

**Part III Form 2
Section 11. ANNUAL REPORT.**

Drinking-Water System Number:	210000586
Drinking-Water System Name:	Winchester
Drinking-Water System Owner:	Township of North Dundas
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1 to December 31, 2003

<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 [x] No []</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 Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; padding: 5px;"> 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 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 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 Drinking-Water Systems, which receive all of their drinking water from your system:

None

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.

- [x] Public access/notice via the web
- [x] 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

As water is used throughout the distribution system, the level of the water tower falls to a preset limit and 4 well pumps start. Groundwater is pumped through the Wellhouses where Sodium Hypochlorite is added. The water is directed from each well through feeder mains to refill the tower.

List all water treatment chemicals used over this reporting period

Sodium Hypochlorite was used at an average dosage rate of 3.9 mg/L.

Were any significant expenses incurred to?

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

Describe

Installed Chlorine Analyzer in the distribution system. Inspected and cleaned elevated water storage tank. Installed chemical spill containment at all wells. Installed standby Chlorine storage tanks at all wells. Replaced well pump at Well # 1. Replaced well pump and installed pitless adapter at Well # 6. Repaired flat roof at Well # 6. Interior inspection of well casing at each Well. Installed Chlorine contact piping at Well # 1.

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
Oct.20/03	Total Coliform	1	Cts/100mls	Resample	Oct.23/03
Oct.20/03	Total Coliform	1	Cts/100mls	Resample	Oct.23/03
Oct.20/03	Total Coliform	1	Cts/100mls	Resample	Oct.23/03
Oct.20/03	HPC	>500	Cts/1ml	Resample	Oct.23/03
Oct.30/03	Pump Unchlorinated Water	N/A	N/A	Restore Chlorine Flush Mains Collect Samples	Oct.30/03

Microbiological testing done under section 8 (2) during this reporting period

	Number of Samples	Range of E.Coli or Fecal Results (#-#)	Range of Total Coliform Results (#-#)	Number of HPC Samples	Range of HPC Results (#-#)
Raw	494	0-0	0-50	0	0-0
Treated	387	0-0	0-2	194	0 to >500
Distribution	164	0-0	0-1	54	0 to >142

Operational testing done under Schedule 7, 8 or 9 during the period covered by this Annual Report.

	Number of Grab Samples	Range of Results (#-#)
Turbidity Treated Jan./03-Jun./03	8760	0.034-0.978 NTU
Turbidity Raw Jun./03-Dec./03	30	0.12-3.6 NTU
Chlorine	8760	0-3.21

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

*NOTE: Record the unit of measure if it is **not** milligrams per litre.*

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

Date of order or C of A	Parameter	Date Sampled	Result	Unit of Measure
N/A				

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

Parameter	Minimum Sample Date	Maximum Sample Date	Minimum Value	Maximum Value	Unit of Measure	Exceedance
Antimony	12/09/03	12/09/03	<0.6	<0.6	ug/L	No
Arsenic	01/20/03	01/20/03	<0.001	<0.001	mg / L	No
Barium	01/20/03	01/20/03	0.03	0.16	mg / L	No
Boron	01/20/03	01/20/03	<0.05	0.97	mg / L	No
Cadmium	01/20/03	01/20/03	<0.0001	<0.0001	mg / L	No
Chromium	01/20/03	01/20/03	0.002	0.004	mg / L	No
Copper	01/20/03	01/20/03	0.011	0.174	mg / L	No
Iron	01/20/03	01/20/03	0.02	0.1	mg / L	No
Lead	01/20/03	01/20/03	<0.001	<0.001	mg / L	No
Mercury	01/20/03	01/20/03	<0.0001	<0.0001	mg / L	No
Selenium	01/20/03	01/20/03	<0.001	<0.001	mg / L	No
Uranium	01/20/03	01/20/03	<0.001	<0.001	mg / L	No
Fluoride	04/24/03	01/20/03	0.16	0.33	mg / L	No
Nitrite	12/09/03	12/09/03	<0.011	<0.1	mg / L	No
Nitrate	12/09/03	12/09/03	<0.021	0.541	mg / L	No

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

Parameter	Minimum Sample Date	Maximum Sample Date	Minimum Value	Maximum Value	Unit of Measure	Exceedance
Alachlor	01/20/03	04/15/03	<0.5	<0.5	ug / L	No
Aldicarb	12/09/03	04/15/03	<0.3	<9	ug / L	No
Aldrin + Dieldrin	01/20/03	04/15/03	<0.012	<0.012	ug / L	No
Atrazine + N-dealkylated metabolites	01/20/03	04/15/03	<0.5	<1	ug / L	No
Azinphos-methyl	01/20/03	04/15/03	<2	<2	ug / L	No
Bendiocarb	01/20/03	04/15/03	<2	<2	ug / L	No
Benzene	01/20/03	04/15/03	<0.5	<0.5	ug / L	No
Benzo(a)pyrene	12/09/03	12/09/03	<0.004	<0.004	ug / L	No
Bromoxynil	01/20/03	04/15/03	<0.5	<0.5	ug / L	No
Carbaryl	01/20/03	04/15/03	<5	<5	ug / L	No
Carbofuran	01/20/03	04/15/03	<5	<5	ug / L	No
Carbon Tetrachloride	01/20/03	04/15/03	<0.9	<0.9	ug / L	No
Chlordane (Total)	01/20/03	04/15/03	<0.012	<0.015	ug / L	No
Chlorpyrifos	01/20/03	04/15/03	<1	<1	ug / L	No
Cyanazine	01/20/03	04/15/03	<1	<1	ug / L	No
Diazinon	01/20/03	04/15/03	<1	<1	ug / L	No
Dicamba	01/20/03	04/15/03	<1	<1	ug / L	No
1,2-Dichlorobenzene	01/20/03	04/15/03	<0.4	<0.4	ug / L	No
1,4-Dichlorobenzene	01/20/03	04/15/03	<0.4	<0.4	ug / L	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	01/20/03	04/15/03	<0.024	<0.024	ug / L	No
1,2-Dichloroethane	01/20/03	04/15/03	<0.7	<0.7	ug / L	No
1,1-Dichloroethylene (vinylidene chloride)	01/20/03	04/15/03	<0.5	<0.5	ug / L	No
Dichloromethane	01/20/03	04/15/03	<4	<4	ug / L	No
2,4 Dichlorophenol	01/20/03	04/15/03	<0.5	<0.5	ug / L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	01/20/03	04/15/03	<1	<1	ug / L	No
Diclofop-methyl	01/20/03	04/15/03	<0.9	<0.9	ug / L	No
Dimethoate	01/20/03	04/15/03	<2.5	<2.5	ug / L	No
Dinoseb	01/20/03	04/15/03	<1	<1	ug / L	No
Diquat	01/20/03	04/15/03	<7	<7	ug / L	No
Diuron	01/20/03	04/15/03	<10	<10	ug / L	No
Glyphosate	01/20/03	04/15/03	<10	<10	ug / L	No
Heptachlor + Heptachlor Epoxide	01/20/03	04/15/03	<0.012	<0.012	ug / L	No
Linadane (Total)	01/20/03	04/15/03	<0.006	<0.006	ug / L	No
Malathion	01/20/03	04/15/03	<5	<5	ug / L	No
Methoxychlor	01/20/03	04/15/03	<0.024	<0.024	ug / L	No
Metolachlor	01/20/03	04/15/03	<0.5	<0.5	ug / L	No
Metribuzin	01/20/03	04/15/03	<5	<5	ug / L	No
Monochlorobenzene	01/20/03	04/15/03	<0.2	<0.2	ug / L	No
Paraquat	01/20/03	04/15/03	<1	<1	ug / L	No
Parathion	01/20/03	04/15/03	<1	<1	ug / L	No
Pentachlorophenol	01/20/03	04/15/03	<0.5	<0.5	ug / L	No
Phorate	01/20/03	04/15/03	<0.5	<0.5	ug / L	No
Picloram	01/20/03	04/15/03	<5	<5	ug / L	No
Polychlorinated Biphenyls(PCB)	01/20/03	04/15/03	<0.05	<0.1	ug / L	No

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Promethyne	01/20/03	04/15/03	<0.25	<0.25	ug / L	No
Simazine	01/20/03	04/15/03	<1	<1	ug / L	No
THM (NOTE: show latest quarterly average)	01/20/03	12/09/03	25	25	ug / L	No
Temephos	01/20/03	04/15/03	<10	<10	ug / L	No
Terbufos	12/09/03	04/15/03	<0.12	<0.7	ug / L	No
Tetrachloroethylene	01/20/03	04/15/03	<0.3	<0.3	ug / L	No
2,3,4,6-Tetrachlorophenol	01/20/03	04/15/03	<0.5	<0.5	ug / L	No
Triallate	01/20/03	04/15/03	<1	<1	ug / L	No
Trichloroethylene	01/20/03	04/15/03	<0.3	<0.3	ug / L	No
2,4,6-Trichlorophenol	01/20/03	04/15/03	<0.5	<0.5	ug / L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	01/20/03	04/15/03	<1	<1	ug / L	No
Trifluralin	01/20/03	04/15/03	<1	<1	ug / L	No
Vinyl Chloride	01/20/03	04/15/03	<0.5	<0.5	ug / 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			

(Only if category is large municipal residential, small municipal residential, large municipal non residential, small municipal non residential, large non municipal non residential)