

Sunday, November 2

Time						
To be Announced	Exhibitor Set up					
To be Announced	Conference Registration					
7:00 pm	Welcome Reception					

Monday, November 3

To be added	Conference Registration and Breakfast					
8:30 am – 10:00 am	Opening Plenary					
10:00 am	Refreshment Break					

	Colwood	Sidney	Lecture Hall	Esquimat	Oak Bay 1 and 2	Saanich 1 and 2
10:30 am – 12:00 pm	A1: Water Efficiency - Managing Water Loss Moderator : Hiran Sandanayake, City of Ottawa	A2: Biosolids (1) Moderator: Paul Purser, Nutri-Pel (Veolia)	A3: Drinking Water Treatment (1) Moderator : Karim Abouzeid, Magnor	A4: Infrastructure Failures and Emergency Response (1) Moderator : Trina Manning, EPCOR Water Services Inc.	A5: Emerging Contaminants in Water/Wastewater Streams Moderator : Dean Iamarino, Regional Municipality of Halton	A6: Drinking Water Safety and Utility Management – Lessons for Canadian Water Utilities 25 Years After Walkerton Moderator: Laith Furatian, City of Abbotsford
	Montreal's potable water network optimization project Jean Lamarre and Sébastien Lacasse, Ville de Montréal	Resource Recovery as Part of Integrated Wastewater Treatment and Solids Management Dr. Don Mavinic and Laurie Fretz, Boost Environmental Systems Inc.	Enhancing Resiliency of WTPs with Biological Treatment of Drinking Water: Introduction to AWWA MOP M80 Hayat Raza, Continental Carbon Group	Looking back at Calgary's 1950mm (78") PCCP Feeder Main Failure Justin Hebner, Pure Technologies Ltd., a Xylem brand	Examining the Persistence of Two Common Antibiotics in Drinking Water Systems: A Controlled Laboratory Study Yves Fillion Queen's University	Introduction Laith Furatian , City of Abbotsford Management Systems and Water Utilities Andrew Henry, Lake Huron and Elgin Area Water Supply Systems
	Hide and Leak: Finding Hidden Leaks	A Resource Recovery Prioritisation Tool for	Converting Aqua Ammonia to Liquid	From Basement Flooding to	Examining the Persistence of Two	

	with a Special Tool – the Water Meter. Joshua Adair and Oleks Rudkovskyi, Kamstrup Water Metering	The UK and Irish Water Industry Peter Talboys and Stephen Riches, AtkinsRéalis	Ammonium Sulphate in EPCOR's Rosedale Water Treatment Plant Amanda Bilotta, Associated Engineering and Jonathan Schoepp, EPCOR Water Services	Developing Wastewater Infrastructure Solutions to Meet Future Needs in Downtown City of Toronto Christine Hill, Arcadis	Comparison of the removal of over 400 contaminants of emerging concern in a wide diversity of WRRF technologies – a comprehensive experimental study Coline Milhau and Peter Vanrolleghem, modelEAU - Université Laval	Ontario's Quality Management Experience Michèle Grenier, Ontario Water Works Association (OWWA) Voluntary Adoption of Quality Management Inder Singh, Metro Vancouver and Jeff Charrois, Metro Vancouver
	Eyes on the Prize. City of Hot Springs Takes a Platform Approach to Solve their NRW Losses Michele Samuels, Xylem Vue Canada, Xylem	Improving Biomethane Potential of Various Organic Wastes Using A Low Temperature Thermal Chemical Hydrolysis Process Ajay Singh, Lystek International Corp.	How Continuous Ultra Filtration and SiC Membranes Provide Environmental Advantages Brian Butters, Purifics Water Inc.	Tool for determining the need for a boil water advisory following work on the aqueduct Jean Lamarre and Michel Périard, Ville de Montréal	Nanoparticles in Water Systems: Emerging Contaminants and Advanced Tracers for Flow Path Characterization Felix Nyarko, University of Guelph	Panel Discussion
12:00 – 1:30	Networking Lunch					
	Colwood	Sidney	Lecture Hall	Esquimat	Oak Bay 1 and 2	Saanich 1 and 2
1:30 – 3:00	B1: Water Efficiency Programs Moderator : Kirk Stinchcombe, Econics	B2: Biosolids (2) Moderator: Paul Purser, Nutri-Pel (Veolia)	B3: Regulations and Standards Moderator : Mike Abbott, CBCL	B4: Infrastructure Failures and Emergency Response (2) Moderator : Indra Maharjan, Arcadis	B5: Climate Change (1) Moderator : Dean Iamarino, Regional Municipality of Halton	B6: Foresight and AquaAction – research, utility and private sector partnerships
	Does One Size Fit All? Examining Watering Regulations in the City of Vancouver Neal Klassen, City of Vancouver	Advances in Hydrothermal Treatment of Wastewater Sludges Stephen Riches, Atkinsrealis	The amended Wastewater Systems Effluent Regulations – How things are going Karissa Aubie, Environment and Climate Change Canada	Implementing Emergency RO Treatment at the Brantford WTP Michael McKie, CIMA	Enhancing Resilience through One Water System Risk Management Aline Bennett, WSP Global Inc. and Colwyn Sunderland, Kerr Wood Leidal and Harshan	Anne-Pascale Richardson, AquaAction Kariann Aarup, AquaAction Nina Bader, Foresight

					Radhakrishnan, Engineers and Geoscientists BC	
	Value of Water - Feasibility of reusing reclaimed water from WWTPs and depressurization wells Oya Koc, Hatch	Influence of digestion and thermal hydrolysis on pyrolysis of municipal sewage sludge Bill Barber, Cambi Inc	New Sector-Specific Management Standard for Wastewater Edgar Tovilla, City of Markham	"Never Let a Good Crisis Go to Waste": How a Sanitary Sewer Failure Helped Shape Kitchener's Water Infrastructure Program. Bu Lam, City of Kitchener	Planning and managing for risks in the face of future uncertainty Alicia Fraser, Capital Regional District (CRD) Meghan Ewing, Canadian Water Network	
	Water Supply and Conservation in Victoria: The Capital Regional District's new Water Conservation Plan Colwyn Sunderland, Kerr Wood Leidal and Kirk Stinchcombe, Econics and Kristi Wilson, Capital Regional District	Odour Control Technology to treat 'all' foul air pollutants in municipal wastewater and biosolids rather than select odours. Dominic Jansenn, NeutraTek Odour Solutions	Standardize the term "flushable" for safer sewer systems! Barry Orr, Capital Regional District	Emergency management of water infrastructure in Montreal Jean Lamarre, Ville de Montréal	Water Management Standards to Support Climate Change Adaptation and Resiliency Jessica Akande, Standards Council of Canada	
3:00 – 3:30	Refreshment Break					
	Colwood	Sidney	Lecture Hall	Esquimat	Oak Bay 1 and 2	Saanich 1 and 2
3:30 – 5:00	C1: Water Efficiency - Getting, Interpreting and Using Water Data Moderator: Laurent Laroche, Ville de Montréal	C2: Stormwater Management (1) Moderator : Bu Lam, City of Kitchener	C3: Underground Infrastructure (1) Moderator : Mike Gray, Saint John Water	C4: Risk Management Moderator : Ehsan Roshani, NRC	C5: Climate Change (2) Moderator : Hiran Sandanayake, City of Ottawa	C6: AssetAdapt+ Cohort: Integrating Adaptation + Sustainability for Capital Project Funding Success!
	Continuous and Proactive Water Loss Management	Harrington Mews Sinkhole Response and Recovery	From Risk to Reliability: Proactive Condition Assessment and	Volatility is the Name of the Game: Ensuring Chemical	From Data to Decision-Making: The Role of CCCS in	Lourette Swanepoel Canadian Society for Civil Engineering

	Ashwin Mohan, Hetek Solutions Inc.	Kevin Syrnick, City of Regina	Prioritized Repairs for Crofton Mill's Critical Water Supply Pipeline Javed Mukri, Pure Technologies Ltd., a Xylem brand and Aiden Weckesser, Engineer, Catalyst Paper Mill	Supply Continuity in Times of Uncertainty Sarah Wilson, City of Toronto	Disseminating Flood Hazard Information Dhouha Ouali, Environment and Climate Change Canada	This session will offer an introduction to the PIEVC protocol and the Envision framework, and will reflect on the work of the AssetAdapt+ Water / Wastewater Cohort* – demonstrating key considerations for enhancing capital project value to the community and increasing alignment capital funding expectations such as GMF.
	Towards a National Approach to Water Use Accounting Colwyn Sunderland, Kerr Wood Leidal and Kirk Stinchcombe, Econics	"Extra Eyes" Help Manage Sewer Overflows at the City of Buffalo Michele Samuels, Xylem Vue Canada, Xylem	Striking a Balance in the North: How Edmonton Gets the Most from Its Water Transmission Main Condition Assessment Program Justin Hebner, r, Pure Technologies Ltd., a Xylem brand	Enhancing Resilience in Water Treatment: Risk Management Strategy for the Next Decade Nicole McLellan, Stantec Consulting	Lessons Learned from Recovery of a Drinking Water System after the 2021 Atmospheric River Event in Merritt BC Marta Green, Associated Environmental	
	The City of Regina's Journey to Advanced Metering Infrastructure Angela Zapp, Neptune Technology Group, Bradley Stevens and David, City of Regina	From Risk to Resilience: A Five-Year Review of EPCOR's Stormwater Strategy Nicola Lewin, EPCOR Water Services Inc.	Updating Design Criteria: Data Mining and Statistical Analysis to Right-Size Infrastructure Bradley Jenks and Fabian Papa, Hydratek & Associates	Mitigating Risk to your Water and Wastewater Utility with ISO/IEC 17025:2017 Standard – Has 25 years after Walkerton made a Difference? Jennifer Blaney, CRD and Klas Ohman, Associated Engineering	Predicting Climate Change Impacts to Chlorine Longevity in a Drinking Water Distribution System Laura Meteer, Queen's University	
	Power Hour					
	CWWA Annual General Meeting					
	Night on the Town					

Tuesday, November 4						
To be added	Conference Registration and Breakfast					
	Colwood	Sidney	Lecture Hall	Esquimat	Oak Bay 1 and 2	Saanich 1 and 2

8:30 – 10:00	D1: AI and Digital Solutions (1) Moderator: Zane Spencer, MPE a division of Englobe	D2: Stormwater Management (2) Moderator : Laurent Laroche, Ville de Montréal	D3: Energy Efficiency (1) Moderator : Karim Abouzeid, Magnor	D4: Planning for Large Projects Moderator : Paul Purser, Nutri-Pel (Veolia)	D5: Climate Change: Greenhouse Gas Reduction Moderator :Dean Iamarino, Regional Municipality of Halton	D6: Building Value: Financially Sustainable Water Solutions for Canadian Utilities
	Prioritizing Water Infrastructure with Artificial Intelligence Laurie Rennich, Itron Canada, Inc.	City of Vancouver's Combined Sewer Overflow Management Plan & Pathways to Healthy Waters Brent Robinson, Brown and Caldwell , Chris Baber, City of Vancouver and Sara Pour, KWL		Ruthven WTP Capital Upgrade Program – Using a Collaborative Project Delivery to Address Upgrade Needs Rodney Bouchard, Union Water Supply System Inc. and Shawn Yu, Alberici Constructors Ltd. and Vincent Laplante, Associated Engineering	Climate Insight: Actionable Data for Low-carbon, Resilient Community Water and Wastewater Infrastructure Ewa Jackson and Joshua Kelly, ICLEI Canada	
	Decision Support via Machine Learning: An Efficient Way for Utilities to Do More with the Resources at Hand David Booth and Stan Fong, Digital Water Solutions Inc.	Beyond Wet Weather Flow Relief: Deep Trunks and Diversions in the Region of Peel Graeme Henderson, Hatch Ltd.	Online Pump Efficiency - Yes You Can Adam Plumstead, Eramosa, A CIMA+ Company	From Planning to Implementation: Building Support for the CRD's Multi-Generational Water Infrastructure Program Jude D Grounds, Carollo Engineers and Joseph Marr, CRD	Overall greenhouse gas emission reductions in infrastructure intensification of water resource recovery facilities Peter Vanrolleghem, modelEAU - Université Laval	
	Bringing Data Together to Effectively Obtain a Holistic View of the Water System Rodney Bouchard, Union Water Supply System Inc. and Tim Sutherns, Digital Solutions, Eramosa	Wet Weather Flow Reduction Success Utilizing a Public-Private Partnership Framework <i>(virtual presentation)</i> Matt Malone, Civica Infrastructure Inc.	Tapping the Hidden Grid: Wastewater Energy Transfer for Urban Heating, Cooling, and Domestic Hot Water Michael Albertson, SHARC Energy	CWD Reservoir Replacement Project Joel McAllister, Onsite Engineering Ltd.	Analyzing Existing System GHG Emissions Impacts to Support Master Planning Projects Emily Snoei, CIMA+	

	Engineering Inc., a CIMA+ Company					
10:00 – 10:30	Refreshment Break					
	Colwood	Sidney	Lecture Hall	Esquimat	Oak Bay 1 and 2	Saanich 1 and 2
10:30 – 12:00 pm	E1: AI and Digital Solutions (2) Moderator: Zane Spencer, MPE a division of Englobe	E2: Wastewater Disinfection Moderator: Laurent Laroche, Ville de Montréal	E3: Energy Efficiency (2) Moderator : Karim Abouzeid, Magnor	E4: New Approaches in Planning (1) Moderator : Bu Lam, City of Kitchener	E5: Charting the Course to Net Zero Water in Canada – Canadian Water Network	E6: Natural Infrastructure Moderator: Amy Winchester, CBCL
	Addressing Ontario's Directive to Accelerate New Housing and Using the p-CAT Suite of Tools for Pipe Condition Assessments within Growth Designated Municipalities Harrison Richarz, GREENLAND Consulting Engineers and Mark Palmer, Greenland Consulting Engineers	Comparing Disinfection Efficacy in Real Versus Pristine Laboratory Microplastics Rasha Maal-Bared, CDM Smith	EPCOR Water Services Map to Net Zero Qing Zhang, Epcor Water Services	Leveraging Asset Management Concepts and Innovative Technologies for Sustainable Infrastructure Rehabilitation and Construction in the Region of Peel Terry Martins, TCI Carbon Fibre	Dana Mears and Stephanie Andrade, Canadian Water Network.	Presentations and panel discussion to be added
	Predicting Zonal Demands Using Deep Learning Ehsan Roshani, National Research Council of Canada	Taking the Road Less Travelled: Ozone for Wastewater Disinfection Michael McKie, CIMA	Drumquin Wastewater Pumping Station: how moving it significantly reduced future energy requirements. Peter Rusch, Hatch	Water Treatment and Service Level Decision Matrix for Water Systems in Newfoundland and Labrador Deneen Spracklin, Government of Newfoundland and Labrador		

	Beyond the Filter: Inside Canada's Most Advanced AI- Powered Water System — LESSONS FROM SEOUL B.J. Min and Olly Ejere, ecoAI INNOVATES	2025 Case Studies - Model-based Optimization of Disinfection Chemistries - Region of Peel & Baton Rouge Ashley Boulter and Ian Watson, USP TECHNOLOGIES	Diverting Municipal Wastewater Towards Sustainability: A Brief Overview of the Diversion System Designed for the MDE WET Project Asantha Fonseka and Subhajit Mondal, R.V. Anderson Associates Limited	New Approaches to Meet Today's Challenges Maureen Hodgins, Water Research Foundation		
12:00 – 1:30	Lunch					
	Colwood	Sidney	Lecture Hall	Esquimat	Oak Bay 1 and 2	Saanich 1 and 2
1:30 – 3:00	F1: Digital Solutions for Underground Infrastructure Moderator : Vicki Campbell, EPCOR Water Services	F2: Wastewater Treatment and Collection Moderator : Renee Grosselle, City of Winnipeg	F3: Experiences with Energy Audits and Grant Applications Moderator : Moderator: Indra Maharjan, Arcadis	F4: New Approaches in Planning (2) Moderator : Hiran Sandanayake, City of Ottawa	F5: From Insight to Implementation: How Municipalities Can Use HICC's Climate Toolkit to Build Resilient Water Infrastructure	F6: Top 50 Water Projects – Water Canada Magazine
	AI-Based Sensor Anomaly Detection for Collection System Sensor Networks Diana Tao, Tetra Tech	The effects of nanobubbles on wastewater treatment: a bench- scale study Rasha Maal-Bared, CDM Smith	Aurum Energy Audit Project <i>(virtual presentation)</i> Sam Likely, NRCan	Leading Change through Capital Delivery Samantha Brickman, City of Kitchener	Join us for an interactive session on how the Climate Toolkit for Housing and Infrastructure can support the delivery of climate-resilient water, wastewater, and stormwater infrastructure. Through live demonstrations, practical guidance on climate-related funding	
	The Use of AI in asset management Gord Henrich, PIA- Global and Harrison Richarz, PIA-Global	Innovative Ammonia Removal via Struvite Precipitation at an impressive scale Majid Benabess, AtkinsRéalis	Experiences with Audits and Grant Applications Qing Zhang, Epcor and Keming Yan, CIMA+	Data Governance in Practice- how to manage & improve data quality Emily Zegers, City of Toronto		

	Practical Sensory System Design in Real Water Distribution Systems Using Unsupervised Learning Ehsan Roshani, National Research Council of Canada	Using Acoustic Technology to Prioritize Sewerline Maintenance in the City of Waterloo, Ontario Anthony Abbruscato, Rapid Assessment Technology Services (RATS) Inc. and Leigh McDermott, Corporation of the City of Waterloo	Roundtable and Discussion	Qualification Based Selection (QBS) Carl Bodimeade, Hatch	requirements, and a structured peer exchange, participants will explore tailored tools, data, and expert support to help advance their projects. The session also offers a valuable opportunity to share on-the-ground experiences, surface good practices, and shape the future of Climate Toolkit services to better reflect real-world community needs.	
3:00 – 3:30	Refreshment Break					
	Colwood	Sidney	Lecture Hall	Esquimat	Oak Bay 1 and 2	Saanich 1 and 2
3:30 – 5:00	G1: Utility and Watershed Management Moderator : Moderator: Indra Maharjan, Arcadis	G2: Wastewater Monitoring Moderator: Emily Zegers, City of Toronto	G3: Drinking Water Distribution Systems – Biofilms Moderator : Sarah Wilson, City of Toronto	G4: New Approaches in Planning (3) Moderator : Hiran Sandanayake, City of Ottawa	G5: Decision Making – engagement and consultation Moderator : Valerie Jenkinson, Operators without Borders	G6: Top 50 Wastewater Projects – Water Canada Magazine
	State of Watershed Governance in British Columbia Oliver Brandes and Rheanne Kroschinsky, POLIS Water Sustainability Project, University of Victoria Centre for Global Studies	Real-Time Wastewater Process Benchmarking: Using Data More Effectively John Copp, Primodal Inc	Current state of research and emerging opportunities for the use of UV light for biofilm control in water applications Stephanie Gora, York University	Standardizing the Approach to Managing Construction Impacts from Capital Projects Jennifer Crosby, Metro Vancouver	Engaging Community to Ensure Indigenous Knowledge Inclusion Freda Leong and Tyra Phillips, Associated Engineering	City of Regina Water Expansion Project Kevin Syrnick, City of Regina
	Overview of A Ten-Year Journey of	Wastewater and Environmental Monitoring	Can drinking water biofilms accumulate cyanotoxins? An	Operationalizing resilience to inform urban water supply	EPCOR Water Treatment Plant Flood Mitigation and	GE Booth Water Resource Recovery

	Empowering Utility-led Innovation Indra Maharjan and Jason Carter, Arcadis Canada	Robert Delatolla, Univeristy of Ottawa	experimental approach using a full-scale drinking water laboratory facility. Artur Sass Braga, Queen's University	planning and management Aina Crozier, University of British Columbia	Indigenous Engagement Vicki Campbell, EPCOR Water Services	Anthony Parente, Region of Peel
	Advancing Water Quality Management through a Total Loading Approach Steph Neufeld, EPCOR	Using microbial source tracking in an urban setting to aid in the identification of storm/sanitary lateral cross-connections. Graham Banting, EPCOR Water		Awareness and Advocacy: Using a Digital Solution to Effectively Participate in Legislative Consultations October Bell, Peel Region		Building Resilience and Reliability: Expanding the Northwest Langley Wastewater Treatment Plant Marek Ratajczak, Metro Vancouver
7:00	Conference Celebration					
Wednesday, November 5						
To be added Conference Registration and Breakfast						
	Colwood	Sidney	Lecture Hall	Esquimat	Oak Bay 1 and 2	Saanich 1 and 2
8:30 – 10:00	H1: Water and Wastewater Research Moderator : Ehsan Roshani, NRC	H2: Miscellaneous Moderator; Klas Ohman, Associated Engineering		H3: Insights and Research into Utility Management Moderator : Sarah Wilson, City of Toronto	H4: Indigenous Water Challenges Moderator : Anna Comerton, Associated Engineering	H5: Infrastructure Resilience – a year after the Year of Disasters, how are we preparing for the next failure Moderator: Carl Bodimeade, Hatch

	UV LED Innovation in Water Treatment: Advancing Disinfection and Photolysis for a Mercury-Free Future Carolina Ontiveros, Dalhousie University	Safe Green Alternatives for Biofouling Prevention: Optimizing Desalination Technology to Promote Water Conservation and Equitable Clean Water Access Luiz Henrique Da Silva Correa, University of Victoria		Insights from across the pond on next-generation water quality management Bradley Jenks and Fabian Papa, Hydratek & Associates	Operator Training & Accreditation... an Indigenous Perspective Glen Goodman and Melanie Debassige, Ontario First Nations Technical Services Corporation	More information coming soon
	Monitoring Adenosine Triphosphate (ATP) in a Drinking Water Distribution System Rasha Maal-Bared, CDM Smith	Microbial Induced Corrosion of Concrete – What is going on in our sewers Alex Turnbull, Xypex Chemical Corporation		Mapping the City of Montreal Water Service research initiatives: a development tool Marie-Claude Besner, City of Montreal	Collaborative research in water and wastewater in decentralized truck-to-cistern systems in Nunavik Hossein Shafeghati and Iheoma Nkwoji Kativik Regional Government and Stephanie Guilherme, Université Laval	
	Rapid Detection of Antibiotic Resistance in Escherichia coli in the Presence of Ampicillin and Carbapenem Using Advanced Quantitative Culture Method Rayane Azani, Queen's University	From Snowmelt to Tap: Navigating Spring Runoff Challenges for Water Production at Edmonton Water Treatment Plants Bappi Chowdhury, EPCOR Water Services				
10:00 – 10:30	Refreshment Break					

	Colwood	Sidney	Lecture Hall	Esquimat	Oak Bay 1 and 2	Saanich 1 and 2
10:30 – 12:00	11: Cyber Security Moderator : Ehsan Roshani, NRC	12: Underground Infrastructure (2) Moderator : Emily Zegers, City of Toronto	13: Standards Moderator : Renee Grosselle, City of Winnipeg	14: PFAS Research and Removal Moderator : Laurent Laroche, Ville de Montréal	15: Small System Challenges Moderator : Amy Winchester, CBCL	16: ULC Committee Panel – Utility Priorities for 2026 Moderator: Carl Bodimeade, Hatch
	Securing OT Systems in Water Wastewater by Addressing OT asset exposures on the internet. Austin Joe and Patrick Ford, Schneider Electric	Optimizing Dead-end Flushing for Resource Savings and Water Quality Laura Meteer, Queen's University	Frontiers in Drinking and Waste Water Certification Kathryn Foster, NSF International	Protection of sensitive downgradient receptors impacted by PFAS contaminated water via concentration and sorption technologies Jean Pare, CHEMCO INC.	Risk-Informed Strategies for Small Water Systems: Leveraging Existing Data for Proactive Pipeline Management Javed Mukri, Pure Technologies Ltd., a Xylem brand	More information coming soon
	Interested in a being part of a Water Cybersecurity Co-op? Mark Brosseau, EPCOR Water	Water Infrastructure Renewal Mark Knight, SIPP Americas LLC	The new CSA Wastewater Management Standard Edgar Tovilla, City of Markham	Optimized Method for Analyzing PFAS in Drinking Water to Assess the 2024 Health Canada Objective Tammy Chartrand, ALS	Can biological filtration for Iron and Manganese removal be improved? Karim Abouzeid, Rick Sen and Andrea Milesan, Magnor	
	Cybersecurity for Automation Systems in the Water Sector Zane Spencer, MPE a division of Englobe		Use of Standards in Utility Management <i>(virtual presentation)</i> Thomas Ellison, Cheffell Associates	Revolutionary PFAS Recovery Using Continuous Ultra Filtration & Colloidal Activated Carbon Brian Butters and Tony Powell, Purifics Water Inc.	Chesterville Groundwater Treatment – Meeting the New Manganese MAC in North Dundas, ON Meaghan Keon, J.L. Richards & Associates Limited	