

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

<b>Drinking-Water System Number:</b>	260002460
<b>Drinking-Water System Name:</b>	Cambridge Distribution System
<b>Drinking-Water System Owner:</b>	The Corporation of the City of Cambridge
<b>Drinking-Water System Category:</b>	Large Municipal Residential
<b>Period being reported:</b>	January 1, 2005 to December 31, 2005.

<p><b><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></b></p> <p><b>Does your Drinking-Water System serve more than 10,000 people? Yes [X] No [ ]</b></p> <p><b>Is your annual report available to the public at no charge on a web site on the Internet? Yes [X] No [ ]</b></p> <p><b>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</b></p> <div style="border: 1px solid black; padding: 5px;">                 A copy may be obtained from City of Cambridge Clerks' Department (519)-623-1340             </div>	<p><b><u>Complete for all other Categories.</u></b></p> <p><b>Number of Designated Facilities served:</b></p> <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px 0;"></div> <p><b>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [ ] No [ ]</b></p> <p><b>Number of Interested Authorities you report to:</b></p> <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px 0;"></div> <p><b>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [ ] No [ ]</b></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 all Drinking-Water Systems (if any), which receive all of their drinking water from your system:**

<b>Drinking Water System Name</b>	<b>Drinking Water System Number</b>
Lloyd Brown Subdivision Distribution System	260002759

**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 [X] No [ ]**

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:** Report presented to Cambridge City Council

### Describe your Drinking-Water System

The City of Cambridge maintains and operates 469 kilometers of watermains within the City's boundaries. The City owns a total of 411 km with the remaining 58 km being shared with the Region of Waterloo, with some dual use components. Within the network, there are nearly 36,200 service connections supplying water to approximately 120,000 residents and various business and industrial locations.

Water is supplied to the City by the Region of Waterloo through a network of wells, treatment plants, pumping stations, control valves, and reservoirs. Treated water from this supply network is monitored on-line, 24 hours per day by operators through their SCADA (System Control and Data Acquisition) system.

The distribution system is divided into five individual pressure zones based on the water supply components and the varying elevations throughout the City.

### List all water treatment chemicals used over this reporting period

Water treatment is carried out the Region of Waterloo.

### Were any significant expenses incurred to?

Install required equipment

Repair required equipment

Replace required equipment

Maintenance on equipment

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

2005 valve replacement program (\$220,788.33)

2005 watermain swabbing maintenance program (\$205,730)

**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
08/09/2005	Testing not applicable – watermain break reported under O. Reg. 170/03 section 16-4 (duty to report observations)	Not applicable	Not applicable	Flushed mains and samples taken (bacteria and chlorine)	08/09/2005

**Microbiological testing done under the 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 #)
Raw	Not applicable to Distribution System: see Region of Waterloo at <a href="http://www.region.waterloo.on.ca">www.region.waterloo.on.ca</a>				
Treated					
Distribution	491	All absent	All absent	246	0 - 340

**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	Not applicable	
Chlorine (free)	853	0.06 – >2.0 mg/L
Chlorine (combined)	853	0.01 – 1.39 mg/L
Fluoride (If the DWS provides fluoridation)	Not applicable: fluoridation not provided	

*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
Not applicable; no additional testing/sampling required				

**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				
Arsenic				
Barium				

<b>Boron</b>				
<b>Cadmium</b>				
<b>Chromium</b>				
<b>Lead</b>	11/17/2005	1.59	ug/L	No
	11/17/2005	<1.00	ug/L	No
	08/22/2005	1.52	ug/L	No
	06/16/2005	1.20	ug/L	No
<b>Mercury</b>				
<b>Selenium</b>				
<b>Sodium</b>				
<b>Uranium</b>				
<b>Fluoride</b>				
<b>Nitrite</b>				
<b>Nitrate</b>				

Note: regulations require lead to be tested in the distribution system; all other parameters are tested at the supply source (see the Region of Waterloo at [www.region.waterloo.on.ca](http://www.region.waterloo.on.ca))

### 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				
Aldicarb				
Aldrin + Dieldrin				
Atrazine + N-dealkylated metabolites				
Azinphos-methyl				
Bendiocarb				
Benzene				
Benzo(a)pyrene				
Bromoxynil				
Carbaryl				
Carbofuran				
Carbon Tetrachloride				
Chlordane (Total)				
Chlorpyrifos				
Cyanazine				
Diazinon				
Dicamba				
1,2-Dichlorobenzene				
1,4-Dichlorobenzene				
Dichlorodiphenyltrichloroethane (DDT) + metabolites				
1,2-Dichloroethane				
1,1-Dichloroethylene (vinylidene chloride)				
Dichloromethane				
2,4 Dichlorophenol				
2,4-Dichlorophenoxy acetic acid (2,4-D)				
Diclofop-methyl				
Dimethoate				

Dinoseb				
Diquat				
Diuron				
Glyphosate				
Heptachlor + Heptachlor Epoxide				
Lindane (Total)				
Malathion				
Methoxychlor				
Metolachlor				
Metribuzin				
Monochlorobenzene				
Paraquat				
Parathion				
Pentachlorophenol				
Phorate				
Picloram				
Polychlorinated Biphenyls(PCB)				
Prometryne				
Simazine				
THM (NOTE: show latest annual average)	11/22/2005	29.9	ug/L	No
Temephos				
Terbufos				
Tetrachloroethylene				
2,3,4,6-Tetrachlorophenol				
Triallate				
Trichloroethylene				
2,4,6-Trichlorophenol				
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)				
Trifluralin				
Vinyl Chloride				

Note: regulations require THM to be tested in the distribution system; all listed parameters are tested at the supply source (see the Region of Waterloo at [www.region.waterloo.on.ca](http://www.region.waterloo.on.ca))

**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
Not applicable; no Schedule 2 half standards exceeded			

**(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)**