

2025 Hawai'i Water Works Association Annual Conference, Aulani Hotel, Ko Olina Resort Oct. 15-17, 2025

Technical Program

Date/Time	KAHE HO'OKAHI NĀ WAI - The Waters Flow as One		
Date/Time	Activity		
Oct. 15, 2025			
7:30 a.m. - 9:00 a.m.	Registration and Continental Breakfast		
		General Session 1 Kaiona Ballroom	Climate Change Track
9:00 a.m. (15 min)	Welcome Address	Welcome and Pule Arthur Aliu Ernest Lau Manager & Chief Engineer Mayor Rick Blangiardi Video Message	Welcome, Pule and Opening Remarks Conference highlights of note
9:15 a.m. (45 min)	Presentation	Honolulu's Climate Ready Oahu Strategy for Climate Adaptation Alex Yee and Sarah Harris Office of Climate Change Sustainability and Resiliency	The City's first climate adaptation strategy enhances the City and community's resilience to climate impacts through specific, measurable actions that prepare us for the worst scenarios while also charting a course toward a more equitable, resilient, and climate ready Oahu. Stopping the cause of climate change is a global responsibility, but adapting to impacts is a local one. Climate Ready Oahu is a science-based, community-driven strategy for Oahu to adapt to the impacts of climate change. Climate Ready Oahu lays out a detailed list of strategies, policies, and actions that the City can take, alongside individual, community, state and federal actions, to prepare, protect, and safeguard community members, 'aina, and infrastructure from climate hazards today and for generations to come.
10:00 a.m.	Break		
10:15 a.m. (45 min)	Presentation	One Water Honolulu's Collaboration Framework Wendy Broyer and Lenise Marrero Brown and Caldwell	The One Water approach focuses on collaboration strategies for stormwater, wastewater, groundwater, freshwater, and recycled water as one integrated system supporting the community and environment. One Water Honolulu integrates responsibilities across a broad range of partners to tackle climate change impacts collaboratively. As part of the One Water vision, the One Water Collaboration Framework is a tool to facilitate collaboration. It provides a clear and effective process of who should be working together and how to build resilience into the ongoing and planned projects, programs, and policies related to water management. The Collaboration Framework is an adaptable process for working together to advance a shared vision. It provides guidance to sustain collaboration by aligning actions and decisions.
11:00 a.m. (45 min)	Presentation	A Climate Adaptation Approach to One Water, Honolulu's CIP Rachel Duncan Carollo Engineers Tess Sprague Brown and Caldwell	The One Water Honolulu Plan will develop a climate resilient CIP that will help shape the development of infrastructure that addresses water, wastewater, and stormwater systems while working to support, strengthen, and protect our communities and natural environment. The approach to create this CIP includes both a Collaboration Framework and a Climate Change Adaptation Framework. The focus of this presentation will primarily be on the building blocks of the Climate Change Adaptation Framework. This will include detailed risk assessment and vulnerability mapping processes to identify climate hazards using the most recent hazard mapping for sea level rise, hurricanes, precipitation-based flooding, extreme heat, drought, and wildfires; a review and analysis of known concerns by region for each of Oahu's planning districts; development of potential adaptation strategies; and development of potential prioritization criteria. The presentation will also discuss how this framework will support CIP project development and the identification of potential triggers that influence climate change. This process is an ongoing effort and content presented will focus on sharing and communicating the process for implementing this framework, some preliminary results, and the overall approach for how this supports the development of a climate resilient and adaptive CIP across the City and County of Honolulu.

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12:00 noon	Lunch		Breakout Session 1, Ka'iona Ballroom			Breakout Session 2, Ka'ala Ballroom I-II			Breakout Session 3, Ka'ala Ballroom III-IV	
Wed Oct. 15 PM	Projects Track			Operations/Systems Track			Consultant/Vendor/Agency Track			
1:30 p.m.	Presentation	Who Picked This Site Anyway? Kalaeloa Seawater Desalination Challenges and Progress *	Barry Usagawa BWS Water Resources	BWS issued a fixed price DBOM contract to Kalaeloa Desalco LLC in July 2023 to provide 1.7 mgd, expandable to 5 mgd of freshwater to the Campbell Industrial Park water system. The project is in the design development and permitting phase with construction targeted in early 2026. This presentation will disclose design concepts and challenges in troubleshooting unforeseen risks involving environmental, archaeological sites, critical biological habitat, regulation, aquifer hydraulic separation, and Federal land conveyance & funding requirements.	Presentation	BMPs Suck* – Handling Runoff During Main Break Repairs *	Best Management Practices are an essential component in the protection of our environment and receiving waters. In this presentation, BWS Field Operations Division will highlight several techniques and methods they utilize throughout the main repair process to minimize the environmental impacts resulting from repairs; specifically focusing on use of vacuum trucks in minimizing or removing runoff.	Presentation	BWS Initiatives to Conserve and Potentially Utilize Existing Assets *	This presentation will talk about a couple of active BWS projects aimed to support water conservation efforts and the potential utilization of existing assets. We will discuss project approach, some of the challenges, and preliminary findings.
2:00 p.m.	Presentation	Regulatory and Enhanced Water Quality Pilot, Kalaeloa Seawater Desalination *	Dawn Halpern Kalaeloa Desalco, LLC	This presentation provides an overview of the Seawater Reverse Osmosis (SWRO) pilot study conducted to support the development of a new, sustainable potable water source for the community. The project included extensive customer outreach to engage and inform stakeholders on the benefits and reliability of the proposed water supply. Key components of the pilot included validation of the existing seawater wells to confirm their suitability as a source, and performance verification of the full-scale facility design. The pilot focused on demonstrating the design and operating parameters under real-world conditions and optimization of proposed treatment processes. Comprehensive water quality analyses were performed to characterize the source water as well as the RO permeate and post-treated water, ensuring a reasonable match to the community's existing potable water standards. A corrosion study was also conducted to confirm that the final product water will be compatible with the existing BWS distribution system materials and infrastructure. The pilot data and findings provided invaluable data and resulted in validation for the full-scale implementation, confirming the new water source is a safe, reliable, and sustainable for long-term use.	Presentation	On-Site Gray Water Reuse Applications and Benefits for New Residential Developments **	Kulei and Alia are two Kobayashi residential developments where innovative gray water reuse is being implemented as part of a forward thinking sustainability strategy to reduce potable water demand and wastewater generation for toilet flushing and cooling towers in chilled water air conditioning.	Presentation	The Hawai'i Water Plan Framework Update	Calibration of source meters to identify and reduce water loss: BWS water loss percentage has been slowly increasing over the last decade, from approximately 10 to 15%. Most of the customer meter MU's have been replaced providing accurate data to BWS. AMR reads and BWS Field Operations Leak Detection Team has been steadily fixing leak with meter calibration. The meter calibration is being assessed and calibrated for accuracy. Using an AWWA meter calibration method, a prioritized list of BWS meters at source and line booster stations, ultrasonic meters are used for calibration.
2:30 p.m.	Presentation	Kalaeloa Aquifer Test Plan Approach and Preliminary Findings for the Determination of Hydraulic Separation of Layered Geologic Formations *	Kevin Gooding INTERA	The Honolulu Board of Water Supply (BWS) is building a saltwater desalination facility in Kalaeloa, Oahu, Hawaii* designed to pump 4.3 million gallons per day (mgd) of seawater-quality feed water from the deep (>1000 feet below ground surface/bgs) basal aquifer, treat the seawater to produce 1.7 mgd of potable water, and then pump it to 200 feet of lenses in the upper aquifer into the overlying caprock aquifer at a depth of about 300 ft bgs. The site is adjacent to Campbell Industrial Park and even though the producing zone is separated from the overlying activities by over 1000 vertical feet of caprock, the BWS is taking a conservative approach and wants to test for the potential for contamination of the deep production well from industrial activities.	Presentations	Water-Sensible: Everyday Choices, Lasting Impact	The Honolulu Board of Water Supply (BWS) completed its Water Conservation Program Plan (WCP) in 2011 to drive economic, resource, and social sustainability on Oahu. The plan is one facet of a multi-pronged effort to ensure future water supplies via a significantly less costly mechanism as opposed to building additional water supplies including desalination.	Presentations	Backflow Prevention Programs *	Existing Water Well Assessments
3:00 p.m.	Break				Break			Break		Drilling new source wells can take nearly a decade to complete. Several projects are underway to assess the condition of existing water wells and to evaluate their viability to be converted into a production well. We will explore some of these efforts and the approach used to assess these sites.

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Oct. 16, 2025						
7:30 a.m. - 9:00 a.m. Continental breakfast						
8:25 a.m.	Announcements	General Session 2 Kāiona Ballroom	Strategic Initiatives Track			
8:30 a.m.(45 min)	Presentation	Water Research Foundation Updates Jim Siriano Water Research Foundation	<p>The Water Research Foundation's One Water research programs touch the entire water cycle by addressing issues holistically and providing communities with actionable solutions to our water-related challenges.</p> <p>This presentation will include a brief overview of the Water Research Foundation, a review of our recent and ongoing projects with a focus on some of the topics that are most important to Hawaii, and a discussion of Hawaii's future research interests and priorities.</p>			
9:15 a.m.(45 min)	Presentation	BWS Emerging Contaminants Management Program * Marc Chun BWS Water Resources Sierra Johnson Brown & Caldwell	<p>Honolulu BWS is currently implementing a long-term program for management of PFAS and other emerging contaminants. BWS operates a large number of wells and must therefore handle more decisions on how to manage PFAS at each site. However, low concentrations at most sites gives BWS more flexibility to develop a program strategy for managing PFAS that can be translated for other emerging contaminants in the future.</p> <p>In the short-term, the project addresses sites with current PFAS detections only. GAC treatment designs will be completed for three well sites that have higher regulated PFAS concentrations and are most crucial to the system; construction is timed to meet regulatory deadline. Analysis for 12 other sites with detected PFAS will also be completed to evaluate whether future treatment, piping to consolidated treatment, or shut off are appropriate.</p> <p>In parallel, a long-term islandwide management plan for emerging contaminants will be completed to proactively address PFAS and provide a consistent framework for BWS to continue future evaluations, regardless of what contaminant is being considered. Critical to these evaluations are finished water quality monitoring plans, and determine decision criteria for alternatives selection.</p> <p>On most projects, pilot testing is used solely to determine treatment performance. In this project, ongoing pilot testing of GAC and IX treatment will provide additional value to support both short-term and long-term efforts. Pilot data will be used in the short-term to refine operating conditions for new systems and plan for media replacement. In the long-term, data will inform realistic water quality goals and required monitoring frequency.</p> <p>This presentation will provide a general update on the overall program approach with focus on pilot testing considerations and lessons learned that can be applied to other (non-PFAS) projects.</p>			
10:00 a.m.	Break					
10:30 a.m.(45 min)	Presentation	Healthy Waters After Wildfires - Evaluating Post-Fire Water Quality Using Advanced Analytical Methods Mel Tokuda and Scott Murakawa DOH Safe Drinking Water Branch Yvonne Heaney California Division of Drinking Water	<p>Post-wildfire drinking water quality has garnered international attention since 2017, when volatile organic compounds (VOCs) were discovered inside a drinking water system's pipelines following a wildfire in California. Since then, multiple states across the US, including California, Oregon, Colorado, and Hawaii, have experienced drinking water system contamination after fast-moving and destructive wildfires swept through their service areas. Understanding extreme conditions and the potential for water systems to be exposed to the initiation of combustion byproducts and the formation of harmful chemical compounds, leading to contamination events. After such events, utilities face the extensive task of conducting comprehensive water quality testing and repairing or replacing damaged infrastructure.</p> <p>This presentation explores the use of innovative analytical techniques to identify previously undetected contaminants in post-wildfire drinking water systems, including those in Paradise, CA, Lahaina, HI and Los Angeles, CA. These advanced methods have been applied to better characterize the chemical profiles of impacted systems, guide remediation strategies, and inform public health decision-making. Additional topics will include water system recovery processes and emerging areas of research.</p>			
11:15 a.m.(45 min)	Presentation	BWS Updates Islandwide Water Master Plan * Carl Lundin CDM Smith	<p>The Water Master Plan 10-year update is a comprehensive initiative led by the Honolulu Board of Water Supply (BWS) to ensure the long-term sustainability, reliability, and resilience of Oahu's water system. Building upon the foundation of the 2016 WMP, this update will assess current infrastructure conditions, forecast future water demand through 2045, evaluate water sources and quality, and incorporate climate change scenarios. The update will include water system condition assessments of reservoirs and other facilities, analysis of groundwater sources, and identification of alternative water sources. The plan also integrates modern technologies, such as drone inspections, and addresses emerging challenges like climate change, regulatory shifts, and unaccounted-for water losses.</p> <p>To support strategic decision-making, the WMP will develop a 30-year Capital Improvement Plan (CIP), financial planning tools, and updated Water System Facilities Charges (WSFC). Public engagement is a central focus, with Stakeholder Advisory Group meetings and community engagement designed to ensure transparency and community input. This update aims to guide BWS in maintaining a resilient and efficient water system that meets the needs of future generations while aligning with environmental and regulatory standards.</p>			

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Thurs Oct. 16, PM	Breakout Session 4, Kalona Ballroom		Breakout Session 5, Ka'ala Ballroom I-II	Breakout Session 6, Ka'ala Ballroom III-IV
	Regulatory Track		Planning Track	Communications Track
1:30 p.m.	<p>Presentation</p> <p>CWRM Goals and Major Projects Clara Kehahe, State Commission on Water Resource Management</p> <p>CWRM Goals and Major Projects over the next 2 years</p>		<p>Wildfire Modeling and Emergency Response Plan Coordination on Oahu Michael Cubas, CDM Smith</p> <p>Conflagration is no longer just a phrase or scholastic term—it's an increasingly measurable threat reshaping firefighting response and infrastructure resilience. This presentation explores advanced wildfire risk modeling, wildfire-impacted baseline fire behavior scenarios, extreme models representing the 99th percentile of fire-increasing conditions. By combining terrain, vegetation, climate, and infrastructure proximity with extreme heat, directional winds, fuel moisture, and relative humidity, these models expose heightened facility vulnerabilities. The extreme models also determines extents for Urban Conflagration, where fires leap from structure to structure, behavior, and fuel. We examine how intensified fire behavior, increased ember load, and diminished suppression capabilities converge and threaten water systems. The research underscores the need for proactive mitigation: hardening assets, retrofitting infrastructure and enhancing emergency coordination.</p>	<p>Presentation</p> <p>From Supervisors to Leaders: Empowering the Frontline for Tomorrow's Challenges Michele Rodriguez-Flores, Ridgecrest Inc.</p> <p>As a wave of retirements reshapes the workforce landscape, organizations face a critical question: how do we prepare the next generation of leaders starting at the frontline? This session explores a strategic approach to developing frontline supervisors into empowered, forward-thinking leaders. Attendees will walk through the essential steps to align workforce training with long-term organizational goals, ensuring readiness for tomorrow's challenges. Through practical insights and proven frameworks, this presentation will highlight the cornerstones of effective leadership development—fostering growth, resilience, and adaptability at the supervisory level. Whether you're building a new training program or refining an existing one, this session offers actionable guidance to elevate your frontline talent and secure your organization's future.</p>
2:00 p.m.	<p>Presentation</p> <p>State and PWS Perspectives on PFAS Rules and CCR Revisions* Zhaohui Wang, DOH Safe Drinking Water Branch</p> <p>On April 10, 2024, the EPA announced the final National Primary Drinking Water Regulation (NPDWR) for six PFAS. This was followed by the release of the final Consumer Confidence Report (CCR) Rule Revisions on May 15, 2024. Most recently, on May 14, 2025, the EPA confirmed that it will maintain the current NPDWR for PFOA and PFOS.</p> <p>This presentation will provide a comprehensive overview of the PFAS regulatory changes and update the current monitoring and compliance status of the majority of Public Water Systems (PWSs). It will also discuss the requirements of the CCR Rule Revisions. Finally, it will offer practical guidance on the steps PWSs should take to prepare for implementation of these new requirements.</p>		<p>Presentation</p> <p>Granular Activated Carbon Reactivation Facility * Jay Stone, Bowers & Kubota</p> <p>The BWS needs to address a long-term solution for the disposal and/or reactivation of spent granular activated carbon (GAC) generated from their water treatment facilities. Recent actions and future changes to the City's solid waste disposal regulations that are beyond BWS's control have impacted the current GAC disposal options resulting in the need for this action. This includes: 1) the closure of the AES Hawai'i Power Plant last year; and 2) the future closure of the Waimānalo Gulch Sanitary Landfill.</p> <p>This paper will discuss the development of a design-build operation and maintain request for proposal for a GAC reactivation facility as a long-term sustainable disposal method for spent GAC from BWS facilities. Disposal options, site selection, life-cycle costs, preliminary design, manpower planning, alternative procurement, and permitting requirements will be discussed in this paper.</p>	<p>Presentation</p> <p>Communicating Complicated Analyses to Utility Leaders and the Public Glenn Barnes of Water Financing Assistance</p> <p>Utilities generate complicated analyses such as water audits, asset management plans, risk-resilience assessments, rate studies and others to gather the information needed to make smart policy decisions that will sustain operations for years to come. These analyses are often technical and hard to interpret for leaders and the public at large to understand the results. Spreadsheets and data tables rarely move hearts and minds. The results have to be "translated" into stories. Attendees will learn how to identify the most compelling story from the analysis, tell that story in plain language that would be understood by a non-technical audience, focus on aspects of the analysis that will resonate with utility leaders and the public, and create effective visuals to emphasize key findings.</p>
2:30 p.m.	<p>Presentation</p> <p>Adjusting Sewer Rates to Support Affordability and Water Conservation while also meeting Revenue Requirements. Roger Babcock, Dept. Environmental Services</p> <p>Dave Ebersold, CDM Smith</p> <p>The Honolulu Department of Environmental Services (DEN) is facing several challenges, including compliance with known upcoming permit requirements, potential new regulations on PFAS and microplastics, addressing climate change and sea level rise, upgrading aging infrastructure, managing workforce shortages, addressing cesspools, and completing costly upgrades for a 2010 consent decree. The consent decree, involves three phases, with Phase 3—Sand Island (WWTP) upgrades to be completed by 2030, at a cost of approximately \$2.3 billion. Many of these challenges have led to significant increases in DEN revenues, which are solely derived from sewer charges to its customers.</p> <p>In June 2025, the Honolulu City Council approved a 7-year package of sewer fee increases that involve significant changes to the rate structure. The purpose of these changes is to facilitate equity and affordability by giving customers greater control over their sewer bill, encourage water conservation, and complement the City's overall water and energy structure. The presentation will provide an overview of the proposed sewer fee structure. We will present the proposed rates to summarize the specific drivers of the revenue requirements, review the various rate options considered and their impact on customer bills, summarize stakeholder advisory group input regarding required rate changes, and describe the final result as adopted by the City Council, including sample sewer bills. We will also present affordability metrics for Honolulu in comparison to other major cities. Lastly, we will present the results of BWS's recently completed price elasticity evaluation and consider how the alignment of water and sewer rate structures may influence future water use behavior by customers</p>		<p>Presentation</p> <p>Ha'ikū Tunnel Bulkhead Study, a Groundwater Storage and Stream Restoration Evaluation * Nancy Matsumoto, BWS Hydrology-Geology</p> <p>Charles Luxford, Brierley Assoc.</p> <p>The Haiku Tunnel Bulkhead Study investigated the tunnel's hydrogeology, bulkheads and discharge piping to determine if storage was increasing. This study was in response to the CWRM order to reduce production from 1.3 MGD to 0.3 MGD. The reduction in tunnel production was required to increase Heeia Stream flows for the expansion of Iō i kalo in Heeia wetland. As part of the study, various alternatives for rehabilitation and/or replacement of the facility were evaluated.</p>	<p>Presentations</p> <p>Educational and Participatory Communications Arthur Au, Sheri Mikami, Michele Harman, BWS Communications Office</p> <p>Ani Turner, Kauai DWS</p> <p>Education is a cornerstone of outreach efforts by water utility Communications teams. Often they focus on specific audiences, such as students and tour groups, gardening beginners, to enthusiasts, and organizations focused on watershed stewardship, in order to raise interest and awareness about the importance of their efforts. From the Honolulu Board of Water Supply and the Department of Water on Kauai will highlight best practices in their educational programs and the impact of their efforts on everything from demonstration facilities, current community and interagency partnerships to tackle invasive species, and building on watershed partnership outreach.</p>
3:00 p.m.	Break	Break		Break

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3:30 p.m.	Presentation	Pure Water Hawai'i, Guidelines for Potable Reuse Andy Salveson and Mike Miyahira Carollo Engineers	<p>Today's Hawaii water resources managers face a myriad of challenges from drought to water supply reliability to climate change. Potable water reuse, which is also called Purified Reclaimed Water or PRW, has been demonstrated across the continental U.S. and the world as a feasible solution to these water supply challenges. The proposed Pure Water Hawaii Framework follows the state of Colorado's measured step-by-step process of stakeholder engagement, facilitated workshops, and the use of a decision matrix to ultimately arrive at PRW guidelines – the precursor to actual regulatory rules. The first step of this process started with a survey of the public and stakeholders and their needs and approaches, consider environmental, social, political, and cultural issues, and identify relevant audiences and messaging strategies. A comprehensive survey was distributed to over a dozen stakeholders across the state of Hawaii in August 2025, initiating a discussion of these issues. The results as presented here, with a look towards next steps in the process of developing PRW guidelines. The initial list of stakeholders developed by the Carollo team includes a cross section of state, State and County regulators, wastewater and drinking water utilities, private water and wastewater industry entities, NGOs and educational institutions. Subject to available funding, future Pure Water Hawaii phases will facilitate the development of actual Hawaii Revised Statutes and Hawaii Administrative Rules for the potable reuse of domestic wastewater.</p>	Presentation	Nu'uuanu Hydro-Managed Aquifer Recovery, a Stormwater Capture, Treatment, Energy Recovery and Aquifer Recharge Solution for a Climate Change Future ** Judy Nishimoto CDM Smith	<p>Climate change poses increasing threats to fresh-water availability in Hawaii, necessitating innovative and sustainable water management strategies. This project explores the historical and future significance of Nuuanu Reservoir, once a primary source of drinking water for Honolulu, as a key component in climate-resilient water infrastructure. By leveraging the Nuuanu Reservoir and surrounding valley for managed aquifer recharge (MAR), this initiative aims to restore its hydrological function and enhance groundwater sustainability. The unique geology of Nuuanu Reservoir, characterized by its high infiltration rates and natural infiltration pathways – makes it an ideal site for groundwater replenishment. This approach not only supports long-term water security but also contributes to ecological restoration and community resilience in the face of climate variability.</p>	Presentation	Hawai'i's Watershed Partnerships, Protecting our Water Source in Mauka Forests Amy Tsueyoshi BWS Hydrology-Geology Yumi Kam Waianae Mountain Watershed Partnership	<p>Our forests are essential for water security. For over 25 years, the coordinators of these partnerships and their dedicated staff have been working with their diverse partners – including the county water supplies – to protect, maintain and restore our native watershed forests.</p>
4:00 p.m.	Presentation	PFAS Challenges for a Small Public Water System * Judy Hayducsko and Ann Kam DOH Safe Drinking Water Branch	<p>The State Department of Health, Safe Drinking Water Branch conducted a per- and polyfluoralkyl substances (PFAS) monitoring project in Hawaii to sample areas with PFAS presence. Kūnia Village, a small system on Oahu, was the first community in the state to find PFAS in its drinking water sources. Luckily, Kūnia Village was able to establish an emergency connection to a nearby public water system until a solution was found. SDWB staff, Ann Kam and Judy Hayducsko, will present the following:</p> <ul style="list-style-type: none"> - SDWB's PFAS monitoring and findings at Kūnia Village - The Environmental Protection Agency's assistance provided through its national PFAS treatment research project, PFAS Innovative Treatment Team; and - The Drinking Water State Revolving Fund program's role in the design and construction of granular activated carbon (GAC) treatment for the existing source and, eventually, a replacement well. 	Presentation	State of Hawai'i Water Audit Program an Overview * Nicholas Ing State Commission on Water Resource Management	<p>In 2016, Act 169, Session Laws of Hawaii was signed into law and established the Hawai'i water audit program which requires affected public water systems (PWS) to submit Level 1 validated American Water Works Association (AWWA) Water Loss Audit to the Commission on Water Resource Management (Commission) on an annual basis. In 2020 AWWA released an updated FWAS v6.0, which provides a new interactive data validity grading matrix and a dashboard for data validity and Key Performance Indicators (KPI) benchmarking.</p> <p>This presentation will discuss the Commission's WAVE program, annual water audits, ver.6 training, and may touch upon the water meter testing program that is being planned this year as a part of the annual water audit program outcomes.</p>	Panel	Panel: Adapting Communications for Optimal Impact Despite Increasing Polarizing Community, Political, and Social Perceptions Moderator: Kathleen Elliott-Pahinui Steven Norstrom and Stella Bernardo BWS Communications Office Kawika Ueyehara Hawaii DWS Adam Mundy Maui DWS Ani Turner Kauai DWS.	<p>This presentation will provide an overview of the Watershed Partnership model, and the types of management actions required to protect and maintain our mauka native forests that are so essential to our State's water supply and the community and stakeholder outreach necessary to implement those actions.</p>
4:30 p.m.	Presentation	GAC vs IX for PFAS Treatment * Kevin Lavery Carbon Supply, Inc.	<p>Per- and polyfluoralkyl substances (PFAS) pose persistent challenges to water treatment due to their chemical stability and resistance to conventional processes. This presentation compares granular activated carbon (GAC) and ion exchange resins (IX) in terms of removal efficiency, media longevity, and selectivity across various PFAS compounds. GAC, while cost-effective and widely deployed, shows variable performance depending on chain length, with lower affinity for short-chain PFAS. In contrast, IX offers higher selectivity and faster kinetics, especially for short-chain PFAS, but face higher capital and operational costs. By examining breakthrough curves, operational considerations, and emerging field data, this session provides a perspective on optimizing media choices for site-specific PFAS remediation.</p>	Presentation	East Honolulu Watershed Management Plan, a Holistic Ahupua'a and Community Based Water Management Plan * Melissa May Haley Aldrich Barry Usagawa BWS	<p>The BWS watershed management planning framework incorporates innovative components including climate change, Native Hawaiian cultural values, and a long-range water demand forecast that considers impacts from sea level rise and climate change. This framework has been referenced as setting a standard for the development of water plans statewide. The East Honolulu Watershed Management Plan (EHWMP) is BWS' most recent watershed management plan. It was adopted with unanimous support from the City Council and testimony from area residents, business leaders, and the 2019 National Outstanding Planning Award from APA Hawaii. The EHWMP incorporates innovative approaches to addressing threats like sea level rise, increased storms, and changing rainfall patterns. It utilizes current scientific projections and policies to guide adaptive management, emphasizing infrastructure resilience and ecosystem-based solutions. A key feature is its forward-looking, multi-hazard approach that includes different rainfall projections ranging from significant decreases to increases highlighting the uncertainty of future hydrologic conditions. This emphasizes conservation and flexible water management strategies to ensure a secure future water supply regardless of climate outcomes. The plan promotes resilience by supporting infrastructure upgrades, shoreline protection, and buffer zones, along with the restoration of natural marshes and wetlands. The comprehensive, science-driven principles are being incorporated into all of BWS' watershed management plans, providing a proactive framework for adapting to climate change and safeguarding Hawai'i's watersheds and communities for the future.</p>	Panel	<p>In a world inundated with information and views in all sorts of forms, advancing technology, and those looking to use that chaos to their advantage, it can be difficult to figure out what you can trust and believe.</p> <p>In this panel, water industry and communicators will share their perspectives on the impact of increasing polarizing community, political and social perceptions and the impact of technology on how they approach public outreach, especially when it comes to core messaging such as water conservation, water resource protection, and long-term planning or infrastructure investments.</p>	
5:00 p.m.-9:00 p.m.	Thompson Award, Banquet								
Until 10 pm	Hospitality Room								

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7:30 a.m.- 9:00 a.m. Continental breakfast						
		General Session 3 Kailana Ballroom	Business Track			
8:00 a.m. (45 min)	Presentation	Local Forecasts and Analysis of Economic, Demographic, and Business Trends in Hawaii. Deteriorating US outlook weighs on Hawaii prospects. Dr. Steven Bond-Smith UHERO	Rising and uncertain import tariffs, sweeping federal layoffs, and new fiscal and immigration policies are undermining consumer confidence, raising inflation expectations, and worsening the business outlook—both nationally and in Hawaii's visitor-dependent economy. Tourism weakened sharply over the summer, with declines across domestic and international markets, while payroll job growth has stalled. Inflation will pick up as tariffs filter through to consumer prices, and only construction remains a source of near-term strength in Hawaii. The result is a projected decline in recession over the next year, while long-term structural trends suggest Hawaii will remain locked into a trajectory of low growth.			
8:45 a.m. (45 min)	Presentation	Our Kuleana: Leveling Up in Water Advocacy Ann Miyahira Hajnosz Harris & Associates	The water industry is facing significant challenges - rapidly aging infrastructure; climate impacts; dwindling staff resources; continued regulatory pressure - all adding up to continued affordability challenges for ratepayers and communities. This presentation will suggest ways to "level up" our thinking and communications around water, with the goal of everyone coming away with one new idea and/or one act, that they can implement to increase their water advocacy. It will also provide background on the specific financial challenges facing water utilities today and how water advocacy plays a direct role in the financial sustainability of an agency.			
9:30 a.m. (45 min)	Panel Discussion	Manager's Roundtable: Ernest Lau Honolulu BWS Keith Okamoto Maui DWS John Stuhlbren Maui DWS Joe Tait Kaua'i DWS	Conference Issues of Note Action Items Moving Forward			
10:00 a.m. and 11:30 am	Field Trips	Watershed Field Trip 10 am Bento Lunch	Kapolei Golf Tournament Check-in 10:30 am, Shotgun 11:30 am Bento Lunch			

* Course has been approved for Drinking Water Operator CEUs.

** Course has been considered for Wastewater Operator CEUs. All CEUs are pending Board of Certification approval.