

**AGENDA
REGULAR MEETING
GROUNDWATER REPLENISHMENT SYSTEM STEERING COMMITTEE
(A Committee of Orange County Water District
and Orange County Sanitation District Directors*)
OCWD Boardroom 18700 Ward Street, Fountain Valley
Monday, July 9, 2018, 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 (OCSD) 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 OCSD Boards of Directors. Agenda items requiring Board approval will be placed on future OCWD and/or OCSD Board meeting Agendas. OCWD Directors receive no additional compensation or stipend as a result of simultaneously convening this meeting.

PLEDGE OF ALLEGIANCE

ROLL CALL

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 April 9, 2018 GWRS Steering Committee meeting as presented

END OF CONSENT CALENDAR

INFORMATIONAL ITEMS

2. DISPOSAL OF ANIMAL REMAINS VIA WATER CREMATION
3. GWRS OPERATIONS UPDATE
4. UPDATE ON GWRS FINAL EXPANSION PROJECT
- 5.. QUARTERLY OUTREACH REPORT [APRIL-JUNE 2018]

DIRECTORS' ANNOUNCEMENTS/REPORTS

GENERAL MANAGERS' REPORT

- Next GWRS Steering Committee Meeting – October 8, 2018

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

ADJOURNMENT

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, April 9, 2018**

OCWD Director Yoh called the Groundwater Replenishment System Steering Committee meeting to order in the Boardroom at the District office. Following the Pledge of Allegiance to the flag, the Secretary called the roll and reported a quorum.

Committee Members

Roger Yoh - Chair
Greg Sebourn
James Ferryman
Cathy Green
Steve Jones (Absent)
Phil Anthony (Absent)

Alternates

Donald Wagner
Phil Hawkins
Tim Shaw
Denis Bilodeau
James Vanderbilt (Absent)
Dina Nguyen (Absent)

*OCWD Director Bruce Whitaker was in attendance.

| OCWD Staff | OCSD Staff |
|--|-------------------|
| Gina Ayala | Jim Herberg |
| Mehul Patel, Bill Dunivin, Sandy Scott-Roberts | Jennifer Cabral |
| Christina Fuller, Assistant District Secretary | |

CONSENT CALENDAR

The Consent Calendar was approved upon motion by Director Sebourn, seconded by Director Green, with Director Hawkins abstaining, and carried [5-0-1] as follows.

Yes – Sebourn, Yoh, Ferryman, Green, Wagner
Abstain – Hawkins

1. Minutes of Previous Meeting

The minutes of the GWRS Steering Committee meeting held January 8, 2018 are approved as presented.

INFORMATIONAL ITEMS

2. GWRS Operating Budget Summary

Director of Water Production/GWRS Mehul Patel reminded the Committee that OCWD is required to prepare and submit its annual operating budget for the GWRS to OCSD. He stated the budget will be submitted to the OCWD Board of Directors for its consideration at the April 2018 Board meeting. Mr. Patel reviewed the recommended budget and advised of the joint agency efforts to help control costs.

3. GWRS Operations Update

Mr. Patel reported that the average daily average production for the quarter, January through March 2018 was 96.8 mgd. He stated that as of March 31, 2018, the GWRS Fiscal Year to Date production is 79,425 af which is 2,104.5 af above target production of 77,320.5 af for the first quarter of the 17/18 fiscal year.

4. Update on GWRS Final Expansion

GWRS Program Manager Sandy Scott-Roberts reminded the Committee that OCWD has entered into an agreement with Black & Veatch (B&V) for the design of the remaining four GWRS Final Expansion (GWRSFE) Projects. She reported that The B&V design for the GWRSFE Project is currently 24% complete based on the B&V agreement amount of \$5,663,000. She stated the draft Preliminary Design Report has been submitted and reviewed by OCWD and OCSD staff and will be finalized by the end of April 2018. Ms. Scott-Roberts reviewed the project budget and schedule. She reported that OCSD/OCWD applied for USBR Title XVI grant for P2-122, the P2 Headworks Modification Project. Staff was notified in November that the application for P2-122 received some of the highest ratings and will be awarded \$1,325,000 in grant funding. She advised that staff is currently finalizing the GWRSFE application for WIFIA which would recover approximately 49% of the projects design and construction cost, if received. She reported that staff also applied for the State Revolving Fund (SRF) Loan for the GWRSFE Project.

5. Summary of GWRS Bottled Water and 10th Anniversary Outreach

Principal Communications Specialist Gina Ayala reported that the outreach program related to the bottling of GWRS water and the commemoration of the 10th anniversary of the GWRS began in February 2017 and concluded in March 2018. Ms. Ayala reviewed the activities, events and media coverage that fulfilled the campaigns objectives. She reported on the success of setting the new Guinness World records title for most recycled water in a 24 hour period at the GWRS 10th anniversary event held on February 16, 2018.

6. Quarterly Outreach Report [January - March 2018]

Ms. Ayala stated the report and media clips are included in the packet.

ADJOURNMENT

There being no further business to come before the Committee, the meeting was adjourned at 6:05 p.m.

OCWD Director Roger Yoh, Chair

AGENDA ITEM SUBMITTAL

Meeting Date: July 9, 2018

To: GWRS Steering Committee

From: James D. Herberg

Staff Contact: James E. Colston

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: DISPOSAL OF ANIMAL REMAINS VIA WATER CREMATION

SUMMARY

As recommended by the GWRS Steering Committee, OCSD engaged its Board of Directors to consider adopting a prohibition of the discharge of hydrolysate from human remains to the sewer. The OCSD Board concurred and directed staff to reopen the Wastewater Discharge Regulations (Ordinance) to include a new provision to prohibit the discharge of hydrolysate from human remains to the sewer. OCSD staff will provide an update on OCSD Board actions to date and conduct a discussion of alkaline hydrolysis for animal remains within OCSD's service area.

RECOMMENDATION

Informational.

DISCUSSION/ANALYSIS

Based on the GWRS Steering Committee recommendation, OCSD raised the issue of prohibiting the discharge of human hydrolysate to the sewer to the OCSD Board of Directors. The OCSD Board discussed the matter then concurred with the recommendation. The OCSD Board directed staff to reopen the Wastewater Discharge Regulations (Ordinance) to include a new provision to prohibit the discharge of human hydrolysate to the sewer. OCSD staff plan to complete the Ordinance amendments before 2020, ahead of the timeline set by the state of California to allow these discharges.

With regards to the use of alkaline hydrolysis for animal remains, OCSD currently has two facilities (and one pending wastewater application) that discharge hydrolysate from animal remains to the sewer. OCSD test results of the hydrolysate show that the discharge is low in volume but highly concentrated in conventional sewage contaminants of Biochemical Oxygen Demand (BOD) and Total Suspended Solids (TSS). As a strong alkaline agent is used in the hydrolysis process, the waste must be neutralized to pH less than 12 prior to discharge to the sewer.

| Pollutant Concentration | Animal | Sewage |
|-------------------------|--------|--------|
| BOD (mg/L) | 31,000 | 312 |
| TSS (mg/L) | 7,340 | 362 |
| pH (before treatment) | >12 | 7.8 |

PRIOR RELEVANT GWRS, OCWD, AND OCSD BOARD ACTION(S)

1/8/2018 M18-xx: GWRS Steering Committee recommended that OCSD modify its Wastewater Ordinance to prohibit the receipt of hydrolysate through the sewer system.

7/19/17 M17-100: OCWD adopts a position of “Oppose unless amended” on Assembly Bill 967 (Gloria) Human Remains Alkaline Hydrolysis.

4/19/17 M17-53: OCWD adopts the following positions on State Legislation are hereby adopted: Amend Position on AB 967 (Gloria) Human Remains Disposal – Alkaline Hydrolysis.

1/27/2016: OCSD conducted the first reading of an amended wastewater ordinance (subsequently approved after the second reading). The discussion included an amendment to prohibit dischargers of wastewater from alkaline hydrolysis of remains. That amendment was rejected in favor of allowing the continued practice of the discharge of hydrolysate from animals.

AGENDA ITEM SUBMITTAL

Meeting Date: July 9, 2018

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 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 (OCSD) 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 April through June 2018 was 93.9 mgd. OCSD staff is working to optimize flow availability while OCWD staff works on operational strategies to make as much water as possible. The GWRS treatment plant has been operating satisfactorily.

OCWD is planning to complete installation of new RO membranes in three of our 21 RO units. These three RO units contain the oldest membranes in the RO system and were installed in 2013. The overall water quality from the RO process remains very good, but this replacement should further improve water quality while also reducing energy demand for these three RO units. The installation of the new RO membranes is anticipated to start in the late summer of 2018.

The GWRS effluent production for the months of April through June 2018 is shown in the following tables:

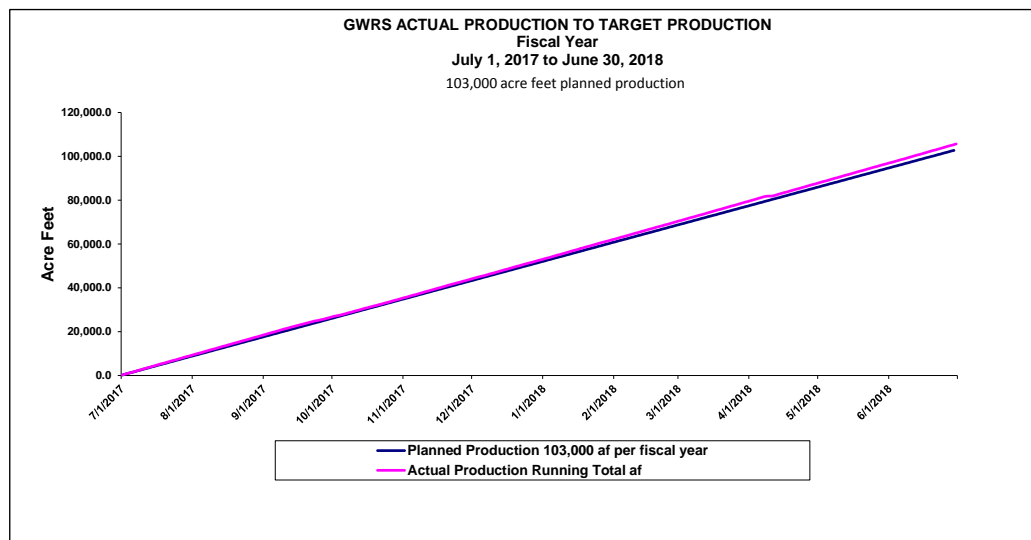
GWRS EFFLUENT PRODUCTION (January – March 2018)

| | April 2018 (million gallons) | April 2018 (acre feet) |
|--|---------------------------------|---------------------------|
| Mira Loma, Kraemer/Miller Basin Recharge, Mid Basin Injection, Artic, and Canyon Power | 2,167 | 6,652 |
| Seawater Intrusion Barrier | 498 | 1,530 |
| Total | 2,665 | 8,182 |

| | May 2018 (million gallons) | May 2018 (acre feet) |
|--|-------------------------------|-------------------------|
| Mira Loma, Kraemer/Miller Basin, Recharge, Mid Basin Injection, Artic and Canyon Power | 2,296 | 7,048 |
| Seawater Intrusion Barrier | 691 | 2,121 |
| Total | 2,987 | 9,169 |

| | June 2018 (million gallons) | June 2018 (acre feet) |
|---|--------------------------------|--------------------------|
| Mira Loma, Kraemer/Miller Basin Recharge, Mid Basin Injection, Artic and Canyon Power | 2,188 | 6,718 |
| Seawater Intrusion Barrier | 705 | 2,166 |
| Total | 2,893 | 8,884 |

The following graph shows the 2017/2018 fiscal year production compared to the fiscal year production target of 103,000 acre feet (af). As of June 30, 2018 the GWRS Fiscal Year 2017-2018 final production total was 105,659 af which is 2,659 af above our target production of 103,000 af for the 2017-2018 fiscal year. This is the highest fiscal year production ever achieved by the GWRS.



AGENDA ITEM SUBMITTAL

Meeting Date: July 9, 2018

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

Staff from the Orange County Sanitation District (OCSD) and Orange County Water District (OCWD) are completing the design phase of the GWRS Final Expansion Project. An update on the work progress will be provided.

RECOMMENDATION

Informational.

DISCUSSION/ANALYSIS

The GWRS Final Expansion Project is the build-out capacity of the GWRS facility that treats secondary effluent from OCSD 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. OCSD/OCWD recently completed a joint effluent reuse study (SP-173) which analyzed the project components required to facilitate the GWRS Final Expansion Project. With the study complete, both agencies are proceeding through the design phase of the GWRS Final Expansion Project.

To increase the amount of water produced from the GWRS facility, additional secondary effluent from OCSD must be conveyed to GWRS. With an analysis of average raw wastewater inflows to OCSD's two treatment plants, both OCSD 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 OCSD 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 OCSD 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 OCSD 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 projects:

| GWRS Final Expansion Project Description | Capital Cost |
|---|-----------------------|
| Advanced Water Treatment Facility Improvements | \$ 130,000,000 |
| P2 Effluent Pump Station | \$ 17,700,000 |
| Pipeline Rehabilitation Project | \$ 37,000,000 |
| OCSD P2 Headworks Modification Project | \$ 44,700,000 |
| P2 Flow Equalization Tank Project | \$ 23,400,000 |
| TOTAL GWRS FINAL EXPANSION PROJECT COST | \$ 252,800,000 |

OCWD is responsible for the costs of all the projects listed above for the GWRS Final Expansion Project. However, OCSD will manage the design and construction of the P2 Headworks Modification Project (P2-122). OCSD has entered into an agreement with CDM Smith for the design of the Headworks Modification Project. OCWD has entered into an agreement with Black & Veatch for the design of the remaining four GWRS Final Expansion Projects.

The B&V design for the GWRSFE Project, as of the latest invoice through May 25, 2018, is currently 45% complete based on the B&V agreement amount of \$6,584,300. Components of the draft design submittal 2 (DS2) which correlates with ~60% design documents have been submitted and reviewed by OCWD staff. The complete DS2 will be submitted to OCSD and OCWD staff in August 2018.

The CDM Smith design for the OCSD Headworks Modification Project (P2-122) through January 2018 is 36% complete based on the CDM Smith agreement amount of \$5,319,930. The P2-122 draft Preliminary Design Report has been submitted for review by OCSD/OCWD staff.

OCSD/OCWD applied for USBR Title XVI grant for P2-122, the P2 Headworks Modification Project. Staff was notified in November that the application for P2-122 received some of the highest ratings and will be awarded \$1,325,000 in grant funding. This project is being managed through design/construction by OCSD, but costs incurred by OCSD will be reimbursed by OCWD.

In April 2017, staff submitted a Letter of Interest (LOI) for an EPA WIFIA loan in the amount of \$123.9 million or 49% of the estimated project cost. OCWD was selected to submit an application as a result of the LOI. Staff is currently finalizing the GWRSFE application for WIFIA. This loan would recover approximately 49% of the projects design and construction cost, if received. Staff also applied for the State Revolving Fund (SRF) Loan for the GWRSFE Project.

PRIOR BOARD/COMMITTEE ACTIONS

AGENDA ITEM SUBMITTAL

Meeting Date: July 9, 2018

To: GWRS Steering Committee

From: Mike Markus

Staff Contact: E. Torres/G. Ayala

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: QUARTERLY OUTREACH REPORT [APRIL–JUNE 2018]

SUMMARY

Outreach for the Groundwater Replenishment System (GWRS) continues with a major focus to build and maintain support, as well as field media interest and media coverage. The following is a report of activities from April through June 2018.

Attachment(s):

- April 2018 - June 2018 News Clip Report

RECOMMENDATION

Informational

DISCUSSION/ANALYSIS

Tours Update:

From April through June 2018, OCWD conducted 45 tours for 1,288 guests. Below is a monthly breakdown of the number of tours and guests:

| Month | # of Tours | # of Guests |
|--------------|-------------------|--------------------|
| April | 14 | 416 |
| May | 16 | 484 |
| June | 15 | 388 |

The following is a list of groups that toured the GWRS during the first quarter:

- Golden West College
- Disneyland Resort
- Cal State Long Beach – Nursing Program, AIChE
- Fountain Valley High School
- Citrus College
- Pegasus School
- California Department of Water Resources
- City of Fountain Valley Water Department

- Santiago Canyon College
- Costa Mesa Sanitary District
- Central Arizona Water Conservation District
- Santa Ana Valley High School
- Cal Poly Pomona
- Chapman University
- Jordan High School
- Girl Scouts Troop 272
- Society of Women Engineers
- Former Los Angeles Mayor Antonio Villaraigosa
- Student Chapter of the American Meteorological Society at University California, Irvine
- AUHS School of Nursing
- Monterey One Water
- North Meets South Water Tour
- GEAR UP
- Yorba Linda Water District
- Vanguard University Nursing Program
- University of San Francisco Nursing Program
- Korean Water and Wastewater Works Association
- Public Tours

Upcoming Tours

- Hydronautics, July 11
- Chapman University, July 13 and 20
- ERDT Exchange Program, July 17, 24 and 27, and August 7, 16 and 17
- Orange County Health Care Agency, July 19
- Orange Coast College, July 20 and August 7
- Homeschool Concierge, July 20
- California State Summer School for Math and Science (COSMOS), July 26
- Long Beach Water Department, July 27
- Azusa Pacific University Nursing Program, August 9
- Stanbridge University Nursing Program, September 13
- Drinking Water Research Foundation, October 2
- American Association of University Women, October 11
- Groundwater Adventure Tour, October 25
- Public Tours, July 6, August 3, September 7, and October 5

Speakers Bureau:

Below is a listing of the April through June speakers bureau engagements that included a portion of the presentation about the GWRS.

- Pure Water San Diego, April 10
- 2018 CWEA Annual Conference, April 19

- Earth Day event at Downtown Disney, April 22
- Santa Ana City Council, May 1
- LA Times Food Bowl - Sous Chef Challenge, May 1
- Lincoln Club - Water Committee, May 22
- American Academy of Environmental Engineers and Scientists, May 24
- Groundwater Resources Association of CA, June 5
- Concasan 2018 - Brazil Conference, June 6
- WHALES Program (Watershed Heroes-Actions Linking Education to Stewardship) OC Coastkeeper, June 8
- Virtual presentation for the 'Municipal Water Reuse Initiative' conference that took place in South Africa, June 21
- International Desalination Association Water Reuse and Recycling Conference, June 24
- Connect-to-Council Meeting, Santa Ana, June 24
- Water Technology Dept - Citrus College/Advisory Council Meeting, June 27

Upcoming Speakers Bureau

- Singapore International Water Week, July 6
- WEF Disinfection & Reuse Symposium, July 30
- 10th Annual Green & Health Expo - Filipino American Chamber of Commerce of O.C., August 23

Media:

- There were 297 global news hits for the GWRS. This number includes same source stories that ran in multiple media outlets. The total potential reach for these articles is 71.2 million. The GWRS news clips report for April – June 2018 is attached.

Awards:

- OCWD received the Honor Award for Research from the American Academy of Environmental Engineers and Scientists for work to evaluate a more cost-effective and environmentally-friendly method of analysis of N-nitrosodimethylamine (NDMA) in drinking water and recycled water that will improve public health protection. (April 2018)
- OCWD and OCSD received the Grand Prize for Environmental Communications for the Groundwater Replenishment System (GWRS) Bottled Water Campaign. The award was given by the American Academy of Environmental Engineers and Scientists. (April 2018)
- OCWD, OCSD and Dick Jones Communications received a Ragan's 2017 PR Daily Honorable Mention in the Press Event or Media Tour category for "Purified Recycled Water Takes on Hollywood," the GWRS bottled water launch. (April 2018)
- OCWD and OCSD received a Platinum Hermes Award for the Advanced Purified Bottled Water Campaign in the category Public Relations/Communications/Strategic Programs/78c. PR Campaign. Hermes Creative Awards is an international competition administered by the Association of Marketing and Communication Professionals. (April 2018)
- OCWD Operations Manager Tyson Neely received the Southwest Membrane Operator Association 2018 Outstanding Plant Operator Award for outstanding service

and dedication to membrane operations and for leadership within the industry. (June 2018)

Press Releases, Notices and Publications:

- OCWD issued the following press release this quarter that mentioned or featured the GWRS:
 - [Orange County Water District Awarded For Leadership and Innovation in Research and Water Reuse](#)
- Staff wrote and distributed three issues of Hydrospectives, OCWD's monthly e-newsletter, which mention or feature articles about the GWRS: <https://www.ocwd.com/news-events/newsletter/>.
- OCWD's weekly Water Lines were distributed electronically to keep stakeholders informed of important water news and issues. They often contain GWRS news and are posted on OCWD's website: <http://www.ocwd.com/news-events/ocwd-in-the-news/>.
- OCWD distributed construction notices to impacted stakeholders regarding the Mid Basin Centennial Park Injection Well Project in April 2018 and June 2018.

MEDIA CLIPS - APRIL 2018 FINAL

AGENT NAME: GWRS RELATED/MENTIONS

NUMBER OF HITS: 191

| | Date | Source | Headline | Country | URL | Reach |
|---|-------------|---|--|---------|---|--------|
| 1 | 27-Apr-2018 | Filtration Products | DOW FilmTec RO elements reduce energy demands | U.S. | http://www.filtration-products.com/dow-filmtec-ro-elements-reduce-energy-demands/ | 68 |
| 2 | 27-Apr-2018 | 中国膜工业协会 | 赛诺膜收到来自美国加州橙郡21世纪水厂超滤产品订单 | China | http://www.membranes.com.cn/xingyedongtai/xiehuidongtai/2018-04-28/32712.html | 537 |
| 3 | 27-Apr-2018 | 中国水网 | 第一家中国超滤品牌进入加州橙郡21世纪水厂 | China | http://www.h2o-china.com/news/274148.html | 27473 |
| 4 | 25-Apr-2018 | Stock Market - FinancialContent | Black & Veatch Retains Engineering News-Record Top Ranking in Telecommunications | U.S. | http://markets.financialcontent.com/gafri/news/read?GUID=36193368 | 92 |
| 5 | 25-Apr-2018 | WorldNetDaily - FinancialContent | Black & Veatch Retains Engineering News-Record Top Ranking in Telecommunications | U.S. | http://markets.wnd.com/worldnetdaily/news/read/36193368/black_&_veatch_retains_engineering_news | 448 |
| 6 | 25-Apr-2018 | HydroWorld - FinancialContent | Black & Veatch Retains Engineering News-Record Top Ranking in Telecommunications | U.S. | http://markets.financialcontent.com/pennwell.hydroworld/news/read/36193368/black_&_veatch_retains_engineering_news | 105649 |
| 7 | 25-Apr-2018 | The Network Journal - Financial Content | Black & Veatch Retains Engineering News-Record Top Ranking in Telecommunications | U.S. | http://markets.financialcontent.com/tnj/news/read/36193368/black_&_veatch_retains_engineering_news | 105649 |
| 8 | 25-Apr-2018 | Rockford Register Star - FinancialContent | Black & Veatch Retains Engineering News-Record Top Ranking in Telecommunications | U.S. | http://markets.financialcontent.com/gatehouse.rrstar/news/read/36193368/black_&_veatch_retains_engineering_news | 105649 |
| 9 | 25-Apr-2018 | The Buffalo News - FinancialContent | Black & Veatch retains Engineering News-Record top ranking in telecommunications | U.S. | http://markets.buffalonews.com/buffnews/news/read/36193254/black_&_veatch_retains_engineering_news | 1203 |

MEDIA CLIPS - APRIL 2018 FINAL

AGENT NAME: GWRS RELATED/MENTIONS

NUMBER OF HITS: 191

| | Date | Source | Headline | Country | URL | Reach |
|----|-------------|---|--|---------|---|--------|
| 10 | 25-Apr-2018 | Investor Place - Markets - Financialcontent.com | Black & Veatch Retains Engineering News-Record Top Ranking in Telecommunications | U.S. | http://markets.financialcontent.com/investplace/news/read/36193368/black & veatch retains engineering news | 734 |
| 11 | 25-Apr-2018 | WRAL - FinancialContent | Black & Veatch Retains Engineering News-Record Top Ranking in Telecommunications | U.S. | http://markets.financialcontent.com/wral/news/read/36193368/black & veatch retains engineering news | 1758 |
| 12 | 25-Apr-2018 | Wall Street Select - FinancialContent | Black & Veatch Retains Engineering News-Record Top Ranking in Telecommunications | U.S. | http://investor.wallstreetselect.com/wss/news/read/36193368/black & veatch retains engineering news | 1993 |
| 13 | 25-Apr-2018 | Aleris - FinancialContent | Black & Veatch Retains Engineering News-Record Top Ranking in Telecommunications | U.S. | http://markets.financialcontent.com/aleris/news/read/36193368/black & veatch retains engineering news | 105649 |
| 14 | 25-Apr-2018 | Dow Theory Letters - Financial Content | Black & Veatch Retains Engineering News-Record Top Ranking in Telecommunications | U.S. | http://markets.financialcontent.com/dowtheoryletters/news/read/36193368/black & veatch retains engineering news | 105649 |
| 15 | 25-Apr-2018 | Kelowna Daily Courier - FinancialContent | Black & Veatch Retains Engineering News-Record Top Ranking in Telecommunications | Canada | http://markets.kelownadailycourier.ca/kelownadailycourier/news/read/36193368/black & veatch retains engineering news | 105649 |
| 16 | 25-Apr-2018 | Minyanville - FinancialContent | Black & Veatch Retains Engineering News-Record Top Ranking in Telecommunications | U.S. | http://finance.minyanville.com/minyanville/news/read/36193368/black & veatch retains engineering news | 1377 |
| 17 | 25-Apr-2018 | Mammoth Times - FinancialContent | Black & Veatch Retains Engineering News-Record Top Ranking in Telecommunications | U.S. | http://business.mammothtimes.com/mammothtimes/news/read/36193368/black & veatch retains engineering news | 57 |

MEDIA CLIPS - APRIL 2018 FINAL

AGENT NAME: GWRS RELATED/MENTIONS

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NUMBER OF HITS: 191

| | Date | Source | Headline | Country | URL | Reach |
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NUMBER OF HITS: 191

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| 139 | 25-Apr-2018 | International Business Times - FinancialContent | Black & Veatch retains Engineering News-Record top ranking in telecommunications | U.S. | http://markets.financialcontent.com/ibtimes/news/read/36193254/black & veatch retains engineering news | 3532 |
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| 147 | 25-Apr-2018 | Fat Pitch Financials - FinancialContent | Black & Veatch retains Engineering News-Record top ranking in telecommunications | U.S. | http://quotes.fatpitchfinancials.com/fatpitch.financials/news/read/36193254/black & veatch retains engineering news | 321 |
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NUMBER OF HITS: 191

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| 168 | 25-Apr-2018 | 3BL Press Releases - Business Ethics | Black & Veatch Retains Engineering News-Record Top Ranking in Telecommunications | U.S. | http://business-ethics.com/3bl-press-releases-3/?mid=181421 | 10668 |

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| 170 | 24-Apr-2018 | BizWire Express | Black & Veatch retains Engineering News-Record top ranking in telecommunications | India | http://www.bizwireexpress.com/showstoryGNW.php?storyid=248118 | 363 |
| 171 | 23-Apr-2018 | EnvironmentGuru | Orange County Water District Awarded For Leadership And Innovation In Research And Water Reuse | U.S. | https://www.environmentguru.com/pages/elements/element.aspx?id=6454072 | 2570 |
| 172 | 23-Apr-2018 | PHCP Pros | 'Toilet to Tap' Water Only Sounds Hard to Swallow | U.S. | https://www.phcppros.com/articles/7348-toilet-to-tap-water-only-sounds-hard-to-swallow | 10152 |
| 173 | 23-Apr-2018 | Patheos Blogs | The Global Clean Water Crisis Exists in America Too | U.S. | http://www.patheos.com/blogs/gospelforasia/2018/04/global-clean-water-crisis-exists-america/ | 2224153 |
| 174 | 23-Apr-2018 | Moody's | Moody's assigns negative outlook to the City of La Habra, CA Water Enterprise; affirms water revenue bond rating of Aa3 | U.S. | https://www.moody's.com/research/Moodys-assigns-negative-outlook-to-the-City-of-La-Habra--PR_904549245 | 0 |
| 175 | 20-Apr-2018 | Orange Juice Blog | Water Rate Increase: Or Can OCWD actually self-Liposuck? | U.S. | http://www.orangejuiceblog.com/2018/04/water-rate-increase-or-can-ocwd-actually-self-liposuck/ | 3397 |
| 176 | 20-Apr-2018 | Unknown | ACWA NEWS - OCWD Assistant GM Named Recycled Water Advocate of the Year | Unknown | http://www.acwa.com/newsroom | 0 |
| 177 | 20-Apr-2018 | Unknown | ACWA NEWS - OCWD Assistant GM Named Recycled Water Advocate of the Year | Unknown | http://www.acwa.com/newsroom | 0 |

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| | Date | Source | Headline | Country | URL | Reach |
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| 179 | 18-Apr-2018 | Orange County Register | Status Update: 3 veterans, 96 years combined, retire from DA's office; Second Harvest gets \$300,000 donation, 36,000 pounds of food | U.S. | https://www.ocregister.com/2018/04/18/status-update-3-veterans-retire-from-ocda-second-harvest-gets-300000-donation-36000-pounds-of-food/ | 1080039 |
| 180 | 18-Apr-2018 | Water Online | Orange County Water District Awarded For Leadership And Innovation In Research And Water Reuse | U.S. | https://www.wateronline.com/doc/orange-county-water-district-awarded-leadership-innovation-research-water-reuse-0001 | 31961 |
| 181 | 17-Apr-2018 | Facebook | Sandy Scott-Roberts will speak about the GWRS at international water conference. | Unknown | https://www.facebook.com/concasansc/photos/a.1258211994305283.1073741828.1238764066250076/1504916032968210/?type=3&theater | 0 |
| 182 | 17-Apr-2018 | Twitter | OCWD's director of water production will be speaking at the @idadesal conference in June | Unknown | https://twitter.com/OCWDWaterNews/status/982325440495869952 | 0 |
| 183 | 16-Apr-2018 | 4 Traders | Cadiz : New Science Shows Cadiz Inc Project Threatens Major Mojave Spring | U.S. | http://www.4-traders.com/CADIZ-INC-8727/news/Cadiz-New-Science-Shows-Cadiz-Inc-Project-Threatens-Major-Mojave-Spring-26358924/ | 16454 |
| 184 | 14-Apr-2018 | The Hill | Invest in water reuse infrastructure for a strong American economy | U.S. | http://thehill.com/opinion/energy-environment/383180-invest-in-water-reuse-infrastructure-for-a-strong-american-economy | 10101436 |
| 185 | 14-Apr-2018 | Filtration Products | Delaying Day Zero Water & Wastes Digest | U.S. | http://www.filtration-products.com/delaying-day-zero-water-wastes-digest/ | 68 |

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| 187 | 12-Apr-2018 | Water Online | Combined Water Sector Gathers In Washington To Demand Infrastructure Funding, Research Support | U.S. | https://www.wateronline.com/doc/combined-water-sector-washington-demand-infrastructure-funding-support-0001 | 31961 |
| 189 | 11-Apr-2018 | Association of Water Agencies Ventura County | 26th Annual AWA Water Symposium | U.S. | http://awavc.org/eventscommittees/event-registration?controller=event&task=options&eventId=5 | 0 |
| 190 | 08-Apr-2018 | 聯合理財網 | 廢水再生利器 鴻江引進PVDF中空纖維薄膜 | Taiwan | https://money.udn.com/money/story/6092/3075051 | 586806 |
| 191 | 08-Apr-2018 | The Independent Florida Alligator | When a water shortage comes, toilet-to-tap water will be a solution | U.S. | http://www.alligator.org/opinion/when-a-water-shortage-comes-toilet-to-tap-water-will/article_12fdb56-3ba6-11e8-9e51-37c263ca0e5a.html?block_id=1494496 | 42333 |
| 192 | 03-Apr-2018 | WaterWorld | WaterTAP features third-annual World Water-Tech Summit in Toronto | U.S. | http://www.waterworld.com/articles/2015/10/watertap-hosts-world-water-tech-summit-in-toronto.html | 55995 |

MEDIA CLIPS - MAY 2018

AGENT NAME: GWRS RELATED/MENTIONED

NUMBER OF HITS: 35

| | Date | Source | Headline | Country | URL | Reach |
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| 1 | 31-May-2018 | EnvironmentGuru | Where's the water to support Southern California housing growth? Here's what 1 survey said | United States | https://www.environmentguru.com/pages/elements/element.aspx?id=6615094 | 4261 |
| 2 | 31-May-2018 | California Friends of the African-American Caucus | Where's the water to support Southern California housing growth? Here's what 1 survey said | United States | http://thecaliforniafriends.com/press-enterprise/wheres-the-water-to-support-southern-california-housing-growth-heres-what-1-survey-said/ | 124 |
| 3 | 31-May-2018 | SGVTribune.com | Where's the water to support Southern California housing growth? Here's what 1 survey said | United States | https://www.sgvtribune.com/2018/05/31/wheres-the-water-to-support-southern-california-housing-growth-heres-what-1-survey-said/ | 73464 |
| 4 | 31-May-2018 | Daily Breeze | Where's the water to support Southern California housing growth? Here's what 1 survey said | United States | https://www.dailybreeze.com/2018/05/31/wheres-the-water-to-support-southern-california-housing-growth-heres-what-1-survey-said/ | 124439 |
| 5 | 31-May-2018 | San Bernardino County Sun | Where's the water to support Southern California housing growth? Here's what 1 survey said | United States | https://www.sbsun.com/2018/05/31/wheres-the-water-to-support-southern-california-housing-growth-heres-what-1-survey-said/ | 98031 |
| 6 | 31-May-2018 | Pasadena Star-News | Where's the water to support Southern California housing growth? Here's what 1 survey said | United States | https://www.pasadenastarnews.com/2018/05/31/wheres-the-water-to-support-southern-california-housing-growth-heres-what-1-survey-said/ | 99920 |
| 7 | 31-May-2018 | Press-Enterprise | Where's the water to support Southern California housing growth? Here's what 1 survey said | United States | https://www.pe.com/2018/05/31/wheres-the-water-to-support-southern-california-housing-growth-heres-what-1-survey-said/ | 189925 |
| 8 | 31-May-2018 | Whittier Daily News | Where's the water to support Southern California housing growth? Here's what 1 survey said | United States | https://www.whittierdailynews.com/2018/05/31/wheres-the-water-to-support-southern-california-housing-growth-heres-what-1-survey-said/ | 34190 |

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NUMBER OF HITS: 35

| | Date | Source | Headline | Country | URL | Reach |
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| 9 | 31-May-2018 | Redlands Daily Facts | Where's the water to support Southern California housing growth? Here's what 1 survey said | United States | https://www.redlandsdailyfacts.com/2018/05/31/wheres-the-water-to-support-southern-california-housing-growth-heres-what-1-survey-said/ | 24901 |
| 10 | 31-May-2018 | Los Angeles Daily News | Where's the water to support Southern California housing growth? Here's what 1 survey said | United States | https://www.dailynews.com/2018/05/31/w/wheres-the-water-to-support-southern-california-housing-growth-heres-what-1-survey-said/ | 547706 |
| 11 | 31-May-2018 | DailyBulletin.com | Where's the water to support Southern California housing growth? Here's what 1 survey said | United States | https://www.dailybulletin.com/2018/05/31/wheres-the-water-to-support-southern-california-housing-growth-heres-what-1-survey-said/ | 84483 |
| 12 | 31-May-2018 | Orange County Register | Where's the water to support Southern California housing growth? Here's what 1 survey said | United States | https://www.ocregister.com/2018/05/31/w/wheres-the-water-to-support-southern-california-housing-growth-heres-what-1-survey-said/ | 1638759 |
| 13 | 30-May-2018 | Inter Press Service | Pioneering Water Solutions for the World | Italy | http://www.ipsnews.net/2018/05/pioneering-water-solutions-world/ | 51242 |
| 14 | 30-May-2018 | Press-Telegram | Where's the water to support Southern California housing growth? Here's what 1 survey said | United States | https://www.presstelegram.com/2018/05/31/wheres-the-water-to-support-southern-california-housing-growth-heres-what-1-survey-said/ | 89755 |
| 15 | 29-May-2018 | Water Online | Brown And Caldwell Promotes Wendy Broley To One Water Leader | United States | https://www.wateronline.com/doc/brown-caldwell-promotes-wendy-broley-to-one-water-leader-0001 | 45746 |
| 16 | 29-May-2018 | Informed Infrastructure | Brown and Caldwell Promotes Wendy Broley to One Water Leader | United States | https://informedinfrastructure.com/39293/brown-and-caldwell-promotes-wendy-broley-to-one-water-leader/ | 3811 |

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AGENT NAME: GWRS RELATED/MENTIONED

NUMBER OF HITS: 35

| | Date | Source | Headline | Country | URL | Reach |
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| 18 | 29-May-2018 | Grading and Excavation Contractor | Brown and Caldwell Promotes Wendy Broley to One Water Leader | United States | https://foresternetwork.com/daily/water/water-efficiency-latest/brown-caldwell-promotes-wendy-broley-one-water-leader/ | 398 |
| 19 | 28-May-2018 | Diário da Cidade | Congresso de Saneamento recebe palestrantes de seis países | Brazil | https://www.diariodacidade.com.br/congresso-de-saneamento-recebe-palestrantes-de-seis-paises/ | 8806 |
| 20 | 27-May-2018 | Orange Juice Blog | OCWD – \$240 million water budget passed at 'WORST PUBLIC MEETING EVER' | United States | http://www.orangejuiceblog.com/2018/05/ocwd-240-million-water-budget-passed-at-worst-public-meeting-ever/ | 3518 |
| 21 | 26-May-2018 | Orange County Register | Seawater desalination is water independence for Orange County | United States | https://www.oregister.com/2018/05/26/seawater-desalination-is-water-independence-for-orange-county/ | 1638759 |
| 22 | 26-May-2018 | Filtration Products | Solving the Aging Infrastructure Problem | United States | http://www.filtration-products.com/solving-the-aging-infrastructure-problem/ | 255 |
| 23 | 25-May-2018 | Portal Saneamento Básico | Congresso de Saneamento recebe palestrantes de seis países | Brazil | https://www.saneamentobasico.com.br/congresso-saneamento/ | 9902 |
| 24 | 25-May-2018 | StreetInsider.com | Form N-CSRS EATON VANCE CALIFORNIA For: Mar 31 | United States | https://www.streetinsider.com/SEC+Filings/Form++N-CSRS++++EATON+VANCE+CALIFORNIA++++For%3A+Mar+31/14241031.html | 237854 |

MEDIA CLIPS - MAY 2018

AGENT NAME: GWRS RELATED/MENTIONED

NUMBER OF HITS: 35

| | Date | Source | Headline | Country | URL | Reach |
|----|-------------|---------------------------------------|--|---------------|---|--------|
| 25 | 24-May-2018 | Eco-Business.com | Pioneering water solutions for the world | Singapore | http://www.eco-business.com/news/pioneering-water-solutions-for-the-world/ | 59932 |
| 27 | 23-May-2018 | GreenBiz | Damming evidence: Communities turn to reusing wastewater as scarcity threatens | United States | https://www.greenbiz.com/article/damming-evidence-communities-turn-reusing-wastewater-scarcity-threatens | 162555 |
| 28 | 22-May-2018 | 星島日報 | 橙縣地下水污染嚴重動用聯邦基金遭質疑 | United States | https://www.singtaousa.com/la/453-%E5%8D%97%E5%8A%A0%E6%96%B0%E8%81%9E/698698-%E6%A9%99%E7%B8%A3%E5%9C%B0%E4% | 243 |
| 29 | 22-May-2018 | 星島日報 | 橙縣地下水污染嚴重動用聯邦基金遭質疑 | United States | https://www.singtaousa.com/la/13548-%E5%8A%A0%E5%B7%9E/698698-%E6%A9%99%E7%B8%A3%E5%9C%B0%E4%B8%8B%E6%B0%B4%E6%B1%A1%E6%9F%9 | 243 |
| 31 | 19-May-2018 | The Daytona Beach News-Journal Online | Wells and even springs face a brackish future | United States | http://www.news-journalonline.com/news/20180520/wells-and-even-springs-face-brackish-future | 796 |
| 32 | 19-May-2018 | Black News Portal | Wells and even springs face a brackish future | United States | http://www.blacknewsportal.com/wells-and-even-springs-face-a-brackish-future | 459 |
| 33 | 19-May-2018 | News-JournalOnline.com | Wells and even springs face a brackish future | United States | http://www.news-journalonline.com/news/20180519/wells-and-even-springs-face-brackish-future | 98834 |
| 34 | 19-May-2018 | Gainesville.com | Wells and even springs face a brackish future | United States | http://www.gainesville.com/news/20180519/wells-and-even-springs-face-brackish-future | 116836 |

MEDIA CLIPS - MAY 2018

AGENT NAME: GWRS RELATED/MENTIONED

NUMBER OF HITS: 35

| | Date | Source | Headline | Country | URL | Reach |
|-----|-------------|------------------------|---|---------------|---|-------|
| 35 | 19-May-2018 | News-JournalOnline.com | Wells and even springs face a brackish future | United States | http://gm5-lkweb.newscyclecloud.com/news/20180519/wells-and-even-springs-face-brackish-future | 1277 |
| 196 | 16-May-2018 | Herald and News | Growers wait on federal drought declaration for aid | United States | https://www.heraldandnews.com/news/growers-wait-on-federal-drought-declaration-for-aid/article_53c26ae4-0e71-59b9-8a5a-a43d228ab1da.html | 20468 |
| 478 | 01-May-2018 | YaleEnvironment360 | Where Water is Scarce, Communities Turn to Reusing Wastewater | Unknown | https://e360.yale.edu/features/instead-of-more-dams-communities-turn-to-reusing-wastewater | 0 |

MEDIA CLIPS - JUNE 2018

AGENT NAME: GWRS RELATED/MENTIONED

NUMBER OF HITS: 71

| | Date | Source | Headline | Country | URL | Reach |
|-----|-----------|---------------------------|---|-----------|---|--------|
| 4 | 28-Jun-20 | Water and Wastewater Asia | IDA International Water Reuse and Recycling Conference explores regulation frameworks and more | Singapore | http://www.waterwastewaterasia.com/en/news-archive/ida-international-water-reuse-and-recycling-conference-explores-regulation-frameworks-and-more/1554 | 376 |
| 5 | 27-Jun-20 | Water Online | 2018 SWMOA Awards Presented During Annual Symposium On June 26, 2018 | US | https://www.wateronline.com/doc/swmoa-awards-presented-during-annual-symposium-on-june-0001 | 48718 |
| 6 | 26-Jun-20 | OCWD Press Release | ORANGE COUNTY WATER DISTRICT RECOGNIZED FOR EXCELLENCE IN FINANCIAL REPORTING - 10 YEARS IN A ROW | Unknown | https://www.ocwd.com/media/6789/ocwd-recognized-for-excellence-in-financial-reporting-10-years-in-a-row.pdf | 0 |
| 7 | 26-Jun-20 | Unknown | ORANGE COUNTY WATER DISTRICT RECOGNIZED FOR EXCELLENCE IN FINANCIAL REPORTING - 10 YEARS IN A ROW | Unknown | https://www.ocwd.com/media/6789/ocwd-recognized-for-excellence-in-financial-reporting-10-years-in-a-row.pdf | 0 |
| 10 | 25-Jun-20 | Water Online | IDA International Water Reuse And Recycling Conference Explores Water Reuse Regulation Frameworks, Financing Trends, And Technology Advancements That Are 'Making Every Drop Count' | US | https://www.wateronline.com/doc/ida-international-water-reuse-and-recycling-making-every-drop-count-0001 | 48718 |
| 11 | 22-Jun-20 | Water Online | LG Chem Emerges As A Global Leader Of RO Membranes | US | https://www.wateronline.com/doc/lg-chem-emerges-as-a-global-leader-of-ro-membranes-0001 | 48718 |
| 12 | 21-Jun-20 | Engineering News-Record | Orange County's Old Wastewater Plant Gets \$100M Upgrade | US | https://www.enr.com/articles/44741-orange-countys-old-wastewater-plant-gets-100m-upgrade | 74579 |
| 13 | 21-Jun-20 | Engineering News-Record | Old Wastewater Plant Gets Upgraded | US | https://www.enr.com/articles/44741-old-wastewater-plant-gets-upgraded | 74579 |
| 191 | 20-Jun-20 | California Patch.com | June 20 2018 UPDATE On 50 Gallon Per Person Per Day Water Bill | US | https://patch.com/california/sanbruno/june-20-2018-update-50-gallon-person-day-water-bill | 181478 |

MEDIA CLIPS - JUNE 2018

AGENT NAME: GWRS RELATED/MENTIONED

NUMBER OF HITS: 71

| | Date | Source | Headline | Country | URL | Reach |
|-----|-----------|-------------------------|--|---------|---|----------|
| 193 | 18-Jun-20 | Tampa Bay Times | Clearwater and Tampa want to turn flushed water into drinking water. Is it safe? | US | http://www.tampabay.com/news/environment/Clearwater-and-Tampa-want-to-turn-flushed-water-into-drinking-water-Is-it-safe-168925431 | 1351143 |
| 194 | 16-Jun-20 | US News & World Report | Wells and Even Springs Face Brackish Future | US | https://www.usnews.com/news/best-states/florida/articles/2018-06-16/wells-and-even-springs-face-brackish-future | 14001228 |
| 195 | 16-Jun-20 | Idaho Statesman | Wells and even springs face brackish future | US | http://www.idahostatesman.com/news/business/article213304734.html | 277025 |
| 196 | 16-Jun-20 | Bradenton Herald | Wells and even springs face brackish future | US | http://www.bradenton.com/news/business/article213304734.html | 246639 |
| 197 | 16-Jun-20 | Lexington Herald-Leader | Wells and even springs face brackish future | US | http://www.kentucky.com/news/business/article213304734.html | 491637 |
| 198 | 16-Jun-20 | Action News Jax | Wells and even springs face brackish future | US | https://www.actionnewsjax.com/news/florida/wells-and-even-springs-face-brackish-future/770882171 | 417057 |
| 199 | 16-Jun-20 | The Sacramento Bee | Wells and even springs face brackish future | US | http://www.sacbee.com/news/business/article213304734.html | 2124536 |
| 200 | 16-Jun-20 | The News Tribune | Wells and even springs face brackish future | US | http://www.thenewstribune.com/news/business/article213304734.html | 274378 |
| 201 | 16-Jun-20 | WFTV | Wells and even springs face brackish future | US | https://www.wftv.com/news/florida/wells-and-even-springs-face-brackish-future/770882188 | 279012 |
| 202 | 16-Jun-20 | FOX30Jax.com | Wells and even springs face brackish future | US | https://www.fox30jax.com/news/florida/wells-and-even-springs-face-brackish-future/770882205?utm_source=homestream&utm_medium=site_navigation&utm_campaign=homestream_click | 5608 |

MEDIA CLIPS - JUNE 2018

AGENT NAME: GWRS RELATED/MENTIONED

NUMBER OF HITS: 71

| | Date | Source | Headline | Country | URL | Reach |
|-----|-----------|----------------------------------|---|---------|---|---------|
| 203 | 16-Jun-20 | icFlorida.com | Wells and even springs face brackish future | US | https://www.icflorida.com/news/wells-and-even-springs-face-brackish-future/770882154 | 6793 |
| 204 | 16-Jun-20 | The Argus-Press | Wells and even springs face brackish future | US | http://www.argus-press.com/news/state_news/article_d19deac8-005d-5e18-8f18-29ba54235caf.html | 6356 |
| 205 | 16-Jun-20 | AP (Hosted) | Wells and even springs face brackish future | US | 0 | 1237652 |
| 206 | 16-Jun-20 | The Wichita Eagle and Kansas.com | Wells and even springs face brackish future | US | http://www.kansas.com/news/business/article213304734.html | 462794 |
| 207 | 16-Jun-20 | The Olympian | Wells and even springs face brackish future | US | http://www.theolympian.com/news/business/article213304734.html | 79013 |
| 208 | 15-Jun-20 | Sun Herald | Wells and even springs face brackish future | US | http://www.sunherald.com/news/business/article213283459.html | 59977 |
| 209 | 15-Jun-20 | The Washington Times | Wells and even springs face brackish future | US | https://www.washingtontimes.com/news/2018/jun/15/wells-and-even-springs-face-brackish-future/ | 2775253 |
| 210 | 15-Jun-20 | Centre Daily Times | Wells and even springs face brackish future | US | http://www.centredaily.com/news/business/article213283459.html | 97134 |
| 211 | 15-Jun-20 | Belleville News Democrat | Wells and even springs face brackish future | US | http://www.bnd.com/news/business/article213283459.html | 149603 |
| 212 | 15-Jun-20 | Merced Sun-Star | Wells and even springs face brackish future | US | http://www.mercedsunstar.com/news/business/article213283459.html | 34796 |
| 213 | 15-Jun-20 | The Modesto Bee | Wells and even springs face brackish future The Modesto Bee | US | http://www.modbee.com/news/business/article213283459.html | 92605 |
| 214 | 15-Jun-20 | The Charlotte Observer | Wells and even springs face brackish future | US | http://www.charlotteobserver.com/news/business/national-business/article213283459.html | 1719393 |
| 215 | 15-Jun-20 | The Bellingham Herald | Wells and even springs face brackish future | US | http://www.bellinghamherald.com/news/business/national-business/article213283459.html | 93876 |

MEDIA CLIPS - JUNE 2018

AGENT NAME: GWRS RELATED/MENTIONED

NUMBER OF HITS: 71

| | Date | Source | Headline | Country | URL | Reach |
|-----|-----------|--------------------------|---|---------|---|---------|
| 216 | 15-Jun-20 | The Tribune | Wells and even springs face brackish future | US | http://www.sanluisobispo.com/news/business/article213283459.html | 237321 |
| 217 | 15-Jun-20 | Ledger-Enquirer | Wells and even springs face brackish future | US | http://www.ledger-enquirer.com/news/business/article213283459.html | 141726 |
| 218 | 15-Jun-20 | The Fresno Bee | Wells and even springs face brackish future | US | http://www.fresnobee.com/news/business/article213283459.html | 467833 |
| 219 | 15-Jun-20 | Macon Telegraph | Wells and even springs face brackish future | US | http://www.macon.com/news/business/article213283459.html | 177428 |
| 220 | 15-Jun-20 | Miami Herald | Wells and even springs face brackish future | US | http://www.miamiherald.com/news/article213283459.html | 4661472 |
| 221 | 15-Jun-20 | AP (Hosted) | Wells and even springs face brackish future | US | 0 | 1237652 |
| 222 | 15-Jun-20 | Tri-City Herald | Wells and even springs face brackish future | US | http://www.tri-cityherald.com/news/business/national-business/article213283459.html | 54601 |
| 223 | 15-Jun-20 | San Antonio Express-News | Wells and even springs face brackish future | US | https://www.mysanantonio.com/news/article/Wells-and-even-springs-face-brackish-future-12998668.php | 730863 |
| 224 | 15-Jun-20 | Herald Online | Wells and even springs face brackish future | US | http://www.heraldonline.com/news/business/article213283459.html | 72462 |
| 225 | 15-Jun-20 | The Seattle Times | Wells and even springs face brackish future | US | https://www.seattletimes.com/nation-world/apxwells-and-even-springs-face-brackish-future/ | 2861636 |
| 226 | 15-Jun-20 | MyrtleBeachOnline.com | Wells and even springs face brackish future | US | http://www.myrtlebeachonline.com/news/business/national-business/article213283459.html | 88041 |
| 227 | 15-Jun-20 | The News & Observer | Wells and even springs face brackish future | US | http://www.newsobserver.com/news/business/article213283459.html | 829665 |
| 228 | 15-Jun-20 | TheState.com | Wells and even springs face brackish future | US | http://www.thestate.com/news/business/national-business/article213283459.html | 438168 |

MEDIA CLIPS - JUNE 2018

AGENT NAME: GWRS RELATED/MENTIONED

NUMBER OF HITS: 71

| | Date | Source | Headline | Country | URL | Reach |
|-----|-----------|----------------------------|--|---------|---|---------|
| 229 | 15-Jun-20 | The Island Packet | Wells and even springs face brackish future | US | http://www.islandpacket.com/news/business/article213283459.html | 109047 |
| 230 | 13-Jun-20 | Water Online | The Water Research Foundation Announces The Winner Of Its 2018 Outstanding Subscriber Awards And The Dr. Pankaj Parekh Research Innovation Award | US | https://www.wateronline.com/doc/the-water-research-outstanding-subscriber-awards-dr-pankaj-parekh-research-innovation-award-0001 | 48718 |
| 231 | 13-Jun-20 | The Construction Specifier | Brown and Caldwell names new leader for water business | US | https://www.constructionspecifier.com/brown-and-caldwell-names-new-leader-for-water-business/ | 18152 |
| 232 | 12-Jun-20 | Water Online | Two Doctoral Students Studying Novel Membrane Technologies Receive The 2018 AMTA-NWRI Fellowship Award | US | https://www.wateronline.com/doc/two-doctoral-students-studying-membrane-technologies-amta-nwri-fellowship-award-0001 | 48718 |
| 236 | 10-Jun-20 | Water and Wastewater Asia | Editor's pickWater scarcity: Powerful motivator | US | http://www.waterwastewaterasia.com/en/news-archive/water-scarcity-powerful-motivator/1503 | 376 |
| 237 | 08-Jun-20 | Storm Water Solutions | Industry News Week 6/3/18 | US | https://www.estormwater.com/industry-news-week-6318 | 5631 |
| 240 | 07-Jun-20 | Jlnews | Governador destaca a importância da tecnologia para avançar em saneamento | Brazil | http://jinews.com.br/noticia/governador-destaca-a-importancia-da-tecnologia-para-avancar-em-saneamento | 1119 |
| 243 | 06-Jun-20 | Tampa Bay Times | 20 years after toilet-to-tap was defeated, it's back with a new name -- and new endorsements | US | http://www.tampabay.com/news/environment/20-years-after-toilet-to-tap-was-defeated-it-s-back-with-a-new-name---and-new-endorsements_168925431 | 1351143 |
| 244 | 06-Jun-20 | Tampa Bay Times | 20 years after toilet-to-tap was defeated in Tampa Bay, it's back with a new name and new endorsements | US | http://www.tampabay.com/news/environment/20-years-after-toilet-to-tap-was-defeated-in-Tampa-Bay-it-s-back-with-a-new-name-and-new-endorsements_168925431 | 1351143 |

MEDIA CLIPS - JUNE 2018

AGENT NAME: GWRS RELATED/MENTIONED

NUMBER OF HITS: 71

| | Date | Source | Headline | Country | URL | Reach |
|-----|-----------|---------------------------------|---|---------------|---|--------|
| 245 | 06-Jun-20 | Orange Juice Blog | Excellent Comments for today's OCWD / Poseidon term-sheet meeting. | US | http://www.orangejuiceblog.com/2018/06/excellent-comments-for-todays-ocwd-poseidon-term-sheet-meeting/ | 2938 |
| 247 | 06-Jun-20 | Rádio Jaraguá | Congresso Catarinense de Saneamento começa nesta quarta-feira | Brazil | http://www.jaraguaam.com.br/jornalismo/geral/congresso-catarinense-de-saneamento-comeca-nesta-quarta-feira | 12910 |
| 250 | 06-Jun-20 | De Olho Nailha | Congresso Catarinense de Saneamento começa nesta quarta-feira em Florianópolis | Brazil | http://www.deolhonailha.com.br/florianopolis/noticias/congresso-catarinense-de-saneamento.html | 16104 |
| 251 | 05-Jun-20 | Jlnews | Congresso Catarinense de Saneamento começa nesta quarta-feira | Brazil | http://jinews.com.br/noticia/congresso-catarinense-de-saneamento-comeca-nesta-quarta-feira | 1119 |
| 252 | 05-Jun-20 | Noticenter | Florianópolis recebe Congresso de Saneamento nesta quarta-feira | Brazil | http://www.noticenter.com.br/n.php?CATEGORIA=&ID=19101&TITULO=florian-polis-recebe-congresso-de-saneamento-nesta-quarta-feira | 8933 |
| 253 | 05-Jun-20 | Voice of OC | Cook: Finding the Right Water Solutions for Orange County | US | https://voiceofoc.org/2018/06/cook-finding-the-right-water-solutions-for-orange-county/ | 20376 |
| 254 | 05-Jun-20 | Diário do Alto Vale | 2º Concasan - Diário do Alto Vale | Brazil | https://www.diarioav.com.br/2o-concasan/ | 2380 |
| 255 | 05-Jun-20 | Notícias do Dia - Florianopolis | Fortalecer saneamento é desenvolver cidades, afirma o professor Marcos Von Sperling | Brazil | https://ndonline.com.br/florianopolis/noticias/fortalecer-saneamento-e-desenvolver-cidades-afirma-o-professor-marcos-von-sperling | 308158 |
| 256 | 05-Jun-20 | GreenBuildingAdvisor.com | Where Water Is Scarce, Communities Turn to Wastewater | United States | http://www.greenbuildingadvisor.com/blog/dept/guest-blogs/where-water-scarce-communities-turn-wastewater | 203760 |

MEDIA CLIPS - JUNE 2018

AGENT NAME: GWRS RELATED/MENTIONED

NUMBER OF HITS: 71

| | Date | Source | Headline | Country | URL | Reach |
|-----|-----------|--|---|---------|---|---------|
| 257 | 04-Jun-20 | Orange County Breeze | Desalination deal draws criticism from groups concerned about water affordability | US | http://www.oc-breeze.com/2018/06/04/122281_desalination-deal-draws-criticism-from-groups-concerned-about-water-affordability/ | 8054 |
| 258 | 04-Jun-20 | HPAC Engineering | Brown and Caldwell Promotes Broley to One Water Leader | US | http://www.hpac.com/around-web/brown-and-caldwell-promotes-broley-one-water-leader | 11316 |
| 259 | 03-Jun-20 | EnvironmentGuru | Finding the right water fixes for Orange County | US | https://www.environmentguru.com/pages/elements/element.aspx?id=6628352 | 2715 |
| 260 | 03-Jun-20 | Firenews | Finding the right water fixes for Orange County | US | https://firenewsfeed.com/news/1634189 | 80140 |
| 261 | 03-Jun-20 | Orange County Register | Finding the right water fixes for Orange County | US | https://www.oregister.com/2018/06/03/finding-the-right-water-fixes-for-orange-county/ | 1232987 |
| 262 | 03-Jun-20 | Jornal Tijucas | 2º Congresso Catarinense de Saneamento debate soluções para o desenvolvimento sustentável das cidades em SC | Brazil | http://jornaltijucas.com.br/geral/2o-congresso-catarinense-de-saneamento-debate-solucoes-para-o-desenvolvimento-sustentavel-das-cidades-em-sc/ | 5516 |
| 263 | 02-Jun-20 | Fundacao de Amparo A Pesquisa Inovacao Do Estado de Santa Catarina | Concasan abordará temas ligados à água e ao esgoto | Brazil | http://www.fapesc.sc.gov.br/concasan-abordara-temas-ligados-a-agua-e-ao-esgoto/ | 6476 |
| 266 | 01-Jun-20 | Engeplus Notícias | SC sedia um dos principais congressos de saneamento do Brasil | Brazil | http://www.engeplus.com.br/noticia/geral/2018/sc-sedia-um-dos-principais-congressos-de-saneamento-do-brasil/ | 45902 |