This meeting is not subject to
Brown Act noticing requirements.
The agenda is subject to change.

MONTEREY PENINSULA WATER MANAGEMENT DISTRICT

AGENDA
Water Supply Planning Committee
Of the Monterey Peninsula Water Management District
******
Monday, February 1, 2021, 4:00 pm, Virtual Meeting

Pursuant to Governor Newsom's Executive Orders N-29-20 and N-33-20, and to do all we can to help slow the spread of COVID-19 (coronavirus), meetings of the Monterey Peninsula Water Management District Board of Directors and committees will be conducted with virtual (electronic) participation only using WebEx.

Join the meeting at: https://zoom.us/j/96205737533?pwd=SEx5SjNUWlR6M0NsUmcvWW1jV0x2QT09
Or access the meeting at: https://www.zoom.us/
Webinar ID Number: 962 0573 7533
Meeting password: 02012021
Participate by phone: (669) 900 9128

For detailed instructions on connecting to the Zoom meeting see page 3 of this agenda.

Water Supply Planning Committee Members:
George Riley, Chair
Karen Paull
Mary Adams

Alternate:
Alvin Edwards

Staff Contact
David J. Stoldt, General Manager

After staff reports have been distributed, if additional documents are produced by the District and provided to the Committee regarding any item on the agenda they will be made available on the District's website prior to the meeting. Documents distributed at the meeting will be made available upon request and posted to the District's website within five days following the meeting.

Call to Order

Comments from Public - *The public may comment on any item within the District's jurisdiction. Please limit your comments to three minutes in length.*

Action Items - *Public comment will be received. Please limit your comments to three (3) minutes per item.*
1. Consider Adoption of January 4, 2021 Committee Meeting Minutes

Discussion Items – *Public comment will be received. Please limit your comments to three (3) minutes per item.*
2. Update on Pure Water Monterey Project (*verbal report*)
3. Update on MPWSP Desalination Component
4. Discussion of Recent Activities Related to Seaside Basin Well Water Quality

Suggest Items to be Placed on Future Agendas

Adjournment

Upon request, MPWMD will make a reasonable effort to provide written agenda materials in appropriate alternative formats, or disability-related modification or accommodation, including auxiliary aids or services, to enable individuals with disabilities to participate in public meetings. MPWMD will also make a reasonable effort to provide translation services upon request. Submit requests by noon on Friday, January 29, 2020, to the Board Secretary, joel@mpwmd.net or call 831-658-5652.

See next page of agenda for instructions on connecting to Zoom Webinar

Instructions for Connecting to the Zoom Meeting

Note: If you have not used Zoom previously, when you begin connecting to the meeting you may be asked to download the app. If you do not have a computer, you can participate by phone.

Begin: Within 10 minutes of the meeting start time from your computer click on this link: https://zoom.us/j/96205737533?pwd=SEx5SjNUWlR6M0NsUmcvWW1jV0x2QT09 or paste the link into your browser.

DETERMINE WHICH DEVICE YOU WILL BE USING
(PROCEED WITH ONE OF THE FOLLOWING INSTRUCTIONS)

USING A DESKTOP COMPUTER OR LAPTOP
1.In a web browser, type: https://www.zoom.us
2.Hit the enter key
3.At the top right-hand corner, click on "Join a Meeting"
4.Where it says "Meeting ID", type in the Meeting ID# above and click "Join Meeting"
5.Your computer will begin downloading the Zoom application. Once downloaded, click "Run" and the application should automatically pop up on your computer. (If you are having trouble downloading, alternatively you can connect through a web browser – the same steps below will apply).
6.You will then be asked to input your name. It is imperative that you put in your first and last name, as participants and attendees should be able to easily identify who is communicating during the meeting.
7.From there, you will be asked to choose either ONE of two audio options: Phone Call or Computer Audio:

COMPUTER AUDIO
1.If you have built in computer audio settings or external video settings – please click "Test Speaker and Microphone".
2.The client will first ask "Do you hear a ringtone?" •If no, please select "Join Audio by Phone".
•If yes, proceed with the next question:
3.The client will then ask "Speak and pause, do you hear a replay?" •If no, please select "Join Audio by Phone"
•If yes, please proceed by clicking "Join with Computer Audio"

PHONE CALL

1.If you do not have built in computer audio settings or external video settings – please click "Phone Call"
2.Dial one of the numbers listed below using a phone. Select a phone number based on your current location for better overall call quality.

+1 669 900 9128 (San Jose, CA)
+1 253 215 8782 (Houston, TX)
+1 346 248 7799 (Chicago, IL)
+1 301 715 8592 (New York, NY)
+1 312 626 6799 (Seattle, WA)
+1 646 558 8656 (Maryland)

3.Once connected, it will ask you to enter the Webinar ID No. and press the pound key
4.It will then ask you to enter your participant ID number and press the pound key.
5.You are now connected to the meeting.

USING AN APPLE/ANDROID MOBILE DEVICE OR SMART PHONE

1.Download the Zoom application through the Apple Store or Google Play Store (the application is free).
2.Once download is complete, open the Zoom app.
3.Tap "Join a Meeting"
4.Enter the Meeting ID number
5.Enter your name. It is imperative that you put in your first and last name, as participants and attendees should be able to easily identify who is communicating during the meeting.
6.Tap "Join Meeting"
7.Tap "Join Audio" on the bottom left hand corner of your device
8.You may select either ONE of two options: "Call via Device Audio" or "Dial in"

DIAL IN

1.If you select "Dial in", you will be prompted to select a toll-free number to call into.
2.You may select any of the numbers listed below:

+1 669 900 9128 (San Jose, CA)
+1 253 215 8782 (Houston, TX)
+1 346 248 7799 (Chicago, IL)
+1 301 715 8592 (New York, NY)
+1 312 626 6799 (Seattle, WA)
+1 646 558 8656 (Maryland)

3.The phone will automatically dial the number, and input the Webinar Meeting ID No. and your Password.
4.Do not hang up the call, and return to the Zoom app
5.You are now connected to the meeting.

Present Public Comment

Receipt of Public Comment – the Chair will ask for comments from the public on all items. Limit your comment to 3 minutes.

(a) Computer Audio Connection: Select the "raised hand" icon. When you are called on to speak, please identify yourself.

(b) Phone audio connection **with** computer to view meeting: Select the "raised hand" icon. When you are called on to speak, please identify yourself.

(c) Phone audio connection only: Press *3. Wait for the clerk to unmute your phone and then identify yourself and provide your comment. Press *3 to end the call.

Submit Written Comments

If you are unable to participate via telephone or computer to present oral comments, you may also submit your comments by e-mailing them to comments@mpwmd.net with one of the following subject lines "PUBLIC COMMENT ITEM #" (insert the item number relevant to your comment) or "PUBLIC COMMENT – ORAL COMMUNICATIONS". Comments must be received by 12:00 p.m. on Monday, January 4, 2021. Comments submitted by noon will be provided to the committee members and compiled as part of the record of the meeting.

WATER SUPPLY PLANNING COMMITTEE

ITEM: ACTION ITEM

1. CONSIDER ADOPTION OF JANUARY 4, 2021 COMMITTEE MEETING MINUTES

Meeting Date: February 1, 2021

From: David J. Stoldt,
General Manager

Prepared By: Joel G. Pablo

CEQA Compliance: This action does not constitute a project as defined by the California Environmental Quality Act Guidelines Section 15378.

SUMMARY: Attached as **Exhibit 1-A** are draft minutes of the January 4, 2021 committee meeting.

RECOMMENDATION: The Committee should adopt the minutes by motion.

EXHIBIT
1-A Draft Minutes of the January 4, 2021 Committee Meeting

MONTEREY PENINSULA WATER MANAGEMENT DISTRICT

EXHIBIT 1-A

DRAFT MINUTES
Water Supply Planning Committee of the Monterey Peninsula Water Management District
January 4, 2021

Call to Order: The WebEx virtual meeting was called to order at 4:00 pm.

Committee members present: George Riley, Chair
Mary Adams
Alvin Edwards

Committee members absent: None

Staff members present: David J. Stoldt, General Manager
Jonathan Lear, Water Resources Division Manager
Thomas Christensen, Environmental Resources Div. Mgr.
Maureen Hamilton, Water Resources Engineer
Sara Reyes, Sr. Office Specialist

District Counsel present: David Laredo, De Lay & Laredo

Comments from the Public:

Action Items

1. Consider Adoption of December 7, 2020 Committee Meeting Minutes
On a motion by Edwards and seconded by Adams, minutes of the December 7, 2020 meeting were approved on a unanimous vote of 3 – 0 by Adams, Edwards and Riley.

Discussion Items

2. Discussion of Replenishment Fund – Seaside Groundwater Basin
General Manager Stoldt reported on two documents from the Watermaster Annual report, also shown as exhibits 2-A and 2-B to the staff report presented for this item. Exhibit 2-A is the Updated Replenishment Assessment Unit Costs and displays anticipated unit costs of water calculations. The unit costs are applied to any overages to the Natural Safe Yield and the Operating Yield. These two separate unit costs are assessed in combination with each other, ($2,947 per acre-foot for exceeding the Natural Safe Yield and $737 per acre-foot for exceeding the Operating Yield on the Seaside Basin). Exhibit 2-B demonstrates how the Replenishment Assessment were calculated for Water Year 2020.

Public Comment: None

3. Update on Pure Water Monterey Project
Stoldt reported that final conditioning of deep injection well # 2 occurred through December 2020 and is almost complete. As of Friday, December 31, 2020 it was injecting at 490 gallons per minute which is very close to the last injection rate. He reported that Fiscal year to date, the best month was November with just under 223 acre-feet and December with 184 acre-feet.

Total injected to date is 990 acre-feet since July 1, 2020. 1,053 acre-feet is in the operating reserve and water delivered to date is 675 acre-feet.

Maureen Hamilton, Water Resources Engineer, reported the deep injection well no. 2 final commissioning was completed on New Year's Eve. Water is going back into deep injection well #2 and injection also begun on Vados well #2. She reported that the well was not sanding as before so staff is optimistic. For deep injection wells 3 and 4, will be ordering materials as submittals are approved.

Public Comment: None

4. Update on ASR Construction

Hamilton reported that the final payment request was processed for ASR 1, and the punch list items will be reviewed. She reported there is a plan to discuss with Cal-Am the option of just having dichlorination at the Santa Margarita site.

Public Comment: None

Suggest Items to be Placed on Future Agendas

Adjournment: The meeting was adjourned at 5:00 pm.

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WATER SUPPLY PLANNING COMMITTEE

ITEM: DISCUSSION ITEM

3. UPDATE ON MPWSP DESALINATION COMPONENT

Meeting Date:	**February 1, 2021**	**Budgeted:**	
From:	**David J. Stoldt** **General Manager**	**Program/** **Line Item:**	**N/A**
Prepared By:	**David Stoldt**	**Cost Estimate:**	

General Counsel Review: N/A
Committee Recommendation: N/A
CEQA Compliance: This action does not constitute a project as defined by the California Environmental Quality Act Guidelines section 15378.

SUMMARY: If there is new information to report, this item will be discussed at the Committee's January 4, 2021 meeting.

WATER SUPPLY PLANNING COMMITTEE

ITEM: DISCUSSION ITEM

4. DISCUSSION OF RECENT ACTIVITIES RELATED TO SEASIDE BASIN WELL WATER QUALITY

Meeting Date:	**February 1, 2021**	**Budgeted:**	
From:	**David J. Stoldt** **General Manager**	**Program/** **Line Item:**	**N/A**
Prepared By:	**David Stoldt**	**Cost Estimate:**	

General Counsel Review: N/A
Committee Recommendation: N/A
CEQA Compliance: This action does not constitute a project as defined by the California Environmental Quality Act Guidelines section 15378.

SUMMARY: There have been three recent disclosures of information regarding water quality issues in Seaside Groundwater Basin wells, primarily in the northern region. These are being brought to the Water Supply Planning committee as informational items and do not warrant immediate District action at this time.

1) At the December 2, 2020 Board meeting of the Seaside Groundwater Basin Watermaster, Georgina King of Montgomery & Associates made a presentation on the annual Seawater Intrusion Analysis Report. The consultant's report states "Seawater intrusion is typically identified through regular chemical analyses of groundwater which can identify geochemical changes in response to seawater intrusion. No single analysis definitively identifies seawater intrusion, however by looking at various analyses we can ascertain when fresh groundwater mixes with seawater. At low chloride concentrations, it is often difficult to identify incipient seawater intrusion. This is due to the natural variation in fresh water chemistry at chloride concentrations below 1,000 milligrams per liter (mg/L). Mixing trends between groundwater and seawater are more easily defined when chloride concentrations exceed 1,000 mg/L. Common geochemical indicators of seawater intrusion are cation and anion ratios, chloride trends, sodium/chloride ratios, and electric induction logging. Based on an evaluation of geochemical indicators in prior years, seawater intrusion has not historically been observed in existing monitoring and production wells in the Seaside Basin."[1]

Nevertheless, the consultants concluded that "In Water Year 2020 for the first time, what may be a precursor to seawater intrusion was detected in two monitoring wells experiencing increasing chloride concentrations. One of these is north of and outside of the Seaside Basin (monitoring well FO-10 Shallow), and the other is just inside the northern boundary of the Seaside Basin in the Northern Coastal Subarea (monitoring well FO-9 Shallow). However, none of the Watermaster's

[1] Seaside Groundwater Basin 2020 Seawater Intrusion Analysis Report, prepared for: Seaside Groundwater Basin Watermaster by Montgomery & Associates, Oakland, CA, November 19, 2020

Sentinel Wells, located closer to the coastline than monitoring wells FO-9 and FO-10, detected seawater intrusion in the shallow
aquifer in their induction logs."[2] Well locations are shown in **Exhibit 4-A**, hereto.

The added, "Since the Sentinel Wells have not detected an increase in salinity, if seawater is starting to impact the FO-9 Shallow and FO10-Shallow monitoring wells, it may be coming from the north out of the Monterey Subbasin where there is already seawater intrusion, rather than directly inland from the coastline of the Seaside Basin."[3]

The Consultants concluded that the sampling frequency for monitoring wells FO-9 Shallow and FO-10 Shallow should be increased to quarterly to establish if their chloride concentrations are true trends, or anomalous.

2) Following the December 2, 2020 report the Watermaster board report, FO-9 shallow was sampled on January 5th and its chloride concentration was 92.2 mg/L. That was up from 90.4 mg/L from the last Sept 28, 2020 sample, and above the well's Chloride Threshold Level of 67 mg/L. The last 4 samples have increased above each previous sample.

In the Watermaster Seawater Intrusion Response Plan, four seawater intrusion indicators are combined to form the triggers that prompt contingency actions, including chloride concentration above threshold level. These triggers have been developed using a combination of quantitative and qualitative indicators. Because no one indicator definitively identifies seawater intrusion, a combination of indicators is necessary to identify intrusion. Watermaster staff will be working with consultants to determine whether the combination of indicators is present, and report to the Watermaster board at the February 3, 2021 board meeting.

3) On January 4, 2021 California American Water (Cal-Am) informed the Monterey Peninsula jurisdictions that several samples collected from wells in the Seaside Groundwater Basin on November 19, 2020 had a detection of perfluorooctanoic acid (PFOA) or perfluorooctane sulfonic acid (PFOS) (see **Exhibit 4-B**, attached. There is no action required by customers. While the concentration of PFOA is above the Notification Level (5.1 ppt), the combined concentration of PFOA and PFOS is significantly below the EPA lifetime health advisory level. Additional monitoring will be performed by Cal-Am.

EXHIBITS

4-A Map of Seaside Basin Well Locations

4-B January 4, 2020 Cal-Am Notification of PFOA and PFOS Detection

[2] Ibid

[3] Ibid

EXHIBIT 4-A

MONTGOMERY & ASSOCIATES
Water Resource Consultants

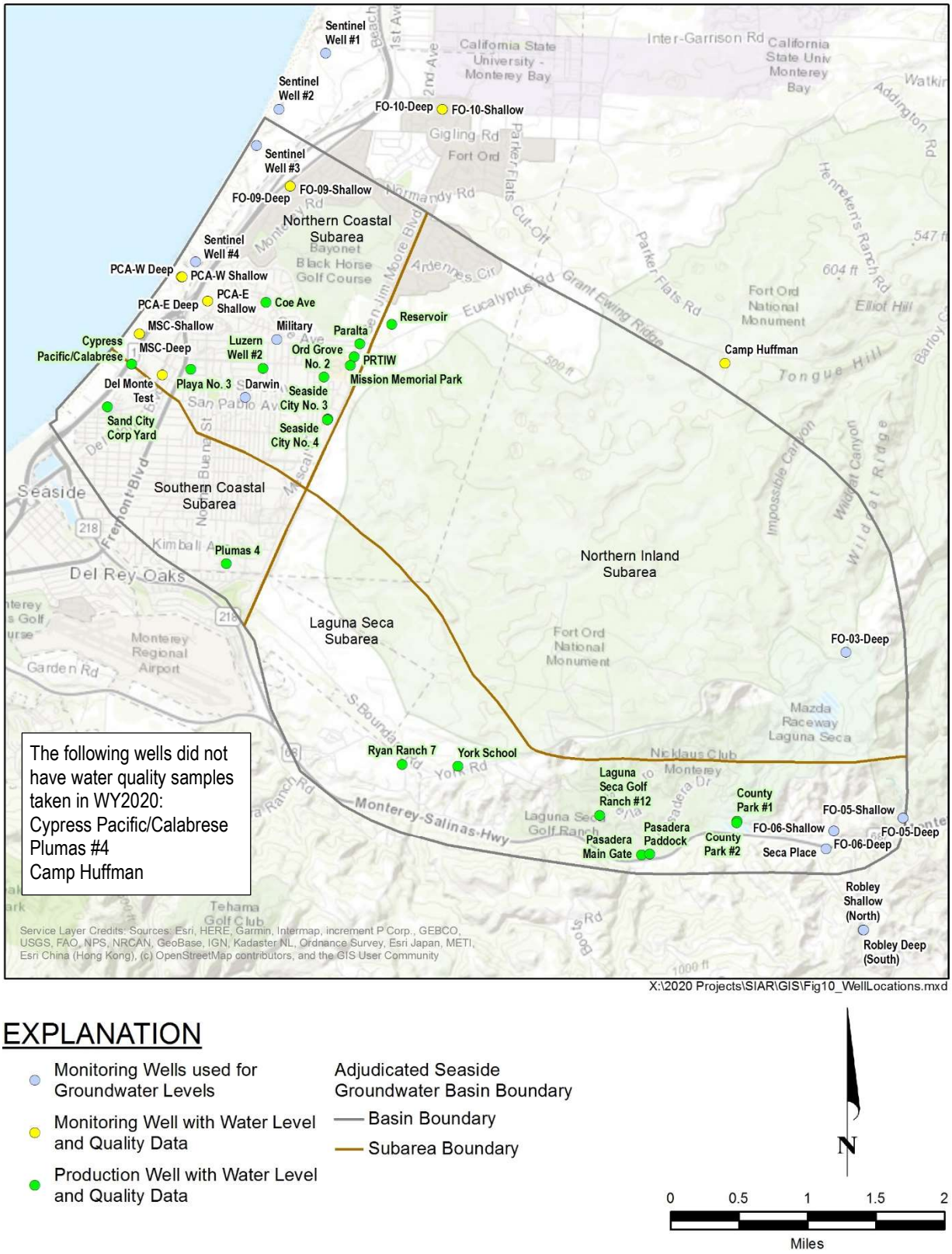

Figure 10. Wells Used for Seawater Intrusion Analyses

EXHIBIT 4-B

CALIFORNIA AMERICAN WATER

Notification of PFOA and PFOS Detection

To: Aaron Blair, City Manager of Sand City
Ben Harvey, City Manager of Pacific Grove
Charles McKee, Monterey County Chief Administrative Officer
Chip Rerig, City Manager of Carmel
Craig Malin, City Manager of Seaside
Hans Uslar, City Manager of Monterey
James A Boothe, CPUC
Jeffrey Hoyne, City Manager of Del Rey Oaks

From: Jack Wang, Ph.D.

Cc: Todd Brown, Chris Cook, Catherine Stedman and Garry Hofer, California American Water
Jonathan Weininger, Querube Moltrup, DDW
Cheryl Sandoval, Monterey County Health Department

Date: January 4, 2021

Per General Order No. DW2020-0003-DDW, California American Water (Cal Am) Monterey Water System (PSWID No. CA2710004) is required to conduct quarterly monitoring for per and polyfluoroalkyl substances (collectively, PFAS) at the following wells starting from Quarter 4 of 2020:

Well PS Code	Well Name
2710004-024	ORD GROVE WELL 02 -RAW
2710004-029	PLAYA WELL 03
2710004-050	LUZERN WELL 02 -RAW
2710004-075	BAY STREET WELL 01 (BRACKISH) RAW
2710004-076	BAY STREET WELL 02 (BRACKISH) RAW
2710004-077	TIOGA STREET WELL 04 (BRACKISH) RAW
2710004-083	TIOGA ST WELL 05 (BRACKISH) RAW

On December 1, 2020, Cal Am was informed by the American Water Central Laboratory that for samples collected on November 19, 2020, several wells had a detection of perfluorooctanoic acid (PFOA) or perfluorooctane sulfonic acid (PFOS). Some of the detections exceeded the notification level of 5.1 parts per trillion (ppt) for PFOA or 6.5 ppt for PFOS. Cal Am conducted confirmation sampling on December 9, 2020 and the initial detections at these wells were confirmed on December 17, 2020. The following table lists the wells that had exceeded the PFOA notification level:

Well PS Code	Well Name	Average PFOA (ppt)	Average PFOS (ppt)
2710004-029	PLAYA WELL 03	6.8	5.7
2710004-075	BAY STREET WELL 01 (BRACKISH) RAW	7.9	6.4
2710004-076	BAY STREET WELL 02 (BRACKISH) RAW	7.5	5.7

The notification pursuant to Health and Safety Code Section 116455 requires Cal Am to provide local agencies and the California Public Utilities Commission this notice within 30 days of receiving the results of the confirmation sample. Below is the required information for the notification:

- **Drinking Water Source:** Playa Well 03, drawing water from the Seaside Groundwater Basin. The well is located at 1237 Playa Avenue in Seaside, California. Bay Street Wells are brackish water wells located between the Pacific Ocean and Bay Street in Sand City, California.
- **Origin of Contaminant, if known:** Unknown at this time. PFOA has been used extensively in consumer products such as carpets, clothing, fabrics for furniture, paper packaging for food, and other materials (e.g., cookware) designed to be waterproof, stain-resistant or non-stick. In addition, they have been used in fire-retarding foam and various industrial processes.
- **Maximum Contaminant Level:** None. The Maximum Contaminant Level is the regulatory threshold over which water purveyors are in violation of the Safe Drinking Water Act.
- **Response Level:** 10 ppt for PFOA and 40 ppt PFOS. At the Response Level, a water purveyor is required to remove the impacted source from service or justify continued use of the source.
- **Notification Level:** 5.1 ppt for PFOA and 6.5 ppt PFOS. The Notification Level is the concentration at which the water purveyor is required to give this notice. To imagine one part per trillion, it is the equivalent of 1 second in 32,000 years.
- **Detected Concentrations:** See the information listed in the table above.
- **Operational Status of Well:** These wells are active and available to use for production as needed to meet system demand. Water from Bay Street wells is further treated at the Sand City Reverse Osmosis Treatment Plant and no PFAS was detected after the treatment.
- **Health Effects of PFOA:** Exposure to PFOA above certain levels may result in adverse health effects, including harmful effects to a developing fetus or infant, the immune system and liver, and cancer. In May 2016, the United States Environmental Protection Agency (U.S. EPA) issued a lifetime health advisory for PFOS and PFOA for drinking water at 70 parts per trillion and offers a margin of protection for all persons throughout their life from adverse health effects resulting from exposure to PFOA and PFOS in drinking water. The Office of Environmental Health Hazard Assessment (OEHHA) is recommending that the State Water Resources Control Board (SWRCB) set the notification levels for PFOA and PFOS at the lowest levels at which they can be reliably detected in drinking water using currently available and appropriate technologies.

At this time, there is no action required of our customers. While the concentration of PFOA is above the Notification Level (5.1 ppt), the combined concentration of PFOA and PFOS is significantly below the EPA lifetime health advisory level. Cal Am will continue to routinely monitor for PFOA and PFOS at the wells at the frequency recommended by the Division of Drinking Water.

If you have any questions, please contact Dr. Jack Wang at (831) 646-3269 or by email at jack.wang@amwater.com.