2014 • 10th Annual CASQA Conference

September 15 - 17, 2014 | Hyatt Orange County, California | www.casqa.org

CONFERENCE PROGRAM



Urban Stormwater Management

INTEGRATED INNOVATIVE & GREEN



2014-10_{TH} ANNUAL CASQA CONFERENCE

10th Annual CASQA Conference

The California Stormwater Quality Association (CASQA) celebrates its 10th Annual Conference by returning to the southern California urban core where its first Conference was held in 2005. The theme of this year's Conference, "Urban Stormwater Management: Integrated, Innovative, and Green" reflects the location of the Conference and will offer extensive training, tools, and solutions to address many of the complex stormwater problems facing the urban environment. The Conference has grown con-



siderably over the past 10 years of it existence and is the key training event for stormwater professionals responding to municipal, industrial, and construction NPDES stormwater permit requirements. CASQA is pleased to introduce its first poster session as part of the 10th Annual Conference.

Over 600 are expected to attend this year's event, which will be held from September 15-17, 2014 at the Hyatt Orange County, located just a short distance from Disneyland.

CASQA is the largest professional association dedicated to stormwater quality issues. For a quarter century, CASQA has assisted municipalities, special districts, businesses, the State of California, and the United States Environmental Protection Agency in developing and implementing effective stormwater quality management programs.

JOIN CASQA CASQA is a non-profit professional member association dedicated to the advancement of stormwater quality management through collaboration, education, implementation guidance, regulatory review, and scientific assessment.

Regular or affiliate membership in CASQA is open to organizations and individuals in the stormwater field, whether holders of NPDES permits or not. If you are not currently a member, by joining now, you can receive substantial reductions on the Annual Conference as well as receiving all the other benefits of membership (newsletters, downloadable products, quarterly meeting discounts, etc.). CASQA membership provides substantial benefits even if you are based outside California.



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Monday, September 15, 2014

IN-DEPTH TRAINING WORKSHOPS

Five full-day training workshops, two half-day training workshops, and two full-day field tours on Monday, September 15 will provide in-depth learning opportunities. The training workshops will also be available for viewing by webcast with a registration fee, with the exception of the field tours (see pages 8–9 for detailed agendas).

FULL DAY

STORMWATER FIELD TOUR

A Walk in a Park and Urban BMPs: Los Angeles County

STORMWATER FIELD TOUR

A Walk in a Wetlands and LID BMP Assessment: Inland Empire

The field tours will involve getting on and off the bus at several stops, being outdoors in the elements, and walking on a combination of paved, unpaved, landscaped, natural, and uneven surfaces. A Walk in the Park field tour is expected to require less rigorous walking than A Walk in a Wetlands field tour. Field casual clothing with closed-toe shoes or light boots are required. Hard hats and safety vests are not required. Attendees are encouraged to bring cameras. Due to tour site access requirements, all field tour attendees must travel via the transportation provided through the CASQA 2014 Conference. Registration is limited to 50 people per tour. Lunch is provided.

INDUSTRIAL Industrial General Permit: Onward to Implementation - California's Industrial Activities Storm Water General Permit (IGP) was adopted on April 1, 2014, and will become effective on July 1, 2015. It will impact more than 10,000 industrial dischargers in the state and represents a significant change from the current (1997) IGP. This full day workshop will include talks by regulators and the regulated, and will focus on important changes, milestones, and tools to help implement the IGP. Attendees will also be provided a preview of CASQA's new Industrial BMP Handbook Portal and an update on the new Qualified Industrial Storm Water Practitioner (QISP) training program under development.

CONSTRUCTION *Construction General Permit Implementation and Termination: A How-To Guide* – The Construction General Permit (CGP) Implementation and Termination Training Workshop will build on knowledge and experience gathered since the CGP was adopted in 2009. This hands-on and interactive Training Workshop will include tips and tricks for achieving administrative and field compliance, a lab session using pH and turbidity meters, an overview and exercise of the RUSLE2 program and its use, and ideas for

completing a successful Notice of Termination.

Note: Participants are asked to bring a laptop or tablet loaded with the Caltrans RUSLE2 program.

POST CONSTRUCTION Post Construction and Monitoring Under an MS4 Permit —
The workshop will focus on two primary elements of compliance with MS4 permits, post construction and monitoring. The post construction element will focus on meeting compliance with the post construction requirements of the Phase II permit and also include lessons learned from Phase I MS4s on implementing post construction requirements and plan checking procedures. The monitoring portion of the workshop will focus on designing meaningful monitoring programs and lessons learned from both a Phase I and Phase II perspective.

BMPs Selection and Design of BMPs on Public Works Projects – This workshop will focus on the special challenges faced by public works agencies in incorporating BMPs into road, drainage, and other community redevelopment projects, especially when land area is constrained. The workshop will review the challenges faced, the range of relief provided in MS4 permits for public project BMPs (e.g. – Green Streets Guidance), selection and design considerations, the ability to standardize plans for public works BMPs, and maintenance and long term performance issues. Case histories and panel presentations will frame the technical discussions in the workshop.

PLANNING Watershed Planning and the MS4 *Permit: How it All Fits Together* – This workshop will focus on how watershed planning fits together with MS4 Permit implementation. We will discuss how watershed planning, as required in recently revised MS4 permits, is unfolding in the San Diego and Los Angeles regions; present information on reasonable assurance analyses (what it is and why it matters for many MS4 Permits); provide real world examples and lessons learned for the operation and maintenance of regional and watershed scale facilities; introduce the concept of True Watershed Planning (working together with POTWs, water suppliers, agriculture); investigate how regional monitoring programs are interacting with watershed planning efforts; and receive input from a panel of key state regulators on watershed planning and MS4 permits.

HALF DAY

EDUCATION *Building an Effective Outreach Program in the Age of Online Media* — This workshop will examine how to build an outreach campaign in a world where our audiences are more distracted and bombarded with more information than ever before. Participants will learn about designing a campaign to target specific pollutants to effectively meet permit requirement and, at the same time, learn about using new media tools to more cost-effectively promote, market, and track program efforts to report results and show increases in awareness and behavior change.

FUNDING The Realities of Program Funding – This workshop will cover the existing landscape of stormwater program funding including the basic legal requirements of Propositions 13 and 218 and recent attempts to pass bond measures and fees to fund stormwater program costs. The workshop will additionally cover efforts to obtain alternative funding sources for both infrastructure and stormwater program implementation.

Tuesday and Wednesday, September 16 - 17, 2014

TECHNICAL PROGRAM

A keynote address and over 80 concurrent session presentations will provide two additional packed days of stormwater information. Leading stormwater practitioners from across California and the nation will be participating and making presentations. Concurrent sessions will follow 14 conference thematic tracks (see pages 12–15 for detailed agendas):

BEHAVIOR CHANGE (2 sessions) – This track will focus on the latest challenges and solutions to changing public and business behavior through outreach and education, community-based social marketing, and public involvement programs.

COMPLIANCE TRAINING (1 session) –

This track will cover effective training methods, styles, metrics, and new out of the box thinking that helps retain training content. It will focus on what works and what doesn't, before and after testing, course content, online versus classroom, case studies and examples that illustrate effective compliance training for stormwater permits.

CONSTRUCTION GENERAL PERMIT

(2 sessions) – This track will focus on lessons learned in the field while implementing the California Construction General Permit including case studies, site compliance strategies, common problems, sampling, bioassessment monitoring, responding to exceedances of numeric action levels, and using active treatment systems.

CONSTRUCTION STORMWATER

MANAGEMENT (1 session) – This track will focus on lessons learned and innovative approaches in program management related to construction stormwater and the construction general permit including management tools, staffing, funding and fiscal considerations, enforcing and auditing compliance, building relationships with regulators, assessing legal authority, and reviewing and reporting documents in SMARTS.



EFFECTIVENESS ASSESSMENT (2 sessions)

– This track will focus on strategies to assess the effectiveness of stormwater programs including the development and implementation of program effectiveness assessment plans, management questions and metrics that have been utilized, data collection needs, assessment results (such as changes in polluting generating behaviors, reductions in pollutants loading, and / or improvements in outfall discharges or receiving water quality), and program modifications that have been made based on the assessments.

GIS DATA MANAGEMENT (3 sessions) -

This track will focus on GIS tools, data collection and evaluation, pollutant source tracking, emerging pollutants, new technologies, new monitoring and assessment tools, stormwater impacts, and economic assessments.

INDUSTRIAL STORMWATER

MANAGEMENT (2 sessions) – This track will focus on lessons learned and innovative approaches in program management related to industrial stormwater and the industrial general permit including management tools, staffing, funding and fiscal considerations, enforcing and auditing compliance, building relationships with regulators, assessing legal authority, and reviewing and reporting documents in and out of SMARTS.

INDUSTRIAL STORMWATER PERMIT

(1 session) – This track will focus on innovative stormwater compliance strategies / case studies, BMP effectiveness evaluations, low impact development (LID) at industrial sites, monitoring strategies / techniques, and practical strategies / solutions to comply with a more stringent California Industrial General Permit in 2015, including numeric action levels.

MUNICIPAL STORMWATER MANAGEMENT

(6 sessions) – This track will focus on municipal stormwater permits, program management and implementation, regional stormwater management, funding mechanisms, modeling to support program implementation, and alternative compliance approaches (banking in-lieu fees, trading).

NEW REGULATIONS, PERMITS, AND

POLICIES (3 sessions) – Ask the regulators questions in separate panel sessions on the construction, industrial, and municipal permits.

QSD/QSP FORUM (1 session) – This is the annual forum for Construction General Permit Qualified SWPPP Practitioners (QSPs) and Qualified SWPPP Developers (QSDs).

SPOTLIGHT ON CITY PROJECTS

(1 session) – This track will focus on stormwater case studies of city projects.

STORMWATER TREATMENT (4 sessions) –

This track will focus on site-specific approaches, alternative methods, case studies and designs for green infrastructure, hydromodification, biofiltration / bioretention, LID (including green streets and stormwater harvesting), and conventional BMPs.

TMDLs AND POLLUTANT SPECIFIC

COMPLIANCE (4 sessions) – This track will focus on lessons learned and innovative approaches for the development, planning, implementation and assessment of TMDL compliance programs, including regulations and policies, related to TMDL implementation in MS4 permits and specific pollutants of concern (such as metals, mercury, sediment, PCBs, bacteria, and trash).

Identify Sources of Fecal Pollution





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Monday Evening Networking Event Sponsors



















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Conference Exhibitors

- Advanced Drainage Systems, Inc.
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- Belgard Commercial
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- CBI Systems
- C.I. Agent StormWater Solutions
- CLEARWATER SOLUTIONS, INC.

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- Stormwater Magazine
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- United Storm Water, Inc.
- Weck Laboratories, Inc.



Golder's California stormwater specialists have expertise in all phases of stormwater management and compliance. We draw on our experience to apply effective solutions during permitting and routine BMP maintenance and inspection services, and through development of BMP recommendations and treatment options. Golder achieves results that meet our clients' needs.

Engineering Earth's Development, Preserving Earth's Integrity.

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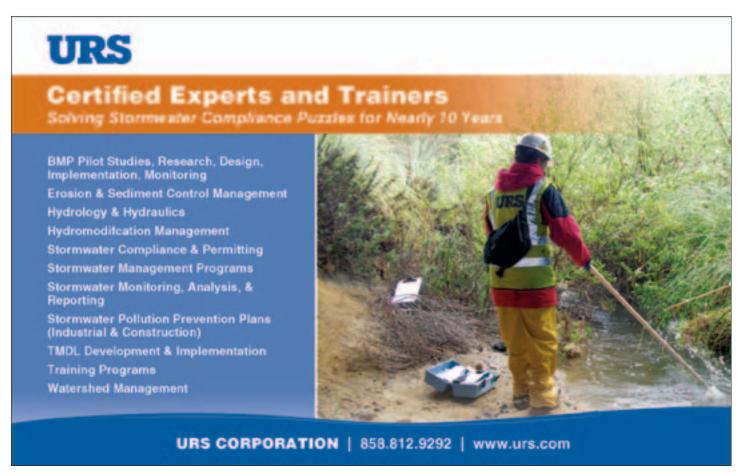


CASQA Training Workshops Agenda, Sunday and Monday, September 14 - 15

SUNDAY						
4:00p - 7:00p	REGISTRATION DESK (Grand Ball	room Fover)				
6:00p - 7:00p		uth Tower Pool Deck, Third Floor)				
MONDAY		dui Tower Tool Deek, Tima Tiool)				
7:30a - 5:30p	REGISTRATION DESK (Grand Ball	room Fover)				
7.50a - 5.50p	KEGISTKATION DESK (GIGIN DGII	nooni royer)				
FIELD TOURS	STORMWATER FIELD TOUR A Walk in a Park and Urban BMPs: Los Angeles County Melanie Sotelo: (ASC Engineering and Consulting "A Walk in a Park" features a once impaired, but now restored community park "A Walk in a Wetlands" features a regional, multi-jurisdictional constructed we					
8:00a – 5:00p	lake. The tour continues to maintains sustainability as stormwater purification p integrates elements design workings of the facility. Th	or a city whose urban runoff ment the environment at its fore lant designed to aesthetically need to assist residents and visite tour will also visit simpler, public works fabric of this corpublic works fabric of this corpus	nanagement program efront. An advanced blend into the community itors to understand the yet eloquently integrated	The once degraded area is wetlands that improves w community recreation and impact development and scale best management pro-	now being transformed into ater quality in its suburban v l educational opportunities. " water conservation testing fa actices have been constructed sh the long-term effectivenes	a cutting-edge, constructed vatershed and provides The tour continues to a low cility. Site integrated, full- d with extensive monitoring
TRAINING WORKSHOPS	INDUSTRIAL GRAND BALLROOM E Industrial General Permit: Onward to Implementation	CONSTRUCTION GARDEN 1 & 2 Construction General Permit Implementation and Termination: A How-To Guide	POST CONSTRUCTION GRAND BALLROOM G Post Construction and Monitoring Under an MS4 Permit	BMPs GARDEN 3 Selection and Design of BMPs on Public Works Projects	PLANNING GRAND BALLROOM F Watershed Planning and the MS4 Permit: How it All Fits Together	EDUCATION GARDEN 4 Building an Effective Outreach Program in the Age of Online Media
8:30 – 10:00	Welcome / Introduction Matt Lentz: GSI Environmental; Katharine Wagner Industrial Permit Overview: Laurel Warddrip: SWRCB The Qualified Industrial Stormwater Practitioner (QISP) Program Laurel Warddrip: SWRCB; Kathleen Harrison: Geosyntec	Welcome / Introduction Tanya Bilezikjian: RBF Consulting, a Company of Michael Baker International Permit Highlights, and Looking Ahead Scott Taylor: RBF Consulting, a Company of Michael Baker International Cross Culture: CGP from a Construction Management Point of View William Seitz: RBF Consulting, a Company of Michael Baker International Cross Culture: CGP from a Restoration Cross Culture: CGP from a Restoration Point of View Jenny McGee: Southern California Edison	Welcome / Introduction - Post Construction (Morning) - Monitoring (Afternoon) Daniel Apt: RBF Consulting, a Company of Michael Baker International LID Design for E.12 Compliance: The San Francisco Bay Area's Post Construction Manual Dan Cloak: Dan Cloak Environmental Consulting Stanford University's Regional Banking Facilities, Challenges and Lessons Learned Adam C. Porter: Stanford University City of San Juan Capistrano Post- Construction Program: Ziad Mazboudi: City of San Juan Capistrano	Welcome / Introduction Cory Jones: GHD, Inc. Water Quality Regulatory Requirements and Challenges for Public Works Projects Chris Crompton: County of Orange Primer on Best Management Practices, Selection, and Engineering Design Considerations Cory Jones: GHD, Inc.	Welcome / Introduction Lisa Austin: Geosyntec Consultants; Ashli Desai: Larry Walker Associates WQIPs Karina Danek: City of San Diego EWMPs Giles Coon and Armando D'Angelo: Los Angeles County	Meeting Permit Requirements with Online Media Stephen Groner: S. Groner Associates, Inc. Making Social Media Work for Your Program Rachel Dowd: S. Groner Associates, Inc.
10:00 - 10:30	BREAK AND POSTER SESSION (GI	rand Ballroom Hall)				
10:30 - 11:45	Introduction to the Industrial BMP Handbook Portal – Overview of Portal and Various Components Anna Lantin: RBF Consulting, a Company of Michael Baker International Introduction to SWPPP Template and Monitoring Guidance Tom Quasebarth: CDM; Sandy Mathews: Larry Walker Associates Introduction to ERA Tools and Preview of the Group Activity Planned After Lunch	Cross Culture: CGP from a Landscape Architecture Point of View Cathy Johnson: RBF Consulting, a Company of Michael Baker International Cross Culture: CGP from a Drainage Engineer's Point of View Scott Taylor: RBF Consulting, a Company of Michael Baker International Cross Culture: CGP from a Project Owner/LRP Point of View Karen Henry: San Diego County Water Authority	Lessons Learned from the SCVURPP Post- Construction Program Jill Bicknell: SCVURPP Southgate Neighborhood Green Streets Project Daniel Apt: RBF Consulting, a Company of Michael Baker International Speaker Panel All	Standardizing Design Practices for Publicly Managed BMPs – Standard Plans, Design Manuals, Green Street Guidance, and the role of Site Specific Engineering Moderator – Cory Jones; Rene Vidales: County of San Diego; Deborah Deets: City of Los Angeles; Heaven Moore: City of Santa Rosa; Tim Sobleman: Caltrans; Eric Strecker: Geosyntec Consultants	Reasonable Assurance Analysis Brandon Steets: Geosyntec Consultants O&M of Large Regional Facilities (Fresno) Daniel Rourke: Fresno Flood Control District	Insights and Analytics: Using Online Data to Evaluate and Report Philip Kao: S. Groner Associates, Inc. How to Go Mobile: Reaching a Larger Audience Philip Kao: S. Groner Associates, Inc. 5 Common Pitfalls to Avoid in Online Outreach Stephen Groner: S. Groner Associates, Inc.

CASQA Training Workshops Agenda, Monday, September 15

11:45 - 1:30	EXHIBITOR FOCUS (Grand Ballroom A-D) AND LUNCH (North Tower Pool & North Garden Tower Patio)					
12:00 - 6:00	EXHIBITS (Grand Ballroom A-D)					
TRAINING WORKSHOPS	INDUSTRIAL GRAND BALLROOM E Industrial General Permit: Onward to Implementation	CONSTRUCTION GARDEN 1 & 2 Construction General Permit Implementation and Termination: A How-To Guide	POST CONSTRUCTION GRAND BALLROOM G Post Construction and Monitoring Under an MS4 Permit	BMPs GARDEN 3 Selection and Design of BMPs on Public Works Projects	PLANNING GRAND BALLROOM F Watershed Planning and the MS4 Permit: How it All Fits Together	FUNDING GARDEN 4 The Realities of Program Funding
1:30 – 3:00	Interactive Group Activity on the Use of the ERA Level 1 Tool Katharine Wagner Group Activity Instructions and Break-Out ERA Level 1 Group Activity	Tips, Tricks, and Lessons Learned Dave Mercier: RBF Consulting, a Company of Michael Baker International Permit Termination Overview: Options Tanya Bilezikjian: RBF Consulting, a Company of Michael Baker International	Introduction Daniel Apt: RBF Consulting, a Company of Michael Baker International Southern California Monitoring Coalition – LID Effectiveness Monitoring Matt Yeager: Yeager Environmental Associates Orange County Monitoring Program and Collaboration with UC Irvine Grant Sharp: County of Orange; Darren Haver: UC Cooperative Extension From Zero to Sixty in One Year – The LA County MS4 Permit Monitoring Experience Clris Minton: Larry Walker Associates	National Experience Achieving Load Reductions through Implementation of Innovative Best Management Practice Installations Robert Pitt: University of Alabama Case Studies of Innovative Best Management Practice Solutions in Challenging Public Works Projects Charles Bussingler: County of Orange; James Nabong; City of San Diego; Craig Cline: Los Angeles County	Natural Treatment System (Orange County) Ian Swift: IRWD True Watershed Planning Ashli Desai: Larry Walker Associates	Panel 1: Why We're Stuck with the General Fund Moderator – Andre Monette: Best Best & Krieger, LLP; The 218 Barrier Michael Colantuono: Colantuono & Levic PC; Basic Landscape / League of Cities Paper Kelly Salt: Best Best & Krieger, LLP; Failed Contra Costa County Funding Measure John Bliss: SCI Consulting Group; Failed Los Angeles County Funding Measure Mike Lewis: Lewis & Company
3:00 - 3:30	BREAK AND EXHIBITOR FOCUS (Grand Ballroom A-D)				
3:30 - 5:00	Your Company's Action Plan Jeremy Laurin: PG&E Matt Lentz: GSI Environmental	RUSLE2 Exercises David Lightle: Independent RUSLE2 Consultant Conclusion Tanya Bilezikjian: RBF Consulting, a Company of Michael Baker International	MS4 Monitoring – Theory vs. Reality Dr. Michael Trapp: RBF Consulting, a Company of Michael Baker International SWRCB Stormwater Strategic Visioning Ali Dunn: SWRCB Speaker Panel All	Experiences Maintaining and Keeping Long Term Performance of Best Management Practices in Public Works Projects Moderator – Cory Jones; Tim Sobleman: Caltrans; James Nabong: City of San Diego; Daniel Rourke: Fresno Metropolitan Flood Control District———————————————————————————————————	Monitoring Eric Stein: SCCWRP; Clris Sommers: EOA, Inc. Panel Discussion Greg Gerhardt: State Water Board; Pamela Creedon: Central Valley Regional Water Board; Sam Unger: Los Angeles Regional Water Quality Control Board Workshop Wrap-Up Lisa Austin: Geosyntec Consultants; Ashli Desai: Larry Walker Associates	Panel 2: Alternative Solutions Moderator – Richard Watson: Richard Watson & Associates, Inc.; Funding Through Transportation Measures Matthew Fabry: San Mateo Countywide Water Pollution Prevention Program; Los Angeles Stormwater Funding Options Ken Farfsing: City of Signal Hill; NGO Efforts to Help Municipalities Get Funding Kirsten James: Heal the Bay, Potential for Foundation Funding David Beckman:
E-00 E-00	EVUIDITAD EACHS (Crand Dalles	om A D)		Cory Jones: GHD Inc.		Pisces Foundation (Invited,
5:00 - 6:00	EXHIBITOR FOCUS (Grand Ballroc		and with 7 Day Full Cantagon Day	co Othorwico Eutro Foe Applica		
6:00 - 9:30	MONDAT EVENING NETWORKING	EVENT AT HOUSE OF BLUES – Include	ueu wilii 3-vay Fuli Conference Pa	ss, otherwise Extra Fee Applies		



Gold Stormwater Steward



CASQA Poster Presentations, Monday, September 15

CASQA is pleased to introduce a poster session to the Annual Conference this year. The posters will be displayed all day in the Grand Ballroom Hall, Monday, September 15, 2014. The poster authors will be available from 10:00 a.m. - 10:30 a.m.

*Rapid Trace Analysis of Synthetic Pyrethroids in Stormwater Using Online Preconcentration Followed by Liquid Chromatography-Tandem Mass Spectrometry

David Schiessel: Babcock Laboratories, Inc.

*Sustainable Technology Solutions for MS4 Stormwater Permit Management Ryan Dickson: accenaGroup

*This is Not a Citation: Supporting Residential Inspection Activities with Social Science Jennifer Tabanico: Action Research

*Modular Wetland TAPE Testing Zach Kent: Modular Wetland Systems, Inc.

*Demonstrating Trash TMDL Compliance Using a Combination of Structural and Institutional Measures Amanda Burns: Black & Veatch

Effectiveness of Advanced Stormwater Treatment at a Water Transportation Facility Scott Bourne: Weiss Associates

Challenges and Solutions for LID/ Green Streets Retrofit Site Selection and Design Ewelina Mutkowska: County of Ventura

Modeling Applications to Inform Hydromodification Management Design Decisions Judd Goodman: Geosyntec Consultants

Schematic Poster Discussion of a Flow Through Active Treatment System Wendell Sawyer: Active Treatment Systems, Inc.

Addressing Sources of Bacteria Impairment and Ensuring TMDL Compliance at Baby Beach, Dana Point Harbor Kacen Clapper: County of Orange

CA Phase II LID Sizing Tool
Maureen Kerner: CSUS Office of Water Programs

The Green Build – Overcoming LID Barriers at San Diego International Airport Nicole Rieger: Dokken Engineering; Patricia Trauth: URS Corporation Re-Evaluating LID at a State of the Art Automated Container Terminal: Berths 142-147 Backlands Improvements at the Port of Los Angeles Exemplifies Their Commitment to Sustainable Redevelopment *Robert Henderson: CH2M HILL*

A Multi-Year Temporal and Spatial Evaluation of Pyrethroid Concentrations and Biological Effects of Stormwater Discharges to the Lower American River
Stephen Clark: Pacific EcoRisk

Evidence for the Accumulation and Steady State Persistence of E. coli in Subtropical Drainage Basin Sediments

J. Michael Trapp and Kyle Curtis: RBF Consulting

Out of Sight Out of Mind: Mosquito Production in Subsurface Stormwater Infrastructure the Infectious Disease Dragon Under Our Feet Amber Semrow:

Orange County Vector Control District

The Secret to Building a Top Notch Used Oil Filter Recycling Program Adam Quinn: S. Groner Associates, Inc. (SGA)

Water Capture, What Could it Get US? Anthony Cotts: Weston Solutions

Mobile Real-Time GIS Technology Solutions for Stormwater Management Lisa Lubeley: Dudek

LID Guidance for San Diego County: Updating the San Diego County LID Handbook Jason Wright: Tetra Tech

WMP Reasonable Assurance Analysis for Compliance with Creek TMDLs Brandon Steets: Geosyntec Consultants

Innovating the Path Toward a Cleaner Urban Watershed Using a Green Street Concept that Will Integrate into Existing Municipal Management Practices

James Nabong: City of San Diego

The Onset of Novel Offset: An Australian Experience with Pollutant Tradeoff Schemes, and Applicability in California. Municipal Stormwater Management: Banking/In Lieu Fees Trading Ashmita Sengupta: Southern California Coastal Water Research Project

 st Poster + oral presentation

CONTINUING EDUCATION CREDITS

Continuing Education Credits are available for attendees at the Annual Conference in the following certifications:

American Institute of Certified

Planners (AICP). CASQA is an approved AICP Certification Maintenance (CM) Provider. The Annual Conference, including the training workshops, is being submitted as a multipart event with credits available based on contact hours. AICP certified planners can record credits by logging onto their CM Log and adding the credits from the calendar. Any issues with logging the credits should be sent to AICPCM@planning.org.

- Certified Professional in Erosion and Sediment Control (CPESC); Certified Professional in Storm Water Quality (CPSWQ); Certified Erosion, Sediment and Stormwater Inspector (CESSWI); Certified Municipal Separate Storm Sewer Specialist (CMS4S) Professional Development Units (PDUs); and Certified Inspector of Sediment and Erosion Control (CISEC) Continuing Development Hours (CDHs) are available for attendance at the Annual Conference, including the training workshops. No sign-in sheets, forms, or certificates are required at the Annual Conference.
- California Water Environment Association (CWEA). CWEA contact hours are available for attendance at the Annual Conference, including the training workshops. A CWEA contact hour verification form must be filled out by those requesting CWEA contact hours at the registration table and CASQA will issue a Certificate of Completion.

Professional Engineers (PE).

Professional Development Hours (PDH) or CEUs are available for states that allow self-certification and do not require an organization to be an approved provider of PDHs or CEUs. Pick up a CEU verification form at the Conference Registration Desk and obtain a stamp of attendance from the room monitor at the end of each session.

CASQA Technical Program Agenda, Tuesday, September 16

7:30a – 5:30p	REGISTRATION DESK (Grand Ball	room Foyer)				
7:30a – 8:00a	ROOM MONITOR TRAINING (Gard	en 4)				
7:30a - 8:30a	MODERATOR ORIENTATION (Gard	en 3)				
8:00a - 7:30p	EXHIBITS (Grand Ballroom A-D)					
8:30A - 9:40A	PLENARY SESSION • WELCOME AN	ID OPENING REMARKS – Gerhardt H	ubner, Chair, CASQA; KEYNOTE ADD	RESS – Thomas Low, Director, Civid	: By Design, "Placemaking With A	Light Imprint" (Royal Ballroom)
9:40a – 10:00a	BREAK AND EXHIBITOR FOCUS (G	rand Ballroom A-D)				
SESSION	TRACK A GRAND BALLROOM E INDUSTRIAL STORMWATER PERMIT Industrial Permit	TRACK B GRAND BALLROOM F MUNICIPAL STORMWATER MANAGEMENT Watershed Models	TRACK C GARDEN 1 & 2 EFFECTIVENESS ASSESSMENT	TRACK D GRAND BALLROOM G BEHAVIOR CHANGE Public Outreach and Education	TRACK E Garden 3 Gis data Management	TRACK F GARDEN 4 NEW REGULATIONS, PERMITS, AND POLICIES Ask the Regulators: Construction Permit
MODERATORS	Claudia Steiding: Riverside County Transportation	Elisa Garvey: Carollo Engineers	Jim Rasmus: Black & Veatch	Stephen Groner: SGA Associates	Oliver Galang: Brown & Caldwell	Sandy Mathews: Larry Walker Associates
10:00 – 10:30	Industrial General Permit Laurel Warddrip: State Water Board	Reasonable Assurance Analysis Approach for Compliance with the Santa Monica Bay Beaches Bacteria TMDL Megan Otto: Geosyntec Consultants	Effectiveness Assessment Karen Ashby: Larry Walker Associates; Jon Van Rhyn: San Diego County; David Pohl: ESA	Stormwater and Drought: Compliments and Conflicts Tim Graham: City of San Diego	Forecast for Stormwater Program Data in Orange County: Cloudy with a Good Chance of Sharing and Collaboration Grant Sharp: County of Orange	Ask the Regulator: Construction General Permit Jacque Kelley: Water Board – Region 5; Luz Vargas: Water Board – Region 4; Alireza Rahmani:
10:35 – 11:05	Do I Stay or Do I Go Now? How to Navigate the No Exposure Certification David Renfrew: Alta Environmental	Belmont Creek Watershed Study: Alternatives for a Sustainable Watershed Grant Wilcox: WRECO	Lon	Making Social Media Work: From Celebrity Chef to the City of LA Rachel Dovad: S. Groner Associates, Inc.; Joyce Amaro: City of Los Angeles	Creating an Effective GIS Regional Integrated Watershed Planning Tool for County-Wide MS4 Compliance Bruce Phillips: PACE Advanced Water Engineering	Autrean Kanmann. Water Board – Region 4; Keith Elliot: Water Board – Region 8; Michael Roth: Water Board – Region 8; Russ Hansen: State Water Board
11:10 – 11:40	BMP Design to Achieve Compliance with NONA Provisions of the New IGP Marty Spongberg: AMEC Environment & Infrastructure	Integrated Planning and Water Quality Benefits in Seattle, Washington Eric Strecker: Geosyntec Consultants	Assessing the Operation and Maintenance Requirements of BMPs in an Urban Neighborhood Retrofit Emily Daniels: Council for Watershed Health		Mobile Real-Time GIS Technology Solutions for Stormwater Management Lisa Lubeley: Dudek	
11:40 - 12:00	EXHIBITOR FOCUS (Grand Ballroo	om A-D)				
12:00 - 1:30	LUNCH • CASQA AWARDS PROGR	RAM (Royal Ballroom)				
SESSION 2	TRACK A GRAND BALLROOM E COMPLIANCE TRAINING	TRACK B Grand Ballroom F Municipal Stormwater Management	TRACK C GARDEN 1 & 2 EFFECTIVENESS ASSESSMENT	TRACK D GRAND BALLROOM G BEHAVIOR CHANGE Public Outreach and Education	TRACK E GARDEN 3 GIS DATA MANAGEMENT Science and Technology	TRACK F GARDEN 4 NEW REGULATIONS, PERMITS, AND POLICIES Ask the Regulators: Industrial Permit
MODERATORS	Nicole West: LSA Associates	Tracy Ingebrigtsen: City of Laguna Beach	Steve Herrera: Herrera Engineering	Sharon Gosselin: Alameda County	Kristina Schneider: AMEC	Matt Lentz: GSI Environmental Inc.
1:30 – 2:00	It's Compliance Training. Make it Personal. Make it Count. – Ready. Set. Engage! Lisa Haney: Orange County Sanitation District	A Look at the Elements of Green Infrastructure Implementation: The Green Infrastructure Community Partners Project Jason Wright: Tetra Tech	Exploring the Need for a National Stormwater BMP Testing and Verification Stormwater Program Ryan Janoch: Mapistry	Be the Street Nick Laurrell: S. Groner Associates, Inc.	Sustainable Technology Solutions for MS4 Stormwater Permit Management Ryan Dickson: accenaGroup	Ask the Regulator: Industrial General Permit Laurel Warddrip: SWRCB; Ejigu Solomon: LARWQCB; Grant Sharp:
2:05 - 2:35	No Talking Heads! Stormwater Program Training Strategies that Engage Your Audience and Leave a Lasting Impression Karen Ashby: Larry Walker Associates	City of Los Angeles – the Green Blue City One Water Program Richard Haimann: HDR, Inc.		The New "Gnormal" for Addressing Non-Stormwater Discharges: Establishing Water Use Efficiency as a Social "Gnorm," Building Inter-Agency and Public Partnerships and Documenting Behavior Change with a Garden Gnome Jenna Voss: County of Orange	Predictive Performance Method for Hydrodynamic Separators Using the Peclet Number Mark B. Miller: AquaShield, Inc.	Grant Sharp: County of Orange; Keith Elliott: Santa Ana Regional Water Quality Control Board

CASQA Technical Program Agenda, Tuesday, September 16

SESSION 2 MODERATORS 2:40 - 3:10	TRACK A GRAND BALLROOM E COMPLIANCE TRAINING Nicole West: LSA Associates Reaching PEAK Performance Through Employee Enrichment Andrew Demers: Stormwater ONE	TRACK B GRAND BALLROOM F MUNICIPAL STORMWATER MANAGEMENT Tracy Ingebrigtsen: City of Laguna Beach Life Cycle Management of Post- Construction BMPs Patricia Samora: URS Corporation	TRACK C GARDEN 1 & 2 EFFECTIVENESS ASSESSMENT Steve Herrera: Herrera Engineering New Guidance and Tools for Evaluating Water Quality Performance, Volume Reductions, and Life Cycle Costs for Highway Stormwater Marc Leisenring: Geosyntec Consultants	TRACK D GRAND BALLROOM G BEHAVIOR CHANGE Public Outreach and Education Sharon Gosselin: Alameda County The Poo Patch: Engaging Youth Organizations to Promote Pet Waste Management on Private Property Jennifer Tabanico: Action Research	GARDEN 3 GIS DATA MANAGEMENT Science and Technology Kristina Schneider: AMEC Rapid Trace Analysis of Synthetic Pyrethroids in Stormwater Using Online Preconcentration Followed by Liquid Chromatography- Tandem Mass Spectrometry David Schiessel: Babcock Laboratories, Inc	TRACK F GARDEN 4 NEW REGULATIONS, PERMITS, AND POLICIES Ask the Regulators: Industrial Permit Matt Lentz: GSI Environmental Inc. Ask the Regulator: Industrial General Permit (cont.)
3:10 - 3:45	BREAK AND EXHIBITOR FOCUS (G	rand Ballroom A-D)				
SESSION 3	TRACK A GRAND BALLROOM E STORMWATER TREATMENT LID / BMPs	TRACK B GRAND BALLROOM F MUNICIPAL STORMWATER MANAGEMENT Green Infrastructure – Municipal Permit	TRACK C GARDEN 1 & 2 TMDLS AND POLLUTANT SPECIFIC COMPLIANCE TMDLS Trash	TRACK D GRAND BALLROOM G CONSTRUCTION STORMWATER MANAGEMENT Program Implementation	TRACK E GARDEN 3 GIS DATA MANAGEMENT Finding Solutions Using GIS and Data Management	TRACK F GARDEN 4 NEW REGULATIONS, PERMITS, AND POLICIES Ask the Regulators: Municipal Permit
MODERATORS	Lisa Austin: Geosyntec Consultants	Lisa Skutecki: Brown & Caldwell	Jon Konnan: EOA, Inc.	Jason Drew: NCE	Andrew Demers: Stormwater ONE	Jeremy Bauer: URS Corporation
3:45 - 4:15	Adding Creativity to Urban Stormwater Treatment Design – "Rainwater Art" Bruce Phillips: PACE Advanced Water Engineering	Integrating Green Infrastructure Requirements into Municipal Stormwater Permits Jill Bicknell: EOA, Inc.	Demonstrating Trash TMDL Compliance Using a Combination of Structural and Institutional Measures Amanda Burns: Black & Veatch	From Suits to Steel Toe Boots: Interaction with California's Stormwater Program Managers Lisa Haney: Orange County Sanitation District; Isabella Johannes:	Finding a Needle in the Haystack – Finding the Cause of Reduced Biological Integrity in a Large Northern California Urban Stream Chris Sommers: EOA, Inc.	Municipal Stormwater Management Panel Discussion Laurie Walsh: San Diego Water Board; Fred Hetzel: San Francisco Water Board; Eugene Bromley:
4:20 - 4:50	International Stormwater BMP Database Enhancements, Updated Findings, and New Additions Eric Strecker: Geosyntec Consultants	Implementing Jurisdictional Stormwater Programs Across Watersheds: Opportunities and Constraints Bryn Evans: Dudek	The Cost of MS4 Trash Load Reduction Kristine Corneillie: Larry Walker Associates	Islaetia Johannes: PG&E Julia Nussbaum: Stanford University; Chandra Thomas: Riverside County	Determining Causes of Storm and Process Drain System Failures – Using GIS to View the Big Picture Thomas Faludy: E2 Environmental, Inc.	Elgene Bromey: EPA Region 9; Jo Ann Weber: County of San Diego
4:55 - 5:25	The National Stormwater Quality Database (NSQD) Version 4 Alexander Maestre: The University of Alabama	Removing Barriers to LID in Municipal Codes Daniel Apt: RBF Consulting, A Company of Michael Baker International	Are We Close to the Finish Line? – Measuring Trash Reductions in Bay Area Stormwater Chris Sommers: EOA, Inc.		Implementing a Countywide Compliance Project to Address Field Monitoring and GIS Mapping Requirements in Sections E.9 and E.11 of the New Phase II Stormwater Municipal Permit Howard Bunce: Marin County Pollution Prevention Program	



EXHIBITOR RECEPTION (Grand Ballroom A-D)

5:30 - 7:30

THOMAS LOW TO GIVE KEYNOTE ADDRESS

The keynote address on Tuesday morning (September 16) will be provided by Thomas Low, a registered architect and certified planner based in Charlotte, North Carolina. Thomas has completed over 150 charrettes and has directed numerous award winning new urbanism projects. He is Director of Civic By Design with the mission to elevate the quality of the built environment. He leads the initiatives Light Imprint and Learning Cottages. Light Imprint integrates sustainability and community design. It includes the Light Imprint Handbook — a green approach to neighborhood design. Learning Cottages are small scale neighborhood schools and campuses. Thomas is also the creator of Mixopoly, a hands-on design workshop on placemaking for a healthy, sustainable built environment.

CASQA Technical Program Agenda, Wednesday, September 17

7:15a – 8:15a	MINI PLENARY SESSION: CASQA VISION (Royal Ballroom)					
7:30a – 5:30p	REGISTRATION DESK (Grand Ballroom F					
7:30a – 8:00a	ROOM MONITOR TRAINING (Garden 4)	. ,				
8:00a – 8:30a	EXHIBITOR FOCUS (Grand Ballroom A-D)				
8:00a - 1:00p	EXHIBITS (Grand Ballroom A-D)					
session 4	TRACK A GRAND BALLROOM E STORMWATER TREATMENT Biofiltration / Bioretention	TRACK B GRAND BALLROOM F MUNICIPAL STORNWATER MANAGEMENT Regional Collaboration	TRACK C GARDEN 1 & 2 TMDLS AND POLLUTANT SPECIFIC COMPLIANCE TMDLS Bacteria	TRACK D GRAND BALLROOM G CONSTRUCTION GENERAL PERMIT Construction Permit	TRACK E GARDEN 3 INDUSTRIAL STORMWATER MANAGEMENT Program Implementation	
MODERATORS	Cory Jones: GHD	Erica Ryan: Stepping Stone Permit Compliance	Sara Huber: Weston Solutions	Julia Nussbaum: Stanford University	Nancy Gardiner: Haley & Aldrich	
8:30 - 9:00	Recent Advances in Designing Bioretention Facilities to Meet Treatment, Retention, Hydromodification, and Peak Flow Stormwater NPDES Requirements in California Dan Cloak: Dan Cloak Environmental Consulting	Watershed-Wide Permit Alignment: the Challenges and Successes of Regional Collaboration and Multiple Agency Program Integration Andy Rodgers: Russian River Watershed Association	Bacteria Source Identification Study in Upper Malibu Creek Watershed: Findings and Implications for TMDL Compliance Bram Sercu: County of Ventura	Navigating Sticky Permit Language in LUP Type 1 Requirements. Lessons Learned Lisa Haney: Orange County Sanitation District	Challenges and Lessons Learned in Implementing the LA MS4 Permit Industrial Facility Control Program with Transition to New Industrial General Permit and Numeric WLAs for TMDLs Kathleen McGowan: Geosyntec Consultants	
9:05 - 9:35		Resource Conservation Districts and Integrated Planning Shawn Hagerty: Best Best & Krieger LLP	Bacterial Source Identification at Poche Beach – An Integrated Approach to Improving Beach Water Quality and Meeting TMDL Compliance Targets Stephen Gruber: Burns & McDonnell	Unintended Impacts of the CGP – Sediment Starved Streams Remi Candaele & Dave Mercier: RBF Consulting, a Company of Michael Baker International	Strategies to Reduce Contaminants in Industrial Stormwater Mike Chase: SoundEarth Strategies, Inc.	
9:40 - 10:10	City of Torrance: Multibenefit Approach to Improving Water Quality John Dettle: City of Torrance	Southern California Stormwater Monitoring Coalition 5-Year Research Agenda Kenneth Schiff: Southern California Coastal Water Research Project	Limitations and Advantages to the Application of qPCR Technologies to Determine Host Contributions of Fecal Indicator Bacteria in Stormwater J. Michael Trapp: RBF Consulting, a Company of Michael Baker International	One Size (Standard) Does Not Fit All! Understanding Post- Construction Standards for Non-Traditional Small MS4s Subject to the Construction General Permit Patricia Samora: URS Corporation	Industrial General Permit Implementation at 25 School District Bus Maintenance Facilities; A Group Effort Annika Kubischta: D-Max Engineering, Inc.	
10:10 - 10:55	BREAK, EXHIBITOR FOCUS AND PRIZE DE	RAWING (Grand Ballroom A-D)				

Scenes from the 2013 Annual Conference





hotos by Chris Beck

CASQA Technical Program Agenda, Wednesday, September 17

5	TRACK A GRAND BALLROOM E STORMWATER TREATMENT Green Infrastructure/ Hydromodification	TRACK B GRAND BALLROOM F MUNICIPAL STORMWATER MANAGEMENT Banking / In Lieu Fees / Trading	TRACK C GARDEN 1 & 2 TMDLS AND POLLUTANT SPECIFIC COMPLIANCE TMDLS New Ideas	TRACK D Grand Ballroom G QSD/QSP FORUM	TRACK E GARDEN 3 SPOTLIGHT ON CITY PROJECTS
MODERATORS	Jill Bicknell: Santa Clara Valley Urban Runoff Pollution Prevention Program	Cory Jones: GHD	Andrea Crumpacker: Weston Solutions	Melanie Sotelo: AEI-CASC Consulting; Dianne Franks	Tanya Bilezikjian: RBF Consulting, a Company of Michael Baker International
10:55 - 11:25	Piloting Real Time Control Retrofits for Improved Hydromodification and Water Quality Control: Two Oregon Case Studies Aaron Poresky and Adam McGuire: Geosyntec Consultants	Development of a Model On-Site Retention LID BMP Alternative Compliance Program in the Santa Ana River Watershed, California Mark Grey: Construction Industry Coalition on Water Quality	Building a Better Total Maximum Daily Load Reopener Ashli Desai: Larry Walker Associates	QSD/QSP Forum John Slayton: Southern California Edison; Shanda Beltran: Building Industry Association; Ejigu Solomon: Los Angeles Water Board	Implementation and Start-Up of a Multi-Benefit Urban Lake – The Echo Park Lake Rehabilitation Project Jim Rasmus: Black & Veatch
11:30 - 12:00	Implications of Various Hydromodification Management Criteria on LID System Performance and Sizing Harvey Oslick: Wood Rodgers	Statewide Alternative Compliance Approach for Pesticides – Coming Soon to Your Permit? Kelly Moran: TDC Environmental, LLC	This is Not a Citation: Supporting Residential Inspection Activities with Social Science Jennifer Tabanico: Action Research		A New Tool for LID and Hydromodification for the City of Sacramento Dalia Fadl: City of Sacramento
12:00 - 1:20	LUNCH (Royal Ballroom)				
SESSION 6	TRACK A GRAND BALLROOM E STORMWATER TREATMENT Green Infrastructure / Hydromodification	TRACK B GRAND BALLROOM F MUNICIPAL STORMWATER MANAGEMENT Regional Funding Mechanisms	TRACK C GARDEN 182 TMDLS AND POLLUTANT SPECIFIC COMPLIANCE TMDLS Sediment / PCBs / Metals / Mercury	TRACK D GRAND BALLROOM G CONSTRUCTION GENERAL PERMIT Stakeholder Panel Discussion	TRACK E GARDEN 3 INDUSTRIAL STORMWATER MANAGEMENT Program Implementation
MODERATORS	Anna Lantin: RBF Consulting, a Company of Michael Baker International	Michael Drennan: Black & Veatch	Chris Sommers: EOA, Inc.	Marvin Sachse: Brash Industries	Dave Mercier: RBF Consulting, a Company of Michael Baker International
1:20 - 1:50	Gobernadora Multipurpose Basin Project: Integrated Stormwater Management Don Bunts: Santa Margarita Water District	Money Makes the World Go Round – Municipal Stormwater Permit Compliance Cost Needs Analysis for a Potential Funding Initiative in San Mateo County Jon Konnan: EOA, Inc.	Using Aerial Imaging and History to Evaluate Sediment Impacts in the Context of a Sedimentation TMDL Amy Storm: Larry Walker Associates	Out with Old – In with New – Improving the Next CGP Mark Grey: Construction Industry Coalition on Water Quality; Liz Crosson: Los Angeles Waterkeeper; Lisa Haney:	A Design-Build Treatment BMP to Address Turbidity and Metals in Industrial Stormwater Runoff Michael Chase: SoundEarth Strategies, Inc.
1:55 - 2:25	Mill Creek Wetlands – A Demonstration of Regional Project Benefits, Public-Private Partnerships, and Water Quality Improvement in Southern California Ken Susilo: Geosyntec Consultants	Los Angeles County City Managers Stormwater Funding Options Report Kenneth Farfsing: City of Signal Hill; Richard Watson: Richard Watson & Associates, Inc.	When to Say When – Adaptive Management of Permit-Driven Monitoring Lucille Paquet: Contra Costa Clean Water Program	Orange County Sanitation District; Russ Foster: J.F. Shea; Marvin Sachse: Brash Industries	What Do We Do Now? How a Quarry Implemented a Stormwater Program to Meet California Ocean Plan Requirements Kathy Hubbard: Alta Environmental
2:30 – 3:00	Small Alley Retrofits Equal Big Benefits for Stormwater Management Kristy Morris: Council for Watershed Health		Investigation of Toxic Chemicals in Roof Runoff Lisa Rozmyn: Washington State University, Washington Stormwater Center		Pilot and Bench Scale Testing of Novel Treatment Media Nathan Ward: Kennedy/Jenks Consultants
3:05 – 3:35	Green Streets For Regulatory Compliance: A City of San Diego BMP Implementation Project Merrill Taylor: Tetra Tech	2014 Recent Trends in Community Support for Water Quality in the Post-Tea Party Era; Case Studies in Recent Polling Results in San Mateo and Ventura Counties Jerry Bradshaw: SCI Consulting Group	Application of Enhanced Treatment Strategies for Soluble Metals in the San Diego Region Richard Lucera: RBF Consulting, a Company of Michael Baker International		Defining All Known, Available, and Reasonable Methods of Prevention, Control, and Treatment (AKART) for Industrial Stormwater Nathan Graves: Kennedy/Jenks Consultants
3:40 - 4:10	Connecting the Community to the Creek: Smart Growth and Green Streets in a Dense Urban Area of San Diego County John Quenzer: D-Max Engineering	SCI Consutting Group	Modular Wetland TAPE Testing Zach Kent: Modular Wetland Systems, Inc.		

LARRY WALKER ASSOCIATES



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CASQA Technical Program Agenda, Alternate Presentations

In the event of a cancellation of a planned presentation, an alternate presentation below will be substituted.

TRACK

BEHAVIOR CHANGE

Public Outreach and Education

Having the City of Redding Stormwater Management Program's Mascots, Drake & Bill, Become a Household Name in the City's Revamped Stormwater Outreach Program Mieke Sheffield: City of Redding

TRACK

COMPLIANCE TRAINING

Compliance Training

Relevant, Effective IGP Annual SWPPP Training – Marine Corps Logistics Base, Barstow, California Patricia Samora: URS Corporation

TRACK

GIS DATA MANAGEMENT

Science and Technology

A Sample Method for the Assessment of Hydromodification on Sediment Transport in Semi-Arid Southwestern Streams with GIS Applications David Jaffe: AECOM

Finding Solutions Using GIS and Data Management

SANTrack – An Innovative Application to Assist with Stormwater Compliance at the San Diego International Airport Anna Wernet: AMEC

TRACK

INDUSTRIAL STORMWATER PERMIT

Industrial Permit

Effectiveness of Advanced Stormwater Treatment at a Water Transportation Facility Scott Bourne: Weiss Associates

TRACK

STORMWATER TREATMENT

LID / BMPs

Challenges and Solutions for LID/Green Streets, Retrofit Site Selection, and Design Ewelina Mutkowska: County of Ventura

Biofiltration / Bioretention

Sustainable Design Features for Urban Streets Zahid Atashzay: Los Angeles County Department of Public Works

Biofiltration / Bioretention

City of Torrance: Multibenefit Approach to Improving Water Quality John Dettle: City of Torrance

Green Infrastructure / Hydromodification

Innovating the Path Toward a Cleaner Urban Watershed Using a Green Street Concept That Will Integrate into Existing Municipal Management Practices James Nabong: City of San Diego

TRACK

MUNICIPAL STORMWATER MANAGEMENT

Watershed Models

WMP Reasonable Assurance Analysis for Compliance with Creek TMDLs Brandon Steets: Geosyntec Consultants

Municipal Stormwater Management

Old Program, New Tricks: Post-Construction Stormwater Treatment O&M on the Stanford University Campus Julia Nussbaum: Stanford University

Green Infrastructure - Municipal Permit

LID Guidance for San Diego County: Updating the San Diego County LID Handbook Jason Wright: Tetra Tech

Regional Collaboration

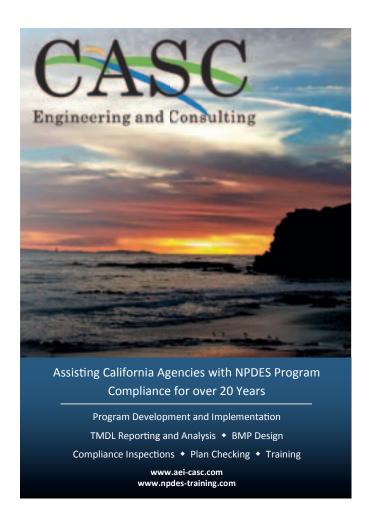
Watershed Characterization to Support MS4 Permit Implementation Decisions in the San Diego Region Christine Sloan: County of San Diego

Banking / In Lieu Fees / Trading

The Onset of Novel Offset: An Australian Experience with Pollutant Tradeoff Schemes, and Applicability in California Ashmita Sengupta: Southern California Coastal Water Research Project

Regional Funding Mechanisms

County of San Diego Stormwater Financing Study; Development of Sustainable Funding Mechanisms Stephanie Gaines: County of San Diego





• Sustainable Development

Stormwater Quality

• TMDL Studies / Implementation

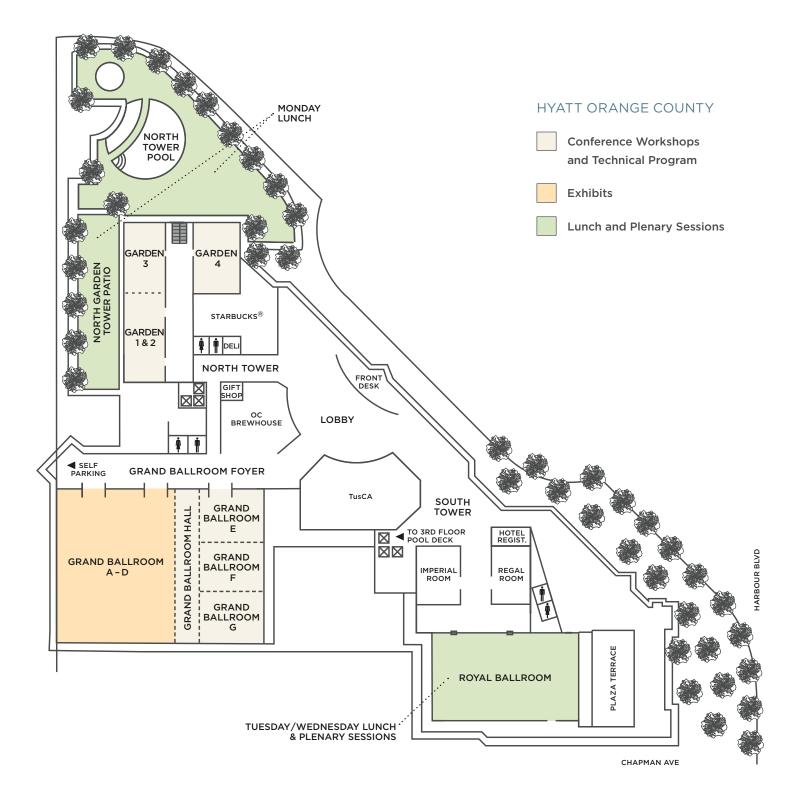
• LID Studies / Design

• BMP Design

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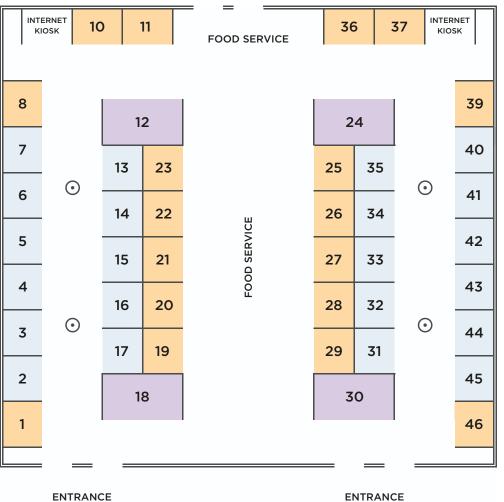




CASQA Conference Exhibitors and Exhibit Hall Map

воотн	EXHIBITOR	CONTACT	ADDRESS/PHONE	WEBSITE
1	PACE Advanced Water Engineering	Michelle Hoalton	17520 Newhope Street, Suite 200, Fountain Valley, CA 92708 Phone (714) 481-7300	www.pacewater.com
2	Storm Water Inspection & Maintenance Services, Inc.	Ric Campos	P.O. Box 1627, Discovery Bay, CA 94505 Phone (925) 516-8966	www.swimsclean.com
3	Filtrexx International	Craig Kolodge	7301 Borla Place, Carlsbad, CA 92009 Phone (760) 429-4041	www.filtrexx.com
4	RBF Consulting, a Company of Michael Baker International	Scott Taylor	14725 Alton Parkway, Irvine , CA 92618 Phone (800) 479-3808	www.mbakerintl.com
5	Deeproot	Shawn Freedberg	530 Washington St., San Francisco, CA 94111 Phone (415) 781-9700	www.deeproot.com
6	Mapistry	Ryan Janoch	1624 Franklin St., Suite 1102, Oakland, CA 94612 Phone (510) 984-3332	www.mapistry.com
7	Weck Laboratories, Inc.	Leo Raab	14859 East Clark Avenue, City of Industry, CA 91745 Phone (626) 336-2139	www.Wecklabs.com





воотн	EXHIBITOR	CONTACT	ADDRESS/PHONE	WEBSITE
8	United Storm Water, Inc.	Lydia Perry	14000 E. Valley Blvd., City of Industry, CA 91746 Phone (626) 961-9326	www.unitedstormwater.com
	Internet Kiosk			
10	Cloudcompli	Jason Locklin	23441 South Pointe Drive, Suite 190, Laguna Hills, CA 92653 Phone (800) 959-7977	www.cloudcompli.com
11	ASRE – Advanced Stormwater Recovery & Engineering, LLC	Stephen Quartararo	2650 N. Lime Avenue, Signal Hill, CA 90755 Phone (949) 650-4994	www.asreeng.com
12	Oldcastle Stormwater Solutions / Filterra Bioretention Systems	Michelle Dunlop	360 Sutton Place, Santa Rosa, CA 95407 Phone (800) 579-8819	www.oldcastlestormwater.com
13	C.I. Agent StormWater Solutions	Jamie Aderhold	5142 Bolsa Ave. #105, Huntington Beach, CA 92649 Phone (562) 619-8708	www.ciagent-stormwater.com
14	Mosquito and Vector Control	Amber Semrow	13001 Garden Grove Blvd., Garden Grove, CA 92843 Phone (714) 971-2421	www.ocvcd.org
15	DBI Services	Anna Griggs	8270 Belvedere Avenue #140, Sacramento, CA 95826 Phone (336) 984-8742	www.dbiservices.com
16	Pat Chem Laboratories	Stephen Berentsen	11990 Discovery Court, Moorpark, CA 93021 Phone (800) 400-5227	www.pat-chem.com
17	AquaShield, Inc.	Eric Rominger	2733 Kanasita Dr., Suite 111, Chattanooga, TN 37343 Phone (423) 870-8888	www.aquashieldinc.com
18	Bio Clean Environmental Services / Modular Wetlands	Greg Kent	2972 San Luis Rey Rd., Oceanside, CA 92058 Phone (760) 433-7640	www.BioCleanEnvironmental.com
19	Belgard Commercial	Seth Seaton	10714 Poplar Avenue, Fontana, CA 92337 Phone (909) 355-6422	www.belgardcommercial.com
20	EarthGuard by Terra Novo, Inc.	Tyler Palmer	2930 Patton Way, Bakersfield, CA 93308 Phone (888) 843-1029	www.earthguard.com
21	StormTrap	Jeramy Sherwood	2495 W. Bungalow Rd., Morris, IL 60450 Phone (815) 955-6655	www.stormtrap.com
22	<i>shift</i> STORMWATER	Greg McCormick	16523 W. Grant St., Goodyear, AZ 85338 Phone (951) 315-1081	www.shiftstormwater.com
23	Stormwater0NE	Andrew Demer	290 Pratt Street #10, Meriden, CT 06450 Phone (877) 257-9777	www.StormwaterONE.com
24	Downstream Services, Inc.	Kim Carr	2855 Progress Place, Escondido, CA 92029 Phone (760) 746-2544	downstreamservices.com
25	Neptune Automated Wash Solutions	Kate Evans	174 Cornerstone Court, Ste. B, Hot Springs, AR 71913 Phone (501) 525-8484	www.neptunewash.com
26	Storm Water Systems	Terry Balog	800 E. Ocean Blvd., Ste. 105, Long Beach, CA 90802 Phone (562) 391 2925	www.stormwatersystems.net
27	Golder Associates, Inc.	Tim Bauters, PhD, P.E.	425 Lakeside Drive, Sunnyvale, CA 94085 Phone (408) 220-9236	www.golder.com
28	Coanda, Inc.	Steve Esmond	3943 Irvine Blvd. #327, Irvine, CA 92602 Phone (714) 389-2114	www.coanda.com
29	ERTEC	Vince Morris	1150 Ballena Blvd., Suite 250, Alameda, CA 94501 Phone (510) 521-0724	www.ertecsystems.com

CASQA Conference Exhibitors, (cont.)

воотн	EXHIBITOR	CONTACT	ADDRESS/PHONE	WEBSITE
30	Contech Engineered Solutions	Vaikko Allen	9025 Centre Pointe Drive, Suite 400, West Chester, OH 45069 Phone (513) 645-7000	www.ContechES.com
31	SCI Consulting Group	John Bliss	4745 Mangels Blvd., Fairfield, CA 94534 Phone (707) 430-4300	www.sci-cg.com
32	Hanna Instruments	Josh Ryan	584 Park East Drive, Woonsocket, RI 02895 Phone (401) 765-7500	www.hannainst.com
33	StormwateRx, LLC	Calvin Noling	122 SE 27th Avenue, Portland, OR 97214 Phone (800) 680-3543	www.stormwaterx.com
34	EnviroCert International, Inc.	John Brown	49 State Street, Marion, NC 28752 Phone (828) 655-1600	www.envirocertintl.org
35	Hydro International	Chris Fromme	94 Hutchins Drive, Portland, ME 04102 Phone (800)848-2708	www.hydro-int.com
36	dat Mobile Solutions, Inc.	Vishnu Arakere	4744 Baltimore Ave., Hyattsville, MD 20781 Phone (443) 538-5421	www.datmobilesolutions.com
37	Stormwater Magazine	Eileen Duarte	P.O. Box 3100, Santa Barbara, CA 93130 Phone (805) 679-7620	www.stormh2o.com
	Internet Kiosk			
39	G2 Construction, Inc.	Eric Taylor	13331 Garden Grove Blvd., Ste. K, Garden Grove, CA 92843 Phone (714) 448-8080	www.g2construction.com
40	SoundEarth Strategies, Inc.	Mike Chase	3000 Joshua Court, Bakersfield, CA 93301 Phone 206-306-1900	www.soundearthinc.com
41	Advanced Drainage Systems, Inc.	Ryan Wade	956 Catherine Street, Alviso, CA 95002 Phone (800) 733-8523	www.ads-pipe.com
42	Angelus Block Co., Inc.	David M. Quinn	3435 S. Riverside Ave., Rialto, CA 92316 Phone (951) 328-9115	www.angelusblock.com
43	CBI Systems	Ty Garmon	3120 Fannin St., Beaumont, TX 77701 Phone (409) 835-3095	www.ms4web.com
44	Jensen Precast	Walt Stein, PE	825 Steneri Way, Sparks, NV 89431 Phone (775) 352-2700	www.jensenprecast.com
45	CLEARWATER SOLUTIONS, INC.	Joe Arthur	PO Box 2078, Vista, CA 92085-2078 Phone (760) 598-2545	www.clearwaterbmp.com
46	StormChamber	Robert Maestro	P.O. Box 672, Occoquan, VA 22125 Phone (877) 426-9128	www.stormchambers.com
GRAND BALLROOM FOYER	California Water Boards – Storm Water Program Outreach	Greg Gearheart	1001 I St., 15th Floor, Sacramento, CA 95819 Phone (866) 563-3107	www.waterboards.ca.gov/ water_issues/programs/stormwater

Super Premium Exhibitors

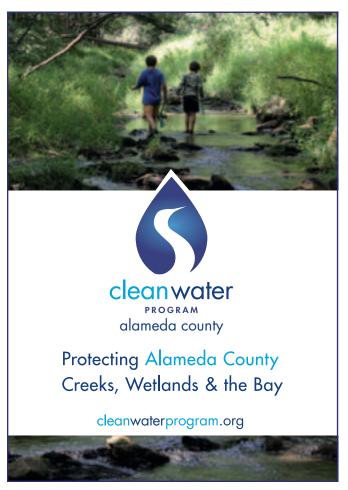








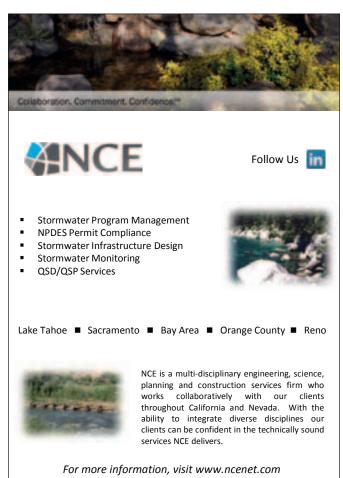












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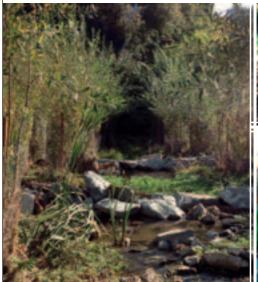


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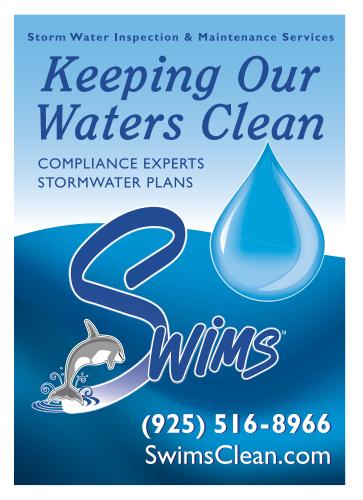






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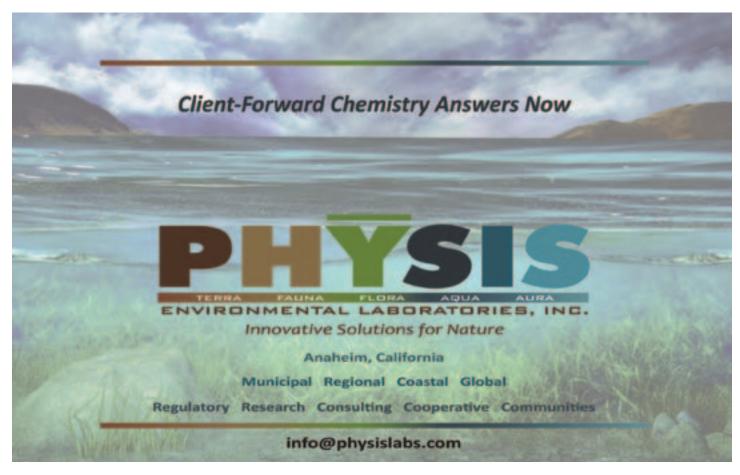
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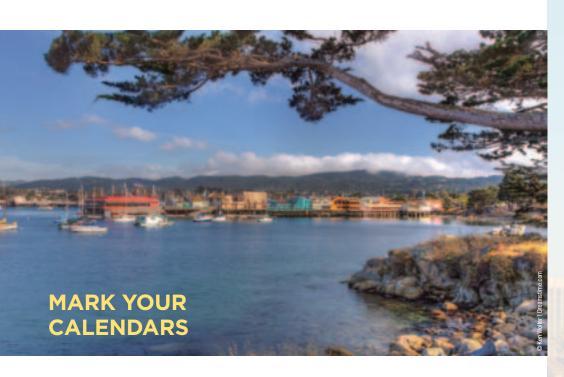
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