



STORMWATER  
VICTORIA

# 2024 Stormwater Victoria Conference

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SILVERWATER RESORT, SAN REMO, VIC

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3-6 JUNE 2024

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## Program

ADVOCACY, ADAPTATION AND ACTION

# PRE-CONFERENCE PROGRAM – MONDAY, 3 JUNE 2024

<b>8.30am Pre-Conference Workshop Registration, Lobby</b>			
	<b>Pre-Conference Workshop 1</b>		<b>Pre-Conference Workshop 2</b>
<b>Room</b>	Waratah		Coronet
	<p><b>VIC Guidelines for the Maintenance of Stormwater Treatment Measures</b></p> <p><b>Murray Powell</b>, Vice President of Stormwater NSW, and General Manager of Optimal Stormwater</p> <p>This full-day workshop covers all aspects of Operations and Maintenance for all types of stormwater treatment measures. These Guidelines, adopted by Stormwater VIC, have become the Australian industry standard and reference document for the maintenance of stormwater assets across the country. The Workshop is aimed at Maintenance Managers and Cleaning Contractors, as well as Council staff involved in the sizing, siting, and approval of stormwater treatment measures.</p>		<p><b>Water Sensitive Urban Design Concept Design</b></p> <p><b>Michael and Valerie Mag</b>, Stormy Water Solutions</p> <p>This course is designed for practitioners who are involved in the planning, design and/or approval of drainage and Water Sensitive Urban Design (WSUD) projects and covers the basic principles of WSUD.</p> <p>This course is a condensed version of the 2-day Stormy Water Solutions WSUD Course held regularly in Glen Waverley.</p>
<b>9.00am</b>	<b>Workshop Commences</b>	<b>9.00am</b>	<b>WSUD Overview and Sediment Pond Design</b>
<b>10.30am Morning Tea, Lobby</b>		<b>10.30am Morning Tea, Lobby</b>	
<b>11.00am</b>	<b>Workshop Continues</b>	<b>10.45am</b>	<b>Wetland Design</b>
<b>12.30 Lunch, Watermark Restaurant</b>		<b>12.30 Lunch, Watermark Restaurant</b>	
<b>1.00pm</b>	<b>Workshop Continues</b>	<b>1.15pm</b>	<b>Swale Design</b>
<b>3.00pm Afternoon Tea, Lobby</b>		<b>3.00pm Afternoon Tea, Lobby</b>	
<b>3.30pm</b>	<b>Workshop Continues</b>	<b>3.15pm</b>	<b>Bioretention System/Raingarden Design</b>
<b>5.00pm Workshop concludes</b>		<b>5.00pm Workshop concludes</b>	
<b>5.30 pm</b>	<b>Conference Registration and Welcome Reception</b> Watermark Restaurant Deck, Silverwater Resort		
<b>7.30 pm</b>	<b>Welcome Reception concludes</b>		

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# CONFERENCE PROGRAM – TUESDAY, 4 JUNE 2024

Room	Bay View Room
6.00am	<b>Early Morning Yoga Session (1 hour)</b> <i>Phillip Island Yoga</i>
8.00am	<b>Conference Registration, Lobby</b> <b>Tea and Coffee on Arrival, Bay View Room</b>
Room	Churchill and Flinders
9.00am	<b>Welcome to the 2024 Stormwater Victoria Conference</b> <i>Alison Rickard, Conference Chair</i>
9.10am	<b>Welcome to Country</b> <i>Given by a representative of the Bunurong People</i>
9.15am	<b>President's Welcome</b> <i>Alice Lisitsa, President, Stormwater Victoria</i>
9.20am	<b>Opening Address</b> <i>Councillor Clare Le Serve, Mayor, Bass Coast Shire</i>
9.30am	<p><b>Keynote Presentation - Planning Australia's largest water sensitive city</b> <i>Peter Gillam, Waterways Lead, Aurecon, NSW</i></p> <p><i>Chair: Alison Rickard</i></p> <p>The Western Sydney Aerotropolis will comprise 11,000 Ha of employment lands within the catchment of Sydney's longest, freshwater waterway; Wianamatta-South Creek. Government Planning for the Aerotropolis has adopted a Caring for Country approach and established new stormwater management targets to protect and improve Wianamatta-South Creek waterways. Achieving these targets requires a 'step-change' in stormwater management and Governance with a renewed emphasis on stormwater harvesting and source controls at a range of scales.</p> <p>In many ways, this change in stormwater management takes a circular economy approach to design-out excess stormwater which is the long known cause of urban stream syndrome. 'Circular economy' has become a buzz phrase in recent years as Government and industry adopt less linear approaches resource use and focus on regenerating natural systems. Circular economy goals seem ambitious and challenging in the context of existing urban areas, but they are a necessary path towards new resilient, thriving cities and suburbs. The stormwater industry is well placed to drive change towards a circular economy as we grapple with water security, new awareness of ecologic value and greater community expectations. Rather than an end point itself, the circular economy represents a design process well suited to delivering water sensitive cities.</p> <p>The Aerotropolis is a great case study that shares aspects with other developing Precincts in Victoria and overseas. Lessons from the Western Sydney Aerotropolis illustrate how stormwater planning can lock in the principles and foundations of regenerative development through new approaches to water sensitive urban design. This new WSUD approach is making the 'step-change' required to achieve a circular future. What can we learn from this region to build water sensitive cities and circular cities elsewhere?</p>
10.20am	<b>Morning Tea, Bay View Room</b>
10.45am	<b>Move to Breakout Rooms</b>

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Stream	<b>Ain't No Stopping Us Now – Taking Action</b> <i>Chair: Maria Matamala</i>	<b>Full Circle – Designing to Maintaining and Operating</b> <i>Chair: Emily Plymin</i>	<b>Imagine – Advocating for a Sustainable Future</b> <i>Chair: Sai Aung</i>	<b>The Times They Are A Changin'- Adapting to Uncertain Times</b> <i>Chair: Alan Davidson</i>
Room	Churchill	Flinders	Bay View Room	Waratah & Coronet
<b>10.50am</b>	<b>A little litter goes a long way: Innovation in litter assessments</b>  <i>Paulina Elizalde, Waterway Specialist, Streamology and Maximillian Monk, Project Manager, Parks Australia</i>	<b>Towards effective WSUD assets on private land: Lessons from a case study review</b>  <i>Dr. Belinda Hatt, Waterways &amp; Wetlands Research Specialist, Melbourne Water</i>	<b>Turning the light on flood information and turning it into intelligence</b>  <i>Celine Marchenay, Senior Principal Engineer and Group Manager, Water Technology</i>	<b>Understanding risks of drought in urban Melbourne, to unlock integrated water management solutions</b>  <i>Celeste Morgan, Australasia Integrated Water Management Lead, Arup and Ayisha Paw, Senior Engineer, Arup</i>
<b>11.20am</b>	<b>5 Minute Room Change</b>			
<b>11.25am</b>	<b>How much stormwater is too much: setting flow limits for the protection of waterway values</b>  <i>Dr. Simon Treadwell, Global Principal Ecosystem Restoration, Jacobs</i>	<b>Diving deep into WSUD maintenance compliance</b>  <i>Daniel Rider, Water Sensitive Urban Design Specialist, Ocean Protect</i>	<b>Smart stormwater surcharging for passive irrigation and biodiversity boosting in Australia's public spaces</b>  <i>Dr. Jerry Liang, Water Resources Engineer, Kellogg Brown &amp; Root (KBR)</i>	<b>From wind turbines to hydropower, sustainable stormwater supports renewable energy battery storage</b>  <i>Julia Baumann, Senior Engineering Manager, Dalton Consulting Engineers (DCE)</i>
<b>11.55am</b>	<b>5 Minute Room Change</b>			
<b>12.00pm</b>	<b>Using trash traps for data collection and education to inform local solutions to stormwater pollution</b>  <i>Hannah De Frond, Project Specialist, International Trash Trap Network, Ocean Conservancy &amp; University of Toronto Trash Team</i>	<b>Performance based sediment pond maintenance</b>  <i>Alison Rickard, Senior Asset Manager, Melbourne Water</i>	<b>What is flood impact?</b>  <i>Alice Lisitsa, Water Lead, BG&amp;E and Caterina Paganelli, Senior Water Engineer BG&amp;E</i>	<b>When drainage schemes, strategies and plans are forgotten.....</b>  <i>Jamie Tainton, Principal Engineer, Water Studio</i>

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12.30pm	5 Minute Room Change			
12.35pm	<b>Stormwater Harvesting Audit helps to justify Business Case for further investment</b>  <b>Dr. Edmond Lascaris</b> , Stormwater Management Specialist, City of Whittlesea and <b>Christopher Schroen</b> , Water Management Officer, City of Whittlesea	<b>Is my stormwater harvesting scheme operating as expected?</b>  <b>Bjorn Bryant</b> , Project Engineer, Water Technology, and <b>Gayani Chandrasena</b> , Senior Engineer, Water Technology	<b>Reimagining flood capacity building</b>  <b>Rianda Mills</b> , Director, Rain Consulting, <b>Luke Cunningham</b> , Director, Rain Consulting, <b>Nicole Sutherland</b> , Area Lead Flood and Stormwater Partnerships, Waterways and Catchment Services, Melbourne Water and <b>Lucy McLaren</b> , Flood Strategy Project Officer, Flood Strategy and Stormwater Policy, Melbourne Water	<b>An ecologist, an engineer and a drone walk into a wetland</b>  <b>Jarrold Gaut</b> , Civil Engineer and Principal, Water Insites and <b>David Carew</b> , Director, Carew Environmental
1.05pm	Lunch			
1.55pm	Move to Breakouts			
Stream	<b>Ain't No Stopping Us Now – Taking Action</b>  Chair: <i>Maria Matamala</i>	<b>The Times They Are A Changin'- Adapting to Uncertain Times</b>  Chair: <i>Karl Velasco</i>	<b>Imagine – Advocating for a Sustainable Future</b>  Chair: <i>Julia Baumann</i>	<b>The Times They Are A Changin'- Adapting to Uncertain Times</b>  Chair: <i>Alison Rickard</i>
Room	Churchill	Flinders	Bay View Room	Waratah & Coronet
2.00pm	<b>Stormwater offsets: the ultimate polluter handball.... or are they?</b>  <b>Maggie Xipolitos</b> , Senior Policy Officer, Department of Energy, Environment and Climate Action DEECA	<b>Innovative flood mitigation solutions: Modelling permeable pavement conversion to quantify potential benefits</b>  <b>Mardi Medwell-Squier</b> , Technical Director – Flood hydrology and hydraulics, GHD	<b>For permeabilities sake, let's all retire</b>  <b>Tess Fuhrmann</b> , Engineer, Afflux Consulting and <b>Andy Wilkins</b> , Design Drafter, Afflux Consulting	<b>Restoring Victoria's lost oyster reefs – A pearlfact alternative for offsetting stormwater quality objectives?</b>  <b>Tony Barrett</b> , Principal Integrated Water Management, AECOM
2.30pm	5 Minute Room Change			
2.35pm	<b>A stormwater offsets scheme for industrial development</b>  <b>Angela Ganley</b> , Senior Sustainable Environment Officer, Hume City Council	<b>New approach to rainfall application into urban flood models</b>  <b>Hugh Nguyen-Mallen</b> , Senior Engineer - Water Resources, SMEC	<b>Increasing permeability in the private realm: Dream or reality?</b>  <b>Dr. Vassiliki Boulomytis</b> , Senior Water Officer, City of Port Phillip	<b>The robots are taking over: MUSICX automation and optimisation to test harvesting targets across Melbourne</b>  <b>Neha Shetty</b> , IWM Consultant, Arup, <b>Maggie Xipolitos</b> , Senior Policy Officer, Department of Energy, Environment and Climate Action DEECA and

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				<b>Tom Wardley, Senior Data Scientist, Arup</b>
<b>3.05pm</b>	<b>5 Minute Room Change</b>			
<b>3.10pm</b>	<b>Strategic WSUD prioritisation map for the City of Melbourne</b>  <b>Celeste Morgan,</b> Australasia Integrated Water Management Lead, Arup, <b>Dr. Cintia Dotto,</b> Water Sensitive Cities Lead, City of Melbourne and <b>Penny Ball,</b> Water Sensitive Cities Lead, City of Melbourne	<b>Stormwater flow targets are here: What does this mean for our growing regions?</b>  <b>Birgit Jordan,</b> Senior Waterway Engineer and Stormwater Specialist, Streamology Pty Ltd and <b>Dr. Geoff Vietz,</b> Director Streamology Pty Ltd	<b>Navigating the confluence- a collaborative approach to flood modelling across diverse authorities</b>  <b>Andrew Allan,</b> Principal Engineer, Afflux Consulting and <b>Chris Beardshaw,</b> Principal Engineer, Afflux Consulting	<b>Redesigning streetscapes to irrigate the urban forest with stormwater</b>  <b>Dr. Chris Szota,</b> Lecturer, The University of Melbourne
<b>3.40pm</b>	<b>Afternoon Tea</b>			
<b>4.05pm</b>	<b>Move to Plenary Room</b>			
<b>Room</b>	Churchill and Flinders			
<b>4.10pm</b>	<b>Stormwater Victoria's VUDM Update</b> <b>Alice Lisitsa,</b> President, Stormwater Victoria			
<b>4.40pm</b>	<b>Best Presenter Award</b>			
<b>4.45pm</b>	<b>2024 Stormwater Victoria Awards Session</b> Presented by <b>Alice Lisitsa,</b> President, Stormwater Victoria			
<b>5.15pm</b>	<b>Day 1 Close</b>			
<b>6.15pm</b>	<b>Buses depart Silverwater Resort for Philip Island Winery</b>			
<b>6.45pm</b>	<b>2024 Stormwater Victoria Conference Dinner and Casino Night</b> Phillip Island Winery, 414 Berrys Beach Rd, Ventnor VIC 3922 Return transfers to Silverwater Resort between 10 and 11pm.			Dinner Sponsor 

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# CONFERENCE PROGRAM – WEDNESDAY, 5 JUNE 2024

Room	Bay View Room	
6.30am	<b>Early Morning Yoga Session (1 hour)</b> <i>Phillip Island Yoga</i>	
8.00am	<b>Conference Registration – Tea and Coffee on Arrival</b>	
Room	Churchill and Flinders	
9.00am	<b>Welcome to Day 2</b>	
9.05am	<b>Stormwater Victoria Update</b> <i>Alice Lisitsa, President, Stormwater Victoria</i>	
9.20am	<b>Gold Sponsor Address</b> <i>Caterina Paganelli, Senior Water Engineer, BG&amp;E</i>	
9.25am	<p><b>Keynote Presentation – Lessons learned from innovative data-driven storm water management solutions around the world</b> <i>Leanne Reichard, COO, Hydrologic, The Netherlands</i></p> <p><i>Chair: Celine Marchenay</i></p> <p>In the dynamic field of stormwater management, cutting-edge technologies offer new opportunities for tackling today's challenges and preparing for an uncertain future. Aligned with the theme of Advocacy, Adaptation, and Action at the 2024 Stormwater Victoria Conference, this presentation explores and showcases the transformative power of digital data-driven storm water management solutions like operational online decision support dashboards or extreme weather predictions and alerts. These innovations advocate for sustainability and enable real-time monitoring, predicting extreme rainfall patterns, and efficient risk mitigation. Collaborative efforts, driven by technology, empower us to take actionable steps for a resilient urban environment. This session delves into the synergy between data-driven technologies and our collective pursuit of advocacy, adaptation, and proactive action in stormwater management. Examples from different countries including Australia, the Netherlands and South Africa will be shared, providing valuable lessons learned through collaborative efforts and showcasing the transformative potential of technology in advancing stormwater management.</p>	
10.15am	<b>Morning Tea</b>	
10.40am	<b>Move to breakout rooms</b>	

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Stream	<b>Ain't No Stopping Us Now – Taking Action</b> <i>Chair: Heath Sommerville</i>	<b>Full Circle – Designing to Maintaining and Operating</b> <i>Chair: Alison Rickard</i>	<b>Imagine – Advocating for a Sustainable Future</b> <i>Chair: Alice Lisitsa</i>	<b>The Times They Are A Changin'- Adapting to Uncertain Times</b> <i>Chair: Julia Baumann</i>
Room	Churchill	Bay View Room	Flinders	Waratah & Coronet
Session Sponsor				
<b>10.45am</b>	<b>Reimagining Moonee Ponds Creek</b> <i>Alexandra Lee, Principal Landscape Architect Spiire, Thomas Cousland, Principal (Integrated Water Engineer), Spiire and Neil Featonby, Program Manager, Melbourne Water</i>	<b>Good WSUD maintenance can actually cost less over time! Hallelujah! A real life example</b> <i>Rob Catchlove, Director, Wave Consulting Australia</i>	<b>Smart design and control of stormwater storages: Quantified benefits of machine learning</b> <i>Dr. Jerry Liang, Water Resources Engineer, Kellogg Brown &amp; Root (KBR)</i>	<b>Stormwater to potable: A blended US/International perspective on stormwater recycling</b> <i>Andrew Salveson, Vice President, Carollo, John Rehring, Vice President, Carollo and Birgit Jordan, Senior Waterway Engineer and Stormwater Specialist, Streamology Pty Ltd</i>
<b>11.15am</b>	<b>5 Minute Room Change</b>			
<b>11.20am</b>	<b>Sizing a Solution: A rainwater tank ready reckoner for residential runoff reduction</b> <i>Mahimadharani Sivaji, Engineer, Engeny Australia, Vanessa Wong, Principal Engineer, Engeny Australia, and Glenn Ottrey, Principal Engineer, Engeny Australia</i>	<b>Myth busting bioretention!!</b> <i>Brad Dalrymple, Principal Environmental Engineer, Ocean Protect</i>	<b>Beaufort Linear Park – sparking new life into an old waterway</b> <i>Stephen Read, Senior Landscape Architect, Emerge Associates and Ray Davies, Manager Economic Development and Tourism, Pyreness Shire Council</i>	<b>Protecting and enhancing the headwater streams of Aitken Creek in Craigieburn West PSP</b> <i>Wira Yan, Water Resources Engineer, Jacobs and Katy Marriott, Environmental Specialist, Melbourne Water</i>
<b>11.50am</b>	<b>Lunch</b>			
<b>12.40pm</b>	<b>Move to breakout rooms</b>			

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	<b>Ain't no stopping us now – taking action</b> <i>Chair: Celine Marchenay</i>	<b>Full circle – designing to maintaining and operating</b> <i>Chair: Nausheen Obaid</i>	<b>Imagine – Advocating for a sustainable future</b> <i>Chair: Emily Plymin</i>	<b>Ain't no stopping us now – taking action</b> <i>Chair: Alan Davidson</i>
<b>Room</b>	<b>Churchill</b>	<b>Bay View Room</b>	<b>Waratah &amp; Coronet</b>	<b>Flinders</b>
<b>12.45pm</b>	<p><b>Melbourne Water's stormwater incentives program: a problem shared is an outcome achieved</b></p> <p><b>Dr. Briony Norton</b>, Stormwater Partnerships Coordinator, Melbourne Water and <b>Micah Pendergast</b>, Stormwater Incentives Coordinator, Melbourne Water</p>	<p><b>The Environment: Stormwater's largest customer?</b></p> <p><b>Priya Van Ryn</b>, Environmental Water Resource Planner, Melbourne Water and <b>Kira Woods</b>, Geomorphologist/Environmental Scientist, Streamology</p>	<p><b>Integrated water management at Aquarevo</b></p> <p><b>Ninad Dharmadhikari</b>, Product Development Manager (systems), South East Water</p>	<p><b>Catchment scale IWM plans: From planning to implementation</b></p> <p><b>Caroline Chandler</b>, Associate - Strategy and Planning, E2Designlab and <b>Stephanie Brown</b>, Senior Project Manager Integrated Water Management, DEECA</p>
<b>1.15pm</b>	<b>5 Minute Room Change</b>			
<b>1.20pm</b>	<p><b>Transforming urban design for resilience &amp; sustainability - Whittlesea's IWM guidelines</b></p> <p><b>Patrick Jeschke</b>, Integrated Water Management Specialist, City Of Whittlesea</p>	<p><b>Casey Council gross pollutant trap rectifications - lessons for ALL councils</b></p> <p><b>Murray Powell</b>, General Manager, Optimal Stormwater</p>	<p><b>Dhumbali W'urneet Gadhaba: a cross-cultural approach to integrated water management,</b></p> <p><b>Ross Allen</b>, Creative Director, Three Seeds Agency and <b>Ezekiel Dobelsky</b>, Integrated Water Management Officer, Glen Eira City Council</p>	<p><b>Protecting people and property in an uncertain and changing environment</b></p> <p><b>Priyanka Wickramasuriya</b>, Water Resource Engineer, Stantec and <b>Sasha Jelicic</b>, Practice Lead - Water Resource Design, Stantec</p>
<b>1.50pm</b>	<b>Afternoon Tea</b>			
<b>2.15pm</b>	<b>Move to Plenary</b>			
<b>2.20pm</b>	<p><b>Keynote Presentation – Resilient to what? How Futurism can help us make better long-term decisions and improve infrastructure resilience</b></p> <p><b>Simon Waller</b>, Futurist</p> <p><i>Chair: Emily Plymin</i></p> <p>The Stormwater sector is forever focused on the future. Infrastructure built today needs to remain relevant for decades to come, even though that future feels more uncertain than ever. Fortunately, futurism provides a set of mindsets, tools, and techniques to help us find better answers to complex and challenging questions.</p> <p>At our upcoming conference, we are joined by futurist Simon Waller, who will share how futurists view the future differently from most people. Simon will show us how, with a fresh set of eyes, we can start to see the signals and drivers that will shape our collective future and use them to create thought-provoking future forecasts. With these forecasts, we can then start to identify opportunities, uncover risks, and highlight new strategic options across the Stormwater sector.</p>			

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<b>3.10pm</b>	<p><b>Panel Session - “The future of stormwater management: How do we create action in the absence of a crisis?”</b></p> <p><b>Moderator: Simon Waller</b></p> <p><i>Panellists include:</i></p> <p><b>Kirsten Tanner</b>, Coordinator Emergency Management, Maribyrnong City Council</p> <p><b>Duncan Sheppard</b>, Senior Advisor, Resilience, Insurance Council of Australia</p> <p><b>Leanne Reichard</b>, COO, Hydrologic, The Netherlands</p> <p><b>Prof. Briony Rogers</b>, Professor/CEO Fire to Flourish/Director MSDI Water, Monash Sustainable Development Institute</p> <p>Why does it sometimes feel like we need a crisis to drive action? How can we break this cycle and build resilient communities before the crises occur? This panel session will explore the future of handling storms and floods, including how we bring communities on board for the journey.</p>
<b>4.20pm</b>	<p><b>Best Presenter Award</b></p> <p><b>Exhibitor Prize Draws</b></p>
<b>4.30pm</b>	<p><b>Conference Wrap Up</b></p> <p><b>Alice Lisitsa</b>, President, Stormwater Victoria</p>
<b>4.45pm</b>	<b>Conference Concludes</b>

## POST-CONFERENCE PROGRAM – THURSDAY, 6 JUNE 2024

<b>8.00am</b>	<b>Technical Tour Registration</b>
<b>8.30am</b>	<p><b>Technical Tour departs.</b></p> <p>The Stormwater Victoria Technical Tour will capitalise on the 2024 Conference’s location in San Remo. The technical tour will look at stormwater assets that specifically relate to the challenges of managing stormwater in a coastal environment. Participants will visit an experimental mangrove planting site run by the Westernport Seagrass Partnership with the goal of improving coastal management. Then, Bass Coast Shire Council will welcome participants to the Pioneer Bay Wetlands and Tenby Point Raingardens. These two assets utilise different methodology with the same goal—managing stormwater to provide community safety and water quality benefits. From Tenby Point, the tour will head south and east to Cape Patterson where the Cape development provides an example of how stormwater management can be integrated into a coastal development not as an after-thought, but as a fundamental component of the development.</p>
<b>5.00 pm</b>	<b>Technical Tour returns to venue and guests depart</b>

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