

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

Drinking-Water System Number:	220004000
Drinking-Water System Name:	Caledon Village Well Supply
Drinking-Water System Owner:	Region of Peel
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1, 2004 to December 31, 2004

<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;"> 10 Peel Centre Drive, 4th floor Brampton, Ontario L6T 4B9 </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <div style="border: 1px solid black; padding: 2px; width: 100px; text-align: center;">N/A</div> </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: <div style="border: 1px solid black; padding: 2px; width: 100px; text-align: center;">N/A</div> </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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Note: For the following tables below, additional rows or columns may be added or an appendix may be attached to the report

List Drinking-Water Systems, which receive all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
None	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 [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 population served in Caledon Village is 2915.

Caledon Village Well No.3 and Well No.3A

A communal well water supply system consisting of two well supplies and a treatment system and associated appurtenances, located in Lot 13, Concession 1 in the Town of Caledon on the west side of Highway 10 approximately 1200 m south of Highway 24 (Charleston Sideroad) in Caledon Village, Town of Caledon.

Wells 3 and 3A are equipped with a vented, watertight, galvanized steel enclosure over the wellhead and located in a concrete block well pump house.

Well No. 3 is a 254 mm in diameter, 32 m deep with a well screen length of 6.1 m well, capable of supplying 23.1 L/s at a Total Dynamic Head (TDH) of 50 m.

The well is equipped with flow meter, air release valve, pump control and check valves, raw and treated water sample taps, pressure relief valve and manual by pass, and all other fittings, online continuous chlorine residual analyzer with alarm and lockout capability and online continuous turbidity analyzer measuring treated water turbidity at the point of entrance to the distribution system with alarm and lockout capability.

The disinfection system consists of:

- one metering pump with a second shelved stand-by pump available on-site
- sodium hypochlorite supplied from 204 L drums

A 135 kW stand-by diesel generator set complete with automatic transfer switch system to provide stand-by power to the facility in the event of the power failure is located in the pump house.

All instrumentation and equipment are compatible with the Region's SCADA system.

Well No. 3A is a 153 mm in diameter, 35 m deep with a well screen length of 3.7 m, capable of supplying 6.4 L/s at TDH of 51.5m

(Well No. 3A is not in operation and is to be abandoned.)

Caledon Village Well No. 4

A communal well water supply system consisting of a well supply and treatment system and associated appurtenances, located on the north side of Beech Grove Sideroad approximately 250 m west of the 2nd Line West in Caledon Village, Town of Caledon.

Well No.4 is a 610 mm diameter, 77m deep well with a well screen of length 13.7m equipped with a submersible well water pump rated at 38 L/s at a TDH of 116 m.

Complete with a vented, watertight, galvanized steel enclosure over the wellhead and located in a concrete block well pump house.

The well is equipped with flow meter, air release valve, pump control and check valve, raw and treated water sample taps, a pressure relief valve as well as a manual by pass and all other fittings, including an inline static chlorine mixer, online continuous chlorine residual analyzer with alarm and lockout capability and Online continuous turbidity analyzer measuring treated water turbidity at the point of entrance to the distribution system with alarm and lockout capability.

The disinfection system consists of:

- one metering pump with a second shelved stand-by pump available on-site.
- sodium hypochlorite supplied from 204 L drums.

The iron sequestration system consists of:

- one metering pump
- sodium silicate supplied from 204 L drums.

All instrumentation and equipment are compatible with the Region's SCADA system.

List all water treatment chemicals used over this reporting period

Sodium Hypochlorite
Sodium Silicate

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

Significant Installations	Approximate Expenditure
Caledon Village Reservoir Expansion	\$800,000
Water Service Installations	\$14,000

Significant Repairs	Approximate Expenditure
Mono Mills, Skywood Park, McLeodville Well Abandonment	\$110,000
Watermain Breaks	\$0
Fire Hydrant Repairs	\$111,353
Water Distribution System Valve Repairs	\$3,427
Water Service Repairs	\$4233

Significant Replacements	Approximate Expenditure
Mono Mills Rechlorination Facility Upgrade	\$532,000
Watermain Replacement	\$1,400,000
Fire Hydrant Replacements	\$0
Water Service Replacements	\$0

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 (dd/mm/yy)	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date (dd/mm/yy)
17/05/04	Background	>200	CFU/100ml	Re-sampled upstream, downstream and the reported location	19/05/04
25/05/04	Background	>200	CFU/100ml	Re-sampled upstream, downstream and the reported location	31/05/04
07/06/04	Background	>200	CFU/100ml	Re-sampled upstream, downstream and the reported location	11/06/04
20/09/04	Total Coliform	6	CFU/100ml	Re-sampled upstream, downstream and the reported location	27/09/04
29/11/04	Total Coliform	2	CFU/100ml	Re-sampled upstream, downstream and the reported location	03/12/04

Note: Incident date represents the sampling date, corrective action date represents the date incident was resolved.

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

	Number of Samples	Range of E.Coli Or Fecal Results (min#)-(max#)	Range of Total Coliform Results (min#)-(max#)	Number of HPC Samples	Range of HPC Results (min#)-(max#)
Caledon Village Well # 3 Raw	52	0	0	52	0-1
Caledon Village Well # 3 Treated	52	0	0	39	0
Caledon Village Well # 4 Raw	52	0	0	52	0-1
Caledon Village Well # 4 Treated	52	0	0	39	0
Distribution	389	0	0-6	287	0-77

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#) Caledon Village Well # 3	Range of Results (min#)-(max#) Caledon Village Well # 4
Turbidity	151 166	0.01-1.05	0.06-0.33
Chlorine	166 176	1.15-1.73	1.39-1.76
Fluoride (If the DWS provides fluoridation)	N/A	N/A	

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, order or other legal instrument.

Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure

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

Parameter	Sample Date (dd/mm/yy)	Result Value Well # 3	Result Value Well # 4	Unit of Measure	Exceedance
Antimony	04/02/04	<0.0005	<0.0005	mg/L	No
Arsenic	04/02/04	<0.002	0.004	mg/L	No
Barium	04/02/04	0.042	0.095	mg/L	No
Boron	04/02/04	0.013	0.058	mg/L	No
Cadmium	04/02/04	<0.0001	<0.0001	mg/L	No
Chromium	04/02/04	<0.005	<0.005	mg/L	No
Lead	04/02/04	<0.0005	<0.0005	mg/L	No
Mercury	18/02/04	<0.00005	<0.00005	mg/L	No
Selenium	04/02/04	<0.002	<0.002	mg/L	No
Sodium	14/10/04	34.2	10.7	mg/L	Yes
Uranium	04/02/04	0.0002	0.0003	mg/L	No
Fluoride	18/02/04	0.047	0.064	mg/L	No
Nitrite	14/10/04	<0.017	<0.017	mg/L	No
Nitrate	14/10/04	<0.044	0.321	mg/L	No

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

Parameter	Sample Date (dd/mm/yy)	Result Value Well # 3	Result Value Well # 4	Unit of Measure	Exceedance
Alachlor	22/09/04	ND	ND	ug/L	No
Aldicarb	22/09/04	ND	ND	ug/L	No
Aldrin + Dieldrin	22/09/04	ND	ND	ug/L	No
Atrazine + N-dealkylated metabolites	22/09/04	ND	ND	ug/L	No
Azinphos-methyl	22/09/04	ND	ND	ug/L	No
Bendiocarb	22/09/04	ND	ND	ug/L	No
Benzene	22/09/04	ND	ND	ug/L	No
Benzo(a)pyrene	22/09/04	<0.01	<0.01	ug/L	No
Bromoxynil	22/09/04	ND	ND	ug/L	No
Carbaryl	22/09/04	ND	ND	ug/L	No
Carbofuran	22/09/04	ND	ND	ug/L	No
Carbon Tetrachloride	22/09/04	ND	ND	ug/L	No
Chlordane (Total)	22/09/04	ND	ND	ug/L	No
Chlorpyrifos	22/09/04	ND	ND	ug/L	No
Cyanazine	22/09/04	ND	ND	ug/L	No
Diazinon	22/09/04	ND	ND	ug/L	No
Dicamba	22/09/04	ND	ND	ug/L	No
1,2-Dichlorobenzene	22/09/04	ND	ND	ug/L	No
1,4-Dichlorobenzene	22/09/04	ND	ND	ug/L	No

Dichlorodiphenyltrichloroethane (DDT) + metabolites	22/09/04	ND	ND	ug/L	No
1,2-Dichloroethane	22/09/04	ND	ND	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	22/09/04	ND	ND	ug/L	No
Dichloromethane	22/09/04	ND	ND	ug/L	No
2-4 Dichlorophenol	22/09/04	ND	ND	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	22/09/04	ND	ND	ug/L	No
Diclofop-methyl	22/09/04	ND	ND	ug/L	No
Dimethoate	22/09/04	ND	ND	ug/L	No
Dinoseb	22/09/04	ND	ND	ug/L	No
Diquat	22/09/04	ND	ND	ppb	No
Diuron	22/09/04	ND	ND	ug/L	No
Glyphosate	22/09/04	ND	ND	ug/L	No
Heptachlor + Heptachlor Epoxide	22/09/04	ND	ND	ug/L	No
Linadane (Total)	22/09/04	ND	ND	ug/L	No
Malathion	22/09/04	ND	ND	ug/L	No
Methoxychlor	22/09/04	ND	ND	ug/L	No
Metolachlor	22/09/04	ND	ND	ug/L	No
Metribuzin	22/09/04	ND	ND	ug/L	No
Monochlorobenzene	22/09/04	ND	ND	ug/L	No
Paraquat	22/09/04	ND	ND	ppb	No
Parathion	22/09/04	<0.49	ND	ND	No
Pentachlorophenol	22/09/04	ND	ND	ug/L	No
Phorate	22/09/04	ND	ND	ug/L	No
Picloram	22/09/04	ND	ND	ug/L	No
Polychlorinated Biphenyls(PCB)	22/09/04	<0.08	ND	ug/L	No
Prometryne	22/09/04	ND	ND	ug/L	No
Simazine	22/09/04	ND	ND	ug/L	No
THM (NOTE: show latest annual average)	14/10/04	9.3 (distribution)		ug/L	No
Temphos	22/09/04	ND	ND	ug/L	No
Terbufos	22/09/04	ND	ND	ug/L	No
Tetrachloroethylene	22/09/04	ND	ND	ug/L	No
2,3,4,6-Tetrachlorophenol	22/09/04	ND	ND	ug/L	No
Triallate	22/09/04	ND	ND	ug/L	No
Trichloroethylene	22/09/04	ND	ND	ug/L	No
2,4,6-Trichlorophenol	22/09/04	ND	ND	ug/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	22/09/04	ND	ND	ug/L	No
Trifluralin	22/09/04	ND	ND	ug/L	No
Vinyl Chloride	22/09/04	ND	ND	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
None	N/A	N/A	N/A

(Only if DWS category is large municipal residential, small municipal residential, large municipal non-residential, non municipal year round residential, large non municipal non residential)