

# Conference Programme – DRAFT



MONDAY 20 SEPTEMBER 2010	
	Exhibitor Pack In – Day One

TUESDAY 21 SEPTEMBER 2010	
	Exhibitor Pack In – Day Two
17.30	Welcome Reception sponsored by AECOM <Exhibition Area>

WEDNESDAY 22 SEPTEMBER 2010									
	Registration <Pre Function Area>								
09.00	<b>Conference Opening &amp; Powhiri (Ngai tahu)</b> Bob Parker – His Worship the Mayor of Christchurch Martin Smith – President, Water New Zealand								
09.40	<b>Plenary Keynote:</b> Dr Stephen Goldson FRSNZ FNZIAHS. Strategy Advisor to the Office of the Prime Minister's Science Advisory Committee <b>Title:</b> <b>Chair: Martin Smith</b>								
10.30	Morning Tea <Expo Area>								
11.00	<b>THE POLICY DIMENSIONS</b> Chair: XXX Venue: James Hay Theatre	<b>WASTEWATER ADVANCES</b> Chair: XXX Venue: Meeting Rooms 6 & 7	<b>TECHNOLOGY &amp; TREATMENT – NEW INNOVATIONS</b> Chair: XXX Venue: Meeting Rooms 4 & 5	<b>OPERATIONS</b> Chair: XXX Venue: Conference Rooms	<b>MODELLING</b> Chair: XXX Venue: Cambridge Room	<b>ASTT</b> Chair: XXX Venue: Meeting Room 3	<b>SWANS</b> Chair: XXX Venue: Boaters Room	<b>SCIENCE/IWA</b> Chair: XXX Venue: Limes Room <i>Please note the session times for this Stream are 20 minutes in duration</i>	
	<b>David Perenara-O'Connell – Te Runanga o Ngai Tahu</b>	Smart Solutions – How Tahuna Township Discharges Their Wastewater Direct to a Local Creek <b>Niki Johnstone, Hynds Environmental</b>	Monitoring Microbial Community Development in a Newly-Commissioned AS WWTP <b>Haydee Allan, AWT New Zealand</b>	New Generation Low Energy MBR Systems – Implications for NZ Wastewater Design <b>Gerin James, Siemens Water</b>	<b>Keynote:</b> Assessing Climate Change Impacts in Urban Environments <b>Andrew Tait, NIWA Climate Change</b>	Surgical Precision: Microtunnelling in Suburbia <b>Ross Cailliau, Sinclair Knight Mertz</b>	Village-Scale Wetland Wastewater Treatment on the Coral Coast of Fiji – The Wai Votua Project <b>Chris C. Tanner NIWA</b>	<b>11.00</b> Size Distributed and Settling Properties of Activated Sludge Flocs are Mediated by Nutrient Conditions and Bioreactor Configuration	

11.30	<b>Kel Sanderson – MD, BERL Economics</b>	Improving the Effluent Discharge from Oxidation Ponds in New Zealand with Membrane Polishing <b>Sam Towndrow, Memcor Australia Pty Ltd</b>	Municipal Sludge Digester For Co-Digestion OF Primary Sludge and High Fat Industrial Waste <b>Jurgen Thiele, Waste Solutions, A Division Of CPG (NZ) Ltd</b>	The Water & Wastewater Knowledge Management System: Developed by Operators for Operators <b>Clara Laydon, Hunter Water Australia</b>	Potential Impact of Climate Change on NSCC's \$300M Wastewater Capital Works Programme <b>Nick Brown, North Shore City Council</b>	The Innovative Direct Pipe® Method – Case Histories <b>Rene Von Rautenkranz, Herrenknecht (Asia) Ltd</b>	Floating Wetland – A Different Way To Treat Your Wastewater <b>Stephen Finnemore, Harrison Grierson Consultants Limited</b>	<b>Clark Ehlers, The University of Auckland</b> 11.20 Key functional microbial groups of MBBR systems at Wellington's sewage treatment plants
12.00	<b>Brian Bell – Nimmo-Bell &amp; Co Ltd</b>	Use of Smart Technology Solution delivers Value for Water Infrastructure Group –Mangawhai Wastewater Project <b>Bart Post, McKay</b>	Membrane Treatment of High Turbidity Water – Pilot Studies on New Zealand River  Water   <b>Tony Foskett, Pall Corporation</b>	The use of Acoustic Doppler Profiling in wastewater networks <b>Peter Stephens, AWT New Zealand Limited</b>	Guidelines for Rainfall Analysis as Utilised for the Dunedin Three Waters Strategy <b>Mark Megaughin, URS</b>	Directional Drilling With Fusible PVC Pipe – The Birkdale B Project <b>Iain McNaught, Iplex Pipelines (NZ) Ltd</b>	Pure by Plants Botanical Wastewater Treatment Systems <b>Uli Rambeck</b>	<b>Kristi Biswas, The University of Auckland</b> 11.40 Health Impact Assessment of Rainwater Tanks <b>Stan Abbott, Massey University</b> 12.00 The 'dark side' of virus removal by Waste Stabilisation Ponds <b>Louise Weaver, ESR</b>
12.30	<b>Lunch &lt;Expo Area&gt;</b>							
13.00	<b>Poster Presentations (sponsored)</b>							
14.00	<b>Tom Lambie Environment Canterbury Commissioner</b>	<b>Water Advances</b> Matamata WTP Upgrade – Producing Water Fit For Hobbits <b>Jason Colton, H2ope</b>	<b>Irrigation Matters</b> Update on proposed regulations for the measurement and reporting of water takes <b>Jason Holland, Ministry for the Environment</b>	A simple, pragmatic approach to preventive maintenance of pump stations <b>Graeme Wells, CH2M Beca Ltd</b>	<b>MODELLING AGM</b>	Remuera Branch 1&2 Sewer rehabilitation 2009 <b>Maurice Lubbock, AECOM</b>	Time is of the Essence to a Coliform Reduced Presence <b>Bridget O'Dempsey, CH2M Beca Ltd</b>	<b>14.00</b> Advanced Multi-Purpose Pond Technologies <b>Tim Fuhrmann, Institute of Environmental Engineering and Management at the University of Witten/Herdecke (IEEM)</b> 14.20 Enhancing algal dominance and harvestability from a wastewater treatment high rate algal pond
14.30	<b>Stephen Franks – Principal Franks &amp; Ogilvie</b>	Design, Validation and Costing of UF and MF Membranes for Recycled Water <b>Scott Caothien, Pall Water Processing</b>	On-Farm Irrigation Efficiencies – Are They What We Believe and What are the Implications Beyond the Farm Gate? <b>Victor Mthamo, CPG New Zealand Ltd</b>	Variable Speed Drives, dv/dt and motor failures, why is this now becoming an issue? <b>Mark Duncan Drive Dynamics Ltd</b>	An Optimisation Framework for Planning the Gold Coast Potable Water Distribution System <b>Paul Smith, Optimatics</b>	Condition Assessment and Rehabilitation/Renewal of Wastewater Rising Mains <b>Phillip McFarlane ProjectMax Ltd</b>	Keeping Waters Apart – New Separation Distance Guidelines for Septic Tanks and Bores <b>C Nokes, Institute of Environmental Science and Research Ltd</b>	

<b>15.00</b>	<b>John Bright – Aqualinc Research</b>	Electrochemical Oxidation of Iron and Manganese in Groundwater <b>Hilary Nath, University Of Waikato</b>	Aquifer Capacity Studies – Protection or Prevention <b>Mandy Mills, Becca</b>	The Fernhill Rising Main Bursts – What Went Wrong & What Was Done About it? <b>Uwe Kaeding, United Water International</b>	What Really is Stormwater Neutrality? <b>René van Lierop, Aurecon</b>	A Collaborative Approach to a Sewer Rehabilitation Project <b>Iain McNaught, Iplex</b>	Effects of Composting Processes on Microbial Indicators <b>Geeta Hariharaputra, Watercare Services Ltd</b>	<b>Jason Park, NIWA 14.40</b> Colour formation in pulp and paper wastewater treatment systems <b>Alison Slade, Garrick Thorn and Marie Dennis, Scion 15.00</b> Point-source impact methodology - a new way to look at the effects of discharges on receiving environments. <b>Maree Clark, Horizons Regional Council</b>
<b>15.30 Afternoon Tea &lt;Expo Area&gt;</b>								
<b>16.00</b>	<b>THE POLICY DIMENSIONS</b> Chair: XXX <i>Venue: James Hay Theatre</i>	<b>WATER MANAGEMENT</b> Chair: XXX <i>Venue: Meeting Rooms 6 &amp; 7</i>	<b>ASPECTS OF PLANNING</b> Chair: XXX <i>Venue:</i>	<b>OPERATIONS</b> Chair: XXX <i>Venue:</i>	<b>MODELLING</b> Chair: XXX <i>Venue:</i>	<b>ASTT</b> Chair XXX <i>Venue:</i>	<b>SWANS</b> Chair: XXX <i>Venue:</i>	<b>SCIENCE/IWA</b> Chair: XXX <i>Venue:</i> <i>Please note the session times for this Stream are 20 minutes in duration</i>
	Water Metering - The Tauranga Journey <b>John Sternberg, Tauranga City Council</b>	Managed Aquifer Recharge: Sustainable water resource management on the Canterbury Plains <b>Jon Williamson, Sinclair Knight Merz</b>	Lake Benmore Water Quality: a modelling method to assist with setting limits for sustainable irrigation development <b>Ned Norton, NIWA</b>	Shared services <b>Andrew van Bussel</b>	Real Time Control – Informing Political Decision Making <b>Tim Lockie, Hydraulic Analysis Ltd</b>	North Shore City’s Infiltration /Inflow Programme using Trenchless Technology <b>Kumar Wisumperuma, North Shore City Council</b>	The South Australian approach to rural township Community Wastewater Management <b>Martin Loipersberger, HDS Australia Pty Ltd</b>	<b>16.00</b> Wet Oxidation of municipal bio-solids in New Zealand. An overview <b>Anderson Aggrey, Daniel Gapes, Kim McGrouther, Robert Lei, Scion</b>
<b>16.30</b>	Rationalising the tender process <b>Petja Albrecht, Sinclair Knight Mertz</b>	Natural Water Treatment For DWS Compliance and Water Quality Improvement – Groundwater Source Engineering Investigations for TWO NZ Aquifers <b>Zeb Etheridge, URS</b>	Using Knowledge-Based Decision Making Tools to Cost Effectively Manage Risks To the Palmerston North City Water Supply From the Proposed Turitea Wind Farm <b>Shane Allen, GHD</b>	Same goal, different approach: a comparison between the DVGW & USEPA drinking water regulations <b>Steve Warne, Davey Water Products</b>	Limitations of Inflow Computations from Pump Station Data – A Monitoring /Modelling Approach <b>Matthew Cooper, AWT</b>	Trenchless technology: there’s a light at the end of the tunnel! <b>Dietmar Londer, Sinclair Knight Merz</b>	A Successful Solution for the Discharge of Construction Dewatering Water at the University of Canterbury <b>Hilary Lough, Pattie Delamore Partners Limited</b>	<b>16.20</b> Gasification and production of biochar from wastewater grown algae <b>Rupert Craggs, NIWA 16.40</b> The use of first order

			<b>Ltd</b>					kinetics and its suitability for predicting the performance of a full-scale anaerobic digester from batch-scale laboratory studies <b>Nastaein Qamaruz-Zaman, University Of Canterbury</b>
<b>17.30</b>	<b>Water New Zealand AGM &lt;Venue&gt;</b>							
<b>19.00</b>	<b>Modelling Dinner sponsored by &lt;Company Name&gt; &lt;Venue&gt;</b>							
<b>19.30</b>	<b>Operations Dinner sponsored by Applied Instruments Group &lt;Venue&gt;</b>							

<b>THURSDAY 23 SEPTEMBER 2010</b>								
	<b>Registration Opens &lt;Venue&gt;</b>							
<b>09.00</b>	<b>Plenary Keynote:</b> Kerry McDonald, President Institute of Directors, Chairman Opus International Consultants Ltd, director Leighton Contractors Pty Ltd, Board member WWF New Zealand, deputy Chairman NZ Institute of Economic Research <b>Title:</b> <b>Guest Speaker:</b> <b>Chair:</b>							
<b>10.00</b>	<b>Morning Tea &lt;Venue&gt;</b>							
<b>10.30</b>	<b>Keynote</b> Presentation: Joe Flynn – CEO Water Industry Alliance VENUE: JAMES HAY THEATRE				<b>MODELLING</b> Chair: XXX	<b>ASTT</b> Chair: XXX	<b>SCIENCE/IWA</b> Chair: XXX	
					Paper title <b>RIVERS GROUP TBC – Invited Paper</b> <b>Speaker</b>	Using Trenchless Technology to Seal Private Lateral Connection to Mainline (Lateral Junction Repairs) <b>Dinesh Satija, Project Max Ltd</b>		
	<b>PANEL DISCUSSION</b> Chair:	<b>BIOSOLIDS</b>	<b>ASSET MANAGEMENT</b> Chair: XXX	<b>OPERATIONS</b> Chair: XXX				
<b>11.00</b>	<b>Raveen Jaduram, Manukau Water Limited</b> <b>+ Hugh Cannard Whitewater NZ</b>	The Western Bay Way, Beneficial Biosolids Use <b>Gareth Hall, CPG New Zealand Ltd</b>	Merging Asset Management Practice with Clever Engineering for Programming Wastewater Pump Station	Leveraging maintenance to minimize operational risks & costs <b>Barry Kleine, ABB Limited</b>	Modelling Effects of Proposed Masterton Land Base Effluent Disposal Scheme on Receiving Environment, Masterton,	The Christchurch Ocean Outfall – From Design to Commissioning <b>Ron Fleming, URS New Zealand Ltd</b>		

	<b>+Brendon Burns Labour spokesperson on water</b>		Upgrades in the Garden City <b>Laura Chisholm, GHD</b>		New Zealand <b>Parviz Namjou, Pattle Delamore Partners</b>		
<b>11.30</b>	<b>+ Dean Stebbing Tuwharetoa Maori Trust Board + Hugh Ritchie, Hawkes Bay farmer and irrigator</b>	Control and Optimisation of a High Strength Nitrogen Industrial Wastewater BNR Plant <b>Daryl Irvine, Pattle Delamore Partners Ltd</b>	Creating Greater Project Value Through Constructability <b>Robert Wotherspoon, Downer NZ</b>	Backflow Issues <b>Diane Stavely</b>	Issue Focussed Modelling for Dunedin <b>McLean and Mark Groves</b>	Hutt Valley Outfall Pipe Repair <b>Steve Hutchison, MWH New Zealand Ltd</b>	
<b>12.00</b>	<b>Lunch &lt;Venue&gt;</b>						
<b>13.30</b>	<b>WATER QUALITY</b> Chair: XXX	<b>SMART SOLUTIONS</b> Chair: XXX	<b>IMPROVING MANAGEMENT</b> Chair: XXX	<b>OPERATIONS</b> Chair: XXX	<b>MODELLING</b> Chair: XXX	<b>ASTT</b> Chair: XXX	<b>SCIENCE/IWA</b> Chair: XXX <i>Please note the session times for this Stream are 20 minutes in duration</i>
	Obstacles and Difficulties in Implementing Water and Sanitation Aid Projects <b>Nicky Brown, Harrison Grierson Consultants Ltd</b>	Water recycling plant Design Construct and DHS/EPA Approvals in 16 weeks. <b>Michael Gelman, Tenix</b>	Managing Risk to Drinking Water – a Fresh Perspective on Backflow Prevention <b>Brendon Harkness, Waitakere City Council</b>	<b>Annie Yeats, Water Industry Training</b>	Eyes Wide Open – Managing the Resolution of Field Anomalies during Calibration of Water Supply Models <b>Stephen Grace, Metrowater</b>	Managing Underground Services in a Trenchless project <b>Blair Telfer, Project Max</b>	<b>13.30</b> World-First Wastewater Algal Bio-crude Oil Demonstration <b>Rupert Craggs, Niwa 13.50</b>
<b>14.00</b>	Innovative Australian Urban Water Solutions for New Zealand <b>Sean Barnes, Aurecon</b>	De-silting the Helensville Raw Water Dam <b>Phillipa Chase, Downer EDi Works</b>	Value and price: a transdisciplinary approach to ecologically sustainable urban water management <b>Karen Creagh, University of Auckland</b>	Lessons learnt during 20 years with water & wastewater plant electrical & automation control. Where to now? <b>Steve Brewster, Waste Solutions, Div Of CPG NZ Ltd</b>	Integrated Catchment Management Planning – Dealing with Uncertainties to Achieve an Optimal Result <b>Fiona Macdonald, AECOM</b>	Investigations for Horizontal Directional Drilling ( HDD) – Three South East Queensland Case Studies <b>Ian Cameron, Parsons Brinckerhoff Australia Pty Ltd</b>	Anaerobic biodegradability of wood: a preliminary review <b>Mark Milke, Dept. Civil &amp; Nat. Res. Eng./Univ. Canterbury</b>
<b>14.30</b>	A Tale of Two Regions - Concurrent Structural Re- organisation Within the Water Service Industries of Auckland, New Zealand and SE Queensland, Australia <b>Simon Taylor, GHD Pty Ltd</b>	Challenges of Upgrading Small Town Water Supplies - The Reefton Experience <b>Logan Thomson, Aurecon NZ Ltd</b>	The Journey to Sustainable Infrastructure <b>Laura McElhone, Dunedin City Council</b>	Options for Remote Data Acquisition & System Control <b>Steve Brewster, Waste Solutions, Div Of CPG NZ Ltd</b>	<b>Modelling Forum</b>	Recognition of specialist skills for Horizontal Directional Drilling <b>Andrew Taylor, InfraTrain New Zealand</b>	<b>14.10</b> Integrated environmental, social, cultural and economic research to address uncertainties of land application of biosolids in New Zealand <b>Lisa Langer, Scion 14.30</b> Flow Solution Robustness in High Speed Model Computation <b>Alastair Barnett</b>

<b>15.00</b>	<b>Afternoon Tea &lt;Venue&gt;</b>						
<b>15.30</b>	<b>NEW APPROACHES</b> Chair: XXX	<b>SMART SOLUTIONS (CONTD)</b> Chair: XXX	<b>MANAGING THE SMELL</b> Chair: XXX	<b>CONFERENCE SITE VISITS</b> Buses depart 3.30pm	<b>MODELLING</b> Chair: XXX	<b>ASTT</b> Chair: XXX	<b>SCIENCE/IWA</b> Chair: XXX <i>Please note the session times for this Stream are 20 minutes in duration</i>
	NZ standard rain garden economically sustainable? <b>Tonia Gnoerich, URS</b>	Success with Low Pressure Sewerage Scheme <b>Humphrey Archer, CH2M Beca Ltd</b>	Integrated Odour Management <b>Graeme Salmon, GHD</b>	<b>Site Visits</b> Wastewater Algae Bio-Crude Oil Project at the Christchurch WWTP (Waste Water treatment Plant)	Web Based Hydraulic Modelling <b>Thomas Joseph, AWT</b>	Watermains break Analysis and pipe replacement strategy <b>Faraz Farzinbeh, Manukau Water</b>	<b>15.30</b> A Source to Sea Methodology for a Coastal Discharge <b>Benjamin Knight, Cawthron Institute</b> <b>15.50</b> Optimising the Artificial Aeration of Auckland's Lakes <b>Chris Watson, Watercare Services Ltd</b> <b>16.10</b> Flow cytometric methods for assessing water quality in highly eutrophic lake treated with modified zeolite <b>Marie Dennis, David Hamilton, Susie Wood</b> <b>16.30</b> Use of Floating Wetlands to Treat Nutrient Enriched Lake Water <b>James Sukias, NIWA</b>
<b>16.00</b>	Reducing Inflow & Infiltration Takes Community Commitment and a Supportive Council - Lessons Learned in Hutt City <b>Yon Cheong, Capacity Infrastructure Services Limited</b>	Sunbury Odour Monitoring <b>Michael Tan, AWT</b>	Wastewater Pump Station Odour Control <b>Ken Holyoake, TBA</b>	<b>Site Visits</b> Oasis Clearwater Environmental Systems - Izone Industrial Park and visit to a field installation	Is Modelling the Cornerstone of a Wastewater Planning Study? <b>Rob Tinholt, Watercare Services Ltd</b>	The use of GRP pipe in water and waste water systems. <b>Douglas Ashby, Maskell Productions Ltd</b>	
<b>16.30</b>	Where did that aberrant E. coli result come from? <b>Andrew Ball, Institute Of Environmental Science And Research Ltd</b>	Huapai Public Wastewater Network Renewal <b>Graeme Salmon, GHD Limited</b>	An Integrated Approach to Odour Control <b>Robin Johnson, Water Infrastructure Group</b>		Tauranga City Council Water Meter Renewal Modelling <b>Ben Davies, MWH New Zealand Ltd</b>	Managing a key resource using advanced water asset management <b>Anna Robak, Opus</b>	
<b>19.30</b>	<b>Conference Dinner Sponsored by BNZ and Water New Zealand Awards Presentation &lt;Deans Lounge – AMI Stadium&gt;</b>						

## FRIDAY 24 SEPTEMBER 2010

	<b>Registration Opens &lt;Venue&gt;</b>					
<b>09.00</b>	<b>TRAINING ISSUES</b> Chair: XXX	<b>INNOVATIVE TECHNIQUES</b> Chair: XXX	<b>THINKING DIFFERENTLY</b> Chair: XXX	<b>OPERATIONS</b> Chair: XXX	<b>MODELLING</b> Chair: XXX	<b>ASTT</b> Chair: XXX
	The Waterways Centre for Freshwater Management. <b>Jennifer Webster-Brown</b>	Flat Sheet Membrane Bioreactor Operational Experiences – A New Zealand Perspective	Recycled Water – The Fourth Water Utility <b>Louise Jones, MWH New</b>		Large scale sewer obstruction – real life story and the implications explored <b>Timothy Preston, GHD</b>	Climate change, water supplies and health: integrating technical and social Sciences

		<b>Jason Ewert</b>	<b>Zealand Ltd</b>			<b>Miria Lange, Environmental Science And Research Ltd</b>
<b>09.30</b>	<b>Stephen McNally – Board member Irrigation NZ</b>	Cost Effective Technologies for Treating Intermittent Wet Weather Wastewater Overflows <b>Clinton Cantrell, AECOM</b>	Infrastructure1 - Driving Performance & Value <b>Murray Noone, Rodney District Council</b>		Optimisation and Multi-Criteria Analysis for Pipe Network Interconnectivity Planning <b>Paul Smith, Optimatics</b>	Maketu/Little Waihi Wastewater Scheme affordability versus sustainability <b>Kelvin Hill, Western Bay Of Plenty District Council</b>
<b>10.00</b>	<b>Morning Tea &lt;Venue&gt;</b>					
<b>10.30</b>	<b>EFFICIENT USE</b> Chair: XXX	<b>INNOVATIVE TECHNIQUES (contd)</b> Chair: XXX	<b>THINKING DIFFERENTLY (contd)</b> Chair: XXX	<b>OPERATIONS</b> Chair: XXX	<b>MODELLING</b> Chair: XXX	<b>ASTT</b> Chair: XXX
	Increasing Safe Behaviours at City Care – a water and wastewater contractor's experience in targetting positive behavioural change to achieve results <b>Tim Gibson, City Care</b>	Development of a Sustainable Land Treatment System For Erosion Prone Slopes <b>Sharn Hainsworth, CPG New Zealand Ltd</b>	Sustainable Water Production using Biological Water Treatment Processes <b>Thomas McNally, Opus International Consultants</b>		Watercare's Central Interceptor Programme – Improving Wastewater Model Accuracy by Accounting for Seasonal Variation Effects <b>Fiona Macdonald, AECOM</b>	The Australian and New Zealand Biosolids Partnership: Creating New Frameworks for Biosolids Management <b>Andrew Speers, Australian Water Association</b>
<b>11.00</b>	Living Water Smart in British Columbia <b>Donna Caddie, Water Stewardship Division, Govt Of BC</b>	Drivers for Successful Wastewater to Energy projects <b>Nathan Clarke, CPG NZ Ltd</b>	A Living Process - Integrated and adaptive bulk water reconciliation planning <b>Erik Van Der Berg, AUERCON</b>		Comparing Investments Decisions using Different System Performance Assesment Methods for Wastewater Networks <b>Brian Robinson, Aurecon New Zealand Limited</b>	Biosolids Drying at Christchurch Wastewater Treatment Plant - A Sustainable Solution <b>Greg Offer, CH2M Beca</b>
<b>11.30</b>	Oakura Sewerage Scheme – Social Challenges – Getting the Locals on Side <b>Mark Hall, New Plymouth District Council</b>	Real Water Footprints: the importance of Depth in Volumes <b>Alec Tang</b>	Water our key strategic advantage <b>Greg Milner-White</b>		Cost Optimal Wastewater System Improvements – 2009/2010 North Shore City Wastewater Optimisation Project <b>Joel Wilson, Optimatics</b>	Making the Most of our Biosolids <b>Ian Ho, Harrison Grierson Consultants Limited</b>
<b>12.30</b>	<b>Hynd's Lunch – Paper of the Year Awards &lt;Venue&gt;</b>					
<b>14.00</b>	<b>Conference Closes</b>					