

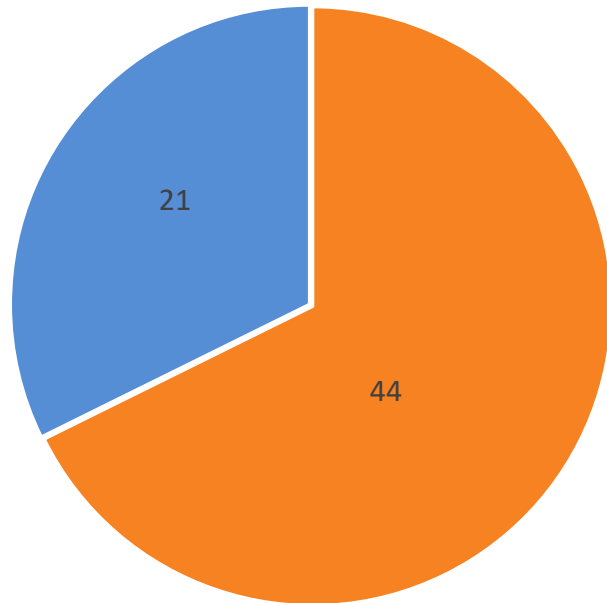
Actual Cost of Cross Connection Surveys (CCS)

| | High-rise Multi Residential | Low-rise Multi Residential | 6-8 Unit Multi Residential | Single Tenant Commercial | Multi Tenant Commercial |
|------------------------------|-----------------------------|----------------------------|----------------------------|--------------------------|-------------------------|
| Cross Connection Survey Cost | \$331.45 | \$198.51 | \$194.25 | 191.95 | \$311.35 |
| # of Unit(s) | 165.7 | 24.3 | 6.6 | 1 | 11.7 |
| Cost per Unit | \$2.22 | \$9.99 | \$31.19 | \$191.95 | \$30.21 |

- Represents 50 invoices from 17 Qualified Companies.

Cross Connection Control Programs (CCCP) in Ontario

Number of CCCP in Ontario by Type



■ Premise Isolation Program

■ Full Program

Premise Isolation Program

- BPD on water service to isolate the property from the municipal distribution system.
- Only protects municipal distribution system.

Full Program

- Backflow Prevention Device (BPD) on water service and at hazardous connection within internal plumbing system.
- Protects municipal distribution system and building occupants.

Minimum Standard



B64.10-17/B64.10.1-17

Selection and installation of backflow preventers/Maintenance and field testing of backflow preventers



Hazard Classifications

- **Minor** – any type of cross connection or potential cross-connection that involves a substance that constitutes only a nuisance and that results in a reduction in only the aesthetic qualities of the water.
 - Beverage dispensing equipment (no carbonator)
 - Residential premises
- **Moderate** – any minor hazard connections that has a low probability of becoming a severe hazard.
 - In-ground lawn irrigation
 - Boiler system with no chemical additives
- **Severe** – any type of cross connection or potential cross connection involving water that has additive or substances that, under any concentration, can create a danger to health
 - Detergent dispenser
 - Car Wash

Hazard Classifications

B64.10-17

Selection and installation of backflow preventers

Table B.2 (Continued)

| Type of building or facility | Degree of hazard |
|--|--------------------|
| Campsite with RV hook-ups or dump-stations | Severe |
| Carwash | Severe |
| Chemical plant | Severe |
| Church | Minor to moderate |
| College | Moderate |
| Commercial premises | Moderate to severe |
| Concrete plant | Severe |
| Dental office | Moderate |
| Dental surgery facility | Severe |
| Dock and marine facility | Severe |
| Dry cleaning plant | Severe |
| Duplex housing with shared service | Minor |
| Dye plant | Severe |
| Exhibition ground | Severe |
| Farm | Moderate to severe |
| Film processing facility | Severe |
| Fire station | Moderate to severe |

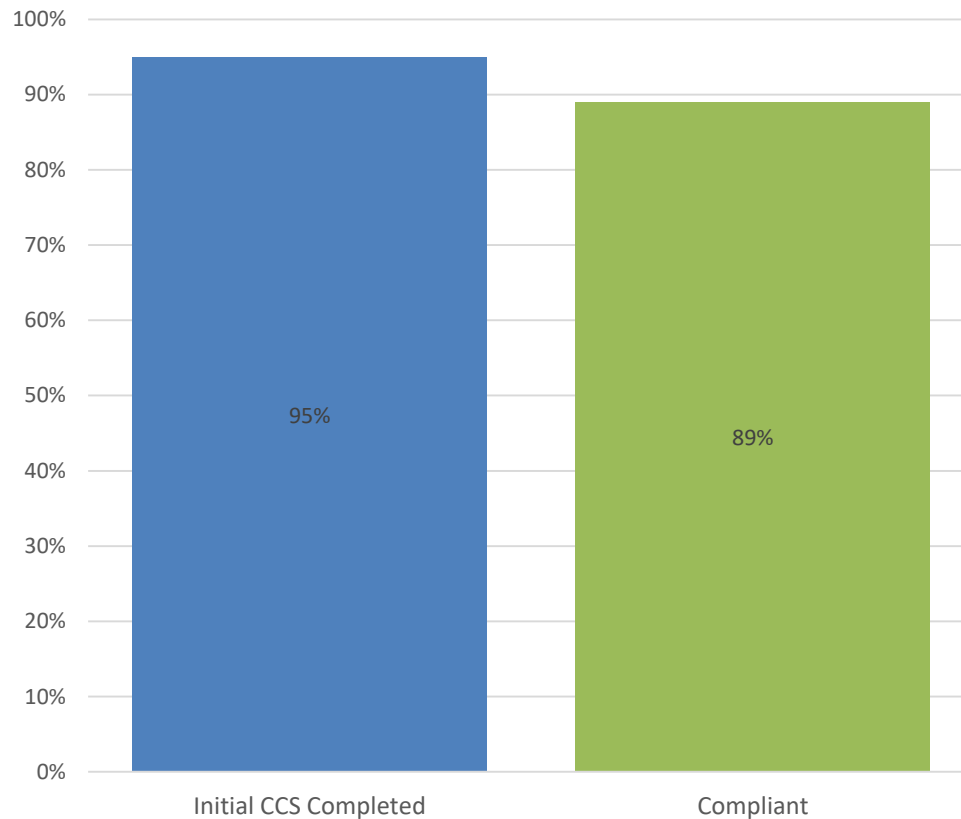
CCS Clarification

- Addition of “individual residential dwelling unit” as a defined term.
- Section 6.5 *An individual residential dwelling unit within an industrial, commercial, institutional, agricultural, multi-residential property is exempt from a cross connection survey unless a severe hazard is known and/or brought to the attention of the qualified person.*

Barrie's CCCP Status

2009-2017

8 years into implementation.



- 1,989 Properties incorporated in the program.
- 2,294 CCS have been completed and reviewed.
- 4,721 Backflow prevention devices are recorded and tested annually.