

Drinking-Water Systems Regulation O. Reg. 170/03

Drinking-Water System Number:	210000728
Drinking-Water System Name:	Chesterville
Drinking-Water System Owner:	Township of North Dundas
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1 to December 31, 2011

<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 Dundas Office, 636 St. Lawrence Street, Winchester, Ontario and on their website www.northdundas.com </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

Groundwater is pumped from the source wells and sodium hypochlorite is added. From the wells it travels 3.7 kilometers through a feeder main to a reservoir/contact tank where sufficient time for disinfection is provided. As water is used throughout the distribution system, the water level in the elevated tank falls to a preset limit and a pump at the reservoir starts. The pump draws water from the reservoir/contact tank and refills the elevated tank.

List all water treatment chemicals used over this reporting period

Sodium hypochlorite was used at an average dosage rate of 2.02 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 8 fire hydrants
 Rebuilt High Lift Pump #1 at Reservoir
 Rebuilt pressure relief valve at Reservoir
 Replaced Well #6 chlorine analyzer
 Installed cathodic protection in distribution system
 Inspection of High Lift Pump #4 (fire pump)
 Seal/epoxy water tower pedestal

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> Or Fecal Results (min #)-(max #)	Range of Total Coliform Results (min #)-(max #)	Number of HPC Samples	Range of HPC Results (min #)-(max #)
Raw	186	0-1	0-1	n/a	n/a
Treated	156	0-0	0-0	52	0-6
Distribution	364	0-0	0-0	52	0-55

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	0.08-0.52 NTU
Chlorine	8760	0.61-2.54 mg/L
Fluoride	n/a	n/a

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	Minimum Sample Date	Maximum Sample Date	Minimum Value	Maximum Value	Unit of Measure	Exceedance
Antimony	02/03/2009	02/03/2009	<0.0001	<0.0001	mg / L	No
Arsenic	02/03/2009	02/03/2009	<0.001	<0.001	mg / L	No
Barium	02/03/2009	02/03/2009	0.13	0.13	mg / L	No
Boron	02/03/2009	02/03/2009	0.03	0.03	mg / L	No
Cadmium	02/03/2009	02/03/2009	<0.0001	<0.0001	mg / L	No
Chromium	02/03/2009	02/03/2009	0.002	0.002	mg / L	No
*Lead	n/a	n/a	n/a	n/a	mg / L	No
Mercury	02/03/2009	02/03/2009	<0.0001	<0.0001	mg / L	No
Selenium	02/03/2009	02/03/2009	<0.001	<0.001	mg / L	No
Sodium	01/11/2007	01/11/2007	6	6	mg / L	No
Uranium	02/03/2009	02/03/2009	<0.001	<0.001	mg / L	No
Fluoride	01/11/2007	01/11/2007	<0.10	<0.10	mg / L	No
Nitrite	07/04/2011	11/23/2011	<0.005	<0.10	mg / L	No
Nitrate	07/04/2011	01/10/2011	<0.013	0.105	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	n/a	n/a	n/a

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	02/03/2009	<0.5	µg / L	No
Aldicarb	02/03/2009	<5	µg / L	No
Aldrin + Dieldrin	02/03/2009	<0.012	µg / L	No
Atrazine + N-dealkylated metabolites	02/03/2009	<0.2	µg / L	No
Azinphos-methyl	02/03/2009	<2	µg / L	No
Bendiocarb	02/03/2009	<2	µg / L	No
Benzene	02/03/2009	<0.5	µg / L	No
Benzo(a)pyrene	02/03/2009	<0.01	µg / L	No
Bromoxynil	02/03/2009	<0.5	µg / L	No
Carbaryl	02/03/2009	<5	µg / L	No
Carbofuran	02/03/2009	<5	µg / L	No
Carbon Tetrachloride	02/03/2009	<0.5	µg / L	No
Chlordane (Total)	02/03/2009	<0.018	µg / L	No
Chlorpyrifos	02/03/2009	<1	µg / L	No
Cyanazine	02/03/2009	<1	µg / L	No
Diazinon	02/03/2009	<1	µg / L	No
Dicamba	02/03/2009	<1	µg / L	No
1,2-Dichlorobenzene	02/03/2009	<0.4	µg / L	No
1,4-Dichlorobenzene	02/03/2009	<0.4	µg / L	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	02/03/2009	<0.024	µg / L	No
1,2-Dichloroethane	02/03/2009	<0.5	µg / L	No
1,1-Dichloroethylene (vinylidene chloride)	02/03/2009	<0.5	µg / L	No
Dichloromethane	02/03/2009	<4.0	µg / L	No
2-4 Dichlorophenol	02/03/2009	<0.5	µg / L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	02/03/2009	<1	µg / L	No
Diclofop-methyl	02/03/2009	<0.9	µg / L	No
Dimethoate	02/03/2009	<2.5	µg / L	No
Dinoseb	02/03/2009	<1	µg / L	No
Diquat	02/03/2009	<7	µg / L	No
Diuron	02/03/2009	<10	µg / L	No
Glyphosate	02/03/2009	<10	µg / L	No
Heptachlor + Heptachlor Epoxide	02/03/2009	<0.012	µg / L	No
Lindane (Total)	02/03/2009	<0.006	µg / L	No
Malathion	02/03/2009	<5	µg / L	No
Methoxychlor	02/03/2009	<0.024	µg / L	No
Metolachlor	02/03/2009	<0.5	µg / L	No

Metribuzin	02/03/2009	<5	µg / L	No
Monochlorobenzene	02/03/2009	<0.2	µg / L	No
Paraquat	02/03/2009	<1	µg / L	No
Parathion	02/03/2009	<1	µg / L	No
Pentachlorophenol	02/03/2009	<0.5	µg / L	No
Phorate	02/03/2009	<0.5	µg / L	No
Picloram	02/03/2009	<5	µg / L	No
Polychlorinated Biphenyls(PCB)	02/03/2009	<0.1	µg / L	No
Prometryne	02/03/2009	<0.25	µg / L	No
Simazine	02/03/2009	<1	µg / L	No
THM (NOTE: show latest annual average)	11/23/2011	10.3	µg / L	No
Temephos	02/03/2009	<10	µg / L	No
Terbufos	02/03/2009	<0.4	µg / L	No
Tetrachloroethylene	02/03/2009	<0.3	µg / L	No
2,3,4,6-Tetrachlorophenol	02/03/2009	<0.5	µg / L	No
Triallate	02/03/2009	<1	µg / L	No
Trichloroethylene	02/03/2009	<0.3	µg / L	No
2,4,6-Trichlorophenol	02/03/2009	<0.5	µg / L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	02/03/2009	<1	µg / L	No
Trifluralin	02/03/2009	<0.4	µg / L	No
Vinyl Chloride	02/03/2009	<0.2	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			