Celebrating Milestones: Taking the Next Steps for Stormwater

CASQA 2022 Annual Conference
October 24-26
Palm Springs Convention Center

50 YEARS
CLEAN WATER ACT 1972

35 YEARS
CLEAN WATER ACT AMENDMENTS 1987

20 YEARS
CASQA ESTABLISHED 2002
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Celebrating Milestones:
Taking the Next Steps for Stormwater

Remember to celebrate milestones as you prepare for the road ahead.
— NELSON MANDELA

As we emerge from the last two years and come back in person it’s time to celebrate! This year not only brings us together again, but also marks 50 years of the Clean Water Act (1972), 35 years of the Clean Water Act Amendments (1987), and the 20th anniversary of the establishment of the California Stormwater Quality Association (CASQA) (2002).

While looking at how far we have come, we must continue to look toward the next steps needed to further protect our state waterways. We will delve into the details of up-and-coming new permits while focusing on the lessons learned from past permits. We will explore ways to equitably support water quality and provide resilience in our infrastructure for future generations, highlight ways to effectively implement true source control measures, and plan for emerging pollutants of concern.

These are just a few of the diverse topics we will cover during the CASQA 2022 Conference in Palm Springs.

Thank you for joining us as we gather again to celebrate past successes and lay the steppingstones to progress.
I’m excited to be in Palm Springs at the CASQA Conference this year! 😎

It’s absolutely fabulous to be back “in-person” with my stormwater colleagues! 😊

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HOST PROGRAM SPONSOR

MUNICIPAL STORMWATER STEWARD
Palm Springs

Palm Springs, California lies on the western edge of the Coachella Valley, within the Colorado Desert, and sits at the base of the beautiful San Jacinto Mountains, visible from anywhere in the valley. The Palm Springs Convention Center and the adjacent Renaissance Palm Springs Hotel are walkable to downtown.

With the San Jacinto Mountains protecting Palm Springs from the coastal weather, the area enjoys over 350 days of sunshine per year with average temperatures in October of 91°F high / 65°F low. After the conference you may want to take advantage of nearby attractions and activities for all ages including the Living Desert Zoo, Moorten Botanical Garden, 110 local golf courses, multiple museums, as well as strolling and shopping in downtown Palm Springs.

Things to do in Palm Springs

Take the Palm Springs Aerial Tramway and enjoy spectacular vistas of the valley floor below during the 10-minute journey, and from the Mountain Station at elevation 8,516 feet. Upon arrival you can also take in the natural history museum, two documentary theaters, and over 50 miles of hiking trails.
Conference Overview

The CASQA Annual Conference offers in-depth learning opportunities and discussions on a wide range of stormwater and water management topics, with a focus around the conference theme, Celebrating Milestones: Taking the Next Steps for Stormwater.

The Plenary Session will officially kick off the conference featuring the Award Announcements and Keynote Address. This will be followed by concurrent technical sessions presented by leading stormwater practitioners. Attendees will also have multiple opportunities to network with fellow conference goers and explore the offerings in the Exhibit Hall.

Highlights

- **Three day conference:**
  Monday 10/24/2022 - Wednesday 10/26/2022
- **Multi-track Technical Sessions** with 132 technical presentations, 18 panels, and 3 training workshops incorporated throughout the conference.
- **Post-conference access** to Technical Session recordings is included with a paid Full Conference pass. There will be no live streaming/virtual access during the conference.
- **Poster Session**
- **Plenary Session** including Award Announcements and Keynote Address
- **Exhibit Hall** including an exhibitor-sponsored prize drawing
- **Networking Opportunities:**
  - **Welcome Reception - Sunday 10/23:** This is a great way to break the ice before the official start of the conference (appetizers; cash bar)
  - **Networking Event - Monday 10/24:** Socialize after hours, enjoy food and entertainment, and continue the stormwater discussion (dinner; cash bar)
  - **Exhibitor Reception - Tuesday 10/25:** Exhibitors and conference attendees always enjoy a chance to interface in this cordial and relaxed environment (appetizers; cash bar)
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Technical Program Overview

The 2022 Technical Program comprises the robust conference offerings listed below, in the thematic tracks that are detailed on the following page.
Conference Tracks

Anniversary
In the 35 years since the Clean Water Act was amended to add stormwater and with the leadership of CASQA for the last 20 years, this track will focus on accomplishments in stormwater in California, the future of stormwater management, and ideas for how we can get there.

50 Years: Clean Water Act (1972)
35 Years: Clean Water Act Amendments (1987)
20 Years: CASQA Established (2002)

BMP Effectiveness
This track will focus on advances in BMP effectiveness assessment, including effectiveness monitoring or benchtop special studies, innovative assessment methods, and lessons learned.

Construction General Permit
This track will focus on both the 2009 and the new 2022 CGP and will include discussion of proven strategies to resolve construction stormwater challenges: innovative BMPs and controls; TMDL implementation; challenges and solutions to site management; implementing cost controls; resolving monitoring and sampling issues; and dealing with the challenges of linear underground and overhead projects.

Equity and Environmental Justice
This track will focus on how we identify the connections between the business of water management and its direct and indirect impact on underserved communities. Included will be discussions of current programs, lessons learned, and how to bring diversity, equity, and inclusion into all aspects of our work in stormwater communities.

Funding
This track will address stormwater program and infrastructure funding and financing, including asset management (both tracking for capitalization and schedule for replacing aging infrastructure), its role in full stormwater program integration, and funding and financing mechanisms that may be available to the regulated community.

Industrial General Permit
This track will cover various aspects of the Industrial General Permit such as pollutant source assessments, monitoring and reporting, Exceedance Response Action requirements, best management practices (BMPs), Total Maximum Daily Loads (TMDLs), water quality based corrective actions, compliance options, permit participation initiatives (e.g., SB 205), and Clean Water Act citizen lawsuits.

Modeling and Data Tools
This track will focus on modeling of all types, including hydrologic, water quality, and geographic information systems (GIS). Innovative data collection, visualization, assessment tools, and quantification methods and metrics will be presented, including how data tools from other industries may be used in the stormwater arena.

Monitoring and Special Studies
This track will highlight innovations in monitoring or monitoring programs and the development and implementation of special studies.

Municipal Programs
This track will focus on the challenges and solutions to implementing a municipal stormwater program for both Phase I and Phase II agencies and cover emerging issues for municipalities such as planning activities for permit compliance, workforce development, operations and maintenance, permanent post-construction BMPs, monitoring program challenges and unique solutions, and transient encampments.

Outreach, Engagement, and Education
This track will share experiences creating and implementing innovative stormwater outreach campaigns, building community to foster a sense of stewardship, using social media as an outreach tool, reaching school-age children with programs in and out of the classroom, and measuring effectiveness of outreach and education efforts.

Pollutants of Concern
This track will focus on statewide priority pollutants, in addition to contaminants of emerging concern (CECs): what we know or don’t know or need to learn, upcoming regulatory changes that may impact the stormwater community, and new advances in science that allow us to measure or characterize both human and environmental risk related to emerging contaminants including trash, mercury, pesticides, biostimulatory, microplastics, and other CECs.

Regulatory and Legislation
This track will provide a forum for updates from regulators, discussions of future policy and legislative initiatives, newly enacted legislation and its impacts on stormwater, examples of innovative ways that regulatory obligations can be met, and updates from legal experts.

Resiliency and Sustainability
This track will look at sustainable practices, legal requirements and barriers, opportunities for collaboration, and programs that connect stormwater and other environmental sectors. Important topics such as water supply, water rights, groundwater recharge, Sustainable Groundwater Management Act (SGMA) planning, energy, watershed management, resiliency planning, wildfire planning, and climate change will be discussed.

Stormwater Capture, Use, and Green Infrastructure
This track will highlight examples of physical infrastructure for improving stormwater runoff quality, protecting natural channels from hydromodification, preventing flood impacts to property, recharging groundwater supplies, permanent post-construction BMPs, and stormwater capture and use. It will focus on pilot studies, design lessons learned, operation and maintenance challenges / solutions, and adaptability after installation.
# Sponsors and Exhibitors

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## GOLD STORMWATER STEWARDS

- CASC Engineering and Consulting
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## TRACKS

- BMP Effectiveness
- Construction General Permit
- Equity and Environmental Justice
- Funding
- Industrial General Permit
- Modeling and Data Tools

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2022 CASQA Awardees

The CASQA annual awards recognize outstanding projects, activities, and people in the stormwater management profession. (Photos and illustrations below, courtesy of the respective awardees.)

Outstanding Stormwater Capture and Use Project or Program
Caruthers Park Multi-Watershed Stormwater Capture Project
City of Bellflower, Public Works Department

This regional facility captures first flush stormwater and dry-weather urban runoff and benefits two watersheds, treating over 3,200 acres to address copper, lead, and zinc loads. The treated water provides nearly 100% of the annual irrigation demand for the park.

The subsurface reservoir maintains the surface use of the park for public space.

Outstanding Public Outreach / Engagement Project or Program
A Call for Action: An Innovative Approach to Environmental Asset Management and Public Engagement
City of Carlsbad

This application for treatment control BMPs enables the city to prioritize sites, schedule inspections, engage and interact with the owners, and review maintenance records. Since its launch in early 2022, self-verification submittals from the community have increased by 24%, there have been about 2,000 visitors to the watershed map website, and it has significantly reduced the cost of the program.

The ACTION System works on any smart device (iPhones, iPad, Androids, etc.)

Outstanding Public Outreach / Engagement Project or Program
Tricks to Trash Cans
Orange County Stormwater, H2OC

Using community-based social marketing, the program targeted a hard-to-reach audience (youth skaters) that is frequently associated with littering behavior. The program successfully went beyond education and awareness to address audience values and produce measurable changes in behavior and pollutant loads.

Throw Your Trash Away Helmet/Skateboard Sticker

Skater placing his commitment on the public display board
Outstanding Stormwater Capture and Use Project or Program

**Earvin Magic Johnson Park Urban Runoff Water Recycling**
*Los Angeles County Public Works*

To minimize potable water use, this 126-acre park was reengineered to provide a sustainable new water source. The system captures urban runoff (dry and wet weather first-flush flows), treats the captured flows to improve water quality, and recycles the water for onsite irrigation use.

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Outstanding Stormwater Capture and Use Project or Program

**Orange Memorial Park Regional Stormwater Capture Project**
*City of South San Francisco*

This stormwater capture project captures and treats approximately 16% of the annual drainage from approximately 6,500 acres of land, including multiple municipalities. Benefits include a reduction in pollutant discharges of PCBs and mercury to San Francisco Bay, a reduction in trash discharges, water reuse for irrigation, groundwater recharge, and local flood reduction.

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**Congratulations to this year’s CASQA Awardees!**

Look for the small blue ribbon icons in the Agenda and Poster Presentation sections of this program for presentations by CASQA 2022 Awardees.
CASQA Impact Award

California State Senator Ben Allen

In recognition of Senator Allen’s incredible leadership and ongoing commitment to protecting our coasts, waterways and water supply, CASQA is pleased to establish and select Senator Allen as the first recipient of the CASQA Impact Award.

CASQA views this award as one of our highest honors, to be awarded only as-needed, to individuals or organizations who’s exemplary leadership results in a significant impact, in alignment with our Vision for Sustainable Stormwater Management. We thank Senator Allen for his focused efforts to reduce pollution at its source and celebrate these impactful achievements.

On June 30, 2022, the most comprehensive measure in the nation to address the plastic waste crisis was signed into law by California Governor Gavin Newsom. Authored by California State Senator Ben Allen (D – Santa Monica), Senate Bill 54 places the responsibility for costs on the producers rather than the local communities who pay for waste management and recycling.

“For far too long, plastic waste has been a growing burden for humans, animals, and the water, soil, and air we need to exist,” said Senator Allen. “We knew that we needed to act. And in this time of extreme polarization in our nation, California was able to show that we can pass strong environmental legislation with bipartisan support that brought together the environmental and business communities. I’m so grateful to the ballot measure proponents who helped to force this issue, the many advocates who worked so hard through the negotiations, and the legislators and staff who recognized the need for action. With this new law, California continues its tradition of global environmental leadership – tackling a major problem in a way that will move and grow markets in sustainable innovations, create incentives for investment, and give tools to other states and countries to help play their part in this fight.”

The passage of SB 54 is a monumental achievement and a significant milestone in the reduction of plastics pollution. CASQA was proud to support the legislation as it not only addresses one of the most pressing water quality issues in California, but does so in a way that focuses on meaningful and effective solutions – reducing the pollutant at its source.

About SB 54

Initially introduced in December 2018, the Plastic Pollution Prevention and Packaging, Producer Responsibility Act is the result of four years of negotiation amongst dozens of business and industry representatives, environmental organizations, subject-matter experts, and government leaders. The new California law calls on the producers of specific materials (including single-use packaging and plastic food service ware like disposable cups, bowls, and cutlery) to form a Producer Responsibility Organization (PRO) to manage industry efforts to comply with the law’s requirements. The PRO will create an implementation plan, which will be reviewed by a new advisory board composed of diverse perspectives and subject to final approval by CalRecycle.

The Act goes beyond the standard requirement of other producer responsibility programs that simply cover costs. The new law provides ambitious environmental mandates through a rates-and-dates system that will ensure all covered material is recyclable or compostable within 10 years and calls for a 25 percent reduction in the amount of plastic-covered material introduced to the market within the same timeframe. Additionally, the new law creates the California Plastic Pollution Mitigation Fund, which will dedicate $500 million per year for the next decade – paid for by industry – to fund the monitoring and mitigation of plastics pollution primarily in disadvantaged, low-income, and rural communities.

SB 54 was supported by dozens of environmental and community organizations, business associations, and local governments including Oceana, Ocean Conservancy, The Nature Conservancy, League of California Cities, Rural County Representatives of California, California State Association of Counties, National Stewardship Action Council, Monterey Bay Aquarium, Recycling Partnership, Association of Plastic Recyclers, California Public Interest Research Group, Environment California, American Sustainable Business Network, Seventh Generation, Western Growers, Waste Management, California Stormwater Quality Association, and more.

About Senator Allen

California State Senator Ben Allen was elected in 2014 (and reelected in 2018) to represent the 26th Senate District covering the Westside, Hollywood, and coastal South Bay communities of Los Angeles County.

Senator Allen chairs the Senate’s Environmental Quality Committee and co-chairs the Legislature’s Environmental Caucus, is a member of the Legislative Jewish Caucus, chairs the Legislature’s Joint Committee on the Arts, and co-chairs the Legislature’s Environmental Quality Committee.

Senator Allen chairs the Senate’s Aerospace and Defense. He previously served as Chair of the Education Committee (2017-2019) and Chair of the Elections and Constitutional Amendments Committee (2015-2016).
Outstanding Service Awardees

Each year CASQA recognizes and expresses its appreciation to the CASQA members that have gone above and beyond in providing outstanding service to CASQA, and in doing so, have advanced CASQA and the profession. Congratulations to the 2022 CASQA Outstanding Service Awardees!

Cathleen Garnand, Santa Barbara County
- 6 years of service on the Board of Directors
- 5 years as Membership Committee Chair

Dave Tamayo, Sacramento County (formerly)
- 6 years of service on the Board of Directors
- Pesticides Subcommittee Co-Chair / Pesticides Lead

Hawkeye Sheene, West Yost

Alejandra Gavaldon, City of San Diego
- Outstanding service in redeveloping and relaunching CASQA’s Legislation Subcommittee

Richard Boon, Riverside County Flood Control and Water Conservation District

Karen Ashby, Larry Walker Associates

Brian Currier, Office of Water Programs at Sacramento State
- Development and implementation of the CASQA Fellowship Program

Vicki Kalkirtz, City of San Diego
- Outstanding work on true source control initiatives, including presentation to the League of Cities

Kadi Whiteside, Southern California Edison
- 6 Years of impactful service as Co-Chair of the Construction Subcommittee

Rebekah Guill, Riverside County Flood Control and Water Conservation District
- 6 Years of impactful service as Co-Chair of the Monitoring and Science Subcommittee

Jeanette Huddleston, Sacramento County

Jenna Voss, County of Orange
- Leading CASQA’s public education initiative to increase awareness that stormwater is a resource

Mehran Ebrahimi, GSI Environmental Inc.

Elliott Ripley, Ashworth Leininger Group (ALG)

TJ Mothersbaugh, WaterTectonics

Wayne Rosenbaum, The Environmental Law Group, LLP

Jodie Crandell, KERAMIDA Inc.
- Development of the Water Quality Based Corrective Action Report Template for the Industrial and Commercial BMP Handbook

Conference Scholarship Program Awardee

The CASQA Conference Scholarship Program was created to encourage the next generation of leaders in the stormwater management field. Among other benefits, the scholarship enables awardees to attend the conference and benefit from the educational and networking opportunities that are provided.

Congratulations to the 2022 CASQA Conference Scholarship Program Awardee!
Olivia Trevino, City of Palo Alto
Keynote Speaker: Margaret E. Park

In her position as the Chief Planning Officer for the Agua Caliente Band of Cahuilla Indians, Margaret is responsible for the day-to-day operations of a diverse team managing land planning and development, natural resources, historic preservation, real estate and emergency management on the 31,500-acre Agua Caliente Indian Reservation. Her team manages numerous federal grants awarded annually from six federal agencies for transportation related infrastructure, water resource monitoring/management, habitat conservation, cultural resources and code enforcement. Prior to her position with the Tribe, Margaret worked 8 years as a planner in local government and spent 6 years with a private sector engineering and planning firm. She has a BA in Social Ecology from UC Irvine and an MBA from the Drucker School at Claremont Graduate University, with professional certifications and affiliations with the American Institute of Certified Planners and American Planning Association, California Chapter, Inland Empire Section.
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<td>2:35p - 3:00p</td>
<td>How Using Biochar-Amended Iron-Enhanced Sand Filters Can Reduce the Flow of Bacteria (E. coli) and Phosphorus Into Water Bodies.</td>
<td>Building Long-Term Sustainability and Resiliency into Water Quality Driven Projects: Project Example and Discussion</td>
<td>Sara Daughrebli City of San Diego</td>
<td>TRAINING WORKSHOP continued</td>
<td>An Outcomes-Based Approach to Evaluating Risk from Pollutants and the Benefits of Water Quality Investments: King County’s Water Quality Benefits Evaluation Toolkit</td>
<td>Carly Greuell King County</td>
<td>2022 CASQA Awardee</td>
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<td>The Future Is Now-Charting the Path Forward To Achieve Sustainable Stormwater Management</td>
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<td>Ellen Blake U.S. EPA Region 9</td>
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<td>3:05p - 3:30p</td>
<td>Using Full-Scale BMP Test Facilities To Drive Stormwater Treatment Innovation</td>
<td>Maximizing Water Supply Through Capture and Recharge of Stormwater</td>
<td>Mike Metts Dudek</td>
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<td>Taking Out of Trash via Mapping and Education</td>
<td>Grazia Torres Riverside County Flood Control and Water Conservation District</td>
<td>2D Base Level Engineering Approach for Quantifying Flood Control Benefits Associated With the Implementation of an Enhanced Watershed Management Plan: Ballona Creek Case Study</td>
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<td>Paul Glenn GHD</td>
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<td>SESSION 4</td>
<td>TRACK: BMP Effectiveness</td>
<td>TRACK: Resiliency and Sustainability</td>
<td>TRACK: Industrial General Permit</td>
<td>TRACK: Pollutants of Concern</td>
<td>TRACK: Outreach, Engagement, and Education</td>
<td>TRACK: Modeling and Data Tools</td>
<td>TRACK: Environmental Pollution Action Research</td>
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<td>Mehran Ebrahimi</td>
<td>Karen Cowan</td>
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<td>4:00p - 4:25p</td>
<td>A Data-Informed Approach to Determining the Number of Monitoring Events Needed for Characterizing BMP Performance</td>
<td>PANEL Successful Interagency Projects: Challenges and Tips</td>
<td>Panelists: Rachel Keish Keish Environmental and Ann Calnan Valley Transportation Authority</td>
<td>TRAINING WORKSHOP continued</td>
<td>PANEL The California Bacteria Summit: Collaborative Solutions To Ensure Waters Are Safe To Swim and Shellfish Are Safe To Eat</td>
<td>Panelists: Rebecca Fitzgerald State Water Resources Control Board</td>
<td>Expanding Public Perceptions of Stormwater</td>
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<td>Ryan Edgley Paradigm Environmental</td>
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<td>4:30p - 4:55p</td>
<td>A Statistical Analysis of Long Term Precipitation Data to Justify an Update of BMP Design Parameters Due to Climate Change</td>
<td>Cynthia Greenberg Bay Area Rapid Transit</td>
<td>Thomas Mumley San Francisco Bay Regional Water Quality Control Board</td>
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<td>Still Thinking Blue: How To Refresh a 20 Year Brand and Re-Engage Stakeholders</td>
<td>Bethany Beak City of San Diego</td>
<td>Cloudy With a Chance of Climate Mitigation – Quantifying Future Climate Resiliency Benefits of Los Angeles County Watershed Management Programs</td>
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<td>4:55p - 6:00p</td>
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### Offsite Location: Palm Springs Air Museum
A unique opportunity to socialize after hours, enjoy food and entertainment, and continue the stormwater discussion (dinner; cash bar). Included with 3-Day Full Conference Pass. Tickets are not available at the door. Bus pick-up/drop-off: Renaissance Hotel (outside front entrance).
**SESSION 5**  
**TRACK:** Stormwater Capture, Use, and Green Infrastructure  
**ROOM:** PSCC - MESQUITE D-F  
**MODERATOR:** Chris Sommers  
**MILLCENT COWLEY-CRAWFORD**  
**ROOM:** PSCC - MESQUITE G-H  
**ROOM:** PSCC - SMOKETREE C-E  
**ROOM:** PSCC - SMOKETREE F  
**ROOM:** RENAISSANCE HOTEL - MIDVALE  
**ROOM:** RENAISSANCE HOTEL - PUEBLO  
**ROOM:** RENAISSANCE HOTEL - CHINO

**SESSION 6**  
**TRACK:** Stormwater Capture, Use, and Green Infrastructure  
**TRACK:** Regulatory and Legislation  
**TRACK:** BMP Effectiveness  
**TRACK:** Funding  
**TRACK:** Municipal Programs  
**TRACK:** Monitoring and Special Studies  
**TRACK:** Modeling and Data Tools  
**ROOM:** PSCC - MESQUITE D-F  
**ROOM:** PSCC - MESQUITE G-H  
**ROOM:** PSCC - SMOKETREE C-E  
**ROOM:** PSCC - SMOKETREE F  
**ROOM:** RENAISSANCE HOTEL - MIDVALE  
**ROOM:** RENAISSANCE HOTEL - PUEBLO  
**ROOM:** RENAISSANCE HOTEL - CHINO

**SESSION TOPICS:**  
- Stormwater Capture, Use, and Green Infrastructure  
- Regulatory and Legislation  
- BMP Effectiveness  
- Funding  
- Municipal Programs  
- Monitoring and Special Studies  
- Modeling and Data Tools
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Oakland, California 94612
510.463.8484

1024 Iron Point Road, Suite 1084
Folsom, California 95630
916.914.6812
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<th>SESSION 7</th>
<th>TRACK: Stormwater Capture, Use, and Green Infrastructure</th>
<th>TRACK: Industrial General Permit</th>
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<td>MODERATOR</td>
<td>Millicent Cowley-Crawford Woodard &amp; Curran</td>
<td>Nancy Gardner Haley &amp; Aldrich, Inc.</td>
<td>Kadi Whiteside Southern California Edison</td>
<td>Chad Praul Environmental Incentives</td>
<td>Shawnetta Grandberry City of Carlsbad</td>
<td>Michelle Mattson Weston Solutions</td>
<td>Matt Lentz GSI Environmental Inc.</td>
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<tr>
<td>11:00a - 11:25a</td>
<td>A Partnership To Restore a Neighborhood's Green Stormwater Infrastructure</td>
<td>PANEL Commercial, Industrial, &amp; Institutional (ICI) Permits</td>
<td>Panelists: Milasol Gaslan Los Angeles Regional Water Quality Control Board</td>
<td>Be Bold, Think Big!! A New Way To Finance a Large Stormwater Capital Improvement Program</td>
<td>Sumer Hasenin City of San Diego</td>
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<td>11:30a - 11:55a</td>
<td>Celebrating the Milestone of the Final Phase of Construction Updating Aging Stormwater Infrastructure to Protect an Area of Special Biological Significance (ASBS): The City of Trin Steven Allen GHD</td>
<td>PANEL Environmental Law</td>
<td>Panelists: Peter Kuzielka US EPA</td>
<td>Identifying and Prioritizing Grant Funding Opportunities Using a Scoring Tool</td>
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<td>11:55p - 1:30p</td>
<td>LUNCH</td>
<td>TRACK: Stormwater Capture, Use, and Green Infrastructure</td>
<td>TRACK: Equity and Environmental Justice</td>
<td>TRACK: Construction General Permit</td>
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<td>MODERATOR</td>
<td>Michelle Hafton PACE Advanced Water Engineering</td>
<td>Brenda Ponton Woodard and Curran</td>
<td>Andrew Sidor Michael Baker International</td>
<td>Stephanie Gaines County of San Diego</td>
<td>Patrick Kuga Michael Baker International</td>
<td>Michelle Mattson Weston Solutions</td>
<td>Matt Lentz GSI Environmental Inc.</td>
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<td>2:00p - 2:25p</td>
<td>How Green Infrastructure Has the Potential to Unlock the ESG and Triple Bottom Line Puzzle, Creating Funding Opportunities Through Innovative Alternative Project Delivery Ken Salo Geosyntec Consultants, Inc.</td>
<td>ReDesignLA: Empowering Community-Based Organizations to Build Multi-Benefit Projects</td>
<td>Carlos Moran Council for Watershed Health</td>
<td>Diversifying the Portfolio – Assessing the Feasibility for a Fee-in-Lieu Program</td>
<td>Chris Carandang Paradigm Environmental</td>
<td>City of Carlsbad-By-the-Sea Uses Science To Clean Up Stormwater</td>
<td>Mapped Data Visualizations That Help Salinas Talk (and Reduce) Trash Heidi Niggemeyer City of Salinas</td>
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SESSION 9

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---|---|---|---|---|---|---|---
MODERATOR | Michelle Hoalton | Theresa Dunham Kahn, Soares & Conway, LLP | Dave Mercier | Kristina Hysler WSP USA, Inc. | Rob Carson Marin Countywide Stormwater Pollution Prevention Program | Scott Taylor Michael Baker International | Lisa Austin Geosyntec Consultants
TUE OCT 25 3:05p - 3:30p | 2:35p - 3:00p | 3:30p - 4:00p | 

EXHIBITOR RECEPTION

LOCATION: RENAISSANCE HOTEL - CALIFORNIA GRAND BALLROOM AND FOYER
Exhibitors and conference attendees always enjoy a chance to interface in this cordial and relaxed environment (appetizers; cash bar).

SESSION 10

ROOM | PSCC - MESQUITE D-F | PSCC - MESQUITE G-H | PSCC - SMOKETREE C-E | PSCC - SMOKETREE F | RENAISSANCE HOTEL - MIDWAY | RENAISSANCE HOTEL - PUEBLO | RENAISSANCE HOTEL - CHINO
---|---|---|---|---|---|---|---
MODERATOR | Brenda Ponton | Theresa Dunham Kahn, Soares & Conway, LLP | Dave Mercier | Kelly Westover Stantec | Jason Drew NCE | Scott Taylor Michael Baker International | Lisa Austin Geosyntec Consultants
TUE OCT 25 4:00p - 4:25p | 4:00p - 4:55p | 5:00p - 7:00p | 

EXHIBITOR RECEPTION

LOCATION: RENAISSANCE HOTEL - CALIFORNIA GRAND BALLROOM AND FOYER
Exhibitors and conference attendees always enjoy a chance to interface in this cordial and relaxed environment (appetizers; cash bar).

Break and Exhibitor Focus
### SESSION 11

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<th>TRACK: Stormwater Capture, Use, and Green Infrastructure</th>
<th>TRACK: BMP Effectiveness</th>
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<td>MODERATOR: Jim Rasmus</td>
<td>Jon Konnan</td>
<td>Melanie Soto</td>
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#### 8:30a - 8:55a
- Harvesting Multiple Benefits From Stormwater: Case Studies and Considerations For How Stormwater Capture and Use Can Be Maximized
  - Jim Rasmus, Stantec

#### 9:00a - 9:25a
- Vegetation Effect on Discharge of Trash
  - William Pan, California Department of Transportation

### SESSION 12

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#### 9:35a - 10:00a
- Urban Stream Restoration, a New Perspective for Stormwater Management
  - Sara Dastgheibi, City of San Diego

#### 10:05a - 10:30a
- Water Quality, Flood Mitigation, and Groundwater Recharge: Implementation of a Unique Multi-Benefit Project in an Urbanized Environment
  - Nathan Towlerton, GHD

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**NOTES**

- Discussing the importance of implementing BMPs for stormwater management.
- Highlighting the benefits of green infrastructure in urban areas.
- Emphasizing the role of construction management in optimizing project outcomes.
- Exploring outreach strategies to engage communities in environmental initiatives.
- Focusing on municipal programs to promote sustainability and environmental stewardship.
WED OCT 26 CONTINUED

10:30a - 11:15a  BREAK, PRIZE DRAWING
LOCATION: RENAISSANCE HOTEL - CALIFORNIA GRAND BALLROOM AND FOYER
Break, Exhibit Focus and Prize Drawing*
Winners will be announced by the Platinum Stormwater Steward (Precon Products).
(*Must be present to win)

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<td>Patrick Galvin</td>
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11:15a - 11:40a  South Mission Beach Storm Drain and Green Infrastructure
Brendan Hastie
Rick Engineering Company

|-------|-------------------------------------------------------------------|---------------------------------------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
|       | Panelists: Brendan Steets Geosyntec Consultants                  | Elliott Ripley                                                      | Jennifer Lee                                                     | Paul Hartman
|       | Alicia Gibreath San Francisco Estuary Institute                  | ALG                                                                  | City of Burlingame                                              | Larry Walker Associates                                                                         |

11:45a - 12:10p  Phoenix Ave. Diversion to Sewer Project
Ava Moussavi
Riverside County Flood Control and Water Conservation District

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| MODERATOR         | Jim Rasmus                                   | Vicki Kalkirtz            |
|                   | Stantec                                      | City of San Diego         |

12:10a - 1:30p  LUNCH
LOCATION: PALM SPRINGS CONVENTION CENTER - OASIS HALL 4

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2022 Participating Organizations (pending approval of the conference program):

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- Certified Inspector Sediment and Erosion Control (CISEC)
- Certified Professional in Erosion and Sediment Control (CPESC)
- Certified Professional in Industrial Stormwater Management (CPISM)
- Certified Professional in Municipal Stormwater Management (CPMSM)
- Certified Professional in Stormwater Inspection (CPSWI)
- Certified Professional in Storm Water Quality (CPSWQ)
- California Water Environment Association (CWEA)
- Minimum Continuing Legal Education (MCLE)
- Professional Engineers (PE)

Learn More: casqa.org/events/annual-conference/continuing-education
### SESSION 14

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<td>Lisa Skutecki WSP USA, Inc.</td>
<td>Brian Currier Office of Water Programs at Sacramento State</td>
<td>Tanya Bilczikian Michael Baker International</td>
<td>Peter Schultz-Allen EGA, Inc.</td>
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<td>Chris Carandang Paradigm Environmental</td>
<td>Daniel Secrist CASC Engineering and Consulting, Inc.</td>
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<td>2:00p - 2:25p</td>
<td>Developing and Implementing a Multi-Benefit Regional Stormwater Capture Program for the Los Cerritos Watershed</td>
<td>Construction Stormwater, Big-Picture BMP’s</td>
<td>Managing a Municipal Stormwater Inspection Program Using ArcGIS Online</td>
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<td>Oliver Galang Craftwater Engineering, Inc.</td>
<td>Tom Battale Bancroft Construction Services</td>
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<td>ROOM</td>
<td>PSCC - MESQUITE D-F</td>
<td>PSCC - SMOKETREE C-E</td>
<td>PSCC - SMOKETREE F</td>
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<td>MODERATOR</td>
<td>Lisa Skutecki WSP USA, Inc.</td>
<td>Laura Carpenter Brown and Caldwell</td>
<td>Brianna Datti Craftwater Engineering Inc.</td>
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<tr>
<td>2:35p - 3:00p</td>
<td>Integrated Mitigation Project</td>
<td>Lessons Learned From Designing and Troubleshooting Industrial Stormwater Treatment Systems</td>
<td>It’s Raining Rebates: How Supportive Customer Service &amp; Messaging Made Our Rebate Program 8x Bigger in 1 Year</td>
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<td></td>
<td>Mujahid Chandoo Michael Baker International</td>
<td>Matt Nilyard GSI Environmental Inc.</td>
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<tr>
<td>3:05p - 3:30p</td>
<td>A New One Water Tool to Evaluate A Complete Water Balance for Stormwater Capture</td>
<td>In-Channel Chemical Dosing Pilot Study</td>
<td>ABCs of Abandoned Waste Outreach: Audience Insight and Behavior-Centered</td>
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<td></td>
<td>Steven Wolosoff CDM Smith</td>
<td>Kathleen Harrison Geosyntec Consultants</td>
<td>Nick del Valle County of San Diego</td>
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</tbody>
</table>

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- Funding
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Create the enduring

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Poster Presentations

CASQA is pleased to include a poster session at the conference. Posters will be displayed throughout the conference in the Renaissance Hotel Ballroom Foyer. The poster authors will be available to answer questions at the Monday morning break and during other breaks as available.

Can Community Gardens Be Leveraged To Achieve Stormwater Capture and Water Quality Goals While Supporting Disadvantaged Communities?
Juan Diaz-Carreras
WSP USA, Inc.

County of San Diego Industrial General Permit Guide
Nick del Valle
County of San Diego

Sizing of Stormwater Control Measures for Resiliency – The Four Rs
Greg Williams
StormTrap

Stormwater Isn't Impervious to Racism: Opportunities for Stormwater Capture in Los Angeles County
Megan Kung
Los Angeles Regional Water Quality Control Board

The Milestones of Developing ArcGIS Applications for an NPDES Inspection Program and the Road Ahead
Joyce Goode
CASC Engineering and Consulting, Inc.

UAV and GIS Methods for Stormwater Outfall Monitoring
Chris Sidor
CASC Engineering and Consulting, Inc.

Using Floating Outlet Skimmers in Sediment Basins To Improve Water Quality
Brian Free
Faircloth Skimmer

When the Work Just Stops – Adapting a BMP Prescription to a Unique Construction General Permit Compliance Situation
Christopher Adkison
Geosyntec Consultants

Networking Event

Palm Springs Air Museum
Monday, October 24, 6:00 p.m. - 10:00 p.m.

The Networking Event will be held at the Palm Springs Air Museum, home to one of the world’s largest collections of aviation exhibits and vintage aircraft used in World War II, and the Korean and Vietnam Wars. The event is included with a Full Conference Pass. Tickets are not available at the door. We will have buses available to transport attendees (bus pick-up/drop-off: Renaissance Hotel, outside front entrance).
palmspringsairmuseum.org
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Exhibit Hall Map

EXHIBIT HALL LOCATION: Renaissance Hotel – California Grand Ballroom and Foyer

Exhibit Hall Hours

Monday, October 24
Exhibit Hall Open ....................... 11:55 am – 6:00 pm
Break & Exhibitor Focus .............. 3:30 pm – 4:00 pm
Exhibitor Focus ......................... 4:55 pm – 6:00 pm

Tuesday, October 25
Exhibit Hall Open ....................... 8:00 am – 7:00 pm
Break & Exhibitor Focus .............. 10:30 am – 11:00 am
Break & Exhibitor Focus .............. 3:30 pm – 4:00 pm
Exhibitor Reception .................... 5:00 pm – 7:00 pm

Wednesday, October 26
Exhibit Hall Open ....................... 8:00 am – 12:10 pm
Break, Exhibitor Focus & Prize Drawing ... 10:30 am – 11:15 am

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Exhibitors

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<th>Exhibitor Name</th>
<th>Contact Person</th>
<th>Phone Number</th>
<th>Website</th>
</tr>
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<tbody>
<tr>
<td>202</td>
<td>California Filtration Specialists</td>
<td>Kevin Rettig</td>
<td>(858) 705-6483</td>
<td>cafiltrationspecialists.com</td>
</tr>
<tr>
<td>210</td>
<td>Xerxes</td>
<td>David Holmes</td>
<td>(530) 864-0438</td>
<td>xerses.com/en</td>
</tr>
<tr>
<td>302</td>
<td>StormTrap</td>
<td>Charlie Carter</td>
<td>(760) 212-5628</td>
<td>stormtrap.com</td>
</tr>
<tr>
<td>310</td>
<td>Downstream Services, Inc.</td>
<td>Loren Roberts</td>
<td>(760) 746-2544</td>
<td>downstreamservices.com</td>
</tr>
<tr>
<td>402</td>
<td>Contech Engineered Solutions</td>
<td>Vaikko Allen</td>
<td>(513) 645-7000</td>
<td>conteches.com</td>
</tr>
<tr>
<td>410</td>
<td>CULTEC</td>
<td>Cameron McKay</td>
<td>(949) 861-5556</td>
<td>cultec.com</td>
</tr>
<tr>
<td>502</td>
<td>CloudCompli Inc.</td>
<td>Aimee Grove</td>
<td>(949) 506-1636</td>
<td>cloudcompli.com</td>
</tr>
<tr>
<td>510</td>
<td>Storm Water Inspection &amp; Maintenance Services (SWIMS)</td>
<td>Ethan Purkey</td>
<td>(925) 698-5417</td>
<td>swimsclean.com</td>
</tr>
<tr>
<td>602</td>
<td>Jensen Water Resources</td>
<td>Walt Stein</td>
<td>(855) 468-5600</td>
<td>jensenprecast.com/water-resources</td>
</tr>
<tr>
<td>610</td>
<td>Stormwater Biochar, LLC</td>
<td>Ryan Holman</td>
<td>(503) 789-6760</td>
<td>StormwaterBIOCHAR.com</td>
</tr>
<tr>
<td>101</td>
<td>Layfield USA</td>
<td>Tom Bitner</td>
<td>(619) 631-1275</td>
<td>layfieldgroup.com/stormwaterproducts</td>
</tr>
<tr>
<td>103</td>
<td>Soil Retention Products, Inc.</td>
<td>Nick Jansson</td>
<td>(760) 966-6090</td>
<td>soilretention.com</td>
</tr>
<tr>
<td>105</td>
<td>Porous Technologies, LLC</td>
<td>Gregg Novick</td>
<td>(207) 712-7181</td>
<td>stormcrete.com</td>
</tr>
<tr>
<td>106</td>
<td>United Storm Water, Inc.</td>
<td>Lydia Perry</td>
<td>(626) 961-9326</td>
<td>unitedstormwater.com</td>
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<tr>
<td>107</td>
<td>Clear Creek Systems, Inc.</td>
<td>Jayson Samul</td>
<td>(916) 257-3974</td>
<td>clearcreeksystems.com</td>
</tr>
<tr>
<td>108</td>
<td>Oldcastle Infrastructure</td>
<td>Maryjane MacLeod</td>
<td>(619) 743-6955</td>
<td>oldcastleinfrastructure.com</td>
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<td>109</td>
<td>Frog Environmental</td>
<td>Terry Balog</td>
<td>(310) 241-0866</td>
<td>frogenv.com</td>
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<tr>
<td>203</td>
<td>Safe Drain / Kalos Group</td>
<td>Max Grimes</td>
<td>(831) 620-2155</td>
<td>kalosgroup.net</td>
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<tr>
<td>211</td>
<td>Precon Products</td>
<td>James Mayer</td>
<td>(602) 499-5881</td>
<td>preconproducts.com</td>
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<td>703</td>
<td>Ferguson Waterworks</td>
<td>Patrick Murphy</td>
<td>(916) 402-3210</td>
<td>Ferguson.com</td>
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<td>704</td>
<td>Gullywasher Stormwater Filters</td>
<td>Isabel Carvajal</td>
<td>(805) 612-6234</td>
<td>gullywasher.com</td>
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<td>705</td>
<td>CIF Composites Inc</td>
<td>Brian Lewthwaite</td>
<td>(250) 652-6313</td>
<td>cifcomposites.com</td>
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<td>706</td>
<td>Moleaer</td>
<td>Nick Dyner</td>
<td>(424) 558-3567</td>
<td>Moleaer.com</td>
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<tr>
<td>707</td>
<td>LSC Environmental Products</td>
<td>Tyler Palmer</td>
<td>(661) 303-5754</td>
<td>LSCenv.com</td>
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<td>710</td>
<td>PACE Advanced Water Engineering</td>
<td>Michelle Hoalton</td>
<td>(714) 481-7203</td>
<td>pacewater.com</td>
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<tr>
<td>801</td>
<td>Riverside County Flood Control and Water Conservation District</td>
<td>Darcy Kuenzi</td>
<td>(951) 955-1688</td>
<td>rcwatershed.org</td>
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<tr>
<td>802</td>
<td>FODS</td>
<td>Ryan Webster</td>
<td>(303) 395-1069</td>
<td>getfods.com</td>
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<td>803</td>
<td>Frog Creek Partners</td>
<td>Brian Deurloo</td>
<td>(307) 797-7720</td>
<td>frogcreek.partners</td>
</tr>
<tr>
<td>809</td>
<td>Enviropod, Inc.</td>
<td>Maria Koppens</td>
<td>(877) 651-0566</td>
<td>enviropod.com/en-us</td>
</tr>
<tr>
<td>810</td>
<td>Coanda, Inc.</td>
<td>Steven Esmond</td>
<td>(714) 272-1997</td>
<td>coanda.com</td>
</tr>
</tbody>
</table>
### Exhibitor Prize Drawing

**Submit completed card by: Wednesday, 9:00 am**

To be entered into the Exhibitor Prize Drawing visit at least 10 booths and obtain a representative signature on the prize drawing card provided in your attendee packet. Complete the card and drop it off at the CASQA Registration Desk.

**Drawing will be held: Wednesday, 10:30 am**

The drawing will be held during the Wednesday morning break in the Exhibit Hall (Renaissance Hotel – California Grand Ballroom). You must be present to win.

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<tr>
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<th>Contact Person</th>
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<tr>
<td>204</td>
<td>Clear Water Services</td>
<td>Kristine Sommer</td>
<td>(661) 878-1450</td>
<td>clearwaterservices.com</td>
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<tr>
<td>205</td>
<td>AbTech Industries</td>
<td>Sky Jordan</td>
<td>(480) 874-4000</td>
<td>abtechindustries.com</td>
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<td>206</td>
<td>PAT CHEM Labs</td>
<td>Stephan Berentsen</td>
<td>(818) 639-5300</td>
<td>pat-chem.com</td>
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<td>208</td>
<td>EnviroCert International</td>
<td>Melissa McKinney</td>
<td>(279) 234-6608</td>
<td>envirocert.org</td>
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<td>209</td>
<td>AquaShield, Inc.</td>
<td>John Santos</td>
<td>(916) 850-9879</td>
<td>aquashieldinc.com</td>
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<td>304</td>
<td>Eco-Rain Tank Systems of America</td>
<td>Mary Angle</td>
<td>(818) 501-0424</td>
<td>ecoraintank.com</td>
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<td>305</td>
<td>ABT, Inc. – Permavoid</td>
<td>Brad Short</td>
<td>(949) 633-6111</td>
<td>abtdrains.com</td>
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<td>Triverus Cleaning &amp; Environmental Services</td>
<td>Steve Karlin</td>
<td>(920) 252-9314</td>
<td>triverus.com/municipal-cleaning-vehicles</td>
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<td>Advanced Drainage Systems, Inc.</td>
<td>Terence Zhao</td>
<td>(626) 267-9774</td>
<td>adspipe.com</td>
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<td>ERTEC Environmental Systems</td>
<td>Joe Sherratt</td>
<td>(510) 521-0724</td>
<td>eretcysystems.com</td>
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<td>WaterTectonics</td>
<td>TJ Mothersbaugh</td>
<td>(206) 947-5950</td>
<td>watertectonics.com</td>
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<tr>
<td>405</td>
<td>CORE</td>
<td>Christopher Rochfort</td>
<td>+61 419821258</td>
<td>core.asn.au</td>
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<td>406</td>
<td>StormTree</td>
<td>Paul Iorio</td>
<td>(401) 626-8999</td>
<td>storm-tree.com</td>
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<td>407</td>
<td>SCI Consulting Group</td>
<td>John Bliss</td>
<td>(707) 430-4300</td>
<td>sci-cg.com</td>
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<td>408</td>
<td>CleanWay Environmental Partners</td>
<td>Alison Stephens</td>
<td>(503) 710-2363</td>
<td>cleanwayusa.com</td>
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<td>503</td>
<td>StormSensor, Inc.</td>
<td>Doug McClintic</td>
<td>(206) 756-5716</td>
<td>stormsensor.io</td>
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<td>504</td>
<td>Earthsavers Erosion Control</td>
<td>Howard Schau</td>
<td>(866) 928-8537</td>
<td>earth-savers.com</td>
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<td>CISEC, Inc.</td>
<td>Shauna Nevin</td>
<td>(303) 931-8520</td>
<td>cisecinc.org</td>
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<td>507</td>
<td>Prinsco</td>
<td>Mark Moeller</td>
<td>(760) 415-5120</td>
<td>prinsco.com</td>
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<td>508</td>
<td>Angelus Block Co., Inc.</td>
<td>David Quinn</td>
<td>(714) 321-5736</td>
<td>angelusblock.org.com</td>
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<td>604</td>
<td>DeepRoot Green Infrastructure</td>
<td>Shawn Freedberg</td>
<td>(415) 580-0286</td>
<td>deeproot.com</td>
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<td>607</td>
<td>Faircloth Skimmer</td>
<td>Brian Free</td>
<td>(919) 732-1244</td>
<td>fairclothskimmer.com</td>
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<tr>
<td>608</td>
<td>Hydro International</td>
<td>Phil O’Neill</td>
<td>(805) 350-8163</td>
<td>hydro-int.com</td>
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Friends of CASQA has been established to provide an avenue for individuals to show their support and contribute to our programs. As CASQA is a nonprofit organization, your $100 contribution is tax deductible. We will include a year-to-date listing of our Friends of CASQA in the Annual Conference program and a calendar-year listing in the Annual Report.

Join your friends and colleagues who have already contributed. We are always grateful for the support of our stormwater community and look forward to welcoming you as a Friend of CASQA!

Details:
- $100 (applies to the current calendar year)
- For individuals only; no organizations
- Names will be listed here:
  - CASQA website
  - CASQA Annual Conference Program (year-to-date)
  - CASQA Annual Report (calendar-year)

Thank you to our current 2022 Friends of CASQA!

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- Filtered infiltration ports protect infiltration capacity
- HS-20 Rated with 15' of earth cover

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Thank you for your participation in the CASQA 2022 Conference. The subcommittee invites you to complete a survey. Your feedback will enable us to improve our conferences and better meet your needs.

To complete the survey, scan the code on the right, or go to surveymonkey.com/r/6DPZR5D.