

Technical Program Schedule

Sunday, March 15, 2020

Sunday, March 15	Seacliff A	Seacliff B	Seacliff C
Technical Sessions	A1: Reuse Case Studies	B1: Non Potable Reuse	C1: Panel Session
Sponsor			Tetra Tech
Moderator	Melody LaBella, Central Contra Costa Sanitary District	Kevin Jim, East Bay Municipal Utility District	Robin Nezhad, Tetra Tech
1:00m - 1:30pm	Challenges and Solutions for an Aging AWTF Jessica Koop, Water Replenishment District of Southern California	Non Potable Reuse - Log Removal or Water Quality Targets? Troy Walker, Hazen and Sawyer Ben Stanford, Hazen and Sawyer	From the Strategy Room: Leadership's Perspective on Advancing Potable Reuse Cari Dale, City of Oceanside Shivaji Deshmukh,
1:30pm - 2:00pm	Integrated Resource Recovery Supports Agriculture and Economy in Paso Robles Kaitlin Zusy Black & Veatch Matt Thompson, City of Paso Robles	Save the Outfall, Save the Avocados: Design Build for Advanced Treatment Scott Lacy Brown and Caldwell Angela Morrow City of Escondido	Inland Empire Utilities Agency Mike Markus, Orange County Water District Robb Whitaker, Water Replenishment District of Southern California



Sunday, March 15	Seacliff A	Seacliff B	Seacliff C
	For Whom the Bell Tolls: Determining When to Replace Aging Reuse Infrastructure	The Challenges of Building a Recycled Water Treatment Facility in San Francisco	
2:00pm - 2:30pm	Nathan Boyle, Hazen and Sawyer	Barbara Palacios, San Francisco Public Utilities Commission	
	Susanna Li, West Basin Municipal Water District	Cheryl Munoz San Francisco Public Utilities Commission	
2:30pm - 3:00pm	Leveraging nutrient control strategies to promote recycled water production Azalea Mitch City of San Mateo John Kenny and Brian Pecson Trussell Technologies, Inc.	Fish, farmers and drought Sean White, City of Ukiah	
3:00pm - 3:30pm			



Sunday, March 15	Seacliff A	Seacliff B	Seacliff C
Technical Sessions	A2: PFAS	B2: Intra-agency Projects	C2: Panel Session
Sponsor		Los Angeles Department of Water and Power	
Moderator	Kim Ervin, Jacobs	Sylvie Lee, Inland Empire Utilities Agency	Julie Minton, Water Research Foundation
3:30pm - 4:00pm	PFAS Occurrence and Recent Advances in Treatment Jennifer Hooper CDM Smith Charles Schaefer and Dora Chiang CDM Smith	One Water, Two Approaches, Three Sources: Integrating Stormwater into Portfolios Rachel Morgan, Kennedy/Jenks Consultants Sachi Itagaki, Kennedy/Jenks Consultants	State Water Board/WRF Research to Ensure Sound DPR Regulations in CA Adam Olivieri, EOA Jim Crook,
4:00pm - 4:30pm	PFAS Removal by Thin Film Nanocomposite Reverse Osmosis Membranes Kenneth Chao, LG Chem Hoon Hyung, Roy Daly and Nate Weeks LG Chem	Laying the Framework for 100% Reuse in Los Angeles Rafael Villegas Los Angeles Department of Water and Power	Water Reuse Consultant Shane Trussell and Brian Pecson, Trussell Technologies Jean Debroux, Kennedy/Jenks Consultants Krista Wiggington, University of Michigan



Sunday, March 15	Seacliff A	Seacliff B	Seacliff C
	PFAS in Water Reclamation Plants: Treatment and Environmental Fate	WIN 4 ALL: Securing Regional Resiliency Through Sustainable Groundwater	
4:30pm - 5:00pm	Alex Franchi, AECOM	Diane Gatza The Water Replenishment District	
	YuJung Chang and Chris Curran AECOM	Lyndsey Bloxom The Water Replenishment District	



Monday, March 16, 2020

Monday, March 16	Seacliff AB	Seacliff CD	Bayview A	Bayview B
Technical Sessions	A3: How To Do "On- Site" Reuse	B3: Membrane Integrity Testing	C3: Disinfection Byproducts	D3: Panel Session
Sponsor				Central Contra Costa Sanitary District
Moderator	Sarah Rhodes, Woodard & Curran	Paul Swaim, Jacobs	Alex Page, Kennedy Jenks	Melody LaBella, Central Contra Costa Sanitary District
10:00am - 10:30am	A Design Professional's Guide to Onsite Water Use and Reuse Kyle Pickett, The William J. Worthen Foundation & Urban Fabrick	Validating Virus and Protozoa Removal and Surrogates for Flat-Sheet MBR Siamak Modarresi, Kubota Membrane USA Nicola Fontaine, Carollo Engineers Larry Morris, Kubota Membrane USA	Disinfection Byproduct Formation at Potable Reuse and Water Reclamation Plants Larry Schimmoller, Jacobs	Stemming the Flow of Harmful Chemicals Upstream to Support Potable Reuse in CA Kelly Moran, TDC Environmental Anne Cooper Doherty, California Department of Toxic Substances Control
10:30am - 11:00am	A Sewer Agency's Experience Permitting Facebook's On-Site Treatment Plant Roanne Ross, West Yost Associates Phil Scott, West Bay Sanitary District	Rapid detection of waterborne viruses through flow cytometry Hannah Safford, University of California Davis Heather-Bischel, University of California, Davis	UV/CI2 AOP Performance, Modeling and Process Control at Water Reuse Facilities Mihaela Stefan, Trojan Technologies A. Royce, Trojan Technologies; S. McDermid, Trojan Technologies; M. Kwon, Trojan Technologies; K. Ishida OCWD, CA; T. Knoell, WRD, CA.	Simona Balan, California Department of Toxic Substances Control



Monday, March 16	Seacliff AB	Seacliff CD	Bayview A	Bayview B
11:00am - 11:30am	Integration of a decentralized solution in an urban renewal project Chris Hertle, GHD, Inc. Mark Trickey, Andrew Chapman GHD Pty Ltd.	A Simple Measure of MBR Integrity – Further Validation of the Solids-LRV Method Stephen Katz, SUEZ Water Technologies & Solutions Pierre Cote, Cote Membrane Separation Ltd., Daniella Mosqueda-Jimenez and Kathleen Peach SUEZ Water Technologies and Solutions	Toxicity Bioassays for Assessing Disinfection Byproducts in Potable Water Reuse Erica Marti, University of Nevada, Las Vegas Matias Attene- Ramos, George Washington University	
11:30am - 12:00pm	The Rainbow and Vision of a Decentralized DPR Community Hesse McGraw, el dorado, inc. Brynne Weeks, Sanjay Reddy and Andrew Salveson, Carollo Engineers	A Roadmap Toward LRV Credits for Membrane Bioreactor in Reuse Applications Chris Morrow, Evoqua Water Technologies Anthony Zamarro, Evoqua Water Technologies	Lessons Learned from the First Full Scale UV-Cl Advanced Oxidation Process Bryan Trussell, Trussell Technologies Fernando Gonzalez, Lance Thibodeaux, Roshanak Aflaki, Slavica Hammond, Keel Robinson, Jen Scheideler LA Sanitation, CDM, Parsons, Xylem	



Monday, March 16	Seacliff AB	Seacliff CD	Bayview A	Bayview B
12:00pm - 1:30pm				
Technical Sessions	A4: From Surveys to Demonstration Facilities	B4: Potable Reuse Planning - Part 1	C4: Public Outreach Simplified	D4: Panel Session
Sponsor	North San Diego Water Reuse Coalition			
Moderator	Mike Jaeger, Tanner Pacific	Paul Cook, Irvine Ranch Water District	Nitesh Dullabh, 2pod Ventures	Roshanak Aflaki, CDM Smith
1:30pm - 2:00pm	Unlocking the Power of Public Survey Research to Propel Your Project Rebecca Cole, NV5 Sarah Davis, City of Oceanside	Recycled Water Research for a Changing California Laura McLellan, California State Water Resources Control Board	Potty Talk - How Effective Language Can Avance Your Reuse Project Steve Thomas, TBC Communications & Media	PFAS Regulatory Horizon, Research Needs and Utility Perspective Shahlah Farahnak, California State Water Resources Control Board Robert Brownwood, California State Water Reources Control
2:00pm - 2:30pm	Moving with the Little Engine that Could Melanie Schumacher, Soquel Creek Water District Mark Millan, Data Instincts	PureWaterSF: The Season Finale Manisha Kothari, San Francisco Public Utilities Commission Brynne Weeks and Andrew Salveson, Carollo Engineers	Dejargon Your Outreach, Build a Storyline that Earns Support Tiffany Meyer, Water Systems Consulting, Inc. Holly Tichenor, Water Systems Consulting	Board Lanaya Volez Alexander, Eastern Municipal Water District Hubertus Cox, Los Angeles Sanitation Charles Neslund, Eurofins Dora Chiang, CDM Smith



Monday, March 16	Seacliff AB	Seacliff CD	Bayview A	Bayview B
2:30pm - 3:00pm	Using Demonstration Facilities For Effective and Lasting Community Engagement Megan Drummy, Katz & Associates	Transitioning to DPR: Effects on microbial communities in distribution systems Lauren Kennedy, University of California, Berkeley Rose Kantor, Scott Miller and Kara Nelson UC Berkeley	New and Exciting! Communicating about Innovation in a Potable Reuse Program Rupam Soni, Metropolitan Water District of Southern California Carolyn Schaffer, Metropolitan Water District of Southern California	
3:00pm - 3:30pm				



Monday, March 16	Seacliff AB	Seacliff CD	Bayview A	Bayview B
Technical Sessions	A5: Climate-Energy- Resiliency	B5: Potable Reuse Planning - Part 2	C5: Matching Supply with Demand	D5: Panel Session
Sponsor	San Diego County Water Authority			
Moderator	Ryujiro Tsuchihashi, Jacobs	Eric Hansen, Silicon Valley Clean Water	Claudia Llerandi, Kennedy Jenks	Christy Kennedy, Woodard & Curran
3:30pm - 4:00pm	Utilizing Multiple Alternative Water Resources in Reuse Projects Sunny Wang, City of Santa Monica Selim Eren and Chris Aguillon City of Santa Monica	Treated Water Augmentation – The right fit for California's Silicon Valley? Hossein Ashktorab, Valley Water Nina Hawk and Zach Helsley, Valley Water	Supplemental Supply Alternatives for the San Ramon Valley Recycled Water Program Florence Wedington, EBMUD Reena Thomas, EBMUD	A Virtuous Cycle: Recycling Water to Achieve Groundwater Sustainability Adam Hutchinson, Orange County Water District Mel Lytle, City of Stockton Jennifer Burke, City of Santa Rosa
4:00pm - 4:30pm	The Energy Implications of Advanced Water Recycling in Southern California Nicholas Chow, UCLA Luskin Center for Innovation	A Survey of Microplastics Occurrence in Global Drinking Water Systems William Lipps, Eurofins Eaton Analytical John Cosgrove, Eurofins Eaton Analytical	Adapting to Change: Informing Water Use Efficiency and Declining Flows Rucker Alex, Brown and Caldwell Jocelyn Lu, Brown and Caldwell	Terrie Mitchell, Sacramento Regional County Sanitation District Bob McDonald, Carpinteria Valley Water District



Monday, March 16	Seacliff AB	Seacliff CD	Bayview A	Bayview B
4:30pm - 5:00pm	Stormwater Capture and Reuse at San Diego International Airport Richard Gilb, San Diego County Regional Airport Authority	Recycled Water, Onsite Reuse, and the Road to Sustainability Eric Rosenblum, Water Resource Consultant	Strategic Water Reuse Partnership in the Heart of Silicon Valley Nina Hawk Valley Water (Santa Clara Valley Water District) Phil Bobel City of Palo Alto Gregg Hosfeldt City of Mountain View	



Tuesday, March 17, 2020

Tuesday, March 17	Seacliff AB	Seacliff CD	Bayview A	Bayview B
Technical Sessions	A6: Brine Management	B6: Sustainable Groundwater Basin Management	C6: Regulatory, Policy and Compliance	D6: Panel Session
Sponsor	HDR			
Moderator	Jeff Neeman, Black & Veatch	Melanie Holmer, Brown and Caldwell	Kevin Booker, Sonoma Water	Paul Friedlander Carollo Engineers
10:00am - 10:30am	Trace Metals Removal from RO Concentrate via Low- Energy Capacitive Coagulation Galen O'Toole, Valley Water Cameron Lippert, PowerTech Water, LLC	Alternative Framework to the TOC Standard for GWR Surface Spreading Projects Bryan Trussell, Trussell Technologies, Inc Roshanak Aflaki, Rhodes Trussell, Brian Pecson, Teresa Venezia and Fernanda Bacaro Los Angeles Sanitation and Trussell Technologies	Developing Criteria for Direct Potable Reuse Brian Bernados, Division of Drinking Water	Non-Potable Reuse Using Microfiltration: Perspectives from 3 Bay Area Agencies Levi Fuller Dublin San Ramon Services District Shelly Masuda East Bay Municipal Utility District Mike Prinz Las Gallinas Valley Sanitary District



Tuesday, March 17	Seacliff AB	Seacliff CD	Bayview A	Bayview B
10:30am - 11:00am	FO/RO for Centralized and Decentralized Potable Reuse William Mitch, Stanford University Aleksandra Szczuka, Stanford University	Finding the Water Reuse-SGMA Nexus in Southern San Joaquin Valley Zita Yu, Parsons Surendra Thakral and Brian Leto, Parsons	California Direct Potable Reuse Coalition: Implementation Guide for Utilities Jeff Mosher, Carollo Engineers Andrew Salveson and Kevin Hardy Carollo Engineers and National Water Research Institute	
11:00am - 11:30am	Brine Recovery and Minimization Technology Overview Daniel Sampson, HDR	Reuse in the Nongrowing Season – Blessing or Blasphemy? Michael Cook, Idaho Department of Environmental Quality	No New Drop Squandered: Santa Clarita's Approach to Increasing Water Recycling Erica Wolski, Woodard & Curran Steve Cole, Santa Clarita Valley Water Agency	



Tuesday, March 17	Seacliff AB	Seacliff CD	Bayview A	Bayview B
11:30am - 12:00pm	A 4-Year Journey to Minimize Brine with Closed Circuit RO and 95% Recovery Eileen Idica, Trussell Technologies, Inc. Seval Sen, Rodrigo Tackaert, Shane Trussell Padre Dam Municipal Water District, Trussell Technologies, Inc.,	Creating Sustainability: Role of Recycled Water in SGMA GSPs Daniel Heimel, Water Systems Consulting Rob Morrow, Water Systems Consulting	Navigating a Recycled Water Project through the Water Code Section 1211 Process Leah Walker City of Petaluma Department of Public Works & Utilities	
12:00pm - 2:30pm				



Tuesday, March 17	Seacliff AB	Seacliff CD	Bayview A	Bayview B
Technical Sessions	A7: Treatment Technologies	B7: Elected Officials and Agency Perspective	C7: Data Collection and Optimization	D7: Panel Session
Sponsor				
Moderator	Zeynep Erdal, Black & Veatch	Patrick Sheilds, West Basin Municipal Water District	Dennis Murphy, Sustainable Silicon Valley	Mark Millan and Patricia Tennyson, Data Instincts and Katz & Associates
2:30pm - 3:00pm	Using Pipeline Contacting for High Dose Ozone Applications – Pure Water Monterey Srikanth Pathapati, Mazzei Injector Company LLC	Collaboration between Agencies for Sustainable Cost and Supply of Recycled Water Kimberly Duong, Los Angeles Department of Water and Power Everett Ferguson, Water Replenishment District of Southern California	Demonstrating Real-Time Collection System Monitoring for Enhanced Source Control Eva Steinle-Darling, Carollo Gina Dorrington, Jeremy Grant, Nancy Nye, Scott Mansell, Penny Carlo, Nicola Fontaine, Prathana Pradhan, Andrew Salveson Ventura Water, El Paso Water, Clean Water Services, Carollo Engineers	Explaining CECs & PFAs to the Public: Best Messages & Dreadful Pitfalls Jean Debroux, Kennedy/Jenks Consultants Gina Ayala, Orange County Water District Keel Robinson, Trussell Technologies David Sedlak, Institute of



Tuesday, March 17	Seacliff AB	Seacliff CD	Bayview A	Bayview B
3:00pm - 3:30pm	Advancements in Ozone/BAF for Achieving Potable Reuse Goals Vijay Sundaram Stantec Kevin Flis, Lydia Peri, David Foster and Krishna Pagilla Xylem and TMWA	Trust Building - Steps to building trust and buy- in for your project Stephen Groner, SGA Marketing	Improving RO Treatment Operations with Direct Online Membrane Fouling Detection Anditya Rahardianto, Noria Water Technologies Bilal Khan, Sivan Cohen, Yoram Cohen, Noria Water Technologies Han Gu, Megan Plumlee, Orange County Water District	Environmental Science and Engineering
3:30pm - 4:00pm	MBR vs. TMBR – Which Makes More Sense in a Potable Reuse Train? Ufuk Erdal ARCADIS	Pure Water Oceanside — The Path to Delivering Water by 2021 Adam Hoch, Hoch Consulting	How big data can protect wastewater quality Zohar Scheinin, Kando Anne-li Steutel-Maron, Kando	