table 6, along with the percentage of total OY available to each Standard Producer Basinwide. In that table the OY available to California American Water is the sum of its OYs in the Coastal and Laguna Seca Subareas ($3,505 + 345 = 3,850$ AFY).

If the OY is ramped-down to an NSY of 3,000 AFY for the Basin as a whole, the total amount of long-term OY available to Standard Producers is $3,000 - 735 - 644 = 1,621$ AFY. Since all of the required ramping-down can be accomplished by the Standard Producers, the Alternative Producers do not have to ramp-down.

Table 7 shows the long-term OYs for all Producers Basinwide if the Basinwide OY is ramped-down to 3,000 AFY.

The 3,000 AFY approach was used to arrive at California American Water's 1,474 AFY of long-term OY that was reported in the March 2018 FEIR/EIS for the Monterey Peninsula Water Supply Project. As seen in Table 7, that figure rose slightly to 1,479 AFY as a result of Calabrese's later partial conversion of its Alternative Production to Standard Production.

As a result of the ramp-downs that have already been implemented, current OY allocations Basinwide total 3,360 AFY. Achieving a Basinwide OY of 3,000 AFY would require a ramp-down of 360 AFY in WY 2021.

TABLES

Table 1. Initial Alternative Production Allocations

Coastal Subarea	
Producer	Allocation, AFY
Seaside Golf Courses	540
SNG	149
Calabrese	14
Mission Memorial	31
Sand City	9
Subtotal Coastal Subarea	743
Laguna Seca Subarea	
Producer	Allocation, AFY
Pasadera	251
Bishop	320
York School	32
Laguna Seca County Park	41
Subtotal Laguna Seca Subarea	644

Table 2. Revised Alternative Production Allocations

Coastal Subarea	
Producer	Allocation, AFY
Seaside Golf Courses	540
SNG	149
Calabrese	6
Mission Memorial	31
Sand City	9
Subtotal Coastal Subarea	735
Laguna Seca Subarea	
Producer	Allocation, AFY
Pasadera	251
Bishop	320
York School	32
Laguna Seca County Park	41
Subtotal Laguna Seca Subarea	644

Table 3. Initial Percentages of Operating Yield Allocated to Standard Producers

Coastal Subarea		
Producer	Percentage of Total Subarea OY	Percentage of Subarea Standard Producer Allocation
California American Water	77.55	90.6
City of Seaside (Municipal)	6.36	7.43
Granite Rock Company	0.6	0.7
D.B.O. Development No. 27	1.09	1.27
Subtotal Coastal Subarea	85.60	100.00
Laguna Seca Subarea		
Producer	Percentage of Total Subarea OY	Percentage of Subarea Standard Producer Allocation
California American Water	45.13	100
Subtotal Laguna Seca Subarea	45.13	100.00

Table 4. Revised Percentages of Operating Yield Allocated to Standard Producers

Coastal Subarea		
Producer	Percentage of Total Subarea OY	Percentage of Subarea Standard Producer Allocation
California American Water	77.55	90.44
City of Seaside (Municipal)	6.36	7.42
Granite Rock Company	0.6	0.70
D.B.O. Development No. 27	1.09	1.27
Calabrese	0.15	0.17
Subtotal Coastal Subarea	85.75	100.00
Laguna Seca Subarea		
Producer	Percentage of Total Subarea OY	Percentage of Subarea Standard Producer Allocation
California American Water	45.13	100
Subtotal Laguna Seca Subarea	45.13	100

Table 5. OY Available to Standard Producers in the Coastal and Laguna Seca Subareas Before Any Ramp-downs Occur

Coastal Subarea		
Producer	Percentage of Subarea Standard Allocation Multiplied by Amount of OY Available	OY Available, AFY
California American Water	90.44 x 3,876	3505
City of Seaside (Municipal)	7.42 x 3,876	288
Granite Rock Company	0.7 x 3,876	27
D.B.O. Development No. 27	1.27 x 3,876	49
Calabrese	0.17 x 3,876	7
Subtotal Coastal Subarea		3876
Laguna Seca Subarea		
Producer	Percentage of Subarea Standard Allocation Multiplied by Amount of OY Available	OY Available, AFY
California American Water	100.00 x 345	345*
Subtotal Laguna Seca Subarea		345

* Section III.B.2 of the Decision states that of the 989 AFY total OY for the Laguna Seca Subarea, 644 AFY is allocated to the Alternative Producers and 345 AFY is allocated to the Standard Producers. Since California American Water is the only Standard Producer in the Laguna Seca Subarea, this establishes California American Water's Laguna Seca Subarea OY allocation of 345 AFY.

Table 6. Total OY Basinwide Available for Each Standard Producer Before Any Ramp-downs Occur

Producer	OY Available, AFY	Percentage of Available OY
California American Water	3505 + 345 = 3850	91.22%
City of Seaside (Municipal)	288	6.81%
Granite Rock Company	27	0.64%
D.B.O. Development No. 27	49	1.17%
Calabrese	7	0.16%
Total for All Subareas	4221	100.00%

Table 7. Total Long-term OYs Available to All Producers After Ramp-downs Are Complete, if the NSY is 3,000 AFY

Producer	Percentage of Available OY Multiplied by Amount of NSY Available	Long-term OY Available, AFY
Standard Producers		
California American Water	91.22 x 1,621	1479
City of Seaside (Municipal)	6.81 x 1,621	110
Granite Rock Company	0.64 x 1,621	10
D.B.O. Development No. 27	1.17 x 1,621	19
Calabrese	0.16 x 1,621	3
Total for All Standard Producers		1621
Alternative Producers		
Seaside Golf Courses		540
SNG		149
Calabrese		6
Mission Memorial		31
Sand City		9
Pasadera		251
Bishop		320
York School		32
Laguna Seca County Park		41
Total for All Alternative Producers		1379
	Basinwide Total	3000

**SEASIDE BASIN WATER MASTER
TECHNICAL ADVISORY COMMITTEE**

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

MEETING DATE:	January 8, 2020
AGENDA ITEM:	4
AGENDA TITLE:	Draft Agreement for In-Lieu Storage and Recovery Agreement with the City of Seaside
PREPARED BY:	Robert Jaques, Technical Program Manager
<p>SUMMARY: At its June 12, 2019 meeting the TAC considered an application from the City of Seaside to store and recover non-native water from the Seaside Groundwater Basin. The City’s application described an in-lieu storage program (substitution of recycled water on the Blackhorse and Bayonet Golf Courses) under the City asked to store up to 2,357 acre-feet per year, which is the City’s useable storage space adopted by the Watermaster Board in February 2010. Under the City’s proposal the City would acquire Pure Water Monterey Project recycled water from MCWD for irrigation of the City’s golf courses in lieu of the current use of approximately 450 acre-feet per year of groundwater pumped from the Seaside Basin. The unpumped (stored) water would be recovered at the City’s Well No. 4 to be delivered to MCWD for use within its service area for anticipated projects within the City’s portion of the Ord Community, and potential use within the City of Seaside service area. The TAC supported the project in concept however felt its consistency with the decision was a legal matter not a technical one. At its October 2, 2019 meeting the Board also supported the City’s proposal in concept, but determined that the Adjudication Decision was unclear whether the City was required to convert its Alternative Production allocation to a Standard Production allocation in order for Watermaster to enter into a storage and recovery agreement. An Order on Motion was filed by the City and Judge O’Farrell determined that the proposed program is consistent with the terms of the Decision and approved the City’s in-lieu storage proposal.</p> <p>Consequently, it is appropriate for the Watermaster to issue a Storage and Recovery Agreement to the City for this project. A Draft Agreement is attached for consideration by the TAC. It is modeled after the Storage and Recovery Agreement with Cal Am and MPWMD for injection and storage of Pure Water Monterey AWT water in the Seaside Basin, which was approved by the Board in February 2019. The Draft Agreement reflects input from the City’s Attorney Office.</p> <p>Following any revisions the TAC feels are appropriate, the Draft Agreement will be presented to the Board for its consideration of approval.</p>	
ATTACHMENTS:	Draft Agreement for In-Lieu Storage and Recovery with the City of Seaside
RECOMMENDED ACTION:	Approve or make revisions to the attached Draft Agreement

**AGREEMENT FOR STORAGE AND RECOVERY OF
NON-NATIVE WATER FROM THE
SEASIDE GROUNDWATER BASIN**

THIS AGREEMENT is made and entered into on __, __, by and between the SEASIDE BASIN WATERMASTER (the "WATERMASTER") and the City of Seaside (the "CITY") as follows:

Recitals

1. The WATERMASTER was created by the decision, as amended, entered in the case, California American Water Company v. City of Seaside, et al. Monterey County Superior Court, filed February 9, 2007, Case No. M66343 (the "Decision"). This Decision was made for the purposes of managing and protecting the Seaside Groundwater Basin ("Basin") for the benefit of the businesses, individuals, and public agencies that overlie or extract groundwater from the Basin. The CITY is a party to the Decision.

2. In February of 2010, the WATERMASTER, in accordance with Section III.3.L.3.j.xix and III.H.2 of the Decision, allocated 2,361 acre-feet of Storage in the Coastal and Northern Inland Subareas to the CITY. In accordance with Section III.H.3 of the Decision, the CITY may use its Storage Allocation for the benefit of its customers and for other purposes as the CITY deems appropriate.

3. Section III.H.1 of the Decision states that the Parties shall be permitted to utilize available Storage space for "bona fide Groundwater Storage Projects". Section III.H.6. provides that the City has the right to store water by "Direct Injection, Spreading, or other artificial means."

4. On June 5, 2019, the CITY applied to the WATERMASTER for permission to store water in the Basin and to recover the stored water the Basin, through an in-lieu storage program.

5. On October 25, 2019, the Court determined that as presented the CITY'S application for in lieu water storage was consistent with the terms of the Decision and California law and policy.

6. Under the authorities granted to the WATERMASTER by the Decision, on December 5, 2019 the WATERMASTER approved the application of the CITY and hereby grants permission to the CITY to store Non-Native water in, and to recover that stored water from, the Basin, as described in and subject to the Terms and Conditions contained in this Agreement.

Terms and Conditions

NOW, THEREFORE, in consideration of the foregoing and the mutual promises contained herein, the parties hereto agree to the following terms and conditions:

1. Definitions. Unless otherwise specifically defined herein, the defined terms shall be given the same definition and meaning set forth in the Decision, as listed in Attachment A.
2. Storage Quantity. The CITY is authorized to store up to 2,361 acre-feet per year of the water in the Basin. In the event the WATERMASTER revises the Total Usable Storage Space of the Basin in accordance with Section III.H.4 of the Decision, or if one or more Alternative Producers converts entirely or in part from an Alternative Production Allocation to a Standard Production Allocation in accordance with Section III.B.3.e of the Decision, the CITY's Storage Allocation may change, and this may affect the storage

quantity authorized by this Agreement; however, any reduction in storage quantity will not result in a corresponding reduction in the amount of water actually stored at the time of the change. In such instance this Agreement will be modified to reflect these changes. Further, the parties may agree by written amendment to this Agreement to revise the storage quantities authorized herein.

3. Storage Location. The CITY's storage of water in the Basin will result from substituting recycled water obtained from the Pure Water Monterey project ("Recycled Water") for irrigation of the City's Bayonet and Blackhorse Golf Courses in lieu of the current use of approximately 450 acre-feet per year of groundwater from the Seaside Basin. The result of the substitution of the Recycled Water for groundwater production to irrigate the golf courses will cause the replenishment and storage of water in the Basin. The location where the Recycled Water will be delivered to the golf courses is shown in Attachment B.
4. Recovery Location. The CITY will recover the stored water at CITY Well No. 4, located on Juarez Street in the CITY of Seaside, Assessor's Parcel Number 012-115- 017-000, as shown in Attachment C or at any replacement well drilled for City Well No. 4 so long as the recovery of stored water from the replacement well does not cause any Material Injury to the Basin. CITY Well No. 4 withdraws water from the Santa Margarita aquifer and is perforated at 390 to 420 feet below ground surface (bgs), 430 to 470 feet bgs and at 490 to 550 feet bgs.
5. Recovery Quantity. The CITY is initially authorized to recover (Extract) the full amount of the water that is actually Stored in accordance with this Agreement. However, due to the hydrogeologic characteristics of the Seaside Basin, naturally occurring losses of Stored Water may result in the WATERMASTER reducing the percentage of Stored Water that may be Extracted. Should the WATERMASTER determine that this needs to be done, this Agreement will be modified to reflect the reduced quantity of water that the CITY may recover, and the technical basis for this determination will be provided to all PRODUCERS.
6. Water Quality. Because the storage pursuant to this Agreement would occur through in-lieu storage procedures rather than injection or spreading, water quality should not be of concern. However, the substitution water is Recycled Water from the Pure Water Monterey Project, which is the same water that MPWMD will inject into the Seaside Basin pursuant to the California-American Water Company storage program previously approved by Watermaster. The water quality constituents in the Recycled Water will not exceed the water quality limits contained in the Waste Discharge Requirements and Water Recycling Requirements issued for the Pure Water Monterey Project issued by the Central Coast RWQCB in Order No. R3-2017-0003.
7. Carryover and Stored Water Credits. In accordance with Section III.F of the Decision, if during a particular Water Year the CITY does not Extract from the Basin a total quantity equal to the CITY's Standard Production Allocation plus any stored water for the particular Water Year, the CITY may establish Carryover Credits, up to the total amount of the CITY's Storage Allocation.

However, in accordance with the Decision in no circumstance may the sum of the CITY's Stored Water Credits and Carryover Credits exceed the CITY's available Storage Allocation. Further, in accordance with Section III.H.5 of the Decision, unused (not Extracted) Stored Water Credits may be carried over from year to year, but due to the

hydrogeologic characteristics of the Seaside Basin, naturally occurring losses of Stored Water may require Watermaster to discount the percentage of Stored Water for all SPA Producers that may be Extracted.

8. Measurement and Reporting of Extractions and Storage. In accordance with Section III.J of the Decision, the CITY shall ensure that adequate measuring devices are installed, maintained, and used on all facilities that deliver Recycled Water to the CITY's golf courses, and the CITY shall ensure that adequate measuring devices are installed, maintained, and used on all of the CITY's Extraction facilities, as required by the WATERMASTER's Rules and Regulations and this Agreement.

Beginning on the initial delivery of Recycled Water to the CITY in accordance with this Agreement, the CITY shall provide to the WATERMASTER a monthly Recycled Water report which contains the following information:

- The quantity of Recycled Water that was delivered to and used by the CITY to irrigate the CITY's golf courses. This quantity will represent the amount of water Stored by the CITY for subsequent extraction under this Agreement.
- The quantity of Stored Water that was recovered (Extracted)
- The location(s) where the Stored Water was recovered (Extracted)

9. Indemnification. The CITY shall assume the defense of, indemnify and hold harmless, the WATERMASTER, its officers, agents and employees from all claims, liability, loss, damage or injury of any kind, nature or description arising directly or indirectly from actions or omissions by the CITY or any of its officers, agents, employees, or independent contractors relating to this Agreement, excepting claims, liability, loss, damage or injury which arise from the willful or negligent acts, omissions, or activities of an officer, agent or employee of the WATERMASTER.
10. Successors and Assigns. This Agreement, and all the terms and conditions hereof, shall apply to and bind the successors and assigns of the respective parties hereto; provided that the CITY shall not assign this Agreement without prior written consent of the WATERMASTER.
11. Further Cooperation. Each of the parties agree to reasonably cooperate with each other, and to execute and deliver to the other all such documents and instruments, and to take such further actions, as may reasonably be required to give effect to the terms and conditions of this Agreement.
12. Interpretation. It is agreed and understood by the parties hereto that this Agreement has been arrived at through negotiation and that no party is to be deemed the party which prepared this Agreement within the meaning of Civil Code §1654. The provisions of this Agreement shall be interpreted in a reasonable manner to effect the purpose of the parties and this Agreement.
13. Disputes. If any dispute under this Agreement arises the parties shall first meet and confer in a good faith attempt to resolve the matter between themselves. Each party shall make all reasonable efforts to provide to the other parties all the information that the party has in its possession that is relevant to the dispute, so that all parties will have ample information with which to reach a decision. If the dispute is not resolved by meeting and conferring,

the matter shall be submitted to the Court for resolution pursuant to the Court's reserved jurisdiction as set forth in the Decision.

14. Modification. This Agreement may be amended, altered or modified only by a writing, specifying such amendment, alteration or modification, executed by authorized representatives of each of the parties hereto.
15. Attorney's Fees and Costs. In the event it should become necessary for any party to enforce any of the terms and conditions of this Agreement by means of court action or administrative enforcement, the prevailing party/parties, in addition to any other remedy at law or in equity available to such party, shall be awarded from the non-prevailing party/parties all reasonable costs and reasonable attorney's fees in connection therewith, including the fees and costs of experts reasonably consulted by the attorneys for the prevailing party/parties.
16. Counterparts. This Agreement may be executed in two or more counterparts, each of which shall be deemed an original, but all of which shall be deemed to constitute one and the same instrument.
17. Written Notice. Written notice shall be deemed to have been duly served if delivered in person or by mail to the individuals and at the addresses listed below:

WATERMASTER

CITY

Administrative Officer
Seaside Basin Watermaster
P.O. Box 51502
Pacific Grove, CA 93950

Craig Malin
City Manager
City of Seaside
440 Harcourt Avenue
Seaside, CA 93955

w/E-mail Copy to:
Cityattorney@ci.seaside.ca.us

18. Conflicts with the Decision. The Parties believe this Agreement to be consistent with the terms of the Decision and agree that the PRODUCER's rights under this Agreement are subject to the Decision and in the event of any conflict between the provisions of this Agreement and the Decision, the Decision shall control.
19. Entire Agreement. This Agreement constitutes the entire and complete agreement between the parties regarding the subject matter hereof, and supersedes all prior or contemporaneous negotiations, understandings or agreements of the parties, whether written or oral, with respect to such subject matter.
20. Term. This Agreement shall be effective on the date it has been executed by all Parties and continue in perpetuity unless and until ordered terminated by the Court maintaining continuing jurisdiction over the Decision.

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement consisting of five (5) pages and three (3) attachments in triplicate on the date hereinabove written.

WATERMASTER

By: _____
Paul Bruno
Chairperson

CITY

By: _____
Craig Malin
City Manager

Approved as to Form

City Attorney

ATTACHMENT A

DEFINITIONS

(Excerpted from the Decision)

"Artificial Replenishment" means the act of the WATERMASTER, directly or indirectly, engaging in or 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 shall also include 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.

"Carryover" means that portion of a Party's Production Allocation that is not Extracted from the Basin during a particular Water Year. Each acre-foot of Carryover establishes an acre-foot of Carryover Credit.

"Carryover Credit(s)" means the quantity of Water established through Carryover, that a Party is entitled to Produce from the Basin pursuant to Section III.F.

"Extraction," "Extractions," "Extracting," "Extracted," and other variations of the same noun or verb, mean pumping, taking, diverting or withdrawing Groundwater by any manner or means whatsoever from the Seaside Basin.

"Groundwater" means all Water beneath the ground surface in the Seaside Basin, including Water from Natural Replenishment, Artificial Replenishment, Carryover, and Stored Water.

"Material Injury" means a substantial adverse physical impact to the Seaside Basin or any particular Producer(s) including but not limited to: seawater intrusion, land subsidence, excessive pump lifts and water quality degradation.

"Natural Replenishment" means all processes by which Water may become a part of the Groundwater supply of the Seaside Basin without the benefit of the Physical Solution and the coordinated management it provides. Groundwater that occurs in the Seaside Basin as a result of the Physical Solution, which is not Natural Replenishment, includes, but is not limited to Storage, Carryover, and Artificial Replenishment.

"Non-Native Water" means all Water that would not otherwise add to the Groundwater supply through natural means or from return flows from surface applications other than intentional Spreading.

"Physical Solution" means the efficient and equitable management of Groundwater resources within the Seaside Basin, as prescribed by this Decision, to maximize the reasonable and beneficial use of Water resources in a manner that is consistent with Article X, Section 2 of the California Constitution, the public interest, and the basin rights of the Parties, while working to bring the Production of Native Water to Natural Safe Yield.

"Producer" means a Party possessing a Base Water Right.

"Standard Production Allocation" is the amount of Groundwater that a Producer participating in this allocation method may Produce from a Subarea of the Seaside Basin as provided in Section

III.B.2, which is determined by multiplying the Base Water Right by the Operating Yield. "Storage" means the existence of Stored Water in the Seaside Basin.

"Storage Allocation" means that quantity of Stored Water in acre feet that a Party is allowed to Store in the Coastal Subarea or the Laguna Seca Subarea at any particular time.

"Storage Allocation Percentage" means the percentage of Total Usable Storage Space allocated to each Producer proceeding under the Standard Production Allocation. Producers proceeding under the Alternative Production Allocation are not allocated Storage rights and, consequently, their share of the Total Usable Storage Space is apportioned to the Producers proceeding under the Standard Production Allocation. Pursuant to the terms of Section III.B.3, Parties proceeding under the Alternative Production Allocation enjoy a one-time right to change to the Standard Production Allocation. Due to the recalculation of the Storage Allocation Percentage necessitated when a Party changes to the Standard Production Allocation, the WATERMASTER will maintain the up-to-date Seaside Basin Storage Allocation Percentages.

"Storage and Recovery Agreement" means an agreement between WATERMASTER and a Party for Storage pursuant to Section III.L.3.j.xx.

"Store" and other variations of the same verb refer to the activities establishing Stored Water in the Seaside Basin.

"Stored Water" means (1) Non-Native Water introduced into the Seaside Basin by a Party or any predecessors-in-interest by Spreading or Directly Injecting that Water into the Seaside Basin for Storage and subsequent Extraction by and for the benefit of that Party or their successors-in-interest; (2) Groundwater within the Seaside Basin that is accounted for as a Producer's Carryover; or (3) Non-Native water introduced into the Basin through purchases by the WATERMASTER, and used to reduce and ultimately reverse Over-Production.

"Stored Water Credit" means the quantity of Stored Water augmenting the Basin's Retrievable Groundwater Supply, which is attributable to a Party's Storage and further governed by this Decision and a Storage and Recovery Agreement.

"Total Useable Storage Space" means the maximum amount of space available in the Seaside Basin that can prudently be used for Storage as shall be determined and modified by WATERMASTER pursuant to Section III.L.3.j.xix, less Storage space which may be reserved by the WATERMASTER for its use in recharging the Basin.

ATTACHMENT B

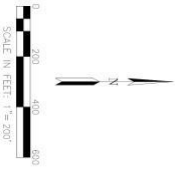
Storage Location

LEGEND

SYMBOL	DESCRIPTION
(Symbol)	BOUNDARY
(Symbol)	FACE OF CURB
(Symbol)	UTILITY
(Symbol)	PROPOSED RECYCLED WATER MAIN
(Symbol)	EXISTING RECYCLED WATER MAIN



Approximate location of connection of the MCWWD recycled water main to the golf course irrigation system



RECYCLED WATER CONNECTION
SEASIDE HIGHLANDS
 SEASIDE, CALIFORNIA
 FEBRUARY 2019

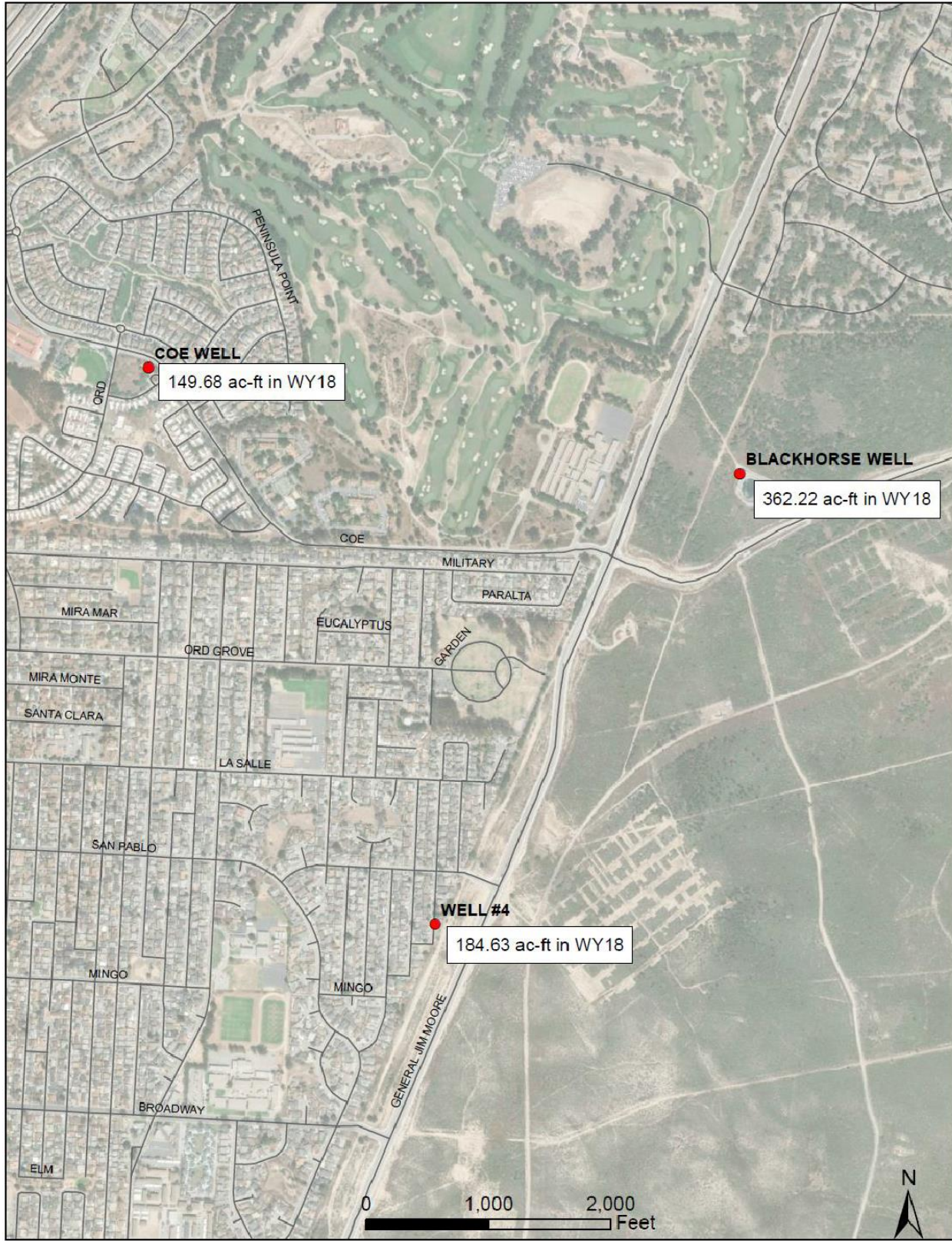
RJA
RUGGERI-JENSEN-AZAR
 ENGINEERS • PLANNERS • ARCHITECTS
 4000 CAMINO ARROYO, SUITE 200
 SAN JOSE, CALIFORNIA 95128
 PHONE: (408) 253-8300 FAX: (408) 253-8303

JOB NUMBER: 132018 SHEET: 1 OF 1

ATTACHMENT C

Recovery Location

Seaside Wells



T:\Projects\CurrentProjects\WaterUtilityNetwork\Maps\Wells_Seaside.pdf

**SEASIDE BASIN WATER MASTER
TECHNICAL ADVISORY COMMITTEE**

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

MEETING DATE:	January 8, 2020
AGENDA ITEM:	5
AGENDA TITLE:	Schedule
PREPARED BY:	Robert Jaques, Technical Program Manager
SUMMARY:	<p>As a regular part of each monthly TAC meeting, I will provide the TAC with an updated Schedule of the activities being performed by the Watermaster, its consultants, and the public entity (MPWMD) which are performing certain portions of the work.</p>
ATTACHMENTS:	Schedule of Work Activities for FY 2020
RECOMMENDED ACTION:	Provide Input to Technical Program Manager Regarding Any Corrections or Additions to the Schedules

Seaside Basin Watermaster 2020 Monitoring and Management Program Work Schedule

ID	Task Name	Dec '19	Jan '20	Feb '20	Mar '20	Apr '20	May '20	Jun '20	Jul '20	Aug '20	Sep '20	Oct '20	Nov '20	Dec '20
		1 8 15 22 29	5 12 19 26	2 9 16 23	1 8 15 22 29	5 12 19 26	3 10 17 24	31 7 14 21 28	5 12 19 26	2 9 16 23 30	6 13 20 27	4 11 18 25	1 8 15 22 29	6 13 20 27
1	Replenishment Assessment Unit Costs for Water Year 2021													
2	B&F Committee Develops Replenishment Assessment Unit Cost for 2021 Water Year													
3	If Requested, TAC Provides Assistance to B&F Committee in Development of 2021 Water Year Replenishment Assessment Unit Cost													
4	Board Adopts and Declares 2021 Water Year Replenishment Assessment Unit Cost													
5	Replenishment Assessments for Water Year 2020													
6	Watermaster Prepares Replenishment Assessments for Water Year 2020													
7	Watermaster Board Approves Replenishment Assessments for Water Year 2020 (At December Meeting)													
8	Watermaster Levies Replenishment Assessment for 2020													
9	Monitoring & Management Program (M&MP) Budgets for 2021 and 2022													
10	Preliminary Discussion of Potential Scope of Work for 2021 M&MP													
11	Prepare Draft 2021 M&MP and 2021 and 2022 O&M and Capital Budgets													
12	TAC approves Draft 2021 M&MP and 2021 and 2022 O&M and Capital Budgets													
13	Budget & Finance Committee Approves Draft 2021 M&MP and 2021 and 2022 O&M and Capital Budgets													
14	Board approves 2021 M&MP and 2021 M&MP O&M and Capital Budgets													
15	2019 Annual Report													
16	Prepare Preliminary Draft 2020 Annual Report													
17	TAC Provides Input on Preliminary Draft 2020 Annual Report													
18	Prepare Draft 2020 Annual Report (Incorporating TAC Input)													
19	Board Provides Input on Draft 2020 Annual Report (At December Board Meeting)													
20	Prepare Final 2020 Annual Report (Incorporating Board Input)													
21	Watermaster Submits Final 2020 Annual Report to Judge													
22	MANAGEMENT													
23	M.1 PROGRAM ADMINISTRATION													

Seaside Basin Watermaster 2020 Monitoring and Management Program Work Schedule

ID	Task Name	Dec '19	Jan '20	Feb '20	Mar '20	Apr '20	May '20	Jun '20	Jul '20	Aug '20	Sep '20	Oct '20	Nov '20	Dec '20
		1 8 15 22 29	5 12 19 26	2 9 16 23	1 8 15 22 29	5 12 19 26	3 10 17 24 31	7 14 21 28	5 12 19 26	2 9 16 23 30	6 13 20 27	4 11 18 25	1 8 15 22 29	6 13 20 27
24	Prepare Initial Consultant Contracts for 2021													
25	TAC Approval of Initial Consultant Contracts for 2021													
26	Board Approval of Initial Consultant Contracts for 2021													
27	M.1.g – Sustainable Groundwater Management Act Reporting Requirements													
28	Montgomery & Associates Prepares Draft Groundwater Storage Analysis													
29	Submit SGMA Documentation to DWR													
30	IMPLEMENTATION													
31	I.2.a DATABASE MANAGEMENT													
32	I.2.a.1 Conduct Ongoing Data Entry/Database Maintenance													
33	I.2.b DATA COLLECTION PROGRAM													
34	I.2.b.2 Collect Monthly Water Levels (MPWMD)													
35	I.2.b.3 Collect Quarterly Water Quality Samples (MPWMD)													
36	I.2.b.6 MPWMD provides annual water quality and water level data to Montgomery & Associates for inclusion in the 2020 SIAR													
37	I.4.c Annual Seawater Intrusion Analysis Report (SIAR)													
38	Montgomery & Associates Provides Draft SIAR to Watermaster													
39	TAC Approves Annual Seawater Intrusion Analysis Report (SIAR)													
40	Board Approves Annual Seawater Intrusion Analysis Report (SIAR)													

**SEASIDE BASIN WATER MASTER
TECHNICAL ADVISORY COMMITTEE**

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

MEETING DATE:	January 8, 2020
AGENDA ITEM:	6
AGENDA TITLE:	Other Business
PREPARED BY:	Robert Jaques, Technical Program Manager
SUMMARY:	<p>The “Other Business” agenda item is intended to provide an opportunity for TAC members or others present at the meeting to discuss items not on the agenda that may be of interest to the TAC.</p>
ATTACHMENTS:	None
RECOMMENDED ACTION:	None required – information only