

Section 11. ANNUAL REPORT.

Drinking-Water System Number:	220008649
Drinking-Water System Name:	Crysler Drinking Water System
Drinking-Water System Owner:	Township of North Stormont
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1 to December 31, 2016

<p><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes [] No [x]</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [x] No []</p> <p>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> Available at the Township of North Stormont Office, 15 Union Street, Berwick, Ontario and on their website www.northstormont.ca </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <input style="width: 100px; height: 20px;" type="text"/></p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [] No []</p> <p>Number of Interested Authorities you report to: <input style="width: 100px; height: 20px;" type="text"/></p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [] No []</p>
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List all Drinking-Water Systems (if any), which receive all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
n/a	n/a

Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water?

Yes [] No [] N/A [x]

Indicate how you notified system users that your annual report is available, and is free of charge.

- Public access/notice via the web
- Public access/notice via Government Office
- Public access/notice via a newspaper
- Public access/notice via Public Request
- Public access/notice via a Public Library
- Public access/notice via other method _____

Describe your Drinking-Water System

The Crysler Drinking Water System consists of two wells, a drinking water treatment plant, an elevated storage tank and approximately 11 kilometers of distribution watermains. Primary treatment is achieved by ultraviolet disinfection and secondary treatment is achieved through the use of sodium hypochlorite.

List all water treatment chemicals used over this reporting period

Sodium hypochlorite was used at an average dosage rate of 2.11 mg/L.

Were any significant expenses incurred to?

- Install required equipment
- Repair required equipment
- Replace required equipment

Please provide a brief description and a breakdown of monetary expenses incurred

- Rebuilt 2 hydrants
- Purchased UV sensor
- Replaced UV bulbs
- Replaced chlorine analyzer at water plant
- Replaced exterior lighting at water plant
- Purchased chlorine pump rebuild kit
- Installed pressure switch tower alarm
- Repaired pump starter
- Performed electrical and instrumentation upgrades at water plant
- Raised and repaired valve boxes

Provide details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
n/a					

Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period.

	Number of Samples	Range of <i>E. coli</i> Results (min #)-(max #)	Range of Total Coliform Results (min #)-(max #)	Number of HPC Samples	Range of HPC Results (min #)-(max #)
Raw	104	0 - 0	0 - 2	n/a	n/a
Treated	52	0 - 0	0 - 0	52	0 - 79
Distribution	104	0 - 0	0 - 0	52	0 - 35

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

	Number of Grab Samples	Range of Results (min #)-(max #)
Turbidity	24	0.19 - 0.35 NTU
Chlorine	8760	0.54 - 2.36 mg/L

NOTE: For continuous monitors use 8760 as the number of samples.

Summary of additional testing and sampling carried out in accordance with the requirement of an approval, order or other legal instrument.

Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure
n/a				

Summary of Inorganic parameters tested during this reporting period or the most recent sample results

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	01/22/16	0.07	µg / L	No
Arsenic	01/22/16	<0.2	µg / L	No
Barium	01/22/16	81.6	µg / L	No
Boron	01/22/16	7	µg / L	No
Cadmium	01/22/16	0.004	µg / L	No
Chromium	01/22/16	<0.003	µg / L	No
*Lead	n/a	n/a	mg / L	No
Mercury	01/22/16	<0.01	µg / L	No
Selenium	01/22/16	0.08	µg / L	No
Sodium	01/10/12	7	mg / L	No
Uranium	01/22/16	2.14	µg / L	No
Fluoride	01/10/12	<0.10	mg / L	No
Nitrite	10/03/16	<0.003	mg / L	No
Nitrate	10/03/16	0.041	mg / L	No

*only for drinking water systems testing under Schedule 15.2; this includes large municipal non-residential systems, small municipal non-residential systems, non-municipal seasonal residential systems, large non-municipal non-residential systems, and small non-municipal non-residential systems.

Summary of lead testing under Schedule 15.1 during this reporting period

(applicable to the following drinking water systems; large municipal residential systems, small municipal residential systems, and non-municipal year-round residential systems)

Location Type	Number of Samples	Range of Lead Results (min#) – (max #)	Number of Exceedances
Plumbing	n/a	n/a	n/a
Distribution	2	0.03 - 0.03 µg / L	0

Summary of Organic parameters sampled during this reporting period or the most recent sample results

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	01/22/16	<0.02	µg / L	No
Atrazine + N-dealkylated metabolites	01/22/16	<0.01	µg / L	No
Azinphos-methyl	01/22/16	<0.05	µg / L	No
Benzene	01/22/16	<0.32	µg / L	No
Benzo(a)pyrene	01/22/16	<0.004	µg / L	No
Bromoxynil	01/22/16	<0.33	µg / L	No
Carbaryl	01/22/16	<0.05	µg / L	No
Carbofuran	01/22/16	<0.01	µg / L	No
Carbon Tetrachloride	01/22/16	<0.16	µg / L	No
Chlorpyrifos	01/22/16	<0.02	µg / L	No
Diazinon	01/22/16	<0.02	µg / L	No
Dicamba	01/22/16	<0.2	µg / L	No
1,2-Dichlorobenzene	01/22/16	<0.41	µg / L	No
1,4-Dichlorobenzene	01/22/16	<0.36	µg / L	No
1,1 Dichloroethylene (vinylidene chloride)	01/22/16	<0.33	µg / L	No
1,2-Dichloroethane	01/22/16	<0.35	µg / L	No
Dichloromethane	01/22/16	<0.35	µg / L	No
2,4-Dichlorophenol	01/22/16	<0.15	µg / L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	01/22/16	<0.19	µg / L	No
Diclofop-methyl	01/22/16	<0.4	µg / L	No
Dimethoate	01/22/16	<0.03	µg / L	No
Diquat	01/22/16	<1	µg / L	No
Diuron	01/22/16	<0.03	µg / L	No
Glyphosate	01/22/16	<1	µg / L	No
Malathion	01/22/16	<0.02	µg / L	No
2-Methyl-4-chlorophenoxy-acetic acid (MCPA)	01/22/16	<0.00012	µg / L	No
Metolachlor	01/22/16	<0.01	µg / L	No
Metribuzin	01/22/16	<0.02	µg / L	No
Monochlorobenzene	01/22/16	<0.3	µg / L	No
Paraquat	01/22/16	<1	µg / L	No
Pentachlorophenol	01/22/16	<0.15	µg / L	No
Phorate	01/22/16	<0.01	µg / L	No
Picloram	01/22/16	<1	µg / L	No
Polychlorinated Biphenyls(PCB)	01/22/16	<0.04	µg / L	No
Prometryne	01/22/16	<0.03	µg / L	No
Simazine	01/22/16	<0.01	µg / L	No
THM (NOTE: show latest annual average)	10/03/16	10.6	mg / L	No

Terbufos	01/22/16	<0.01	µg / L	No
Tetrachloroethylene	01/22/16	<0.35	µg / L	No
2,3,4,6-Tetrachlorophenol	01/22/16	<0.20	µg / L	No
Triallate	01/22/16	<0.01	µg / L	No
Trichloroethylene	01/22/16	<0.44	µg / L	No
2,4,6-Trichlorophenol	01/22/16	<0.25	µg / L	No
Trifluralin	01/22/16	<0.02	µg / L	No
Vinyl Chloride	01/22/16	<0.17	µg / L	No

List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.

Parameter	Result Value	Unit of Measure	Date of Sample
n/a			