

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

Drinking-Water System Number:	260002590
Drinking-Water System Name:	Cheltenham Well Supply
Drinking-Water System Owner:	Regional Municipality 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 Cheltenham is 736

Cheltenham is a groundwater supply system consisting of two wells, one production well and one stand-by well, servicing the Cheltenham and Terra Cotta communities, Town of Caledon.

Treatment and Supply

Plant Enclosure Building located at Lot 28, Concession 4 WHS in the Town of Caledon housing all facilities as described below:

- a Groundwater Production Well (Well No.2), 305 mm diameter and 52.8 m deep equipped with a Submersible High Lift Pump, rated 6.2 L/s at a total dynamic head (TDH) of 100.5 m, complete with vented watertight galvanized steel enclosure, and a 100 mm diameter discharge pipe;
- a Groundwater Production Well (Well No.1), 305 mm diameter and 52.6 m deep, **disconnected**;
- one (1) Pressure Greensand Filter, 1.5 m diameter, with filter backwash directly connected to filtrate;
- a Disinfection System consisting of two 200 L daytanks (one duty and one stand-by), and three chemical metering pumps (two duty and one stand-by), rated 1.9 L/hr, 1.9 L/hr and 0.95 L/hr, respectively, with feed lines discharging sodium hypochlorite solution to the well pump discharge and the supernatant return pump discharge, described below;
- a Filter Medium Conditioning System, consisting of one 200 L daytank, and one chemical metering pump rated 1.89 L/hr at a backpressure of 1034 kPa, with a feed line discharging potassium permanganate solution to the well pump discharge downstream of the sodium hypochlorite application;
- one Chlorine Residual Analyzer measuring free chlorine residual concentration, connected to the filtrate line, complete with 4-20 mA output;
- online continuous turbidity analyzer measuring treated water turbidity at the point of entrance to the distribution system with alarm and lockout capability

Stand-by Power

100 kW Diesel Engine Standby Power Generator Set, and appurtenances;

Residual Management

- one Process Residual Settling Tank
- submersible High Lift Pump rated at 4.8 L/s returning residual supernatant to the well pump discharge
- submersible Sludge Pump discharging settled solids to transport vehicle

List all water treatment chemicals used over this reporting period

Sodium Hypochlorite

Potassium Permanganate

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
Water Service Installations	\$27,000

Significant Repairs	Approximate Expenditure
Watermain Breaks	\$0
Fire Hydrant Repairs	\$2,843
Water Distribution System Valve Repairs	\$0
Water Service Repairs	\$7,417

Significant Replacements	Approximate Expenditure
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	Sodium	20.8	mg/L	Re-sampled, Health authority notified	21/05/04
17/05/04	Sodium - Reservoir	20.8	mg/L	Re-sampled, Health authority notified	21/05/04

Note: Incident date represents the sampling date, corrective action date represents the date the 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#)
Cheltenham Well # 2 Raw	52	0	0	52	0-1
Cheltenham Well # 2 Treated	52	0	0	40	0-1
Distribution	217	0	0	161	0-1

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#) Well # 2
Turbidity	188	0.01-0.50
Chlorine	189	1.10-1.83
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 # 2	Unit of Measure	Exceedance
Antimony	04/02/04	<0.0005	mg/l	No
Arsenic	04/02/04	<0.002	mg/l	No
Barium	04/02/04	0.263	mg/l	No
Boron	04/02/04	0.028	mg/l	No
Cadmium	04/02/04	<0.0001	mg/l	No
Chromium	04/02/04	<0.005	mg/l	No
Lead	04/02/04	<0.0005	mg/l	No
Mercury	04/02/04	<0.00005	mg/l	No
Selenium	04/02/04	<0.002	mg/l	No
Sodium	14/10/04	19.3	mg/l	No
Uranium	04/02/04	0.0002	mg/l	No

Fluoride	14/10/04	0.098	mg/l	No
Nitrite	14/10/04	<0.017	mg/l as N	No
Nitrate	14/10/04	<0.044	mg/l as N	No

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

Parameter	Sample Date (dd/mm/yy)	Result Value Well # 2	Unit of Measure	Exceedance
Alachlor	22/09/04	ND	ug/L	No
Aldicarb	22/09/04	ND	ug/L	No
Aldrin + Dieldrin	22/09/04	ND	ug/L	No
Atrazine + N-dealkylated metabolites	22/09/04	ND	ug/L	No
Azinphos-methyl	22/09/04	ND	ug/L	No
Bendiocarb	22/09/04	ND	ug/L	No
Benzene	22/09/04	ND	ug/L	No
Benzo(a)pyrene	22/09/04	ND	ug/L	No
Bromoxynil	22/09/04	ND	ug/L	No
Carbaryl	22/09/04	ND	ug/L	No
Carbofuran	22/09/04	ND	ug/L	No
Carbon Tetrachloride	22/09/04	ND	ug/L	No
Chlordane (Total)	22/09/04	ND	ug/L	No
Chlorpyrifos	22/09/04	ND	ug/L	No
Cyanazine	22/09/04	ND	ug/L	No
Diazinon	22/09/04	ND	ug/L	No
Dicamba	22/09/04	ND	ug/L	No
1,2-Dichlorobenzene	22/09/04	ND	ug/L	No
1,4-Dichlorobenzene	22/09/04	ND	ug/L	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	22/09/04	ND	ug/L	No
1,2-Dichloroethane	22/09/04	ND	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	22/09/04	ND	ug/L	No
Dichloromethane	22/09/04	ND	ug/L	No
2,4 Dichlorophenol	22/09/04	ND	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	22/09/04	ND	ug/L	No
Diclofop-methyl	22/09/04	ND	ug/L	No
Dimethoate	22/09/04	ND	ug/L	No
Dinoseb	22/09/04	ND	ug/L	No
Diquat	22/09/04	ND	ppb	No
Diuron	22/09/04	ND	ug/L	No
Glyphosate	22/09/04	ND	ug/L	No
Heptachlor + Heptachlor Epoxide	22/09/04	ND	ug/L	No
Linadane (Total)	22/09/04	ND	ug/L	No
Malathion	22/09/04	ND	ug/L	No

Methoxychlor	22/09/04	ND	ug/L	No
Metolachlor	22/09/04	ND	ug/L	No
Metribuzin	22/09/04	ND	ug/L	No
Monochlorobenzene	22/09/04	ND	ug/L	No
Paraquat	22/09/04	ND	ppb	No
Parathion	22/09/04	ND	ug/L	No
Pentachlorophenol	22/09/04	ND	ug/L	No
Phorate	22/09/04	ND	ug/L	No
Picloram	22/09/04	ND	ug/L	No
Polychlorinated Biphenyls(PCB)	22/09/04	ND	ug/L	No
Prometryne	22/09/04	ND	ug/L	No
Simazine	22/09/04	ND	ug/L	No
THM (NOTE: show latest annual average)	14/10/04	19.7 (distribution)	ug/L	No
Temephos	22/09/04	ND	ug/L	No
Terbufos	22/09/04	ND	ug/L	No
Tetrachloroethylene	22/09/04	ND	ug/L	No
2,3,4,6-Tetrachlorophenol	22/09/04	ND	ug/L	No
Triallate	22/09/04	ND	ug/L	No
Trichloroethylene	22/09/04	ND	ug/L	No
2,4,6-Trichlorophenol	22/09/04	ND	ug/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	22/09/04	ND	ug/L	No
Trifluralin	22/09/04	ND	ug/L	No
Vinyl Chloride	22/09/04	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)