

**AGENDA
REGULAR MEETING
GROUNDWATER REPLENISHMENT SYSTEM STEERING COMMITTEE
(A Committee of Orange County Water District
and Orange County Sanitation District Directors*)
18700 Ward Street, Fountain Valley
Monday, January 11, 2021, 5:00 p.m.**

* Orange County Water District Notice: The GWRs Steering Committee (SC) meeting is being noticed as a joint meeting with the Orange County Water District (OCWD) Board of Directors and Orange County Sanitation District (OC San) Board of Directors for the purpose of strict compliance with the Brown Act and it provides an opportunity for all Directors to hear presentations and participate in discussions. The SC has been delegated limited authority by the OCWD and OC San Boards of Directors. Agenda items requiring Board approval will be placed on future OCWD and/or OC San Board meeting Agendas. OCWD Directors receive no additional compensation or stipend as a result of simultaneously convening this meeting.

Due to the spread of COVID-19 and as authorized by the Governor's Executive Order, OCWD will hold its January 11 GWRs Steering Committee meeting by Zoom meeting and will be available by either computer or telephone audio as follows:

Computer Audio: You can join the Zoom Meeting by clicking on the following link:

<https://ocwd.zoom.us/j/98242126597>

Meeting ID: 982 4212 6597

Telephone Audio: (669) 900 9128

PLEDGE OF ALLEGIANCE

ROLL CALL

ANNUAL REORGANIZATION OF COMMITTEE OFFICERS

- Election of Chairman (OC San)
- Election of Vice Chair (OCWD)

VISITOR PARTICIPATION

Time has been reserved at this point in the agenda for persons wishing to comment for up to three minutes to the Board of Directors on any item that is not listed on the agenda, but within the subject matter jurisdiction of the District. By law, the Board of Directors is prohibited from taking action on such public comments. As appropriate, matters raised in these public comments will be referred to District staff or placed on the agenda of an upcoming Board meeting.

At this time, members of the public may also offer public comment for up to three minutes on any item on the Consent Calendar. While members of the public may not remove an item from the Consent Calendar for separate discussion, a Director may do so at the request of a member of the public.

CONSENT CALENDAR (ITEM NO. 1)

All matters on the Consent Calendar are to be approved by one motion, without separate discussion on these items, unless a Board member or District staff request that specific items be removed from the Consent Calendar for separate consideration.

1. MINUTES OF PREVIOUS MEETING

RECOMMENDATION: Approve Minutes of the October 12, 2020 GWRS Steering Committee meeting as presented

END OF CONSENT CALENDAR

INFORMATIONAL ITEMS

2. GWRS OPERATIONS UPDATE
3. UPDATE ON GWRS FINAL EXPANSION PROJECT
4. QUARTERLY OUTREACH REPORT [OCTOBER-DECEMBER 2020]

DIRECTORS' ANNOUNCEMENTS/REPORTS

GENERAL MANAGERS' REPORT

- Next GWRS Steering Committee Meeting – April 12, 2021

DETERMINATION OF ITEMS (IF ANY) TO BE AGENDIZED FOR FUTURE OCWD BOARD MEETING AND/OR OC SAN BOARD MEETING

ADJOURNMENT

2021 GWRs Steering Committee Members

OCWD Committee Members

Roger Yoh
Cathy Green
Vacant

OCWD Alternates

Tri Ta
Dina Nguyen
Steve Sheldon

OC San Committee Members

David Shawver
Jesus Silva
Vacant

OC San Alternates

Vacant
Vacant
Vacant

In accordance with the requirements of California Government Code Section 54954.2, this agenda has been posted for viewing at the guard shack entrance and in the main lobby of the Orange County Water District, 18700 Ward Street, Fountain Valley, CA not less than 72 hours prior to the meeting date and time above. All written materials relating to each agenda item are available for public inspection in the office of the District Secretary. Backup material for the Agenda is available at the District offices for public review and can be viewed online at the District's website: www.ocwd.com.

Pursuant to the Americans with Disabilities Act, persons with a disability who require a disability-related modification or accommodation in order to participate in a meeting, including auxiliary aids or services, may request such modification or accommodation from the District Secretary at (714) 378-3233, by email at jdurant@ocwd.com by fax at (714) 378-3373. Notification 24 hours prior to the meeting will enable District staff to make reasonable arrangements to assure accessibility to the meeting.

As a general rule, agenda reports or other written documentation has been prepared or organized with respect to each item of business listed on the agenda, and can be reviewed at www.ocwd.com. Copies of these materials and other disclosable public records distributed to all or a majority of the members of the Board of Directors in connection with an open session agenda item are also on file with and available for inspection at the Office of the District Secretary, 18700 Ward Street, Fountain Valley, California, during regular business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday. If such writings are distributed to members of the Board of Directors on the day of a Board meeting, the writings will be available at the entrance to the Board of Directors meeting room at the Orange County Water District office.

**MINUTES OF THE MEETING
GROUNDWATER REPLENISHMENT SYSTEM STEERING COMMITTEE
Monday, October 12, 2020**

Due to the Governor's Executive Order N-25-20, OCWD Director Yoh called the Groundwater Replenishment System Steering Committee to order telephonically. Following the Pledge of Allegiance to the flag, the Secretary called the roll and reported a quorum.

Committee Members

David Shawver
 Roger Yoh
 James Ferryman (absent)
 Cathy Green
 Tim Shaw
 Vicente Sarmiento (absent)

Alternates

Jesus Silva
 Lucille Kring
 Erik Peterson (absent)
 Tri Ta
 Dina Nguyen (absent)
 Steve Sheldon (absent)

OCWD Directors Bilodeau, Brandman and Rowe were in attendance. All Directors participated remotely.

OCWD Staff	OCSD Staff
Mike Markus, Mehul Patel, Sandy Scott-Roberts, Gina Ayala	Jim Herberg
Christina Fuller, Assistant District Secretary	

CONSENT CALENDAR

The Consent Calendar was approved upon motion by Director Green, seconded by Director Shawver and carried [5-0] as follows.

Yes – Yoh, Shawver, Green, Silva, Ta

1. Minutes of Previous Meeting

The minutes of the GWRS Steering Committee meeting held July 13, 2020 are approved as presented.

INFORMATIONAL ITEMS

2. GWRS Operations Update

Executive Director of Operations/GWRS Mehul Patel reported that as of as of September 30, 2020, the GWRS Fiscal Year 2020-2021 production total was 24,354 af which is 1,608 af below the target fiscal year production of 25,962 af. He advised this shortfall was due to limited production caused by three separate issues. He stated that one issue for lower production was the occurrence of five demand response events in August and two in September due to heat wave events. Mr. Patel advised that the GWRS participates in a voluntary electrical load reduction program called Demand Response where production is lowered to 15 mgd when an event is called in order to reduce electrical consumption which results in payment to OCWD. He stated that the second issue limiting reduction was a two-day planned GWRS outage from August 30 to September 1 for the GWRS Final Expansion construction project to tie in new UV trains. He reported that the third issue limiting production is lower flows from OCSD due to

ongoing construction of a replacement return activated sludge line at their Plant 1 Activated Sludge #1 process.

3. Update on GWRS Final Expansion Project

GWRS Program Manager Sandy Scott-Roberts reviewed the GWRSFE Project Budget vs Expected Project Budget. She reported that the expected GWRSFE Project Budget is less than the approved project budget due to the following factors:

- The Microfiltration (MF) System for the GWRSFE Project was competitively bid in this phase and due to this process – significant savings in the cost of the MF equipment were achieved
- The Headworks Modification Project bid was significantly lower than the Engineer’s Estimate
- The Pipeline Rehabilitation Project bid was also significantly lower than the Engineer’s Estimate

She advised that OCWD was also recently notified that the project is being awarded \$3.6 million in Prop 1 grants from the IRWM grant program managed by the California Department of Water Resources.

4. Third Quarter Outreach Report [July– September 2020]

Director of Public Affairs Gina Ayala stated that there were 10 virtual tours, three joint virtual tours and three essential in-person tours during the third quarter. She reported that an updated on-demand virtual tour was posted to OCWD’s social media channels which has been viewed more than 1,800 times. Ms. Ayala provided an update on construction outreach stating that OCWD worked with the Orange County Sanitation District to distribute two notices to stakeholders.

ADJOURNMENT

There being no further business to come before the Committee, the meeting was adjourned at 5:50 p.m.

OCWD Director Roger Yoh, Chair

AGENDA ITEM SUBMITTAL

Meeting Date: January 11, 2021

To: GWRS Steering Committee

From: Mike Markus/Jim Herberg

Staff Contact: M. Patel

Budgeted: N/A

Budgeted Amount: N/A

Cost Estimate: N/A

Funding Source: N/A

Program/Line Item No.: N/A

General Counsel Approval: N/A

Project Report Approved: N/A

CEQA Compliance: N/A

Subject: GWRS OPERATIONS UPDATE

SUMMARY

Operation of the Groundwater Replenishment System (GWRS) commenced on January 10, 2008. The GWRS operations update will be discussed at the Committee.

RECOMMENDATION

Informational.

DISCUSSION/ANALYSIS

Since startup in 2008 GWRS continues to produce water that meets regulatory requirements. The quality of the secondary effluent received from the Orange County Sanitation District (OC San) continues to meet all water quality requirements while operating in the nitrified/denitrified (NDN) mode. The GWRS Microfiltration (MF) and Reverse Osmosis (RO) treatment processes have benefited in overall operational improvements as a result of OCSD's efforts to successfully maintain stable operation in the NDN mode.

The average daily average production for the quarter October through December 2020 was 90 mgd. The average production was lower than normal due to several issues as described further in the next section of this report.

The GWRS effluent production for the months of October through December 2020 is shown in the following tables:

GWRS EFFLUENT PRODUCTION (April - June 2020)

	October 2020 (million gallons)	October 2020 (acre feet)
Mira Loma, Kraemer/Miller Basin Recharge, Mid Basin Injection, Artic, and Canyon Power	1,966	6,038
Seawater Intrusion Barrier	837	2,571
Total	2,803	8,609

	November 2020 (million gallons)	November 2020 (acre feet)
Mira Loma, Kraemer/Miller Basin, Recharge, Mid Basin Injection, Artic and Canyon Power	1,940	5,956
Seawater Intrusion Barrier	784	2,407
Total	2,724	8,363

	December 2020 (million gallons)	December 2020 (acre feet)
Mira Loma, Kraemer/Miller Basin Recharge, Mid Basin Injection, Artic and Canyon Power	1,965	6,032
Seawater Intrusion Barrier	779	2,392
Total	2,744	8,424

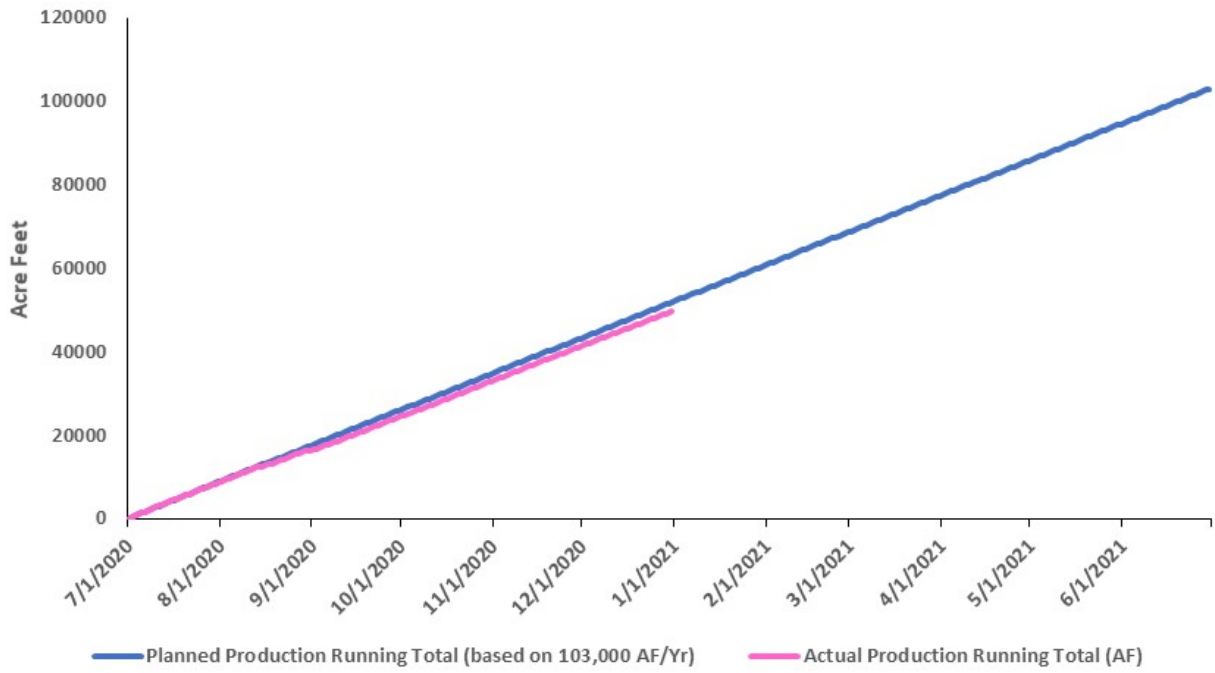
The following graph shows the 2020/2021 fiscal year production compared to the fiscal year production target of 103,000 acre feet (af). As of December 31, 2020, the GWRS Fiscal Year 2020-2021 production total is 49,749 af which is 2,175 af below our target fiscal year production of 51,924 af. This shortfall was mainly due to limited production caused by planned outages for the GWRS Final Expansion construction project. This included a one hour outage on November 2nd, a 4.5 hour outage on December 8th and a three hour outage on December 17. In addition, OCSD had some maintenance work at Plant Number 1 that limited production from that facility to 120 mgd from December 14-17. Finally, in October OCWD replaced a total of 3,150 RO membranes in three of twenty one RO units as well as a total of 2,052 MF membranes in three of thirty-six MF cells. These membrane replacement activities should improve GWRS efficiency, but also resulted in some short term production decreases.

GWRS ACTUAL PRODUCTION TO TARGET PRODUCTION

Fiscal Year

July 1, 2020 to June 30, 2021

103,000 acre feet planned



AGENDA ITEM SUBMITTAL

Meeting Date: January 11, 2021

To: GWRS Steering Committee

From: Mike Markus/Jim Herberg

Staff Contact: S. Scott-Roberts

Budgeted: N/A

Budgeted Amount: N/A

Cost Estimate: N/A

Funding Source: N/A

Program/Line Item No.: N/A

General Counsel Approval: N/A

Project Report Approved: N/A

CEQA Compliance: N/A

Subject: UPDATE ON GWRS FINAL EXPANSION PROJECT

SUMMARY

The GWRS Final Expansion Project is currently under construction by Shimmick Construction Company to expand the Advanced Water Treatment Facility and construct the GWRS pump station and flow equalization tanks at The Orange County Sanitation District (OC San) Plant No. 2. In addition, updates on construction progress on the Headworks Modification Project and Pipeline Rehabilitation Project will be presented.

RECOMMENDATION

Informational.

DISCUSSION/ANALYSIS

The GWRS Final Expansion Project is the build-out capacity of the GWRS facility that treats secondary effluent from OC San to drinking water standards for groundwater replenishment water. The current GWRS facility produces 100 MGD of purified water. The build-out treatment capacity increases the water production to a total of 130 MGD. OC San/OCWD completed a joint effluent reuse study (SP-173) in 2016 which analyzed the project components required to facilitate the GWRS Final Expansion Project. With the study complete, both agencies embarked on completing all the projects required to meet the build-out capacity of 130 MGD as part of the GWRS Final Expansion Project.

To increase the amount of water produced from the GWRS facility, additional secondary effluent from OC San must be conveyed to GWRS. With an analysis of average raw wastewater inflows to OC San's two treatment plants, both OC San Plant No. 1 and Plant No. 2 secondary effluent is required to meet the 130 MGD GWRS production goal. Therefore, new secondary effluent conveyance facilities are required at OC San Plant No. 2 to convey the secondary effluent to GWRS. These conveyance facilities include an effluent pump station, a flow equalization tank and a pipeline. In addition, recommendations from the SP-173 study showed that the segregation of the Santa Ana Regional Interceptor (SARI) trunk flows to OC San Plant No. 2 is feasible as part of the GWRS Final Expansion Project. Currently SARI flows are not permitted to be recycled through GWRS due to the industrial and treatment facility discharges that currently flow in the SARI trunk sewer. Therefore, in addition to the conveyance facilities, the OC San Plant No. 2 headworks facilities will segregate the SARI trunk flows and treat these

flows separately for discharge to the ocean outfall. This project is referred to as the Plant No. 2 Headworks Modification Project.

The Advanced Water Treatment Facility is the GWRS facility made up of the microfiltration, reverse osmosis and UV treatment processes. The AWTF will need to be expanded to treat the additional 30 MGD of secondary effluent to meet the build-out water production goal of 130 MGD total. With all the above considerations, the GWRS Final Expansion Project includes the following project contracts/components:

GWRS Final Expansion Project Components

CONTRACT 1 – Construction Phase (Shimmick)

- Advanced Water Treatment Facility Expansion
- P2 Effluent Pump Station
- P2 Flow Equalization Tanks

CONTRACT 2: - Construction Phase (JF Shea)

- Pipeline Rehabilitation

CONTRACT 3: - Construction Phase (Shimmick)

- OC San Headworks Modification

OCWD is responsible for the costs of all the projects listed above for the GWRS Final Expansion Project. However, OC San is managing the construction of the P2 Headworks Modification Project (P2-122).

The construction phase of Contract 1 was awarded to Shimmick Construction Company, Inc. in the amount of \$199.9 million – which includes the AWTF Expansion, P2 Pump Station, and the P2 Flow Equalization Tanks. The Notice to Proceed was issued on November 2, 2019 and per the allotted construction duration – the project is scheduled to be complete on February 19, 2023. Current construction activities include building the new concrete MF basement structure for the new microfiltration cells that will be added to the AWTF. At OC San Plant No. 2, Shimmick’s subcontractor, DN Tanks, is currently working on the two prestressed concrete flow equalization tanks.

Contract 2 (Pipeline Rehab) was awarded to JF Shea Construction in the amount of \$11.6 million on July 15, 2020. The Notice to Proceed was issued on August 17, 2020 and per the allotted construction duration – the project is scheduled to be complete on June 3, 2021. Current construction activities include the installation of the new steel pipe within the existing 66-inch pipeline in the “siphon” portion of the pipeline that runs under Adams Ave. in Huntington Beach. The remaining pipeline will be slip-lined with Fiberglass Reinforced Polymer (FRP) pipe.

The OC San Headworks Modification Project was awarded to Shimmick Construction Co., Inc. at the January 22nd OC San Board of Directors meeting. The Notice to Proceed was issued on March 2, 2020 and per the allotted construction duration – the project is scheduled to be complete on March 8, 2023. Current construction activities include potholing existing utilities, drilling/commissioning of dewatering wells, and preparatory measurements for new gates to isolate the headworks.

The approved GWRSE Project budget, which includes all three contracts, is shown in Table 1 below with the expected GWRSE Project Budget shown in the right column.

Table 1 – Approved GWRSE Project Budget vs Expected Project Budget

Description	Approved Project Budget	Expected Project Budget
Pre-Design		
Studies/CEQA for GWRSE Projects	\$1,000,000.00	\$890,000
Design Engineering Services		
B&V Design Phase Services (Incl. Amend. Nos. 1, 2, 4, 5)	\$7,356,450	\$7,356,450
B&V Design Services During Construction (Amend. No. 3)	\$6,345,300	\$6,345,300
Construction Management/Inspection		
Butler/Carollo CM Agreement	\$8,500,000	\$8,500,000
Specialty/Materials Construction Inspection	\$1,500,000	\$1,900,000
Total CM and Inspection	\$10,000,000	\$10,400,000
Construction		
Contract 1 - AWTF Expansion Construction	\$123,776,159	\$116,776,159
Contract 1 - P2 Effluent Pump Station Construction	\$54,611,819	\$54,611,819
Contract 1 - P2 Flow Equalization Tank Construction	\$21,554,022	\$21,554,022
Contract 2 - P2 Pipeline Rehabilitation Construction	\$18,000,000	\$11,600,000
Total Construction Phase	\$217,942,000	\$204,542,000
Engineering Support, Legal & Administration		
SPI Agreement (Process Support)	\$792,817	\$792,817
Legal/Admin/Survey/Public Outreach Support	\$2,584,183	\$2,800,000
Total ELA	\$3,377,000	\$3,592,817
Construction Contingency	\$14,283,250	\$12,073,433
OCSD Headworks Modification Project	\$50,000,000	\$48,000,000
TOTAL	\$310,304,000	\$293,200,000
Grant - State Revolving Fund		-\$5,000,000
Grant - Round 1 IRWM (Prop 1)		-\$3,589,553
Grant - USBR Title XVI		-\$1,325,000
Total Net Expected Project Budget		\$283,285,447

The expected GWRSE Project Budget is less than the approved project budget due to the following factors:

- The Microfiltration (MF) System for the GWRSE Project was competitively bid in this phase and due to this process – significant savings in the cost of the MF equipment were achieved
- The Headworks Modification Project bid was significantly lower than the Engineer's Estimate

- The Pipeline Rehabilitation Project bid was also significantly lower than the Engineer's Estimate

The expected GWRSE Project budget will continue to be tracked for planning purposes. Funding for this project is through a variety of different sources. In August 2018, OCWD Board of Directors executed a loan agreement with the EPA for a low interest rate WIFIA loan in the amount of \$135 million. The remaining \$186 million is slated to be received from the State Revolving Fund (SRF) Loan. Also, through the SRF Loan application process the GWRSE Project was awarded a total of \$5 million in grants.

OCWD was also recently notified that the project is being awarded \$3.6 million in Prop 1 grants from the IRWM grant program managed by the California Department of Water Resources.

Additionally, OC San/OCWD applied for USBR Title XVI grant for the P2 Headworks Modification Project in Summer of 2017. Staff was notified in November 2017 that the application for P2-122 received some of the highest ratings and was awarded \$1,325,000 in grant funding.

The grants described above are also shown on the expected GWRSE Project Budget.

Table 2 below shows the construction completion percentages for each of the project elements (based on expenditures and duration) as of December 30, 2020.

Table 2 – GWRSE Project Elements Completion Status Table

GWRSE Project Element	Percent Complete (Expenditures)	Percent Completed (Duration)
AWTF Expansion	36%	33%
P2 Effluent Pump Station	36%	33%
P2 Flow Equalization Tanks	36%	33%
Pipeline Rehabilitation	27%	47%
OCSD Headworks Modification*	20%	26%

**Values as of December 14, 2020*

The detailed construction progress criteria for each of the contracts will be presented during this meeting in addition to construction photos and milestones.

PRIOR BOARD/COMMITTEE ACTIONS

AGENDA ITEM SUBMITTAL

Meeting Date: January 11, 2021

To: GWRS Steering Committee

From: Mike Markus

Staff Contact: G. Ayala/C. Nettles

Budgeted: N/A

Budgeted Amount: N/A

Cost Estimate: N/A

Funding Source: N/A

Program/Line Item No.: N/A

General Counsel Approval: N/A

Engineers/Feasibility Report: N/A

CEQA Compliance: N/A

SUBJECT: GWRS FOURTH QUARTER OUTREACH REPORT (OCT – DEC. 2020)

SUMMARY

Outreach for the Orange County Water District (OCWD) and its programs and projects, including the Groundwater Replenishment System (GWRS), continues with a major focus to build and maintain support for the GWRS, grow virtual outreach programs, and field media interest and coverage.

Attachment(s):

- 2020 fourth quarter news clip report

RECOMMENDATION

Informational

DISCUSSION/ANALYSIS

Tours:

In-person, non-essential, GWRS tours were suspended in March in accordance with the District's COVID-19 response plan. To facilitate continued GWRS outreach, OCWD implemented a virtual tour program. There were eight virtual tours and one joint virtual tour during the fourth quarter of 2020. The tours accounted for approximately 600 guests. Following is a list of groups, companies, schools, and organizations that participated in the tours:

- Three public tours
- Two California State University, Fullerton tours
- Joint tour with OC San
- California State University, Long Beach
- University of California, Irvine
- California Special Districts Association

In addition, a 10-minute [on-demand general tour](#) was created to compliment a previously produced 30-minute [on-demand technical tour](#). The tours are posted to the District's social media channels and have collectively been viewed more than 2,500 times.

First Quarter 2021 Virtual Tours:

- January 8 – Public tour
- January 26 – Rowland High School
- February 5 – Public tour
- March 5 – Public tour

Speakers Bureau:

Below is a listing of the October through December speakers' bureau engagements that included a portion of the presentation about the GWRS. As with tours, speakers' bureau engagements moved to a virtual format in March.

- During the week of October 5, Han Gu co-presented with Carollo at the virtual Water Environment Federation's Annual Technical Exhibition and Conference on his United States Bureau of Reclamation-funded work on closed circuit reverse osmosis and forward osmosis.
- On October 13, John Kennedy spoke to the Fox Canyon Groundwater Basin group.
- On October 14, Mehul Patel participated in a panel discussion about the documentary Brave Blue World, hosted by the California Water Environment Association.
- On November 12, General Manager Mike Markus spoke to the University of San Francisco departments of environmental science, engineering and environmental studies during a webinar titled "Challenges and Opportunities for Water Conservation and Reuse in California."
- On November 19, Director of Research Dr. Megan Plumlee provided the keynote address at the National Alliance for Water Innovation annual meeting. Dr. Plumlee spoke about the value of low-TRL research at water treatment plants.
- On December 3, Mike Markus gave an overview of OCWD followed by a tour of the GWRS to state and local elected officials attending the California Special Districts Association's program "Advancing Groundwater Sustainability."
- On December 4, Mike Markus participated as a speaker during Sustainable Silicon Valley's WaterPalooza! event.
- On December 16, Jason Dadakis gave a webinar presentation to the Capítulo Chileno de la Asociación Latinoamericana de Hidrología Subterránea para el Desarrollo (ALHSUD Chile) on the topic of the replenishment of aquifers with recycled water.

First Quarter 2021 Speakers Bureau:

- January 15 – ACC-OC 2021 New City Council Member Orientation
- Early 2021 (Date TBD) - eThekweni Municipality (Durban), South Africa and Water, Sanitation and Hygiene Finance (WASH-FIN)
- March 9 - Association of Engineering Geologists

Webinars

In May, OCWD launched a monthly webinar series on emerging and newsworthy topics. Each webinar features an OCWD expert and District partner as they discuss important OCWD programs and projects that impact the region's water supply. The following webinars were held in the fourth quarter and included the GWRS:

- [Exploring Careers in the Water and Wastewater Industry](#)
- [Soarin' Over the Surface Recharge System](#)

Media

There were 15 global news hits for the GWRS. This number reflects multiple hits of the same story. The total reach for the combined articles was approximately 7.2 million. The news clip report is attached.

Press Releases, Electronic Publications and Videos:

- Staff wrote and distributed one press release which mentioned the GWRS:
 - [OCWD Retains 'AAA' Fitch Rating For 13th Consecutive Year](#)
- Staff wrote and distributed the October, November and December issues of Hydrospectives, OCWD's monthly e-newsletter, which mention or feature articles about the GWRS:
 - <https://www.ocwd.com/news-events/newsletter/2020/october-2020/>
 - <https://www.ocwd.com/news-events/newsletter/2020/november-2020/>
 - <https://www.ocwd.com/news-events/newsletter/2020/december-2020/>
- Staff posted three videos to YouTube, which mention or feature the GWRS:
 - [2020 Year in Review](#)
 - [GWRS Time Lapse Video \(February – November 2020\)](#)
 - [GWRS General Tour](#) (also linked above in Tour section)

Website:

- The GWRS Final Expansion web page was updated to include a new construction time lapse video, and additional photos of interest to residents and the community.
 - <https://www.ocwd.com/gwrs/final-expansion/>
- There were 10,325 views of the GWRS portion of OCWD's website. The top three web pages within the GWRS section of the website were: 1) steering committee – Cathy Green, 2) GWRS, 3) the process. A single user may visit multiple pages within the website on one visit. These views relate to external traffic and do not include internal OCWD views.

MEDIA CLIPS
GWRS
OCTOBER - DECEMBER 2020

Date	Source	Headline	Country	URL	Reach
15	Water Online	Orange County Water District Board Elects New Leadership	United States	https://www.wateronline.com/doc/orange-county-water-district-board-elects-new-leadership-0001	95,950
14	Daily Breeze	Doheny desalination plan met with caution, delays	United States	https://www.dailybreeze.com/2020/12/22/doheny-desalination-plan-met-with-caution-delays/	322,301
13	Orange County Register	Doheny desalination plan met with caution, delays	United States	https://www.ocregister.com/2020/12/22/doheny-desalination-plan-met-with-caution-delays/	2,184,192
12	Chemicals & Chemistry - Powered by Dow Jones	Environmental Research; University of California Details Findings in Environmental Research (Ecological ...	United States	https://americaninfrastructuremag.com/californias-critical-role-in-promoting-clean-water-infrastructure/	2,137,019
11	American Infrastructure	California's Critical Role in Promoting Clean Water Infrastructure	United States	http://newsantaana.com/the-city-of-santa-ana-responds-to-our-post-regarding-toxins-in-our-water-and-soil/	915
10	New Santa Ana	The City of Santa Ana responds to our post regarding toxins in our water and soil	United States	http://newsantaana.com/the-city-of-santa-ana-responds-to-our-post-regarding-toxins-in-our-water-and-soil/	67,029

MEDIA CLIPS

GWRS

OCTOBER - DECEMBER 2020

Date	Source	Headline	Country	URL	Reach
9	19-Nov-2020 California Water News Daily	Orange County Water District to Receive Special Districts Award	United States	http://californiawaternewsdaily.com/industry/orange-county-water-district-to-receive-special-districts-award/	4,135
8	16-Nov-2020 Water Online	Orange County Water District Retains 'AAA' Fitch Rating For 13th Consecutive Year	United States	https://www.wateronline.com/doc/orange-county-water-district-retains-aaa-fitch-rating-for-th-consecutive-year-0001	52,716
7	10-Nov-2020 Water Online	More Of A Good Thing: Utilities Prioritize Water Reuse Strategies	United States	https://www.wateronline.com/doc/more-of-a-good-thing-utilities-prioritize-water-reuse-strategies-0001	52,716
6	02-Nov-2020 Water Online	Orange County Water District Named 2020 Special Districts Award Winner For Virtual Outreach Response To COVID-19	United States	https://www.wateronline.com/doc/orange-county-water-district-award-winner-for-virtual-response-to-covid-0001	43,515
5	01-Nov-2020 Unknown	RatePayers Save Nearly \$42 Million on Infrastructure	United States	http://www.hblocalnews.com	-
4	21-Oct-2020 Water Online	Orange County Water District Honored With Three Global Awards For COVID-19 Response	United States	https://www.wateronline.com/doc/orange-county-water-district-honored-with-three-global-awards-for-covid-response-0001	43,515

MEDIA CLIPS

GWRS

OCTOBER - DECEMBER 2020

Date	Source	Headline	Country	URL	Reach
3 12-Oct-2020	Water Finance & Management	World's largest water reuse facility gets CWSRF loan	United States	https://waterfm.com/worlds-largest-water-reuse-facility-gets-cwsrf-loan/	5,418
2 09-Oct-2020	Orange County Register	Vast new reservoir in south Orange County gets its first drops of water	United States	https://www.ocregister.com/2020/10/09/vast-new-reservoir-in-south-orange-county-gets-its-first-drops-of-water/	2,151,463
1 02-Oct-2020	Water Online	Orange County Water District Celebrates California Water Professionals Appreciation Week Oct. 3-11, 2020	United States	https://www.wateronline.com/doc/orange-county-water-district-celebrates-california-water-appreciation-week-oct-0001	37,813
				Total Reach	7,198,697