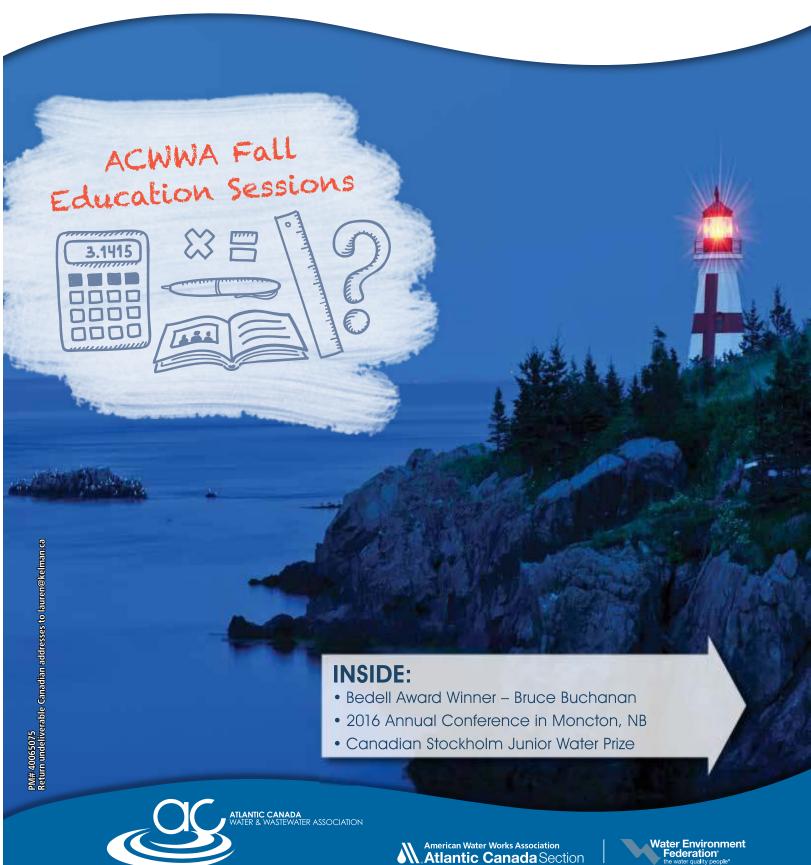
# FALL 2016 with F

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Atlantic Canada Section



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The magnetic bearings (two radial bear- Power outage protection ings, one axial bearing) are split over two In the event of a power outage, the ZB identical bearing cartridges with each a VSD includes a fail-safe mechanism conradial bearing and halve an axial bearing. The bearing cartridge carries the back-up ball bearings.



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FALL 2016







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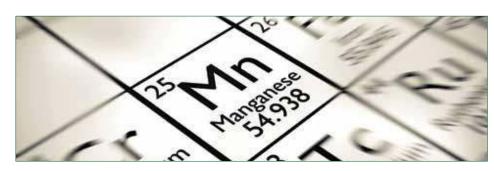
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#### A small association with a large presence

hope everyone has enjoyed their summer and that everyone submitted a few photos for our annual photo contest. With vacations behind you, now is a great time to shift your focus to our Annual Conference being held in Moncton from September 18 to 21. Make sure you register for our premiere event. I know the conference planning committee has been putting in a lot of hard work to make this a great experience for everyone in attendance.

In June, I had the opportunity to attend AWWA ACE16 in Chicago. This conference is always a great

opportunity to keep abreast of emerging issues and new technology in the water industry. One topic that was on everyone's mind at the conference was lead in our water systems. As utilities and regulators work towards a common approach for dealing with lead in the coming years, I encourage all utilities to start thinking about how they are going to deal with this serious issue.

On a more positive note, ACWWA was well represented at ACE16.

Marc Colwell and Julie Stokes competed in the Top Ops competition as Team

New Brunswick, the City of St. John's

participated in the Best of the Best Water Taste Competition, and Stefana Egli from Memorial University won the Fresh Ideas poster competition. Even though we are a small association, we should be proud of our large presence at the national level.

I find it hard to believe, but this will be my last article as Chair as my term will be up at the conference in September. I would like to take the opportunity to thank the Board for all of the work they have done this past year. As the future Past Chair, I look forward to working with our incoming Chair and new Board.



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#### Helping to create new paths

elcome to the Fall 2016
edition of the ACWWA
Go With the Flow magazine.
This excellent publication
continues to help connect you with the
Atlantic Canada water and wastewater
industry and your peers. Enjoy the read.

In June of 2016 I had the opportunity to represent Atlantic Canada at the AWWA Board meetings and Annual Conference and Exposition (ACE) in Chicago. The event was a huge success with more than 13,000 delegates. At ACE, Jeanne Bennett-Bailey of Fairfax, Virginia, began her one-year term as president of AWWA. Now retired, she most recently serviced as the public affairs officer for Fairfax Water. During her term as president, she will focus on workforce development, young professionals, and the AWWA Water Equation Campaign, which supports programs such as the One AWWA Operator scholarship.

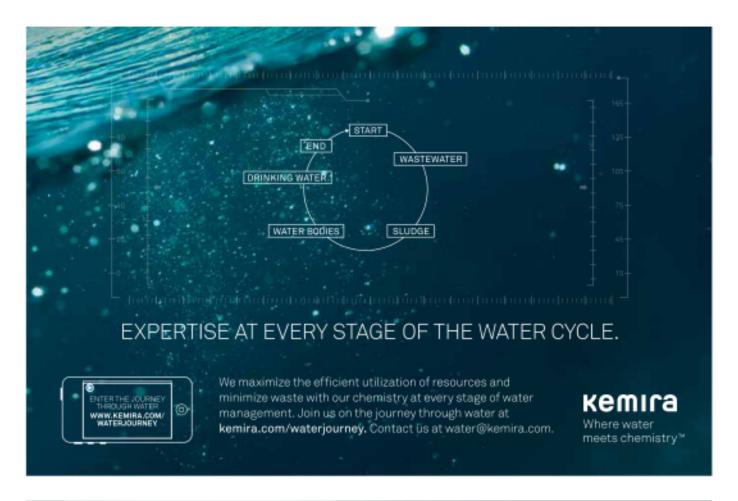
In support of the Water Equation Campaign, a new presidential Committee was established, and I am pleased to be the Canadian representative with this group. We will be focusing on creating a path to a sustainable program that will support the development of the water profession for generations to come. Atlantic Canada has jumped on board early and is offering an operator scholarship for training local operators that is co-funded by ACWWA and the Water Equation.

Some of the other highlights from the ACE Board meetings include:

- AWWA continues to provide a leadership and collaborative role related to the issue of lead service lines. Earlier in 2016, the Board voted unanimously to support recommendations from the National Drinking Water Advisory Council (NDWAC) that strengthen the US Lead and Copper rule and will ultimately result in the complete removal of lead service lines. In addition, a new Lead Service Line Management policy is in development with a January 2017 adoption target, and, an AWWA Standard for Replacement and Flushing of Lead Service Lines is due for publication by June 2017.
- Acknowledgment of the 20<sup>th</sup> anniversary of the Partnership for

- **Safe Water** (PSW) with more than 250 participating utilities, providing recognition of real water quality improvements.
- Leveraging the success of the PSW, the program has now been extended to wastewater with the establishment of the Partnership for Clean Water. This is an optimization program with a focus on effluent quality and energy efficiency and has nine charter members.
- The Board adopted an enhanced AWWA Strategic Plan with a continued VISION of A better world through better water and a MISSION of Providing solutions to effectively manage water, the world's most important resource.
- See the AWWA website for full details and opportunities on the above. The ACWWA conference, set for late September in Moncton, is our annual highlight and I look forward to hosting Aurel Arndt, AWWA Treasurer, as our official guest. See you all in Moncton! I remain committed to representing our needs at the AWWA level. Please send me your comments or questions to Jamie.hannam@halifaxwater.ca.





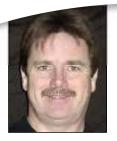


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#### Framework for STEPP initiative released

s your WEF Delegate I thought it would be a good idea to keep all of the ACWWA WEF members informed of initiatives that WEF is undertaking. The stormwater program at WEF is rolling along very quickly and this article from the WEF stormwater report tells about the STEPP program that has started, it is a great read. Thank you to all the WEF members of ACWWA; make sure you drop a line if you have any questions, comments or concerns.

In July, the National Stormwater Testing and Evaluation for Products and Practices (STEPP) initiative crossed a milestone with the release of a document that provides recommendations on potential program design components. The document, Framework for a National Testing and Evaluation Program Based Upon the National Stormwater Testing and Evaluation for Products and Practices (STEPP) Initiative (Project No. INFR2R14), also addresses

both general programmatic and individual program aspects.

WEF, through the Stormwater Institute, assembled the Advisory Committee and Research Team that worked on this project and managed the development of the framework report.

#### Framework creators and recommendations

The Advisory Committee created the framework document. The Advisory Committee includes

- Robert Adair, Convergent Water Technologies
- Andrew Allan, Stormwater Australia
- Julia Anastasio, Association of Clean Water Administrators
- Gary Belan, American Rivers
- Jason Berner, U.S. Environmental Protection Agency, Office of Science and Technology, Office of Water
- Todd Doley, U.S. Environmental Protection Agency, Office of Science

- and Technology, Office of Water
- Chris French, Water Environment Federation (formerly with Contech Engineered Solutions LLC and representing the Stormwater Equipment Manufacturers Association)
- James Houle, University of New Hampshire
- Doug Howie, Washington State Department of Ecology
- Ryan Janoch, P.E., Mapistry
- Glenn MacMillan, Toronto and Region Conservation
- Richard Magee, Sc.D., P.E., New Jersey Corporation for Advanced Technology
- Robert Roseen, Ph.D., P.E., Waterstone Engineering, PLLC (formerly with Horsley Witten Group)
- David Sample, Ph.D., P.E., Virginia Polytechnic Institute and State University
- Alex Sandu, Ph.D., P.E., MWH Global
- Mex Salidu, Fil.D., F.E., MWT Globa
   Larry Schaffner, Thurston County (Wash.) Water Resources

Chapter No. 4 of the framework provides details on a suggested threestep process to establish the National STEPP Program. The first stage is the continued operations of the STEPP Advisory Committee; the second stage is the startup period of the National STEPP Program; and the third stage is the established program operations.

The first step and second steps are expected to take 6 to 9 months and 24 months, respectively. Both steps – leading to the third step, the sustained operation of the STEPP Program – will involve much interaction with existing state-level programs.

The full framework document, Framework for a National Testing and Evaluation Program Based Upon the National Stormwater Testing and



Evaluation for Products and Practices (STEPP) Initiative (Project No. INFR2R14), can be downloaded free of charge from the Water Environment & Reuse Foundation website (www.werf.org).

#### The need for STEPP

The STEPP initiative seeks to fill the void of the lack of a national stormwater control measure (SCM) testing and verification program. In the absence of national leadership, a number of independent state and local government led initiatives with inconsistent test protocols and data analysis techniques developed over the past 15 years to verify innovative SCMs. To meet the sector's needs, WEF began by convening a meeting of interested parties at WEFTEC 2012. Participants stated that the lack of a

national program to test and evaluate practices limits innovation of emerging technologies. The participants then formed the core of a workgroup referred to as the Stormwater Testing and Evaluation for Products and Practices (STEPP) Workgroup. In addition, a steering committee of 10 members and a chair investigated this topic and produced a white paper articulating the issues and developing recommendations and next steps

#### The underlying information

On Feb. 6, 2014, STEPP released a white paper recommending the formation of a national testing and evaluation program for stormwater products and practices. The goal of a national program would be to meet the growing need for affordable and

effective stormwater management infrastructure and to overcome the hurdles in the sector that restrains innovation in stormwater product and practice technology development.

The paper, Investigation into the Feasibility of a National Testing and Evaluation Program for Stormwater Products and Practices, discusses challenges and possible solutions. Challenges mentioned include consistency in protocols, programmatic variability, lab versus field testing, sustainable funding, product and practice categorization, and the need for leadership. The white paper reflects concerns of manufacturers, municipalities, consulting engineers, government, non-governmental organizations, and WEF. 🥌



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- Our computer-to-plate technology reduces the amount of chemistry required to create
  plates for the printing process. The resulting chemistry is neutralized to the extent that
  it can be safely discharged to the drain.
- We use vegetable oil-based inks to print the magazine. This means that we are not using resource-depleting petroleum-based ink products and that the subsequent recycling of the paper in this magazine is much more environment friendly.

#### is more than just talk

As we continue to deliver valuable information through the pages of this magazine, in a printed format that is appealing, reader-friendly and not lost in the proliferation of electronic messages that are bombarding our senses, we are also well aware of the need to be respectful of our environment. That is why we are committed to publishing the magazine in the most environmentally-friendly process possible. Here is what we mean:

- During the printing process, we use a solvent recycling system that separates
  the water from the recovered solvents and leaves only about 5% residue.
  This results in reduced solvent usage, handling and hazardous hauling.
- We ensure that an efficient recycling program is used for all printing plates and all waste paper.
- Within the pages of each issue, we actively encourage our readers to BEUSE and BECYCLE.
- In order to reduce our carbon footprint on the planet, we utilize a carbon offset program in conjunction with any air travel we undertake related to our publishing responsibilities for the magazine.

So enjoy this magazine...and KEEP THINKING GREEN.



#### CWWA – Water at centre stage / Join us at the National Water & Wastewater Conference

uilding on our incredible success last fall in 2015 with the Whistler event, CWWA is excited to host the second National Water and Wastewater Conference – November 13–16, 2016 in Toronto,

**Ontario.** This event is in conjunction with the Canadian Association for Water Quality's National Symposium. Join us as CWWA puts water at centre stage.

With the new consolidated format, this event brings together professionals in all areas of water and wastewater management. The dynamic program will explore the most compelling topics in drinking water, wastewater, energy and water efficiency, utility security, and the impacts of climate change. This offers all the same focus of specialized conferences but offers the opportunity to attend sessions on issues that might overlap your own specialty or even learn about new topics in new fields.

This is considered THE national conference for utility leaders and a strong focus on utility management issues has been developed. While the first day of this stream is focused on asset management, the following days will deal with human resource issues, data management, case studies and more. A great mix of panels and presentations focusing on fostering innovation, building utility leaders, and more will be presented.

Our partners at the Federation of Canadian Municipalities (FCM) and Infrastructure Canada, will be coordinating workshops on the Green Municipal Fund and a 'How-To' workshop on access of the new federal budget funds – especially those being directed through the FCM.

The conference will also feature two workshops before the event:



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"While the first day of this stream is focused on asset management, the following days will deal with human resource issues, data management, case studies and more."

Understanding Vulnerability within the Water Sector – Enabling Resilience: This workshop will help stakeholders within the water sector examine their vulnerabilities through the application of systems thinking and soft operations research methods. Through facilitated exercises, attendees will learn how to apply systems thinking to support both vulnerability analysis and resilience.

Integrating Climate Risk into Infrastructure
Management: This workshop will be hosted with
Engineers Canada, for those professionals involved
in policy, planning, pre-design, design, operation,
maintenance, management and regulation of water,
stormwater, and wastewater infrastructure and who need
to consider the effect of climate change on these services.

CWWA is excited to host this second National Water and Wastewater Conference and encourages all utility professionals and leaders to attend.

More information on the event, the complete technical program, workshops, registration and more are available from the conference webpage, at www.nwwc2016.ca.

In closing, I want to express my sincere appreciation to all members of ACWWA for the support and encouragement I have received throughout my term as Director of Government Relations.

This will be my last time reporting on CWWA affairs in this section of the magazine, as my term as both Director of Government Relations and CWWA Director ends this fall at the annual conference and annual meeting. It has been truly a tremendous honor and privilege for me to serve and represent ACWWA on the Board of Directors of CWWA.

Should any other information be required on CWWA activities or initiatives, please do not hesitate to contact me directly at roland.richard@nb.sympatico.ca or visit the CWWA website at www.cwwa.ca.

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# Winners of the Silent Hero Award, Operators of the Eastern Passage Wastewater Treatment Facility

Andrew Eisan, Philip Winter, Evan Beaton, Donald MacDonald, and Ryan Gould

#### **Andrew Eisan:**

- 1. Job title: Process Technician.
- **2.** Who do you work for? Halifax Water.
- What are your current certifications? Level IV wastewater treatment.
- **4.** How many years of experience? 26 years.
- 5. When I'm not working, I'm...
  Hunting, fishing, and spending time with family.
- **6.** The accomplishment I'm most proud of is... My three daughters.
- **7.** Toughest thing about your job? Red tape.
- 8. When you were a kid, what did you want to be when you grew up? Game Warden or Fisheries Officer.
- What music did you listen to this morning? Country music station.



Silent Hero winners (L to R) – Andrew Eisan, Philip Winter, and Evan Beaton. Not pictured: Donald MacDonald and Ryan Gould.

- 10. Favourite TV show? North Woods Law
- **11.** What three objects would you rescue from your burning house? My wife, kids, and dog.
- **12.** Who is the most influential person in your life? My wife.
- **13.** What is you ideal vehicle? Ford 4X4 pick-up.

# WE DO IT ALL



#### **Philip Winter:**

- **1. Job title:** Supervisor.
- 2. Who do you work for? Halifax Water.
- 3. What are your current certifications? CET, WWT 4, and WWC 2.
- **4.** How many years of experience? 32 years.
- **5.** When I'm not working, I'm... Building models.
- **6.** What is your philosophy on life? Make the best of it.
- **7.** Toughest thing about your job? Bureaucrats.
- 8. When you were a kid, what did you want to be when you grew up? A marine engineer.
- **9.** Last book you read? Master and Commander.
- **10.** Last movie you saw? Heart of the Sea.
- **11.** What is your greatest luxury? Quiet.
- **12. Describe your perfect day.** Warm and sunny.
- 13. What three objects would you rescue from your burning house? Two pictures.
- **14.** Who is the most influential person in your life? Rhona, my wife.
- **15.** What is your ideal vehicle? Mercedes SLK.

#### **Evan Beaton:**

- 1. Job title: Process Technician.
- 2. Who do you work for? Halifax Water Eastern Passage Waste Water Treatment Plant.
- 3. What are your current certifications? Process Tech Level 2
- 4. How many years of experience? I first started in this division in 2002.
- 5. When I'm not working, I'm...
  Trying to mind my own business.
- 6. If you could go on a road trip with any one person (living or dead), who would it be and where would you go? Terry Fox on a cross-Canada trip, to show him how much one person can make a difference.
- 7. What is your philosophy on life? Take the world as it is, not as it ought to be.
- 8. Toughest thing about your job? Effective time management and execution of strategy.
- 9. When you were a kid, what did you want to be when you grew up? A repairman – radios, TVs, etc.
- Last book you read? Entombed in Alcatraz – a biography of Robert Luke.
- **11. Last movie you saw?** The Martian, starring Matt Damon.

- **12.** What music did you listen to this morning? I Wish It Were Friday, by Chuck Mead.
- 13. Favourite TV show? Mythbusters.
- 14. What was the best gift you ever received? A surprise trip to a NASCAR race.
- **15.** Not many people know that I... Was Weird Al's bodyguard for a day.
- **16.** What's your favourite famous quote? Do what you can, with what you have, where you are.
   Theodore Roosevelt
- **17. Describe your perfect day.** Living out the lyrics of a Kenny Chesney song.
- 18. What three objects would you rescue from your burning house? Firebox safe, wallet, and laptop.
- 19. What other utility would you most like to visit, and why? I have visited The Hoover Dam, an engineering marvel.
- **20.** Who is the most influential person in your life? A former English instructor, Jim St. Clair.
- 21. What is your ideal vehicle?

  Not a car guy... if it starts,
  I'm happy.





## Celebrating 20 Years

#### **NEWS FROM THE PANEL SHOP**

After 50 years of service, John and Kay McGraw have decided to retire.

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Mr. Mark Whalen., Manager Controls and Automation, Pennecon. Energy Technical Services mwhalen@pennecon.com







#### Appreciating our membership

#### A big welcome to our new members over the past few months:

Name	Company	
Dave Galbraith	Sansom Equipment Limited	AWWA & WEF
Jesse Hulsman	East Hants	WEF
Kenda MacKenzie	Halifax Water	AWWA
Darren Row	City of Miramichi	AWWA
Valerie Michaud	City of Dieppe	AWWA
Bill Stevens	Halifax Water	AWWA
Bernard Manning	Town of Torbay	AWWA
Andrew MacLaggan	City of Miramichi	AWWA
Keith Hannon	Pinnacle Engineering Limited	AWWA
Jacob Hannon		AWWA
Desmond Reddick		AWWA
Bofu Li	Dalhousie University	AWWA
Mark MacDonald	Atlantic Purification Systems Ltd.	AWWA
David Brewer	Town of Old Perlican	AWWA
James Fulton	Town of New Glasgow	AWWA
Kyle Meisner	Town of Antigonish	AWWA
Brent McGovern	Saint John Water	AWWA
Michael Fisher	Fisher Engineering Ltd.	AWWA
Francis Berube	Communauté Rurale De Kedgwick	AWWA
Communauté Rurale	e De Kedgwick	AWWA
Charles Grant	County of Annapolis	AWWA

#### Here's snapshot of what our membership looks like:

Membership totals as of July 2016		
	AWWA	440
	WEF	104

#### Recognition

Julie Stokes (Incoming ACWWA Membership Director/City of Moncton) and Amy Winchester (ACWWA Membership Director/CBCL Limited) had the pleasure of accepting our cash prize from AWWA at the annual Membership Summit in January 2016. Each year, AWWA issues a challenge to each Section, looking to retain new members to our association. Thanks to the efforts of the membership team, led by Barb Crawford (Dillon Consulting), we exceeded our targets for 2015 and are on track to win again for 2016.

#### Did you know?

NEW MEMBER REFERRAL – For every new member that you get to become a member of ACWWA (either through AWWA or WEF), your name will be entered in a draw for a \$50. All the new member has to do is include you as a reference. If you don't know your member number, please email amyw@cbcl.ca and I can provide it to you.

The winner for this quarter is Jay Shanahan from the City of Miramichi for recruiting his colleagues at the City, Andrew MacLaggan and Darren Row! Thanks Jay! 🥌









# Does primary treatment have to take up so much space?

Traditional primary wastewater treatment has required large, energy-hungry settling tanks, but this need not be the case. Technological advancements now mean that the same capability can be achieved in a much smaller footprint and at a much lower energy requirement – freeing up space and cutting costs.

Challenge convention: visit WEFTEC booth 3329 to learn how the **NEW Hydro MicroScreen™** can replace your primary clarifier in  $1/10^{th}$  the footprint or see us in the SW pavillion **booth 1746**.



# THE PIPE THAT FITS





The sewer & culvert rehabilitation solution in the sizes you need.

Aging sewer and water infrastructure has led to ever increasing maintenance costs for municipalities. The engineers at IPEX recognized this development and responded with NovaForm PVC Liner, a product that brings the benefits of factory-made PVC pipe to the North American trenchless pipe rehabilitation

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industry.

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#### **Peace of Mind**

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To learn more, call us toll free at **1-866-473-9462** or visit **ipexna.com** 



# Congratulations to Bruce Buchanan



The Bedell Award is awarded by the Water Environment Federation (WEF) and may be presented to a member of ACWWA to acknowledge extraordinary service to a WEF Member Association.

We would like to congratulate the 2015 Recipient:

Bruce Buchanan, P.Eng., of Moncton, NB.

- What is your job title? Regional Manager.
- 2. Who do you work for?
  R. V. Anderson Associated Limited
- 3. Where do you currently live? Riverview, NB.
- **4.** Where did you grow up? Miramichi, NB.
- 5. What is the toughest thing about your job? Keeping up with the paperwork.

#### Finish these sentences:

- "When I'm not working, I'm..."
   Enjoying life by skiing, biking, and golfing.
- 7. "The accomplishment I'm most proud of is..."
  My family!
- "When I was a kid, I wanted to be \_\_\_\_\_ when I grew up." An engineer.

"Not many people know I can..." Cook.

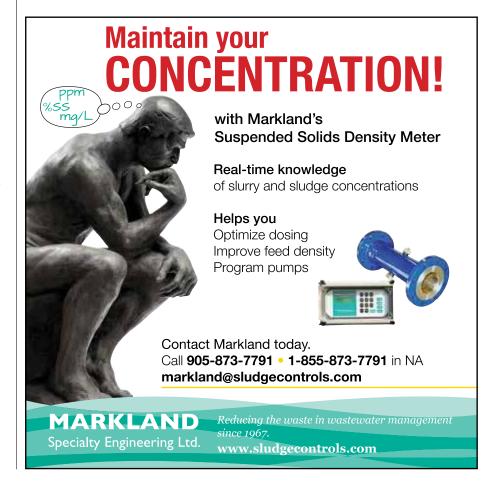
#### What is...

- **10. The last book you read?**Gomorrah: Italy's Other Mafia by Roberto Saviano.
- **11.** The last movie you saw? Jason Bourne.
- **12. Your favourite TV show?** NCIS.
- 13. The best gift you have ever received?My engineering degree, as it led to a great career.
- **14. Your guilty pleasure?**My guilty pleasure is sweets lemon pie, chocolate, strawberry

- shortcake, candy... I could keep going but you get the idea.
- 15. The song or story you remember from the radio this morning?
  - Rise Up by Andra Day.
- 16. The most useless thing you have ever purchased?

  A treadmill!
- 17. If you could go on a road trip with any one person, living or dead, who would it be and where would you go (and what would be in the CD player)?

  I would be travelling to another distillery in Scotland with my wife Diane, listening to U2.





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#### Recognizing our current ABEA members

s we prepare for the 2016
ACWWA Conference to
be held in Moncton, NB
we would like to take this
opportunity to recognize, and thank,
our current ABEA members without
whose continued support we would
not be able to contribute to the annual
conference in such a meaningful way.

- ADS
- Greatario Engineered Storage Systems
- Opus
- Anthrafilter
- H2Flow
- Panel Shop / Pennecon
- APS
- Harmsco
- Pure Technologies
- Aqua Data Atlantic
- Hetek
- Rahn Plastics
- Aqua Rehab
- Hydro Mechanical Sales
- Royal Building Supplies
- Armour Valve
- Integrity Pipeline Products
- Sansom
- Armtec
- Ipex
- Scotia Tech
- Avensys
- Itron
- Sensus / KTI
- Bibby-Ste-Croix
- K&D Pratt
- ShadComm
- BioMAXX
- Kemtag
- Shaw Resources
- Birksco Aqualoader
- KSB
- SIGMA
- Cambridge Brass
- Marathon
- Soleno
- Campbell's Concrete
- Maritime Infrastructure
- Source Atlantic
- Canada Pipe
- McLennan

- Star Pipe
- Chemline
- Mueller
- State Chemical
- Clow
- NatPro
- TEKK
- Coastal Controls
- Neptune
- Univar
- Concord Supply
- Netzsch Canada
- Urecon

- Denyg Mechanical
- Novatech
- Veolia
- EEP
- Nulantic
- Wolselev
- Ford Meter Box
- Omnitech
- Xylem

The annual ABEA AGM will be held on Monday, September 19 at 10:00 am at the conference facility – we look forward to seeing you there.

#### **ABEA – Atlantic Branch Equipment Association**

www.abea.biz







For other updates on the ABEA, its members, and its affiliates, please check out our Facebook, Twitter, and LinkedIn pages, where you can find the most up-to-date information.







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#### Source to/à Source, Moncton, NB September 18-21

In just a few weeks, a year of hard work by our conference committee will culminate in this year's 69th ACWWA Annual Conference, which is sure to be a memorable event. A complete registration package is included in this issue of Go With the Flow. The information can also be found online at www.acwwa.ca. The host hotel, the Delta Beauséjour, is reaching capacity, so don't delay and avoid disappointment.

Once again our technical program will be filled with high-quality technical presentations. This year's program will feature 42 technical presentations, two technical tours, as well as a hands-on demonstration. In keeping with this year's theme, 'SOURCE TO SOURCE', the committee focused on providing its audience opportunities to attend presentations on various projects and hear solutions on topics ranging from the source of our potable water to the effluent discharged into our water source, and everything in between! What innovations are being used in the development of our water source? The challenges we face in our distribution systems? What processes are being used to treat our wastewater? What new regulations will be implemented? How will we meet these regulations?

Our keynote speaker, Martin Latulippe, is sure to leave you inspired and energized. Martin is a well-known, award-winning philanthropist and best-selling leadership author. Some may remember Martin as the Team Canada captain when he played in the World University hockey championship in 2001. You are sure to be captured by Martin's wisdom and life-touching stories.

The conference committee is also very excited for all of the other conference highlights in this year's program. Delegates, suppliers, and companions can start the conference at noon on Sunday by enjoying the spectacular scenery and radiant greenery as they golf at the Fox Creek Golf Course. On Sunday evening, come join us at the Young Professional Mixer at Gusto. We will then reconvene at the hotel for our meet & greet where you can network with friends and colleagues, as well as partake in our first-ever water tower building competition sponsored by Greatario. Come join a team or cheer one on. On Monday morning, the conference will officially begin with the opening general session, which will include the presentation of major AWWA and WEF awards. Monday morning, we will offer a technical tour to the Moncton Water Treatment Plant. A tour of the TransAqua Wastewater Facility will be offered Monday afternoon after the AGM luncheon. Be sure to attend the ever-popular top ops competition Monday afternoon, with a new competition format - speed answering has been replaced by a 'jeopardyesque' format. If you haven't registered your team yet, be sure to do so and see if your operators are the best of the best. Monday evening will once again follow a dine-on-your-own format. But, before venturing out to indulge in one of Moncton's fine restaurants/pubs you may want to participate in our Annual Water For People 5 km run/walk along our riverfront trail, where you may be fortunate enough to witness the famous tidal bore.

Delegates/companions/suppliers are invited to attend the Monday evening Hospitality Event hosted by the ABEA at McSweeney's Dinner Theatre, where you will be entertained by Raglan Road.

Tuesday morning will begin with the Best of the Best Taste Test, followed by the ABEA tradeshow until 1 pm. The tradeshow will be followed by our hands-on technical demonstration presented by the City of Fredericton. Tuesday will wrap up with our Down East Feast where we will be entertained by comedian Julien Dionne and enjoy the music of Big Bad Party Band. Also new this year – be sure to 'stay till the end' in order to participate in the prize draw. Our conference will close on Wednesday with our awards breakfast followed by technical sessions.

We look forward to welcoming you to Moncton – September 18 to 21.

#### **Julie Stokes**

2016 Conference Chair

#### **Conference Overview**

Sunday, September 18, 2016			
12:00 pm – 4:00 pm	ACWWA/ABEA Golf tournament – Fox Creek Golf Course		
5:00 pm – 9:30 pm	Registration		
5:30 pm – 7:30 pm	Young Professional Mixer – Gusto Restaurant – 130 Westmorland Street		
	Gusto Restaurant – 150 Westinoriand Street		
7:30 pm – 11:00 pm	Meet and Greet Reception – Delta Beauséjour – Ballrooms A, B & C		

Monday, Septem	ber 19, 2016
7:30 am – 3:00 pm	Registration
8:00 am – 8:30 am	Pick-Up Breakfast – Mezzanine 2 <sup>nd</sup> level
8:30 am – 10:00 am	Official Conference Opening – Ballrooms A & B Awards Ceremony and Keynote Speaker– Martin Latulippe
10:00 am – 10:15 am	Nutrition Break – Mezzanine 2 <sup>nd</sup> level
10:15 am – 11:45 am	Technical Tour – Moncton Water Treatment Facility – meet in Lobby
10:00 am – 5:00 pm	WFP Silent Auction – Mezzanine 2 <sup>nd</sup> level
10:15 am – 11:45 am	Technical Sessions – Shediac A, B & C
11:45 am – 1:15 pm	AGM Luncheon – Salon A & B
1:30 pm – 3:00 pm	Technical Sessions – Salons B, C & D
1:30 pm – 3:00 pm	Technical Tour – TransAqua Wastewater Treatment Facility – meet in Lobby
3:00 pm – 3:15 pm	Nutrition Break – Mezzanine 2 <sup>nd</sup> level
3:30 pm – 5:00 pm	Top Ops Competitions – Shediac C
5:00 pm – 6:00 pm	Water For People – Fun Run/Walk Riverfront trail by RCMP Monument – meet in Lobby
6:00 pm – 9:00 pm	Dine on your own
9:00 pm – 12:30 am	ABEA Hospitality Night – McSweeney's Dinner Theatre, 700 Main Street

Tuesday, Septemb	per 20, 2016
7:30 am – 3:00 pm	Registration
8:00 am – 9:00 am	Best of the Best Water Taste Test – Ballrooms A, B & C
8:00 am – 9:00 am	Pick-up Breakfast – Ballrooms A, B & C
9:00 am – 3:00 pm	WFP Silent Auction – Mezzanine 2 <sup>nd</sup> level
9:00 am – 1:00 pm	ABEA Tradeshow – Ballrooms A, B & C
10:00 am – 10:30 am	Nutrition Break – Ballrooms A, B & C
12:00 pm – 12:30 pm	Lunch – Ballrooms A, B & C
1:15 pm – 2:45 pm	Technical Sessions – Shediac A & B
1:15 pm – 2:15 pm	Technical Demonstration – 125 Assumption – meet in Lobby
2:45 pm – 3:00 pm	Nutrition Break – Mezzanine 2 <sup>nd</sup> level
3:00 pm – 4:30 pm	Technical Sessions – Shediac A, B & C
6:30 pm – 7:00 pm	Water Works Club Reception – Mezzanine 2 <sup>nd</sup> level
7:00 pm – 11:00 pm	Down East Feast – Ballrooms A, B & C

Wednesday, September 21			
7:30 am – 3:00 pm	Registration		
8:00 am – 9:00 am	ACWWA Awards Breakfast – Ballroom A		
9:30 am – 11:00 am	Technical Sessions – Shediac A, B & C		

## **ACWWA Conference Registration**

D/	ART 1 - CON	NFERENCE ATTEN	IDFF	CENERAL INFOR	MATION	ī	
	LAST NAME	II EKENGE AT TEN		NIZATION	WATION		
MAILING ADDRESS						CITY	
MAILING ADDRESS						CITY	
PROVINCE	COUNTRY		POST.	AL CODE		AWWA MEMBER	SHIP NUMBER
PHONE 1	FAX					WEF MEMBERSH	IIP NUMBER
REGISTERED COMPANION/SPOUSE			EMAI	L ADDRESS			
REGISTERED COMPANION/SPOUSE			EMAI	L ADDRESS			
SECTOR □ Utility □ Supplie	er 🗆 Contra	actor 🛮 Consulta	ant I	⊐ Student □ Ac	ademic	□ Regulator	□ Other
	I	PART 2 - DELEGAT	ΓE RE	GISTRATION			
Full Conference Delegate – Includes A	All Meals On o	r Before August 26, 20	016	☐ Member – \$475	□ Non-M	Iember – \$525	\$
Full Conference Delegate – Includes A	All Meals After	r August 26, 2016		☐ Member – \$575	□ Non-M	Iember – \$625	\$
Companion/Spouse Program – Includ	les All Meals			☐ Member/Non-M	ember – \$2	50	\$
Student (Includes Meet & Greet, Lunc	ches, Awards E	Breakfast and Trade S	how)	☐ Member/Non-M	ember – \$1	00	\$
Monday Full Day Pass (Includes AGM	Lunch and AF	BEA Hospitality Recep	tion)	☐ Member – \$250	□ Non-M	Iember – \$275	\$
Tuesday Full Day Pass (Includes Trade	e Show & Lund	ch and Down East Fea	ast)	☐ Member – \$250	□ Non-M	lember – \$275	\$
Tuesday 1/2 Day Trade Show Pass (Inc	cludes Trade S	Show Lunch)		☐ Member – \$125	□ Non-M	Iember – \$150	\$
			Pai	t 2 - Subtotal	\$		
DELEGA	TE MEALS	& ACTIVITIES NO	OT IN	CLUDED WITH I	REGISTR.	ATION	
Sunday, September 18				Please indicate att	endance b	y checking box	
Golf (transportation not included)  Shirt: S_M_L_XL_XXL@ \$70= \$					\$		
Technical Tour – Turtle Creek Water	Treatment Fac	rility				@ \$15=	\$
Technical Tour – TransAqua Wastewa	ater Treatmen	t Facility				@ \$15=	\$
Tuesday, September 20							
Down East Feast – Included in Delega	ate/Companior	n Registration Fees		Additional Tickets	@ \$85	=	\$
Please indicate meal choice for Down East Feast for Delegate/Companion Lobster Chicken		cken	Beef				
Please indicate meal choice for Down		8 1					
			have			rt 2 - Subtotal	\$
			have			rt 2 - Subtotal	\$
Please describe any dietary restrictio	ons or other sp	ecial needs you may			Pa		\$
Please describe any dietary restriction	ons or other sp	ecial needs you may	NTAL	. & EXHIBITOR R	Pa	TION	
Please describe any dietary restrictio	ons or other sp	ecial needs you may	NTAL	. & EXHIBITOR R	Pa <b>EGISTRA</b> Von-Memb	TION	\$
Please describe any dietary restriction	ons or other sp	ecial needs you may	NTAL	. & EXHIBITOR R	Pa <b>EGISTRA</b> Von-Memb	<b>TION</b> er: s @ \$850	
Please describe any dietary restriction  PART 3  Booth Rental (Max 3 Booths & 2 People	ons or other sp	ecial needs you may below BOOTH RE	NTAL	. & EXHIBITOR R	Pa  EGISTRA  Non-Memb	TION er: s @ \$850 NAME	
Please describe any dietary restriction  PART 3  Booth Rental (Max 3 Booths & 2 People  EXHIBITOR'S NAME	ons or other sp  B – TRADE S  A/Booth)	ecial needs you may be seen a seen and seed and seed and seen and seed and seen and seed and seed and seed and	<b>NTAL</b> @ \$500	. & EXHIBITOR R	Pa  EGISTRA  Non-Memb booths  EXHIBITOR'S	TION er: s @ \$850 NAME	
Please describe any dietary restriction  PART 3  Booth Rental (Max 3 Booths & 2 People EXHIBITOR'S NAME  EXHIBITOR'S NAME  Extra Booth Exhibitor Registration (in & Greet, ABEA Hospitality Reception	ons or other sp  B – TRADE S  A/Booth)	ecial needs you may a second needs you need needs	<b>NTAL</b> @ \$500	. & EXHIBITOR R	Pa  EGISTRA  Non-Memb booths  EXHIBITOR'S	TION er: s @ \$850 NAME NAME er: @ \$100	\$

EXHIBITOR MEALS & ACTIVITIES NOT INCLUDED WITH REGISTRATION				
Sunday, September 18				
Golf (transportation not included)	Shirt: SMLXLXXL	@ \$70=	\$	
Technical Tour – Turtle Creek Water Treatment Facility		@ \$15=	\$	
Technical Tour – TransAqua Wastewater Treatment Facility			\$	
Exhibitor Booth registration does not include the full conference or meals. T	o attend full conference, registe	er as a Delegat	e in Part 2	
Monday, September 19				
Pick-up Breakfast	Exhibitor @ \$30=		\$	
Annual General Meeting Luncheon Exhibitor@ \$40=			\$	
Tuesday, September 20				
Down East Feast	Exhibitor @ \$85=		\$	
Please indicate meal choice for Down East Feast	Lobster Chicken	Beef		
Wednesday, September 21				
Awards Breakfast	Exhibitor @ \$30=		\$	
Please describe any dietary restrictions or other special needs you may have	Par	t 3 - Subtotal	\$	

PART 4 - TOP OPS COMPETITION REGISTRATION				
Top Ops Team Registration	□ Water	☐ Wastewater	Team @ \$50	\$
To complete team registration contact Trent Brewer at (506) 460-2066 or trent.brewer@fredericton.ca			Part 4 - Subtotal	\$

PART 5 – FEES	
Subtotal	\$
Life Members deduct \$100.00	\$
PLEASE NOTEON AND AFTER JULY 1, 2016 HST WILL BE 15% (869 924 910 RT2)	\$
Water For People Fun Run/Walk@ \$25	\$
Total Amount Due	\$

PART 6 - PAYMENT OPTIONS						
Choose payment method. Complete as appropriate.						
□ Cheque	□ Money Order	□ Visa	☐ Master card			
Please make cheque or money order payable to "ACWWA Conference", Box 28142, Dartmouth, NS B2W 6E2						
CARD HOLDER NAME						
CARD NUMBER			EXPIRY			
SIGNATURE						
Fax: 902-435-7796 or Email: contact @awwa.ca	EMAIL ADDRESSS					
WHEN PAYING WITH A CREDIT CARD AN EMAIL ADDRESS IS REQUIRED FOR A RECEIPT TO BE ISSUED						

#### Conference Information

Full conference has a 1.5 CEU value.

#### **Trade Show Information**

Each booth measures 8' x 10' in the main ballroom and 6' x 10' in the hallway/lobby. Booth selection will be online and first come first serve. ABEA members will have exclusive access for one week prior to general public. Contact the ABEA to learn more about becoming an ABEA member, Cathy Cameron at scotiatech main@ns.sympatico. ca. For trade show questions contact Cathy Cameron at scotiatech.main@ns.sympatico.ca.

\*\*\*Booth registrations must be paid with Visa or Mastercard at time of booth selection in order to confirm registration\*\*\*

ACWWA Delegate Cancellation Policy
Cancellations must be received in writing, on company letterhead, and faxed, mailed or emailed to the ACWWA Office. Phone cancellations are not accepted. All cancellations postmarked/fax-dated 14 days in advance of the conference start date will receive a full refund, minus a 10% administrative fee. Cancellations between 7 and 14 days of the conference start will receive a 50% refund. Cancellations less than 7 days in advance of conference will not be refunded. Please note that substitute registrants are welcome. Fax requests for substitutions or cancellations to (902) 435-7796 or email to contact@acwwa.ca.

ACWWA Tradeshow Cancellation Policy – Payment Options
Cancellations must be received in writing, on company letterhead, and faxed, mailed or emailed to the ACWWA Office. Phone cancellations are not accepted. All cancellations postmarked/fax-dated 31 days in advance of the conference start date will receive a full refund, minus a 10% administrative fee. Cancellations between 14 and 30 days of the conference start will receive a 50% refund. Cancellations less than 14 days in advance of conference will not be refunded. Please note that substitute registrants are welcome. Fax requests for substitutions or cancellations to (902) 435-7796 or email to contact@acwwa.ca.



## Upcoming ACWWA fall education sessions 💢 🗒





The following is a list of the ACWWA 2016 fall courses.

Please check our website for online registration and course details, at www.acwwa.ca.

September 6-9, 2016

Wastewater Collection

Halifax, NS

September 21, 2016

Biosolids

Moncton, NB

September 26, 2016

Corrosion Control

Charlottetown, PE

October 3-6, 2016

Water Treatment

Halifax, NS

October 7, 2016

Cross Connection Control

St. John's, NL

October 17-20, 2016

Chlorine Handling

Sydney, NS

October 24-27, 2016

Wastewater Treatment

Moncton, NB

October 27, 2016

Corrosion Control

Halifax, NS

November 1-4, 2016

Wastewater Collection

Halifax, NS

November 14-17, 2016

Water Distribution

Moncton, NB



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# Canadian Stockholm Junior Water Prize (CSJWP) winner -Caitlyn Pratt



ongratulations to Caitlyn Pratt, one of the outstanding students selected in this year's CSJWP competition. Caitlyn is from St. John's, NL and is a

student at Holy Heart High School.

Her winning presentation is titled Impact of an Oil Spill and Emergency Response on Thick-billed Murre Feathers. Her research shows that dispersants are harmful to the waterproofing of these feathers, however necessary for mitigating an oil spill. Caitlyn's future goals include studying biology in university and ultimately attending medical school.

Caitlyn also recently earned the Bronze Medal for the Excellence Award - Senior, sponsored by Youth Science Canada (YSC).



Caitlyn Pratt (on right) at the 2016 YSC Awards



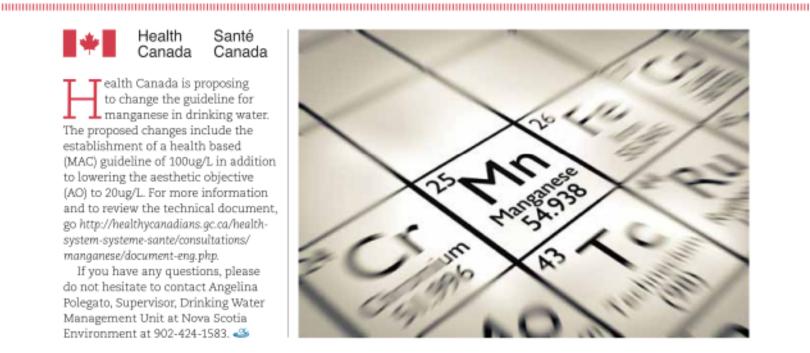
# Proposed guideline change for manganese in drinking water



Health Santé Canada Canada

ealth Canada is proposing to change the guideline for manganese in drinking water. The proposed changes include the establishment of a health based (MAC) guideline of 100ug/L in addition to lowering the aesthetic objective (AO) to 20ug/L. For more information and to review the technical document, go http://healthycanadians.gc.ca/healthsystem-systeme-sante/consultations/ manganese/document-eng.php.

If you have any questions, please do not hesitate to contact Angelina Polegato, Supervisor, Drinking Water Management Unit at Nova Scotia Environment at 902-424-1583.







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New Orleans Morial Convention Center September 24–28, 2016 www.weftec.org

#### AWWA launches revamped water system operator series

Source: awwa.org

#### Complete Water Treatment set available now

(DENVER) – The American Water Works Association has relaunched its Water System Operations (WSO) series with fully revamped versions of Water Treatment, Grade 1; Water Treatment, Grade 2; and Water Treatment, Grades 3 & 4. WSO: Water Distribution Grades 1 & 2 and Grades 3 & 4 will be available this fall.

AWWA's WSO series provides the foremost test preparation materials for water operator certification. Additionally, it is now the only book series aligned with current Association of Boards of Certification (ABC) Need-to-Know criteria. ABC administers water operator certification testing for the majority of North America.

WSO: Water Treatment, Grade

1, Grade 2 and Grades 3 & 4 are
designed to assist water operators
in preparing for the exams by
focusing on core test content
including regulations, specific
treatment processes, water quality
testing and treatment plant safety.
Test questions, full color graphics
and illustrations, and links to
additional instructional videos are
also included throughout each
chapter to further assist students in
their test preparation.

WSO: Water Treatment, Grade 1, Grade 2, and Grades 3 & 4 are available in AWWA's online store.

Media note: Review copies are available for media. Please contact Amber Wilson (awilson@ awwa.org) to request a copy.





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#### Check this out -Wooden water mains!







Interesting note: wooden water mains uncovered during an excavation.

# Send your news items to: Lindsay Wilcott, ACWWA Magazine Chair lwilcott@cbcl.ca



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w. www.opusinternational.ca e. water@opusinternational.ca

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For other questions and comments, email info@cwwa.ca. 🐸





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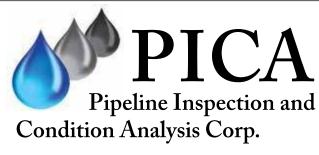
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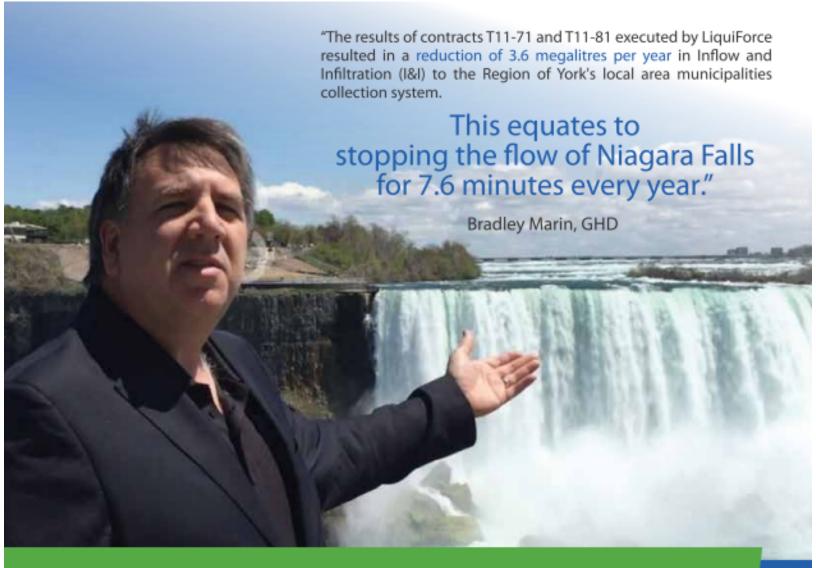


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