

# WCS AWWA CCC COMMITTEE ANNUAL MEETING

May 28-29, 2010 Canmore Alberta

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**WCS AWWA CCC COMMITTEE ANNUAL MEETING**  
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## **2010 Meeting Reports**

### **Chair Report**

**Peters**

#### **June 2009 to May 2010**

I'd like to welcome members and guests to WCSWWA annual general meeting for 2010 and give a brief review of some events that have taken place since I took over as chair last year.

- July BCWWA calls for meeting with the rest of Canada about changes to manual. Meeting scheduled for September 25, 2009 in Toronto.
- September Winnipeg Trade Show (20<sup>th</sup> to 23<sup>rd</sup>) a huge success and my first as Chair. I met with the members of the CAC and found their meetings were informative, and for the cross connections part we discussed the options of on-line training and a program towards CEU's. Tester awareness of licensing for different provinces and having liability insurance was also discussed. I met the guest speaker, Maude Barlow, and after reading her book *Blue Covenant*, had a better understanding of just how serious our water problems are around the world.
- September I was able to sit in on the conference call in Toronto. It was apparent that BC wanted changes to the administration part of the manual. AWWA to set standard minimum for liability insurance, with uniqueness to each section and that certification records be accessible.
- October I checked with NAIT about liability insurance (how much) and was told it would depend on the situation, no amount given.
- November Attended networking event for YP's at Amber Breweries, Edmonton – not a large turnout but the tour was informative and met a couple from the U of A that were interested in getting involved.
- January Attended CAC meeting in Calgary and was impressed with their response and willingness to help the CCC program. They would like to know where and how they can help. Online training was a topic discussed. They had a networking event held at the City Water Centre in Calgary and the sell out crowd were impressed with the venue.
- February John Marple loaned me use his PowerPoint presentation and with extra input from other presenters it will be ready for the trade show in September.
- March Finalized presentation and agenda that was confirmed for September 21 trade show. Our speakers are  
Jim Green – Purveyor  
Mark Sayer – Inspector  
Mike Lueck – VP Eng for Quality Assurance  
Dean Wigmore – Instructor  
Doug Peters – Instructor
- This three hour presentation will be eligible for 0.3 CEU's.  
A suggestion for our library might be that we have a presentation base that could be added to for future reference.

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April A conference call was set with all five sections to deal with a Memorandum of Understanding and a new Terms of Reference. I'll check with Audrey for copies of reply from BC and Quebec, with new sections come growing pains.

May Exam bank review and update.

I would like to thank everyone for their help and patience when it came to replying to my requests or questions over the last year.

Respectfully submitted,

*Doug Peters*

WCS AWWA Cross Connection Control Committee Chair

### **WCS AWWA**

**R Roberts**

#### **WCS AWWA Activities since last Meeting**

- WCS AWWA Board Meeting(s),
  - September 21, 2009 – Winnipeg (Annual Meeting)
  - January 21-22, 2010 – Calgary (Strategic Planning)
  - May 6-7, 2010 – Calgary (Mid Year Meeting)
- Education committee continues to develop and organize training seminars. Next planned activities include:
  - Webinar on distribution system disinfection in planning stage for major WC City's.
- Networking events:
  - Winnipeg, September, 2009
  - Calgary, January, 2010
- Always looking to attract new volunteers.
- New Communications / Media Committee is in development. This committee will focus on member benefits and appreciation, communications, etc
- Website continues development. <http://www.wcsawwa.net>
  - See Backflow Prevention Link, does this suit the needs of the CCC committee?
  - Desire to start Back Talk publication again?

#### **WCS AWWA Planned Activities**

- Development of activities under new Communications committee (can discuss further at meeting if interested).
- Further development of CCC initiatives – see below for further discussion.
- Outstanding Service Award, roll out at Conference.

#### **Alberta Provincial Council Seminars**

The main activities undertaken in 2009 thus far are as follows:

- Project Planning, Delivery & Commissioning Seminar – June 8-9, 2009 (Edmonton)
- Stormwater Issues – October, 2009 (Red Deer)
- Membrane Seminar – April 2010 (Calgary)

The following seminars are currently planned for the remainder of 2010:

- On-site generation of Sodium Hypochlorite – June 2010 (Red Deer)

The following topics are being considered for Future (2010/11) Seminar Topics:

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- Preliminary & Primary Wastewater Treatment Processes
- Infrastructure Deficits, Inflation & Costs
- Lab Compliance -Pharmaceuticals
- Problem Solving Case Studies
- **Cross Connection Control**

### CCC Issues

- National Committee Update (for discussion during meetings)
- Invite CCC committee member to take part in education planning (WCS AWWA Education Committee or Alberta Provincial Council)
- Creation / Development of a member certification database (for discussion)
- Development of long distance training tools (for discussion)
- Manual updates and distribution: maintenance of and frequency
- Feedback from CCC committee re:
  - Aside from CCC sessions incorporated into Conference technical session, how else could conference be tailored to suit CCC?
- CCC committee is welcome to put on their own specialty conference / networking nights, etc. if they are not getting benefit of the WCW Conference or WCS AWWA organized events.
- The board is very happy about the success of the CCC committee and manual

### Additional Comments

- Would CCC committee be interested in participating the development of a "Backflow Prevention" or similar type article in the magazine (in addition to the Chairs summary report).
- This article could also serve as an awareness article re the importance of CCC programs and outcomes when these programs are ignored.

Submitted by

*Ryan Roberts, P.Eng., PMP*

## **Manufacturers/Agents**

**Conbraco Industries/Apollo Valves, Canada**

**Cooper**

### **New Products**

4A Series ½" –2" DC/RP Low Lead, Light Weight

- American made Apollo Valve highest quality
- Captured Spring Cartridges
- Interchangeable Captured Spring Cartridges (except #1 RP Spring)
- Push in Relief Valve Seat
- Weight and Size Reduction
- New RP 4A engineered plastic Air Gap Drains
- All top mounted Test Cocks
- New design Apollo Ball Valve shutoffs (Stainless Handles Std)
- New Display Packaging
- Low lead versions will also be available

4A, 4AN 21/2" -8" Stainless Double Checks and Reduced Pressure Type Devices

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- Center stem guided Tri force checks
- Low pressure drop
- Valve setters available for 4AN Series
- Second check can be swiveled up to accommodate vertical install

3", 4", 8" available now, 2 1/2", 3" in three months

- -Plastic Air Gaps available for all RP's lightweight low cost

### Future Products

4A Series 10", 12" Large Body RP/DC Development is well underway.

- Similar to large stainless devices except in Ductile
- 12" will be a true 12" flow

### Company Changes

- New Hire – National Sales Manager Industrial Products Jim Todman
- Expanded facility, leased two more units
- Training facility finished with live test station
- Website upgraded
- Industrial products now to be distributed through Apollo Canada. Commercial reps have access to all Apollo Products
- Reliable Marketing Service Industrial rep terminated
- New Rep Ottawa Region D&M Mechanical Sales
- -Conbraco has extended their warranty to Five years on all American made products

*Jeff Cooper*

General Manager

Conbraco, Industries Canada

### Watts

#### Submitted

**Wilson Not**

### Zurn/Wilkins

**Dyer**

Wilkins has continued with the approvals of no lead backflow products and now offer the following models approved by CSA

350 XL	Double check Valve	¾" – 10"
450XL	2 ½" – 8"	
950XLT2	1 ¼" – 2"	
375XL	Reduced Pressure	¾" – 8 "
475XL	2 ½" – 8"	
975XL2	½" – 2"	
975XL2	c/w Monitor switch	¾" – 2"
975XL2U	c/w Union connection	¾" – 2"
975XL2V	horizontal/vertical flow up	¾", 1"
460XL	Spill resistant V/B	3/8"-1"
720AXL	Pressure V/B	½"-2"

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A specification guide for lead free products has been enclosed.

### **New Products**

- Model 350 AR Replacement Double Check Valve for retrofit applications , 2 ½" -10" , which includes a grooved spool piece connected to the shut-off valve .
- Model 950 XLTDA - 2" Double Check Detector c/w OSY Gate Valves
- Model 950 XLTDA BF -2" Double Check Detector c/w Butterfly shut –off valves
- Quick Test Fitting –to facilitate backflow testing without having to use wrenches or Teflon tape saving time and material for the tester

Respectfully Submitted

*Doug Dyer*

Product Manager

Zurn/Wilkins



# Specification Guide - Wilkins Lead Free Products

## Cross Reference

Backflow Preventer Product Description	Size Range	Wilkins		Watts	Febco
		Standard Product Part Number	No-Lead Product Part Number †	Standard Product Part Number	Standard Product Part Number
Reduced Pressure Principle Backflow Assembly (ASSE 1013)	1/4" - 2"	975XL	975XL2	009, 919	825Y,860
Reduced Pressure Principle Backflow Assembly (ASSE 1013)	3/4" - 2"	375	375XL	009, 919	825Y,860
Reduced Pressure Principle Backflow Assembly (ASSE 1013)	2-1/2" - 10"	375	375XL	009(2-1/2", 3"), 994, 995, 957	860, 867
Reduced Pressure Principle Backflow Assembly (ASSE 1013)	2-1/2" - 10"	375A	375AXL	009(2-1/2", 3"), 994, 995, 957	860, 867
Reduced Pressure Principle Backflow Assembly (ASSE 1013)	2-1/2" - 10"	475	475XL	N995	880
Double Check Valve Assembly (ASSE 1015)	3/4" - 2"	950XL	950XLT2	007QT, 775, 719	805Y, 850
Double Check Valve Assembly (ASSE 1015)	3/4" - 2"	950XLT	950XLT2	007QT, 775, 719	805Y, 850
Double Check Valve Assembly (ASSE 1015)	3/4" - 2"	350	350XL	007QT, 775, 719	805Y, 851
Double Check Valve Assembly (ASSE 1015)	2-1/2" - 12"	350	350XL	007(2-1/2", 3"), 774, 774X, 775, 757a	850, 857
Double Check Valve Assembly (ASSE 1015)	2-1/2" - 10"	350A	350AXL	007(2-1/2", 3"), 774, 774X, 775, 757a	850, 858
Double Check Valve Assembly (ASSE 1015)	2-1/2" - 10"	450	450XL	N775	870
Pressure Vacuum Breaker (ASSE 1020)	1/2" - 2"	720A	720AXL	800M4QT	765, 765U
Pressure Vacuum Breaker (ASSE 1020)	1/2" - 1"	420	720AXL	800M4QT	765, 767RF
Spill Resistant Pressure Vacuum Breaker (ASSE 1056)	3/8" - 1"	460	460XL	008	-
Dual Check Valves (ASSE 1024)	1/4" - 1"	700	700XL	7,7C, Cu7	810, 510
Dual Check Valves (ASSE 1024)	3/4" - 1"	705	705*	7,7C, Cu8	810, 511
Dual Check w/vent for carbonated beverage machine (ASSE 1022)	3/8"	740	740*	SD-3, 9BD	-
Single Check Valve	1/4" - 4"	40XL	40XL*	600	-



## Cross Reference

Pressure Regulator Product Description	Size Range	Wilkins		Watts	Conbraco
		Standard Product Part Number	No-Lead Product Part Number †	Standard Product Part Number	Standard Product Part Number
Pressure Reducing Valve (ASSE 1003)	1/2" - 2"	BR4	NR3XL	N35BU, N45BU, N55BU	36C-U
Pressure Reducing Valve (ASSE 1003)	1/2" - 2"	BR4DU	NR3XLDU	N35BDU, N45BDU, N55BDU	36C-U2T
Pressure Reducing Valve (ASSE 1003)	1/2" - 2"	NR3	NR3XL	N35BU, N45BU, N55BU	36C-U
Pressure Reducing Valve (ASSE 1003)	1/2" - 2"	NR3DU	NR3XLDU	N35BDU, N45BDU, N55BDU	36C-U2T
Pressure Reducing Valve (ASSE 1003)	3/4" - 1"	70	70XL	-	36-100
Pressure Reducing Valve (ASSE 1003)	3/4" - 1"	70DU	70XLDU	-	36-400
Pressure Reducing Valve (ASSE 1003)	1/2" - 3"	500	500XL	223, N223B	36H
Pressure Reducing Valve (ASSE 1003)	1/2" - 3"	500YSBR	500XLYSBR	-	-
Pressure Reducing Valve (ASSE 1003)	2" - 3"	500FC	500XLFC	N223F (3" ONLY)	-
Pressure Reducing Valve (ASSE 1003)	1/2" - 2"	600	600XL	U5B, 25AUB	-



## Cross Reference

Thermostatic Mixing Valve Product Description	Size Range	Wilkins		Watts	Powers
		Standard Product Part Number	No-Lead Product Part Number †	Standard Product Part Number	Standard Product Part Number
Thermostatic Mixing Valve	3/8" - 1"	ZW1017	ZW1017XL	1170-US	490-J000
Thermostatic Mixing Valve	3/8" - 1"	ZW1070	ZW1070XL	MMV-US	480-3/8
Thermostatic Mixing Valve	3/8"	ZW3870T ZW3870T-4P	ZW3870XLT ZW3870XLT-4P	USG	E-480



## Wilkins

Misc Plumbing Product Description	Size Range	Standard Product Part Number	No-Lead Product Part Number †
Wye Strainer	1/2" - 3"	S	SXL
Wye Strainer	1/2" - 3"	YB	SXL
Dielectric Union	1/2" - 2"	DU	DUXL
Dielectric Union	1/2" - 3"	DUC	DUXLC
Dielectric Union	1/2" - 3/4"	DUM	DUXLM
Ball Valve	3/8" - 2"	850, 850T	850XL, 850TXL



**WILKINS**  
a ZURN company

Updated July 28, 2009

Customer Service Representatives are available Monday through Friday 5:30 am to 5:00 pm PST.  
Call 877-222-5356 or 805-226-6297,  
info@zurwilkins.com or visit us online at www.zurn.com

† CAB1953 and VT ACT193 No-Lead Law Compliant

\* Product was already lead free or components were converted to lead free under the existing model number.

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## ***Sub Committee Reports***

### **Education**

**Wigmore**

#### **Vision Statement**

We will protect Canadian potable water/drinking water systems from contamination through cross connection control programs.

#### **Mission Statement**

Our mission is to promote the advancement of technology, knowledge, and skills for the implementation of uniform cross connection control programs, to ensure safe potable/drinking water in Canada.

At last year's Annual Meeting, the Education Subcommittee met one evening to lay out the process for creating and handling the National Tester's Exam Bank. As a result of the meeting, we developed the National Exam Bank Policy and the National Exam Bank Protocol, both of which are attached.

Our committee members were very active again this past year in promoting the awareness of Cross Connection. In late September, I attended the WCWWA Annual Conference in Winnipeg Doug Peters, Gary Coons, Mike Zilinski, and Dan Larson. In addition to manning a booth at the Trade Show, Dan Larson, Gary Coons, Renee Grosselle (City of Winnipeg) and I presented papers on the various aspects of Cross Connection Control. Doug Peters and I attended the WCS Education Committee meeting and have since talked to Ryan Roberts about attending an Alberta Provincial Council meeting to discuss putting on a Cross Connection Control seminar for them. We hope to meet this coming June.

Over the past year I have discussed the concept of distance delivery education for Cross Connection Control Testers with various members of the Education and Cross Connection communities. People generally agreed that the theory portion of the training could be successfully delivered using online educational tools such as Blackboard or Moodle. The practical portion of the training would still need to be done at an accredited training facility, as would the theory and practical examinations. Since our meeting last spring, I have lost contact with the company that was offering an online testing simulator, but having seen the value of such a tool, I'm sure we could have something built to meet our needs.

There are benefits for Testers, institutions, and our Section in pursuing distance delivery. For Testers, the benefits would be less time away from home or work. For those who live far away from a training facility, living expenses for a 4 or 5 day course could be a serious hardship, compared to the living expenses for the 1 or 2 nights required for the practical and theory exams. For the institutions, they would likely see an increase in enrolment; the theory being that if we make the training more accessible, more students will take the training. Finally, for the Section, we would have a warm fuzzy feeling that we were able to advance the cause of Cross Connection Control. Oh, and having a product we can market across Canada; that wouldn't hurt the bottom line either.

So where do we go from here? If this is something the Committee is interested in pursuing, we will need some sort of resolution or motion to get the ball rolling. The Education Subcommittee can provide the terms of reference and oversee the general direction of the project, but we will require administrative support to put together start-up and operating budgets and to handle the day-to-day operations.

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I would ask that you give this your consideration, as I'd really appreciate hearing your thoughts at the spring meeting.

Respectfully submitted,

*Dean Wigmore*

Education Chair, WCS AWWA CCC

### National Exam Protocol

The purpose of this document is to describe the protocol to be used in the use, storage and handling of the National Tester's Certificate Exam.

**Exam Development:** The Exam shall be developed by one of the WCS Certification Officers using the National Tester's Certificate Exam Bank. The Exam questions shall be distributed as follows:

1. Backflow preventers – 23 questions
2. Definitions & Identification – 10 questions
3. Hazards – 16 questions
4. Installation – 10 questions
5. Testing – 23 questions
6. Troubleshooting – 8 questions
7. Regional Questions – 10 questions

The Regional Questions may be questions submitted for consideration to the Certification Officer by anyone concerned with Cross Connection Control (e.g. Educators, Purveyors, Inspectors, Contractors, etc.). If desired, the Regional Questions may be drawn from the National Exam Bank. The Regional Questions are at the sole discretion of the Certification Officer

**Exam Handling:** The Exam shall be kept secure at all times. The Exam shall only be in the possession of the Certification Officer, the Instructor, or the delivery company. The Exam shall only be used for the purpose of qualifying students as Certified Testers, and may not be used for reference, review or any other purpose either before or after administering the Exam.

#### Procedure:

- Instructor requests the appropriate number of exams from the Certification Officer.
- Certification Officer sends the requested number of Exams to the instructor along with an answer key for the Exams.
- Instructor invigilates the Exam and marks it.
  - Students are informed of the mark they receive.
  - Students may not review the Exam.
- The Instructor will ensure that the Exam and all materials used for the Exam, including the answer sheets, scrap paper, etc. are collected after the exam and returned to the Certification Officer.
- The Certification Officer will retain the answer sheets for a minimum of three months, after which they will be destroyed in a confidential manner.
- The Certification Officer will review the returned Exams to ensure that they are all accounted for and have not been altered or damaged (if they are to be reused).
- The Certification Officer will destroy any other returned materials in a confidential manner.

In the event that the Certification Officer is instructing a class, the Officer shall assume the role of the Instructor, and a Certification Officer from another Province shall be used. The Instructor C.O. can supply a list of questions for the Regional section of the Exam or may request that the questions be drawn from the National Exam.

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### Western Canada Section – AWWA

#### National Tester's Exam Bank Policy

The purpose of this document is to describe the protocol to be used in the use, storage and handling of the National Tester's Certificate Exam Bank.

**Storage and Handling:** The Certification Officers of Alberta, Saskatchewan, and Manitoba, as well as the Executive Director of the WCS-AWWA are the only persons that may be in possession of the National Exam Bank.

**Using the Exam Bank:** The Exam Bank is to be used exclusively to develop the National Tester's Certification Exam.

DRAFT

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## **CCC Manual Updates**

- The English translation of the Chapter 2 content used in Quebec was received from Reseau Environment and included in the current edition of the manual.
- Editorial changes were made to the section contact information.
- Approved changes from the 2009 minutes were submitted.
- Updated content was sent to all committee members.

## ***Regional Reports***

### **Alberta Municipal Affairs**

**Tomuschat**

Alberta Municipal Affairs is still vigorously promoting the Cross Connection Control Program across Alberta. However, getting outside larger communities is a challenge to get qualified testers to test backflow preventers both when initially installed and annually thereafter.

We are also looking at plumbing products that are not approved or have forged labels on either the packaging or on the product. CSA is actively pursuing miss labeled devices. Contact Kent Pengelly of CSA at (416) 747-4262 or e-mail at kent.pengelly@csagroup.org if you think that the stamp of approval maybe forged.

We are also concerned with the OSB "Fill & Drain" bathtub waste and overflow fittings which has a water fill fitting built into its design. This Fill & Drain fitting is only approved to the CSA B125.2 Plumbing Waste Fitting Standard. There is a water fill fitting attached to the overflow but it is below the flood level rim of the bathtub. CSA has not approved this fitting to the B125.1 Standard for connection to potable water.

*Roland Tomuschat*

### **ATAP Infrastructure Management**

**Coons**

Firstly I would like to report that I will not be able to join you at this year's committee meeting mainly due to the fact that we were unable to develop any clients in the Cross Connection Control area in Saskatchewan or elsewhere. We are still committed to educating and providing awareness to Saskatchewan communities in their implementation and development of Cross Connection Control programs but it will now be carried out on an as requested basis with Associated Engineering.

To that end we are still committed to being active in the functions the WCS AWWA Cross Connection Control Committee but our attendance at the annual meeting will be dependant on developing cliental in order to justify the expense.

Over the past year we have been working with Saskatchewan Environment staff on the development of a Cross Connection Control and Backflow Prevention Programming guidance document.

A guidance document on cross connection control and backflow prevention programming was submitted on behalf of the WCS AWWA CCCC, to Saskatchewan Environment for their consideration. It has been reviewed and received their approval and has been posted on their SaskH2o.ca web site, as of February 2010, as a guideline but not a mandatory requirement. It is posted on the following site:

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<http://www.saskh2o.ca/DWBinder/EPB422CrossConnectionControlBackflowPreventionProgramGuidelines.pdf>

I would like thank all the members of the committee that helped make this happen and hopefully it is one more step in preventing cross connections in Saskatchewan, Western Canada and Canada.

Thank you for your consideration of our thoughts in regards to this critical water quality and public protection issue and I wish you all a successful meeting.

Respectfully submitted,



*Gary Coons*

Project Coordinator

Associated Engineering

### Calgary

### Green

The City of Calgary would like to introduce guest, Mike V. Sayers, to the WCS AWWA Cross Connection control Committee. Mike has been employed with Water Services' CCC Program as an Inspector since 2003 and has expressed an interest in this Committee. Mike has 20 plus years experience in the Mechanical Trades Industry as a Journeymen Plumber and seven years as a cross connection control inspector. His background in the trades and knowledge in cross connections have been very valuable to Calgary's Cross Connection Control Program.

To date our data management record system monitors 46,341 cross connection control devices, and the testing of 35,324 backflow preventers which categorize as 30,547 annual, 71 bi-annual, and 4,706 tri-annual tests. The remaining 11,017 internal devices are recorded but not tracked by our testing program.

Our CCC Inspectors performed 1,344 inspections on the following:

- new construction - premise isolation devices only (domestic, fire, irrigation systems);
- internal door to door area inspections on existing residential, commercial and industrial facilities;
- water hauling vehicles for both the Hydrant Use Program & Bulk Water Stations;
- Water quality emergencies.

Our regional report last year noted our struggle with the interface that provides our CCC Records Management Database System (WAM) with the responsible party updates or current customer mailing information. Accurate customer mailing information is critical to any (CCC) testing program that tracks and sends out testing notifications or letters. Information Technology (IT) staff have been working on a customer database interface for the past two years, and have scheduled the implementation in June of 2010.

Thank you for your time and if you have any questions please contact me at (403) 268-2706 or email at [jim.green@gov.calgary.ab.ca](mailto:jim.green@gov.calgary.ab.ca)

Respectively submitted,

*Jim Green, Member - Purveyor*

### EPCOR

### Marple

Our Premises Isolation, Cross Connection Control Program continues to grow with the inspection of buildings, documentation of findings and the communicating of CCC deficiencies to customers, contractors and testers. Many property management companies now understand that their

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buildings require backflow prevention protection by the installation of BFP assemblies. The CCC office continues to support other EPCOR operations in Alberta and British Columbia with their respective CCC programs. We have noticed an increased interest from plumbers and test companies wanting to be more actively involved with the program as well. Although there is no know official CCC program in Edmonton's surrounding communities we continue to receive test reports from the greater capital region and as far away as the Peace River region which is an indication that CCC prevention awareness is being communicated to other jurisdictions.

The Edmonton CCC Office consists of a Manager, an inspector and office assistant. The database program that we use is XC2 Software. We are investigating the XC2 DataSynch module for facility inspections hoping to minimize the duplication of data inputs.

<b>CCC Statistics:</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>
New Facilities in Database	949	950	1215
Active Devices in Database	3,120	4,905	6,946
No. of Inspections	773	1,127	1,784
Devices Tested	2,281	4,309	4,856
Letters Sent to Owners/Customers	1,251	2,878	3014
Approved Test Companies Listed	76	91	104
Certified Testers	136	180	199
Certified Test Kits	96	129	148

We have provided CCC awareness sessions to the NAIT water and wastewater class and EPCOR staff that operate and maintain the distribution system. Training of operations staff on CCC facility inspections is also undertaken. For example, Red Deer County staff have been trained on what to look for and document when carrying out Premise Isolation CCC inspections.

A basic Power Point CCC presentation was provided to Doug to modify for the Western Canada 2010 fall CCC seminars.

We continue to have periodic meetings with NAIT, the City of Edmonton-Plumbing Inspection Branch, Alberta Municipal Affairs, and other CCC stakeholders to discuss and address local CCC issues. We also attend meetings of the Mechanical Contractors Association of Alberta held in Edmonton.

If you have further questions on EPCOR's CCC programs please me at 780-412-6888

or e-mail: [jmarple@epcor.ca](mailto:jmarple@epcor.ca).

Thank you,

*John Marple*

### **Red Deer**

### **Wardner**

#### **The City of Red Deer Cross Connection Control Update for the 2010, WCS AWWA Cross Connection Control Committee, Annual Meeting.**

The City of Red Deer had 2,324 backflow devices installed and operational as of December 31, 2009. There were 105 new devices installed in 2009. A total of 389 test reports were received in 2009. We have continued co-operation between the builders, plumbing contractors and The City of Red Deer in ensuring compliance. Local building contractors are aware our requirements and are installing devices in both new construction and retrofit scenarios. We experienced a signification slow down in construction during 2009, but the pace is now picking up.

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A Microsoft Access data base that houses all of our Development and Permit information is used to track the devices installed within the City. This program has enabled us to access and review our files in a much simpler manner.

A section of our Utility Bylaw lays out the requirements for the protection of our Water Distribution system by means of Cross Connection and Backflow control. The City of Red Deer implemented its Cross Connection Control Program in the following stages:

### **Institutional July 1993**

Buildings identified as Institutional are in full compliance with the Utility Bylaw. Institutional buildings include schools and hospitals.

### **Industrial July 1995**

Buildings identified as Industrial are in compliance with the Utility Bylaw and include manufacturing and process control. All new buildings are inspected when the final plumbing or gas inspection is required.

### **Commercial July 1997**

Commercial buildings constructed since July, 1997 are in compliance of the Utility Bylaw. We are surveying these buildings to ensure appropriate compliance.

### **High Density July 2002**

High Density buildings constructed since 1997 are in compliance of the Utility Bylaw. We are surveying these buildings to ensure appropriate compliance.

### **Residential**

Residential homes constructed since 1997 have had a check valve installed at the water meter.

All City of Red Deer owned buildings and facilities are in compliance with our Utility Bylaw.

The Inspections and Licensing section is responsible for the day to operation of our Cross Connection and Backflow program. We currently have thirteen Safety Codes Officers who ensure adequate protection is provided for each application. In addition, every water service in Red Deer is metered. Our water meter installers check for backflow devices prior to the installation of all new water meters.

*Ronald G. Wardner*

Construction and Maintenance Superintendent  
The City of Red Deer

### **Regina**

### **Lang**

In the past year it became clear that a 2nd full time position was required for our program. Therefore steps were taken to address this requirement.

I am pleased to inform the committee that we are in the process of recruiting a person for the required position.

I believe this action will allow the City of Regina to continue to improve its mission of protecting the potable water supply for our community.

The City of Regina has continued to work on updating our Water Bylaw. This update will include a re-evaluation of our cross connection control program to include fines for non-compliance.

The City of Regina to date has inspected 2044 existing facilities and reviewed 1036 new building permits. We are currently tracking the annual testing of 3525 assemblies, 70 licensed testers using 47 test kits.

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We are also currently looking into various software options to help us better manage the reporting and testing requirements of the program.

As the Cross Connection Control Coordinator/Inspector I am continuing to provide public information sessions such as displays at local hardware retailers. Radio and print ads are also used to make the public aware of what a cross connection is and what needs to be done to avoid them.

I am pleased to be a member of the WCS AWWA Cross Connection Control Committee and helping each other to address cross connection control challenges.

Respectfully submitted,



Kevin Lang

Coordinator/Inspector

Cross Connection Control Program

Klang@regina.ca

### Sask Water

### Moore-Guillaume

SaskWater is the province's Crown water utility service provider. The corporation's lines of business include potable and non-potable water supply, wastewater treatment and project management and certified operations and maintenance. To deliver these products, SaskWater designs, builds, owns and operates transmission, regional and stand-alone water and wastewater systems that meet or exceed regulatory requirements. SaskWater also provides certified operations and maintenance services to customer-owned systems.

SaskWater's focus is the sourcing and treatment of water for supply to communities; and the treatment and disposal of wastewater. The corporation's municipal customers own and manage their local distribution systems and the relationship with their residents. SaskWater essentially provides wholesale water delivery service to the community, who then deliver service to its residents

SaskWater has been installing backflow devices on all of its domestic customers since the mid 80s. All of SaskWater's field staff and directly involved management are certified cross connection control specialists. The corporation currently has 24 qualified cross connection control testers on staff who have been trained at Saskatoon Siast Kelsey Campus. Those new to SaskWater without this training will receive the training as soon as available.

SaskWater currently has approximately 600 cross connection control devices, of various types, installed throughout the province. SaskWater has implemented an Asset Management Program and will be utilizing this program by inputting all of its cross connection control devices to ensure proper record keeping and annual testing. SaskWater also coordinates an INAC training program in which we have three trainers that work with 39 first nation reserves. The trainers have been recently certified as testers so they are able to provide recommendations on the reserves and be able to test the devices if they were to be installed at the locations.

The corporation is going to be more pro-active with its cross connection control program to ensure it is providing safe potable water. We have recently been working on the corporation's Strategic Plan in which cross connection control falls under many categories to be focused on in the next five years.

Respectfully submitted:

*Rynette Moore-Guillaume P.Eng, A.Sc.T*

Manager, Special Services, Operations & Engineering

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### **Saskatoon**

**Fogen**

The following is a brief summary of the activities related to the Cross Connection Control Program for the City of Saskatoon

- With the retirement of Ken Johnston in November 2009, I assumed the position of Senior Cross Connection Control Inspector. The subsequent hiring of Greg Krawchuk as the Cross Connection Control Inspector will greatly help in the backlog of inspections and site surveys.
- An entry level course was put on at SAOAT in January 2010 with seven new testers graduating from the class. As well, we had a re-certification course in February 2010, with seven testers attending.
- The city of Saskatoon had a total of 487 new devices installed in 2009. 95% of the assemblies that were tested passed.
- It has been brought to my attention that the contractors are wondering in there is a program online to streamline the testing format.

Respectively submitted,

*Randy M. Fogen*

Senior Cross Connection Control Inspector

### **Winnipeg**

**Zilinski**

The City of Winnipeg Cross Connection Control Inspection Program for 2009

- Premise Inspections – 1,331
- Cross Connections Detected – 1,298
- Testable Devices Installed – 579
- Non-Testable Devices Installed – 720
- Plans Examinations – 156
- Total Number of Testable Devices – 11,611

The City of Winnipeg Water and Waste Department has completed its state of the art Water Treatment Plant. In mid-December the upgraded water began supplying the City of Winnipeg water distribution system. It was noted it would take approximately three (3) months for the flow in the water mains to upgrade the quality of water to the Water Treatment Plant Standards. Backflow prevention plays a significant role in maintaining the high expectations of keeping this water system free from contamination.

We had the opportunity to head up several information seminars with engineering firms this year. With new personnel becoming part of the design teams it was a great way of keeping on the same page as our Cross Connection Control Division. We also had a meeting with the Department of Labour Boiler Inspectors, anytime a boiler system does not have any backflow protection they are contacting us. When it comes to safety it's good to have other divisions on board and connected.

Our City of Winnipeg - Water & Waste Department Engineering Division is also getting the Cross Connection Division involved in reviewing requirements on reclaimed water systems. At the present time, the City is researching regulations that should be put into place in order to ensure these new systems will not affect potable water systems.

Our Department has also been able to budget for one more Cross Connection Inspector. The bulletin went out in spring, 2010 and we have one more Inspector on board.

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*Mike Zilinski*

Senior Cross Connection Inspector

### **Educator**

#### **Medicine Hat College**

**Wilson**

Medicine Hat College offered and ran a CCC Specialist Tester/Refresher class in April of 2009. All participants successfully completed the Full and Refresher Class. As I have been on a personal leave this year, the next set of CCC classes is now planned for this August 2010.

The City of Medicine Hat Cross Connection Control program is very active. Cross Connection Control backflow device installations are in full swing and regular inspections of commercial/industrial buildings are being carried out.

The Medicine Hat College has been working with the City of Medicine Hat CCC inspection staff providing training as required.

Depending on demand, the Medicine Hat College offers a combination of full and refresher CCC Specialist tester training at least once a year.

#### **NAIT**

**Peters**

NAITs Cross connection control program has enjoyed another good year, with the number of competent testers increasing each year. We had 64 new testers and another 12 re-certifications.

We have added a new instructor, Nick Doyon to the cross connection program and in the process of having another wanting to write for his instructors' exam. My hope is to have one of these people as NAITs' representative in the future. These new people bring a renewed enthusiasm to the class room along with a fresh set of eyes and ideas to the lab.

We are currently using exams from our certification officer in keeping with protecting exam integrity and continuing to update our lab with the replacement of 12 new devices and options for more.

Respectfully

*Doug Peters*

#### **Red Deer College**

**Wigmore**

Red Deer College ran a Cross Connection Control Tester's Certification Course this spring with eight students, all of whom successfully completed their training. We have investigated offering a recertification course, but since the City of Red Deer does not require testers to recertify if they are actively testing, we will not be offering the course in the foreseeable future.

In late September, I attended the WCWWA Annual Conference in Winnipeg with Doug Peters, Gary Coons, Mike Zilinski, and Dan Larson. In addition to manning a booth at the Trade Show, Dan Larson, Gary Coons, Renee Grosselle and I presented papers on the various aspects of Cross Connection Control. Doug Peters and I attended the WCS Education Committee meeting and have since talked to Ryan Roberts about attending an Alberta Provincial Council meeting to discuss putting on a Cross Connection Control seminar for them. We hope to meet this coming June.

Respectfully Submitted,

*Dean Wigmore*

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### Red River College

Larson

Red River College conducted two in house Cross Connection Control Specialists Courses this year, one daytime course and one evening course. . The daytime class (35 hours) was held from March 22 to 26, 2010 had 10 students, four from Northern Ontario, and one from Brandon, Manitoba. Nine students were successful.

The second course was an evening class that ran two nights per week for five weeks totaling 40 hours. This class had 11 students and ran from April 7 to May 10, 2010. The results of this class were 10 out of 11 passing.

The WCW annual conference was held in Winnipeg last year and there was a block set aside for cross connection awareness. Presenters were Renee Grosselle, City of Winnipeg; Gary Coons, ATAP Infrastructure Management Systems; Dean Wigmore, Red Deer College; and me, from Red River College. Thanks to all presenters and congrats for a job well done.

I was also asked to do, and presented, a cross connection awareness presentation at the MWWA conference in Winnipeg on March 15, 2010. This was attended by approximately 150 people.

A meeting was held in February at Red River College with Walter Petik, Dave Sinclair and Mike Zilinski from the City of Winnipeg to discuss the implementation of tester's recertification. It was concluded that we run enough courses to recertify one fifth of the approximately 400+ testers per year, thus after we recertify everyone, the first ones would then require recertification again. It was decided that the course be 16 hours on a trial basis because some testers have not been in class for quite some time and could be unaware of newer devices, technologies and procedures.

Upon submission and review of other college's pricing, it was decided to increase our tester's course to be more in line with course costs across the country. This would also leave room to charge a fair price for our recertification course.

Respectfully submitted,  
*Dan Larson*

### SAIT

Wagner

The Southern Alberta Institute of Technology has provided five certification classes this past year 2009 – 2010 and have also provided five Recertification courses as well.

There is the possibility of conducting a final Cross Connection Specialist Course at the end of June, or early July.

*Gary Wagner*

### SIAS

Mireau

SIAS Kelsey Campus

- Kelsey Campus has completed two Specialist courses with 13 successful students.
- We have had one re-certification course and had 8 successful testers.
- Thanks to the suppliers, Watts, Apollo, and Zurn/Wilkins for information, literature, and devices. I pass this on to my apprenticeship students as well as my specialist students.

*Lorne Mireau*

Instructor, Kelsey Campus

SIAS Wascana Campus

- Wascana Campus has completed One Specialist course with 8 successful testers.

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- Two re-certification courses were given with 19 successful testers.

*Darrell Brown*

Instructor, Wascana Campus

**VorTeq Cal  
Submitted**

**Petik Not**

**BCIT**

**Yoo**

Since the meeting report of 2009, BCIT has kept up with the busy task of training Cross Connection Control testers in formal levels of piping apprenticeship (plumbing and pipefitting) as well as for persons working in their prospective fields with potable water such as water control technicians, lawn irrigation technicians, fire protection technicians, public health inspection representatives and refrigeration journey people and apprentices.

2010 also saw the start of training for recertification of existing testers as well. To date we have run four recertification classes of sixteen students each. We have found that many of the testers attending recertification training classes are still using test procedures which have been legally obsolete for some time, perhaps decades. Being experienced testers these classes are often focusing in on breaking of old habits and information which the tester assumes to be currently accepted. We offer the recertification course over 12 hours. The training is focused on current accepted test procedures and information specific to the Canadian AWWA manual for cross connection control. At BCIT we also teach the tester current procedures on the Pressure Vacuum Breaker and Spill Resistant Type Pressure Vacuum Breaker even though these two testable and approved assemblies are not required as part of the practical component as set by the BCWWA.

We have made our Cross Connection Control facilities available for current testers who wish to challenge the recertification evaluation without any formal training. The results from these testers have been quite poor as so many of these individuals are so accustomed to previous procedures and information from the Pacific Northwest AWWA CCC manual. We encourage these individuals to attend some level of formal training.

To promote and educate the public and industry about the subject of Cross Connection Control we at BCIT also provide many training and information sessions designed specifically to a group of individuals working for the same employer such as the City of Vancouver Parksboard or our own BCIT Environmental Health students. Most of these courses would lead to certification or recertification for existing testers but many of these courses are also designed and to promote awareness and to educate about potable water conservation as well as protection.

The following are approximate numbers of BCIT trained CCC testers based on full classes of 16 students.

- Apprenticeship students – 144
- Part-time studies students – 96
- Recertification students – 64
- Approximate number of students trained – 300

Respectfully

*Richard Yoo*

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### **Certification Officers**

#### **Alberta**

#### **Wagner**

Province wide there where a total of 300 new Cross Connection Control Specialists for the period of 2009-2010. The total number of Re-certifications for 2009 and 2010 to date are 151.

- 2009: 169, recertifications 90
- 2010 to date: 131, recertifications 61

*Gary Wagner*

Alberta Certification Officer

#### **Saskatchewan**

#### **Mireau**

Since last year's meeting Saskatchewan has certified 21 new AWWA Cross Connection Control Specialists from courses in Saskatoon and Regina.

AWWA Cross Connection Control Re-certification classes were given in Saskatoon and Regina with 27 successful testers.

Thanks to Gary Wagner for his help with supplying me with and exam for my specialists course.

We are having similar problems with re-certification as other areas in that people who have not re-certified for more than 5 years apply at the school for the re-certification course. Are other areas making these people take the full course again? If the applicant has been testing regularly I have not worried about it. If he hasn't been testing I encourage the person to take the full course again.

Thanks to the committee members for the help and info.

*Lorne Mireau*

Saskatchewan Certification Officer

#### **Manitoba**

#### **Zilinski**

In 2009 there has been a total of 30 Specialists certified with the Province of Manitoba. Twenty testers took the course through Red River Community College and 10 received training through VorTeq Cal Education.

VorTeq Cal Education is a mobile teaching facility headed by long time teacher Walter Petik.

This year there have been several students from provinces, other than Manitoba, as well as communities surrounding the City of Winnipeg. It is always encouraging to see smaller municipalities on board with Cross Connection awareness.

*Mike Zilinski*

Senior Cross Connection Inspector

City of Winnipeg - Water & Waste Department