

A photograph of a clear glass being filled with water. The water is captured in mid-pour, creating a dynamic splash and bubbles within the glass. The background is a bright blue sky with soft, white clouds. The top left corner of the image has a solid blue square.

2009 DRINKING WATER SYSTEMS
Annual Report



Part III Form 2
Section 11. ANNUAL REPORT.

Table with 2 columns: Label (Drinking-Water System Number, Name, Owner, Category, Period) and Value (R. C. Harris WTP - 220002262, Toronto (R.C. Harris) Water Treatment Plant, City of Toronto, Large Municipal Residential, January 1, 2009 to December 31, 2009)

Form with two columns. Left column: 'Complete if your Category is Large Municipal Residential or Small Municipal Residential'. Right column: 'Complete for all other Categories. NOT APPLICABLE'. Questions include: 'Does your Drinking-Water System serve more than 10,000 people?', 'Is your annual report available to the public at no charge on a web site on the Internet?', 'Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.', 'Number of Designated Facilities served:', 'Did you provide a copy of your annual report to all Designated Facilities you serve?', 'Number of Interested Authorities you report to:', 'Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility?'.

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:

Table with 2 columns: Drinking Water System Name, Drinking Water System Number. Row 1: Region of York - receives some of their water from Toronto, 260001929

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

Describe your Drinking-Water System

- **Toronto Water Supply System consists of four water filtration plants, 18 pumping stations, 10 major underground storage reservoirs, four elevated storage tanks and approximately 510 kilometers of trunk watermains and 5,015 kilometers of distribution watermains.**

The R.C. Harris Water Treatment Plant is a conventional water treatment, has a capacity of 950 ML/d and is located at 2701 Queens Street East, Toronto.

The other three Toronto Water Treatment plants are as follows:

- **R.L. Clark Water Treatment Plant (capacity 615 ML/d) located at 45 Twenty Third Street, Etobicoke;**
- **F.J. Horgan Water Treatment Plant (capacity 570 ML/d) located at 201 Copperfield Road, Toronto; and**
- **Island Water Treatment Plant (capacity 410 ML/d) located on Centre Island, Toronto**

List all water treatment chemicals used over this reporting period

Alum, chlorine, sulphur dioxide, sodium bisulphite, hydrofluosilicic acid and aqua ammonia.

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

Please note the following amounts relate to various projects during 2009 and do not represent the total Project cost. These numbers do not include normal operating and maintenance cost.

- | | |
|---|----------------------|
| - Residual management facilities | \$430,000 |
| - Rehabilitation of buildings | \$2.7 Million |
| - Intake repairs | \$100,000 |



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 for the R.C. Harris Water Treatment Plant.

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date

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 for the Transmission System (which is included under the R.C. Harris Drinking Water System Name and Number).

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
04-Jan-09	Loss of Communication	No Signal	Not Applicable	Communication restored, chlorine residual checked	04-Jan-09
07-Jan-09	Loss of Communication	No Signal	Not Applicable	Communication restored, chlorine residual checked	07-Jan-09
22-Jan-09	Loss of Communication	No Signal	Not Applicable	Communication restored, chlorine residual checked	23-Jan-09
28-Feb-09	Analyzer Failure	<0.25	mg/L	Analyzer repaired and chlorine residual checked	28-Feb-09
26-May-09	Loss of Communication	No Signal	Not Applicable	Communication restored, chlorine residual checked	26-May-09
06-Mar-09	Loss of Communication	No Signal	Not Applicable	Communication restored, chlorine residual checked	11-Mar-09
07-Mar-09	Analyzer Failure	<0.25	mg/L	Analyzer repaired and chlorine residual checked	7-Mar-09
11-Mar-09	Loss of Communication	No Signal	Not Applicable	Communication restored, chlorine residual checked	11-Mar-09
11-Mar-09	Loss of Communication	No Signal	Not Applicable	Communication restored, chlorine residual checked	11-Mar-09
18-Mar-09	Loss of Communication	No Signal	Not Applicable	Communication restored, chlorine residual checked	19-Mar-09
25-Apr-09	Loss of Communication	No Signal	Not Applicable	Communication restored, chlorine residual checked	26-Apr-09
02-May-09	Loss of Communication	No Signal	Not Applicable	Communication restored, chlorine residual checked	03-May-09
7-May-09	Loss of Communication	No Signal	Not Applicable	Communication restored, chlorine residual checked	7-May-09
09-May-09	Loss of Communication	No Signal	Not Applicable	Communication restored, chlorine residual checked	10-May-09
11-May-09	Loss of Communication	No Signal	Not Applicable	Communication restored, chlorine residual checked	11-May-09
16-May-09	Analyzer Failure	Full Scale 16.25	mg/L	Analyzer repaired and chlorine residual checked	16-May-09
30-May-09	Loss of Communication	No Signal	Not Applicable	Communication restored, chlorine residual checked	30-May-09
06-Jun-09	Loss of Communication	No Signal	Not Applicable	Communication restored, chlorine residual checked	06-Jun-09
14-Jun-09	Loss of Communication	No Signal	Not Applicable	Communication Restored. Residual checked	15-Jun-09
16-Jun-09	Loss of Communication	No Signal	Not Applicable	Communication Restored. Residual checked	16-Jun-09



Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
11-Jul-09	Loss of Communication	No Signal	Not Applicable	Communication Restored. Residual checked	11-Jul-09
15-Jul-09	Loss of Communication	No Signal	Not Applicable	Communication Restored. Residual checked	15-Jul-09
23-Jul-09	Loss of Communication	No Signal	Not Applicable	Communication Restored. Residual checked	23-Jul-09
9-Aug-09	Loss of Communication	No Signal	Not Applicable	Communication Restored. Residual checked	9-Aug-09
20-Aug-09	Loss of Communication	No Signal	Not Applicable	Communication Restored. Residual checked	20-Aug-09
26-Aug-09	Loss of Communication	No Signal	Not Applicable	Communication Restored. Residual checked	26-Aug-09
08-Sep-09	Loss of Communication	No Signal	Not Applicable	Communication Restored. Residual checked	10-Sep-09
28-Oct-09	Loss of Communication	No Signal	Not Applicable	Communication Restored. Residual checked	3-Nov-09
20-Nov-09	Loss of Communication	No Signal	Not Applicable	Communication Restored. Residual checked	20-Nov-09
04-Dec-09	Loss of Communication	No Signal	Not Applicable	Communication Restored. Residual checked	04-Dec-09
09-Dec-09	Loss of Communication	No Signal	Not Applicable	Communication Restored. Residual checked	09-Dec-09
22-Dec-09	Loss of Communication	No Signal	Not Applicable	Communication Restored. Residual checked	22-Dec-09



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	355	0-20	0-1270	355	0-160
Treated	1412	A - A (100 % A)	A - A (100 % A)	1412	0-100

A = Absence P = Presence

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	8454	0.03 – 0.14 NTU
Chlorine	8459	0.83 – 2.98 mg/L
Fluoride (If the DWS provides fluoridation)	6532	0.12 – 0.89 mg/L
Chlorine for Distribution System	8403	0.73 – 1.93 mg/L

***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	Annual Average	Unit of Measure
4171-6YCTDD (CofA issued Aug 22 2007)	Suspended solids	1-Jan-09 – 31-Dec-09	6.2	mg/L
	Chlorine Residual	1-Jan-09 – 31-Dec-09	0.002	mg/L

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	1/13 – 11/18	0	mg/L	No
Arsenic	1/13 – 11/18	0	mg/L	No
Barium	1/13 – 11/18	0.022-0.023	mg/L	No
Boron	1/13 – 11/18	0.019-0.025	mg/L	No
Cadmium	1/13 – 11/18	0	mg/L	No
Chromium	1/13 – 11/18	0	mg/L	No
Lead	1/13 – 11/18	0	mg/L	No
Mercury	1/13 – 11/18	0	mg/L	No
Selenium	1/13 – 11/18	0	mg/L	No
Sodium	1/13 – 12/29	11.3-20.0	mg/L	No
Uranium	1/13 – 11/18	0.0003-0.0004	mg/L	No
Fluoride	1/01 - 12/31	0.11-0.63	mg/L	No
Nitrite	1/13 – 12/08	0	mg/L	No
Nitrate	1/13 – 12/08	0.25-0.54	mg/L	No

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	3/25 – 10/19	0 - 0	µg/L	No
Aldicarb	3/25 – 10/19	0 - 0	µg/L	No
Aldrin + Dieldrin	3/25 – 10/19	0 - 0	µg/L	No
Atrazine + N-dealkylated metabolites	3/25 – 10/19	0 - 0	µg/L	No
Azinphos-methyl	3/25 – 10/19	0 - 0	µg/L	No
Bendiocarb	3/25 – 10/19	0 - 0	µg/L	No
Benzene	1/05 - 12/01	0 - 0	µg/L	No
Benzo(a)pyrene	3/25 – 10/19	0 - 0	µg/L	No
Bromoxynil	3/25 – 10/19	0 - 0	µg/L	No



Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Carbaryl	3/25 – 10/19	0 - 0	µg/L	No
Carbofuran	3/25 – 10/19	0 - 0	µg/L	No
Carbon Tetrachloride	1/05 - 12/01	0 - 0	µg/L	No
Chlordane (Total)	3/25 – 10/19	0 - 0	µg/L	No
Chlorpyrifos	8/10 – 10/19	0 - 0	µg/L	No
Cyanazine	3/25 – 10/19	0 - 0	µg/L	No
Diazinon	3/25 – 10/19	0 - 0	µg/L	No
Dicamba	3/25 – 10/19	0 - 0	µg/L	No
1,2-Dichlorobenzene	1/05 - 12/01	0 - 0	µg/L	No
1,4-Dichlorobenzene	1/05 - 12/01	0 - 0	µg/L	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	3/25 – 10/19	0 - 0	µg/L	No
1,2-Dichloroethane	1/05 - 12/01	0 - 0	µg/L	No
1,1-Dichloroethylene (vinylidene chloride)	1/05 - 12/01	0 - 0	µg/L	No
Dichloromethane	1/05 - 12/01	0 - 0	µg/L	No
2-4 Dichlorophenol	3/25 – 10/19	0 - 0	µg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	3/25 – 10/19	0 - 0	µg/L	No
Diclofop-methyl	3/25 – 10/19	0 - 0	µg/L	No
Dimethoate	3/25 – 10/19	0 - 0	µg/L	No
Dinoseb	3/25 – 10/19	0 - 0	µg/L	No
Diquat	3/25 – 3/25	0 - 0	µg/L	No
Diuron	3/25 – 10/19	0 - 0	µg/L	No
Glyphosate	3/25 – 3/25	0 - 0	µg/L	No
Heptachlor + Heptachlor Epoxide	3/25 – 10/19	0 - 0	µg/L	No
Lindane (Total)	3/25 – 10/19	0 - 0	µg/L	No
Malathion	3/25 – 10/19	0 - 0	µg/L	No
Methoxychlor	3/25 – 10/19	0 - 0	µg/L	No
Metolachlor	3/25 – 10/19	0 - 0	µg/L	No
Metribuzin	3/25 – 10/19	0 - 0	µg/L	No
Monochlorobenzene (chlorobenzene)	1/05 - 12/01	0 - 0	µg/L	No
Paraquat	3/25 – 3/25	0 - 0	µg/L	No
Parathion	8/10 - 10/19	0 - 0	µg/L	No
Pentachlorophenol	3/25 – 10/19	0 - 0	µg/L	No
Phorate	3/25 – 10/19	0 - 0	µg/L	No
Picloram	3/25 – 10/19	0 - 0	µg/L	No
Polychlorinated Biphenyls(PCB)	3/25 – 8/10	0 - 0	µg/L	No
Prometryne	3/25 – 10/19	0 - 0	µg/L	No
Simazine	3/25 – 10/19	0 - 0	µg/L	No
THM (NOTE: show latest annual average)	1/05 - 12/01	14.6	µg/L	No
Temephos	3/25 – 10/19	0 - 0	µg/L	No
Terbufos	3/25 – 10/19	0 - 0	µg/L	No
Tetrachloroethylene	1/05 - 12/01	0 - 0	µg/L	No
2,3,4,6-Tetrachlorophenol	3/25 – 10/19	0 - 0	µg/L	No
Triallate	3/25 – 10/19	0 - 0	µg/L	No
Trichloroethylene	1/05 - 12/01	0 - 0	µg/L	No
2,4,6-Trichlorophenol	3/25 – 10/19	0 - 0	µg/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	3/25 – 10/19	0 - 0	µg/L	No
Trifluralin	3/25 – 10/19	0 - 0	µg/L	No



Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Vinyl Chloride	1/05 -12/01	0 - 0	µg/L	No

Availability of the Report

This report along with a copy of the Summary Report (to be available after March 31, 2010) prepared under Schedule 22 of O. Reg. 170/03 will be posted on the City's website at www.toronto.ca/water.

These reports will also be available for inspection at the Toronto Water offices in Metro Hall, 18th Floor, 55 John Street, Toronto, Ontario M5V 3C6 or by calling 416-392-8222.

*Report Prepared:
February 27, 2010*



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

Part III Form 2

Section 11. ANNUAL REPORT.

Drinking-Water System Number:	R.L. Clark WTP - 220002253
Drinking-Water System Name:	Toronto (R.L. Clark) Water Treatment Plant
Drinking-Water System Owner:	City of Toronto
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1, 2009 to December 31, 2009

<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 Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; padding: 5px;"> <p>Metro Hall, 18th Floor 55 John Street Toronto, Ontario M5V 3C6</p> </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served:</p> <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px 0;"></div> <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:</p> <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px 0;"></div> <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 all Drinking-Water Systems (if any), which receive all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
Region of York – receives some of their water from Toronto	260001929

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 _____

Describe your Drinking-Water System

Toronto Water Supply System consists of four water treatment plants, 18 pumping stations, 10 major underground storage reservoirs, four elevated storage tanks and approximately 510 kilometers of trunk watermains and 5,015 kilometers of distribution watermains.

The R.L. Clark Water Treatment Plant is a conventional water treatment plant, has a rated capacity of 615 ML/d and is located at 45 Twenty-Third Street, Etobicoke.

The other three Toronto water treatment plants are as follows:

- R.C. Harris Water Treatment Plant (capacity 950 ML/d) located at 2701 Queen Street East, Toronto;
- F.J. Horgan Water Treatment Plant (capacity 570 ML/d) located at 201 Copperfield Road, Toronto; and
- Island Water Treatment Plant (capacity 410 ML/d) located on Centre Island, Toronto

List all water treatment chemicals used over this reporting period

Alum, chlorine, sulphur dioxide, hydrofluosilicic acid, aqua ammonia and powdered activated carbon.

Were any significant expenses incurred to?

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



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

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

Please note that the following amounts related to various projects outline expenditures during 2009 and do not represent the total project costs at the R.L. Clark Water Treatment Plant.

- Residue Management Facilities	\$ 449,000
- Electrical – HVAC Rehabilitation	\$ 9.8 M
- Administration Building Rehabilitation	\$ 32,000
- Diesel Storage Tank	\$ 57,000
- Process Equipment Upgrades	\$ 1.2 M
- Equipment Replacement/Repair/Rehab	\$ 648,000
- Low Lift Pipe Rehabilitation and Insulation	\$195,000
- Elevator Refurbishment	\$ 9,000

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
10-Feb-09	Sodium	21	mg/L	Resampled.	24-Feb-09

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	322	0 - 250	0 – 1100	322	0 – 1200
Treated	1458	A - A (100 % A)	A - A (100 % A)	1458	0 - 110

A = Absence P = Presence

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	8760	0.03 – 0.09 NTU
Chlorine	8760	1.08 – 1.40 mg/L
Fluoride (If the DWS provides fluoridation) (Plant output spot samples)	411	0.12 – 0.62 mg/L

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	1/13 – 11/18	0-0	mg/L	
Arsenic	1/13 – 11/18	0-0	mg/L	
Barium	1/13 – 11/18	0.022-0.024	mg/L	
Boron	1/13 – 11/18	0.018-0.026	mg/L	
Cadmium	1/13 – 11/18	0-0	mg/L	
Chromium	1/13 – 11/18	0-0	mg/L	
Lead	1/13 – 11/18	0-0	mg/L	
Mercury	1/13 – 11/18	0-0	mg/L	
Selenium	1/13 – 11/18	0-0	mg/L	
Sodium	1/06 – 12/29	14.0-26.0	mg/L	
Uranium	1/13 – 11/18	0.0003-0.0004	mg/L	
Fluoride	1/01 – 12/31	0.12-0.62	mg/L	
Nitrite	1/13 – 12/9	0-0	mg/L	
Nitrate	1/13 – 12/9	0.28-0.54	mg/L	

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	3/25-10/19	0-0	µg/L	
Aldicarb	3/25-10/19	0-0	µg/L	
Aldrin + Dieldrin	3/25-10/19	0-0	µg/L	
Atrazine + N-dealkylated metabolites	3/25-10/19	0-0	µg/L	
Azinphos-methyl	3/25-10/19	0-0	µg/L	
Bendiocarb	3/25-10/19	0-0	µg/L	
Benzene	1/05-12/01	0-0	µg/L	
Benzo(a)pyrene	3/25-10/19	0-0	µg/L	
Bromoxynil	3/25-10/19	0-0	µg/L	
Carbaryl	3/25-10/19	0-0	µg/L	
Carbofuran	3/25-10/19	0-0	µg/L	
Carbon Tetrachloride	1/05-12/01	0-0	µg/L	
Chlordane (Total)	3/25-10/19	0-0	µg/L	
Chlorpyrifos	8/10-10/19	0-0	µg/L	
Cyanazine	3/25-10/19	0-0	µg/L	
Diazinon	3/25-10/19	0-0	µg/L	
Dicamba	3/25-10/19	0-0	µg/L	
1,2-Dichlorobenzene	1/05-12/01	0-0	µg/L	
1,4-Dichlorobenzene	1/05-12/01	0-0	µg/L	
Dichlorodiphenyltrichloroethane (DDT) + metabolites	3/25-10/19	0-0	µg/L	
1,2-Dichloroethane	1/05-12/01	0-0	µg/L	
1,1-Dichloroethylene (vinylidene chloride)	1/05-12/01	0-0	µg/L	
Dichloromethane	1/05-12/01	0-0	µg/L	
2-4 Dichlorophenol	3/25-10/19	0-0	µg/L	
2,4-Dichlorophenoxy acetic acid (2,4-D)	3/25-10/19	0-0	µg/L	
Diclofop-methyl	3/25-10/19	0-0	µg/L	
Dimethoate	3/25-10/19	0-0	µg/L	
Dinoseb	3/25-10/19	0-0	µg/L	
Diquat	3/25-3/25	0-0	µg/L	



Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Diuron	3/25-10/19	0-0	µg/L	
Glyphosate	3/25-3/25	0-0	µg/L	
Heptachlor + Heptachlor Epoxide	3/25-10/19	0-0	µg/L	
Lindane (Total)	3/25-10/19	0-0	µg/L	
Malathion	3/25-10/19	0-0	µg/L	
Methoxychlor	3/25-10/19	0-0	µg/L	
Metolachlor	3/25-10/19	0-0	µg/L	
Metribuzin	3/25-10/19	0-0	µg/L	
Monochlorobenzene	3/25-10/19	0-0	µg/L	
Paraquat	3/25- 3/25	0-0	µg/L	
Parathion	8/10-10/19	0-0	µg/L	
Pentachlorophenol	3/25-10/19	0-0	µg/L	
Phorate	3/25-10/19	0-0	µg/L	
Picloram	3/25-10/19	0-0	µg/L	
Polychlorinated Biphenyls(PCB)	3/25- 8/10	0-0	µg/L	
Prometryne	3/25-10/19	0-0	µg/L	
Simazine	3/25-10/19	0-0	µg/L	
THM (NOTE: show latest annual average)	1/05- 12/01	15.2	µg/L	
Temephos	3/25-10/19	0-0	µg/L	
Terbufos	3/25-10/19	0-0	µg/L	
Tetrachloroethylene	1/05-12/01	0-0	µg/L	
2,3,4,6-Tetrachlorophenol	3/25-10/19	0-0	µg/L	
Triallate	3/25-10/19	0-0	µg/L	
Trichloroethylene	1/05-12/01	0-0	µg/L	
2,4,6-Trichlorophenol	3/25-10/19	0-0	µg/L	
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	3/25-10/19	0-0	µg/L	
Trifluralin	3/25-10/19	0-0	µg/L	
Vinyl Chloride	1/05-12/01	0-0	µg/L	

Availability of the Report

This report along with a copy of the Summary Report (to be available after March 31, 2010) prepared under Schedule 22 of O. Reg. 170/03 will be posted on the City's website at www.toronto.ca/water.

These reports will also be available for inspection at Toronto Water offices in Metro Hall, 18th Floor, 55 John Street, Toronto, Ontario M5V 3C6 or by calling 416-392-8222.

*Report Prepared:
February 27, 2010*



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

Part III Form 2

Section 11. ANNUAL REPORT.

Drinking-Water System Number:	F. J. Horgan WTP – 220004536
Drinking-Water System Name:	Toronto (F.J. Horgan) Water Treatment Plant
Drinking-Water System Owner:	City of Toronto
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1, 2009 to December 31, 2009

<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 Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; padding: 5px;"> <p>Metro Hall, 18th Floor 55 John Street Toronto, Ontario M5V 3C6</p> </div>	<p><u>Complete for all other Categories.</u> NOT APPLICABLE</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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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:

Drinking Water System Name	Drinking Water System Number
Region of York – receives some of their water from Toronto	260001929

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 _____

Describe your Drinking-Water System

Toronto Water Supply System consists of four water filtration plants, 18 pumping stations, 10 major underground storage reservoirs, four elevated storage tanks and approximately 510 kilometers of trunk watermains and 5,015 kilometers of distribution watermains.

The F.J. Horgan Water Treatment Plant is a direct water treatment plant, has a rated capacity of 570 ML/d and is located at 201 Copperfield Road, Toronto.

The other three Toronto water treatment plants are as follows:

- **R.C. Harris Water Treatment Plant (capacity 950 ML/d) located at 2701 Queens Street East, Toronto;**
- **R.L. Clark Water Treatment Plant (capacity 615 ML/d) located at 45 Twenty Third Street, Etobicoke; and**
- **Island Water Treatment Plant (capacity 410 ML/d) located on Centre Island, Toronto**

List all water treatment chemicals used over this reporting period

Alum, poly aluminum chloride, MagnaFloc LT7996, chlorine, sulphur dioxide, hydrofluosilicic acid and aqua ammonia. Anionic polymer was used for wastewater treatment.

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

<p>Please note that the following amounts related to various projects outline expenditures during 2009 and do not represent the total project costs at the F.J. Horgan Water Treatment Plant.</p>	
- Plant expansion	\$ 65 Million
- Facility exterior enhancements	\$ 6 Million
- Facility HVAC replacement	\$ 1.2 Million
- Facility interior enhancements	\$ 360,000
- Facility electrical upgrades	\$ 48,000

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
18-May-09	Total Coliform	Presence	result in 100 mL sample	The test results of subsequent output samples taken at 06:00am and 12:00pm of May 15-09 indicated total Coliforms absence	18-May-09
13-Nov-09	Fluoride	1.93	mg/L	Fluoride exceeded 1.5 mg/L for 45 min during Fluoride Tracer study project at the FJ Horgan WTP Nov13/08. Fluoride system taken out of service and returned to normal service Nov18/08.	18-Nov-09



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	363	0 - 5	0 - 31	363	0 - 68
Treated	1444	A - A, (100 % A)	1443 A, 1 P (99.9 % A)	1444	0 - 70

A = Absence P = Presence

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	8760	0.01 - 0.41
Chlorine	8760	0.21 - 1.82
Fluoride (If the DWS provides fluoridation) (Plant output spot samples)	2183	0 - 1.93
Chlorine for Distribution System	4915	0.25 - 1.56

***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
Date of order or C of A	Parameter	Date Sampled	Result (Average)	Unit of Measure
F.J. Horgan Water Treatment Plant – All data presented was in accordance with the requirements of C of A #4847 -72BJXC dated August 22, 2007. Note that as of December 19, 2009 the requirements of the Amended C of A # 0945-7JUYF were adhered to.				
Clarifier Effluent	Suspended Solids	1/01 - 12/31	10	mg/L

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	1/14 - 11/18	0	mg/L	No
Arsenic	1/14 - 11/18	0	mg/L	No
Barium	1/14 - 11/18	0.021-0.023	mg/L	No
Boron	1/14 - 11/18	0.018-0.026	mg/L	No
Cadmium	1/14 - 11/18	0	mg/L	No
Chromium	1/14 - 11/18	0	mg/L	No
Lead	1/14 - 11/18	0	mg/L	No
Mercury	1/14 - 11/18	0	mg/L	No
Selenium	1/14 - 11/18	0	mg/L	No
Sodium	1/06 - 12/29	12.8 – 18.0	mg/L	No
Uranium	1/14 - 11/18	0.0004 - 0.0004	mg/L	No
Fluoride	1/01 - 12/31	0.12-1.93	mg/L	No
Nitrite	1/14 – 12/08	0	mg/L	No
Nitrate	1/14 – 12/08	0.27-0.52	mg/L	No

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	3/28 – 10/19	0 - 0	µg/L	No
Aldicarb	3/28 – 10/19	0 - 0	µg/L	No
Aldrin + Dieldrin	3/28 – 10/19	0 - 0	µg/L	No
Atrazine + N-dealkylated metabolites	3/28 – 10/19	0 - 0	µg/L	No
Azinphos-methyl	3/28 – 10/19	0 - 0	µg/L	No
Bendiocarb	3/28 – 10/19	0 - 0	µg/L	No
Benzene	1/05 - 12/01	0 - 0	µg/L	No
Benzo(a)pyrene	3/28 – 10/19	0 - 0	µg/L	No
Bromoxynil	3/28 – 10/19	0 - 0	µg/L	No
Carbaryl	3/28 – 10/19	0 - 0	µg/L	No
Carbofuran	3/28 – 10/19	0 - 0	µg/L	No
Carbon Tetrachloride	1/05 – 12/01	0 - 0	µg/L	No
Chlordane (Total)	3/28 – 10/19	0 - 0	µg/L	No
Chlorpyrifos	8/10 – 10/19	0 - 0	µg/L	No
Cyanazine	3/28 – 10/19	0 - 0	µg/L	No
Diazinon	3/28 – 10/19	0 - 0	µg/L	No
Dicamba	3/28 – 10/19	0 - 0	µg/L	No
1,2-Dichlorobenzene	1/05 - 12/01	0 - 0	µg/L	No
1,4-Dichlorobenzene	1/05 - 12/01	0 - 0	µg/L	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	3/28 – 10/19	0 - 0	µg/L	No
1,2-Dichloroethane	1/05 - 12/01	0 - 0	µg/L	No
1,1-Dichloroethylene (vinylidene chloride)	1/05 - 12/01	0 - 0	µg/L	No
Dichloromethane	1/05 - 12/01	0 - 0	µg/L	No
2-4 Dichlorophenol	3/28 – 10/19	0 - 0	µg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	3/28 – 10/19	0 - 0	µg/L	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Diclofop-methyl	3/28 – 10/19	0 - 0	µg/L	No
Dimethoate	3/28 – 10/19	0 - 0	µg/L	No
Dinoseb	3/28 – 10/19	0 - 0	µg/L	No
Diquat	3/28 – 3/28	0 - 0	µg/L	No
Diuron	3/28 – 10/19	0 - 0	µg/L	No
Glyphosate	3/28 – 3/28	0 - 0	µg/L	No
Heptachlor + Heptachlor Epoxide	3/28 – 10/19	0 - 0	µg/L	No
Lindane (Total)	3/28 – 10/19	0 - 0	µg/L	No
Malathion	3/28 – 10/19	0 - 0	µg/L	No
Methoxychlor	3/28 – 10/19	0 - 0	µg/L	No
Metolachlor	3/28 – 10/19	0 - 0	µg/L	No
Metribuzin	3/28 – 10/19	0 - 0	µg/L	No
Monochlorobenzene (chlorobenzene)	1/05 - 12/01	0 - 0	µg/L	No
Paraquat	3/28 – 3/28	0 - 0	µg/L	No
Parathion	8/10 – 10/19	0 - 0	µg/L	No
Pentachlorophenol	3/28 – 10/19	0 - 0	µg/L	No
Phorate	3/28 – 10/19	0 - 0	µg/L	No
Picloram	3/28 – 10/19	0 - 0	µg/L	No
Polychlorinated Biphenyls(PCB)	3/28 – 8/10	0 - 0	µg/L	No
Prometryne	3/28 – 10/19	0 - 0	µg/L	No
Simazine	3/28 – 10/19	0 - 0	µg/L	No
THM (NOTE: show latest annual average)	1/05 – 12/01	13.1	µg/L	No
Temephos	3/28 – 10/19	0 - 0	µg/L	No
Terbufos	3/28 – 10/19	0 - 0	µg/L	No
Tetrachloroethylene	1/05 - 12/01	0 - 0	µg/L	No
2,3,4,6-Tetrachlorophenol	3/28 – 10/19	0 - 0	µg/L	No
Triallate	3/28 – 10/19	0 - 0	µg/L	No
Trichloroethylene	1/05 - 12/01	0 - 0	µg/L	No
2,4,6-Trichlorophenol	3/28 – 10/19	0 - 0	µg/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	3/28 – 10/19	0 - 0	µg/L	No
Trifluralin	3/28 – 10/19	0 - 0	µg/L	No
Vinyl Chloride	1/05 - 12/01	0 - 0	µg/L	No

Availability of the Report

This report along with a copy of the Summary Report (to be available after March 31, 2010) prepared under Schedule 22 of O. Reg. 170/03 will be posted on the City's website at www.toronto.ca/water.

These reports will also be available for inspection at Toronto Water offices in Metro Hall, 18th Floor, 55 John Street, Toronto, Ontario M5V 3C6 or by calling 416-392-8222.

*Report Prepared:
February 27, 2010*

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

Drinking-Water System Number:	Island WTP – 220002244
Drinking-Water System Name:	Toronto (Island) Water Treatment Plant
Drinking-Water System Owner:	City of Toronto
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1, 2009 to December 31, 2009

<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 Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; padding: 5px;"> <p>Metro Hall, 18th Floor 55 John Street Toronto, Ontario M5V 3C6</p> </div>	<p><u>Complete for all other Categories.</u> NOT APPLICABLE</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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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:

Drinking Water System Name	Drinking Water System Number
Region of York – receives some of their water from Toronto	260001929

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 _____

Describe your Drinking-Water System

- Toronto Water Supply System consists of four water filtration plants, 18 pumping stations, 10 major underground storage reservoirs, four elevated storage tanks and approximately 510 kilometers of trunk watermains and 5,015 kilometers of distribution watermains.

The Island Water Treatment Plant is a direct water treatment plant, has a capacity 410 ML/d and is located on Centre Island, Toronto.

The other three Toronto water treatment plants are as follows:

- R.C. Harris Water Treatment Plant (capacity 950 ML/d) located at 2701 Queens Street East, Toronto;
- R.L. Clark Water Treatment Plant (capacity 615 ML/d) located at 45 Twenty Third Street, Etobicoke; and
- F.J. Horgan Water Treatment Plant (capacity 570 ML/d) located at 201 Copperfield Road, Toronto.

List all water treatment chemicals used over this reporting period

Alum, poly aluminum chloride, chlorine, sulphur dioxide, hydrofluosilicic acid, and aqua ammonia.

Were any significant expenses incurred to?

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

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

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

<p>- Please note the following amounts relate to various projects during 2009 and do not represent the total project cost. These numbers do not include normal operating and maintenance cost.</p>	
<p>- Filter Rehabilitation</p>	<p>\$3.2 Million</p>
<p>- Facility HVAC and Building Envelope Upgrades</p>	<p>\$2.4 million</p>
<p>- Treated Water Pumpage and Electrical Upgrades</p>	<p>\$2.9 million</p>

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
30-Apr-09	Island Water Treatment Coagulation Interruption	Not Applicable		Coagulation Interruption. PACL feed pump failed due to drop in pressure and standby unit failed to start. Started the feed pump manually and coagulation was restored. No change in effluent turbidity.	30-Apr-09
30-Apr-09	Island Water Treatment Coagulation Interruption	Not Applicable		Coagulation Interruption @ 1726 for 1 minute 50 seconds during the pumpd switch over. No effect on filter composite turbidity.	30-Apr-09
20-May-09	Island Water Treatment Coagulation Interruption	Not Applicable		Coagulation Interruption for 2 min on May 20/09 from 9:51 to 9:53 pm Filter Composite Turbidity 0.06 NTU	20-May-09
24-Jun-09	Island Water Treatment Coagulation Interruption	Not Applicable		Coagulation Interruption due to failure of PACL feed pump because of pressure spike. Coagulation lost for about 9 minutes.	24-Jun-09
29-Jun-09	Island Water Treatment Coagulation Interruption	Not Applicable		Coagulation Interruption of about 4 minutes due to manual intervention of RW flow. No change to Filter Effluent or Filter Comp turbidity.	29-Jun-09
7-Sep-09	Total Coliform	Presence	result in 100 mL sample	The test results of subsequent output samples taken at 06:00am and 12:00pm of Sep 7-09 indicated total Coliforms absence	7-Sep-09
23-Dec-09	Island Water Treatment Coagulation Interruption	Not Applicable		Stoppage of PACL for 5 minutes due to PACL train failure. Stopped filtration, restarted PACL, purged filters of un-coagulated water.	23-Dec-09

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	330	0 - 30	0 - 540	330	0 -76
Treated	1319	1315 A (100 % A)	1314 A, 1 P (99.9 %A)	1315	0-56

A = Absence P = Presence

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	7896	0.05 – 0.30
Chlorine	7857	0.90 – 3.25
Fluoride (If the DWS provides fluoridation)	7760	0.04 – 0.91
Chlorine for Distribution System	7895	0.26– 2.00 mg/L

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.

None			
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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	1/13 – 11/18	0-0	mg/L	No
Arsenic	1/13 – 11/18	0-0	mg/L	No
Barium	1/13 – 11/18	0.022-0.023	mg/L	No
Boron	1/13 – 11/18	0.019-0.026	mg/L	No
Cadmium	1/13 – 11/18	0-0	mg/L	No
Chromium	1/13 – 11/18	0-0	mg/L	No
Lead	1/13 – 11/18	0-0	mg/L	No
Mercury	1/13 – 11/18	0-0	mg/L	No
Selenium	1/13 – 11/18	0-0	mg/L	No
Sodium	1/06 – 12/29	12.7-15.0	mg/L	No
Uranium	1/13 – 11/18	0.0003-0.0004	mg/L	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Fluoride	1/01 – 12/31	0.11-0.68	mg/L	No
Nitrite	1/13 – 12/08	0-0	mg/L	No
Nitrate	1/13 – 12/08	0.42-0.49	mg/L	No

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	3/26 – 10/19	0-0	µg/L	No
Aldicarb	3/26 – 10/19	0-0	µg/L	No
Aldrin + Dieldrin	3/26 – 10/19	0-0	µg/L	No
Atrazine + N-dealkylated metabolites	3/26 – 10/19	0-0	µg/L	No
Azinphos-methyl	3/26 – 10/19	0-0	µg/L	No
Bendiocarb	3/26 – 10/19	0-0	µg/L	No
Benzene	1/05 - 12/01	0-0	µg/L	No
Benzo(a)pyrene	3/26 – 10/19	0-0	µg/L	No
Bromoxynil	3/26 – 10/19	0-0	µg/L	No
Carbaryl	3/26 – 10/19	0-0	µg/L	No
Carbofuran	3/26 – 10/19	0-0	µg/L	No
Carbon Tetrachloride	1/05 - 12/01	0-0	µg/L	No
Chlordane (Total)	3/26 – 10/19	0-0	µg/L	No
Chlorpyrifos	8/10 – 10/19	0-0	µg/L	No
Cyanazine	3/26 – 10/19	0-0	µg/L	No
Diazinon	3/26 – 10/19	0-0	µg/L	No
Dicamba	3/26 – 10/19	0-0	µg/L	No
1,2-Dichlorobenzene	1/05 - 12/01	0-0	µg/L	No
1,4-Dichlorobenzene	1/05 - 12/01	0-0	µg/L	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	3/26 – 10/19	0-0	µg/L	No
1,2-Dichloroethane	1/05 - 12/01	0-0	µg/L	No
1,1-Dichloroethylene (vinylidene chloride)	1/05 - 12/01	0-0	µg/L	No
Dichloromethane	1/05 - 12/01	0-0	µg/L	No
2-4 Dichlorophenol	3/26 – 10/19	0-0	µg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	3/26 – 10/19	0-0	µg/L	No
Diclofop-methyl	3/26 – 10/19	0-0	µg/L	No
Dimethoate	3/26 – 10/19	0-0	µg/L	No
Dinoseb	3/26 – 10/19	0-0	µg/L	No
Diquat	3/26 – 3/26	0-0	µg/L	No
Diuron	3/26 – 10/19	0-0	µg/L	No
Glyphosate	3/26 – 3/26	0-0	µg/L	No
Heptachlor + Heptachlor Epoxide	3/26 – 10/19	0-0	µg/L	No
Lindane (Total)	3/26 – 5/13	0-0	µg/L	No
Malathion	3/26 – 10/19	0-0	µg/L	No
Methoxychlor	3/26 – 10/19	0-0	µg/L	No
Metolachlor	3/26 – 10/19	0-0	µg/L	No
Metribuzin	3/26 – 10/19	0-0	µg/L	No
Monochlorobenzene	1/05 - 12/01	0-0	µg/L	No
Paraquat	3/26 – 3/26	0-0	µg/L	No
Parathion	8/10 – 10/19	0-0	µg/L	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Pentachlorophenol	3/26 – 10/19	0-0	µg/L	No
Phorate	3/26 – 10/19	0-0	µg/L	No
Picloram	3/26 – 10/19	0-0	µg/L	No
Polychlorinated Biphenyls(PCB)	3/26 – 8/10	0-0	µg/L	No
Prometryne	3/26 – 10/19	0-0	µg/L	No
Simazine	3/26 – 10/19	0-0	µg/L	No
THM (NOTE: show latest annual average)	1/05 – 12/01	11.9	µg/L	No
Temephos	3/26 – 10/19	0-0	µg/L	No
Terbufos	3/26 – 10/19	0-0	µg/L	No
Tetrachloroethylene	1/05 - 12/01	0-0	µg/L	No
2,3,4,6-Tetrachlorophenol	3/26 – 10/19	0-0	µg/L	No
Triallate	3/26 – 10/19	0-0	µg/L	No
Trichloroethylene	1/05 - 12/01	0-0	µg/L	No
2,4,6-Trichlorophenol	3/26 – 10/19	0-0	µg/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	3/26 – 10/19	0-0	µg/L	No
Trifluralin	3/26 – 10/19	0-0	µg/L	No
Vinyl Chloride	1/05 - 12/01	0-0	µg/L	No

Availability of the Report

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*Report Prepared:
February 27, 2010*

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

Drinking-Water System Number:	260090363
Drinking-Water System Name:	City of Toronto Distribution System
Drinking-Water System Owner:	City of Toronto
Drinking-Water Category:	Large Municipal Residential
Period Being Reported:	January 1, 2009 to December 31, 2009

<p><u>Complete if you 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 Summary Report required under O. Reg 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; padding: 5px;"> <p>Metro Hall, 18th Floor 55 John Street Toronto, Ontario M5V 3C6</p> </div>	<p><u>Complete for all other Categories</u> NOT APPLICABLE</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 all Drinking-Water Systems (if any), which receive all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
Region of York – receives some of their water from Toronto	260001929

Did you provide a copy of your annual report to all Drinking-Water Systems 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.

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Describe your Drinking-Water System

Toronto Water Supply System consists of four water filtration plants, 18 pumping stations, 10 major underground storage reservoirs, four elevated storage tanks and approximately 510 kilometers of trunk water mains and 5,015 kilometers of distribution water mains.

Working from 10 facilities across the city, District Operations staff inspects, operates and maintains the existing water distribution and wastewater collection systems as well as stormwater management facilities.

The Toronto Water Treatment plants are as follows:

- **R.C. Harris Water Treatment Plant (capacity of 950 ML/d) is located at 2701 Queen Street East, Toronto**
- **R.L. Clark Water Treatment Plant (capacity 615 ML/d) located at 45 Twenty Third Street, Etobicoke**
- **F.J. Horgan Water Treatment Plant (capacity 570 ML/d) located at 201 Copperfield Road, Toronto**
- **Island Water Treatment Plant (capacity 410 ML/d) located on Centre Island, Toronto**

List all water treatment chemicals used over the reporting period

None for the distribution system

Were any significant expenses incurred to?

- Installed required equipment
- Repair required equipment
- Replace required equipment

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

Please note the following amounts relate to various projects during 2009 and do not represent the total Project cost. These numbers do not include normal operating and maintenance cost.

- | | |
|--------------------------------------|------------------------|
| • Watermain Replacement | \$ 46.9 Million |
| • Watermain Structural Lining | \$ 18.9 Million |
| • Water Service Repair | \$ 7.0 Million |
| • Hydrant and Valve Repair | \$ 1.1 Million |

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

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 for the Distribution System

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
09-Feb-09	Total Coliform	Presence	Result in 100 mL sample	Resampled plus 2 vicinity samples	11-Feb-09
02-Apr-09	Total Coliform	Presence	Result in 100 mL sample	Resampled plus 2 vicinity samples	06-Apr-09
10-Apr-09	Total Coliform	Presence	Result in 100 mL sample	Resampled plus 2 vicinity samples	11-Apr-09
01-May-09	Total Coliform	Presence	Result in 100 mL sample	Resampled plus 2 vicinity samples	02-May-09
06-May-09	Total Coliform	Presence	Result in 100 mL sample	Resampled plus 2 vicinity samples	08-May-09
13-May-09	Total Coliform	Presence	Result in 100 mL sample	Resampled plus 2 vicinity samples	15-May-09
27-May-09	Total Coliform	Presence	Result in 100 mL sample	Resampled plus 2 vicinity samples	29-May-09
31-May-09	Total Coliform	Presence	Result in 100 mL sample	Hydrant Replacement. Resampled plus 2 vicinity samples	3-Jun-09
01-Jun-09	Total Coliform	Presence	Result in 100 mL sample	Resampled plus 2 vicinity samples	04-Jun-09
18-Jun-09	Total Coliform	Presence	Result in 100 mL sample	Resampled plus 2 vicinity samples	19-Jun-09
22-Jul-09	Total Coliform	Presence	Result in 100 mL sample	Resampled plus 2 vicinity samples	24-Jul-09
07-Aug-09	Total Coliform	Presence	Result in 100 mL sample	Resampled plus 2 vicinity samples	18-Aug-09
07-Aug-09	Total Coliform	Presence	Result in 100 mL sample	Resampled plus 2 vicinity samples	11-Aug-09
11-Aug-09	Total Coliform	Presence	Result in 100 mL sample	Resampled plus 2 vicinity samples	14-Aug-09
15-Aug-09	Total Coliform	Presence	Result in 100 mL sample	Resampled plus 2 vicinity samples	21-Aug-09
17-Aug-09	Total Coliform	Presence	Result in 100 mL sample	Resampled plus 2 vicinity samples	18-Aug-09
17-Aug-09	Total Coliform	Presence	Result in 100 mL sample	Resampled plus 2 vicinity samples	19-Aug-09
18-Aug-09	Total Coliform	Presence	Result in 100 mL sample	Resampled plus 2 vicinity samples	20-Aug-09
18-Aug-09	Total Coliform	Presence	Result in 100 mL sample	Resampled plus 2 vicinity samples	20-Aug-09
19-Aug-09	Total Coliform	Presence	Result in 100 mL sample	Resampled plus 2 vicinity samples	21-Aug-09
21-Aug-09	Total Coliform	Presence	Result in 100 mL sample	Resampled plus 1 vicinity sample	24-Aug-09
26-Aug-09	Total Coliform	Presence	Result in 100 mL sample	Resampled plus 2 vicinity samples	29-Aug-09
28-Aug-09	Total Coliform	Presence	Result in 100 mL sample	Resampled plus 2 vicinity samples	29-Aug-09
03-Sep-09	Total Coliform	Presence	Result in 100 mL sample	Resampled plus 2 vicinity samples	5-Sep-09

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

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
03-Sep-09	Total Coliform	Presence	Result in 100 mL sample	Resampled plus 2 vicinity samples	4-Sep-09
16-Sep-09	Total Coliform	Presence	Result in 100 mL sample	Resampled plus 2 vicinity samples	19-Sep-09
21-Sep-09	Total Coliform	Presence	Result in 100 mL sample	Resampled plus 2 vicinity samples	22-Sep-09
26-Sep-09	Total Coliform	Presence	Result in 100 mL sample	Resampled plus 2 vicinity samples	30-Sep-09
28-Sep-09	Total Coliform	Presence	Result in 100 mL sample	Resampled plus 2 vicinity samples	30-Sep-09
01-Oct-09	Total Coliform	Presence	Result in 100 mL sample	Resampled plus 2 vicinity samples	02-Oct-09
05-Oct-09	Total Coliform	Presence	Result in 100 mL sample	Resampled plus 2 vicinity samples	7-Oct-09
14-Oct-09	Total Coliform	Presence	Result in 100 mL sample	Resampled plus 2 vicinity samples	19-Oct-09
20-Oct-09	Total Coliform	Presence	Result in 100 mL sample	Resampled plus 2 vicinity samples	22-Oct-09
02-Nov-09	Total Coliform	Presence	Result in 100 mL sample	Resampled plus 2 vicinity samples	05-Nov-09
18-Nov-09	Total Coliform	Presence	Result in 100 mL sample	Resampled plus 2 vicinity samples	20-Nov-09
25-Nov-09	Total Coliform	Presence	Result in 100 mL sample	Resampled plus 2 vicinity samples	28-Nov-09
30-Nov-09	Total Coliform	Presence	Result in 100 mL sample	Resampled plus 2 vicinity samples	2-Dec-09

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

System	Number of Samples	Range of E.Coli of Fecal Results (min #)-(max #)	Range of Total Coliform Results (min #)-(max #)	Number of HPC Samples	Range of HPC Results (min #)-(max #)
Distribution	3851 A (100% A)	3851 A (100% A)	3848 A (99.9% A)	3829	0 – 762
Main Work	785 A (100% A)	785 A (100% A)	755 A (96.2% A)	790	0 - 350

A = Absence

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by the Annual Report.

For Distribution

	Number of Grab Samples	Range of Results (min #)-(max #)
Turbidity	3786	0.09 – 10.0 NTU
Chlorine	3816	0.25 – 1.45 mg/L

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

For Main Work

	Number of Grab Samples	Range of Results (min #)-(max #)
Turbidity	770	0.00 – 11.0 NTU
Chlorine	789	0.00 – 2.20 mg/L
Fluoride	1	0.56 – 0.56 mg/L

Operational testing for Lead and THMs for End of the Line Distribution System done under Schedule 13 of Regulation 170/03 during the period covered by this Annual Report.

For Distribution

	Number of Grab Samples	Range of Results (min #)-(max #)
THMs	10	1.3 – 27.3 µg/L

For Main Work

	Number of Grab Samples	Range of Results (min #)-(max #)
THMs	210	0.0 – 10.2 µg/L

***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	Annual Average	Unit of Measure
NONE	N/A	N/A	N/A	N/A

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

For Distribution

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Cl	4/21 - 8/18	25.8 - 27.5	mg/L	No
NO2	4/21 - 8/18	0	mg/L	No
NO3	4/21 - 8/18	0.46 - 0.48	mg/L	No
Nitrate + Nitrite	4/21 - 8/18	0.46 - 0.48	mg/L	No
SO4	4/21 - 8/18	27.3 - 29.1	mg/L	No
Conductivity	4/21 - 8/18	277 - 312	µS/cm	No

**For Main Work
NOT APPLICABLE**

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Cl	N/A	N/A	N/A	N/A
NO2	N/A	N/A	N/A	N/A
NO3	N/A	N/A	N/A	N/A
Nitrate + Nitrite	N/A	N/A	N/A	N/A
SO4	N/A	N/A	N/A	N/A
Conductivity	N/A	N/A	N/A	N/A

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

For Distribution

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Acrolein	1/05 - 12/01	0	µg/L	No
Acrylonitrile	1/05 - 12/01	0	µg/L	No
Benzene	1/05 - 12/01	0	µg/L	No
Bromoacetic acid	3/30 - 10/19	0	µg/L	No
Bromobenzene	1/05 - 12/01	0	µg/L	No
Bromochloroacetic acid	3/30 - 10/19	0 - 1	µg/L	No
Bromochloromethane	1/05 - 12/01	0	µg/L	No
Bromodichloromethane	1/05 - 12/01	4.4 - 9.1	µg/L	No
Bromoform	1/05 - 12/01	0 - 0.6	µg/L	No
Bromomethane	1/05 - 12/01	0	µg/L	No
n-Butylbenzene	1/05 - 12/01	0	µg/L	No

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
sec-Butylbenzene	1/05 - 12/01	0	µg/L	No
tert-Butylbenzene	1/05 - 12/01	0	µg/L	No
Carbon Tetrachloride	1/05 - 12/01	0	µg/L	No
Chloroacetic acid	3/30 - 10/19	0	µg/L	No
Chlorobenzene	1/05 - 12/01	0	µg/L	No
Chloroethane	1/05 - 12/01	0	µg/L	No
Chloroform	1/05 - 12/01	4.3 - 13	µg/L	No
Chloromethane	1/05 - 12/01	0	µg/L	No
2-Chlorotoluene	1/05 - 12/01	0	µg/L	No
4-Chlorotoluene	1/05 - 12/01	0	µg/L	No
Dibromoacetic acid	3/30 - 10/19	0 - 0.6	µg/L	No
Dichloroacetic acid	3/30 - 10/19	0 - 1.9	µg/L	No
Dichlorodifluoromethane	1/05 - 12/01	0	µg/L	No
1,2-Dibromo-3-chloropropane	1/05 - 12/01	0	µg/L	No
1,2-Dibromoethane	1/05 - 12/01	0	µg/L	No
1,2-Dichlorobenzene	1/05 - 12/01	0	µg/L	No
1,4-Dichlorobenzene	1/05 - 12/01	0	µg/L	No
1,3-Dichlorobenzene	1/05 - 12/01	0	µg/L	No
1,1-Dichloroethane	1/05 - 12/01	0	µg/L	No
1,2-Dichloroethane	1/05 - 12/01	0	µg/L	No
1,1-Dichloroethylene	1/05 - 12/01	0	µg/L	No
cis-1,2-Dichloroethylene	1/05 - 12/01	0	µg/L	No
trans-1,2-Dichloroethylene	1/05 - 12/01	0	µg/L	No
Dibromochloromethane	1/05 - 12/01	2 - 5.5	µg/L	No
Dibromomethane	1/05 - 12/01	0	µg/L	No
Dichloromethane (Methylene Chloride)	1/05 - 12/01	0	µg/L	No
1,2-Dichloropropane	1/05 - 12/01	0	µg/L	No
1,3-Dichloropropane	1/05 - 12/01	0	µg/L	No
2,2-Dichloropropane	1/05 - 12/01	0	µg/L	No
1,1-Dichloropropene	1/05 - 12/01	0	µg/L	No
cis-1,3-Dichloropropene	1/05 - 12/01	0	µg/L	No
trans-1,3-Dichloropropene	1/05 - 12/01	0	µg/L	No
Ethylbenzene	1/05 - 12/01	0	µg/L	No
HAA-6 (total)	3/30 - 10/19	0.6 - 4.4	µg/L	No
Hexachlorobutadiene	1/05 - 12/01	0	µg/L	No
Isopropylbenzene	1/05 - 12/01	0	µg/L	No
p-Isopropyltoluene	1/05 - 12/01	0	µg/L	No
Methyl-tert-butyl ether (MTBE)	1/05 - 12/01	0	µg/L	No
Naphthalene	1/05 - 12/01	0	µg/L	No
n-Propylbenzene	1/05 - 12/01	0	µg/L	No
Styrene	1/05 - 12/01	0	µg/L	No
1,1,1,2-Tetrachloroethane	1/05 - 12/01	0	µg/L	No
1,1,2,2-Tetrachloroethane	1/05 - 12/01	0	µg/L	No
Tetrachloroethylene	1/05 - 12/01	0	µg/L	No
THM (total)	1/05 - 12/01	11.3 - 27.3	µg/L	No
Toluene	1/05 - 12/01	0	µg/L	No
Trichloroacetic acid	3/30 - 10/19	0 - 1.2	µg/L	No
1,2,3-Trichlorobenzene	1/05 - 12/01	0	µg/L	No
1,2,4-Trichlorobenzene	1/05 - 12/01	0	µg/L	No
1,1,1-Trichloroethane	1/05 - 12/01	0	µg/L	No
1,1,2-Trichloroethane	1/05 - 12/01	0	µg/L	No
Trichloroethylene	1/05 - 12/01	0	µg/L	No

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Trichlorofluoromethane	1/05 - 12/01	0	µg/L	No
1,2,3-Trichloropropane	1/05 - 12/01	0	µg/L	No
1,2,4-Trimethylbenzene	1/05 - 12/01	0	µg/L	No
1,3,5-Trimethylbenzene	1/05 - 12/01	0	µg/L	No
Vinyl Chloride	1/05 - 12/01	0	µg/L	No
Xylenes (total)	1/05 - 12/01	0	µg/L	No
o-Xylene	1/05 - 12/01	0	µg/L	No
p,m-xylene	1/05 - 12/01	0	µg/L	No

For Main Work

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Acrolein	2/03 - 2/03	0	µg/L	No
Acrylonitrile	2/03 - 2/03	0	µg/L	No
Benzene	2/03 - 2/03	0	µg/L	No
Bromobenzene	2/03 - 2/03	0	µg/L	No
Bromochloromethane	2/03 - 2/03	0	µg/L	No
Bromodichloromethane	2/03 - 2/03	0 - 3.9	µg/L	No
Bromoform	2/03 - 2/03	0 - 0.3	µg/L	No
Bromomethane	2/03 - 2/03	0	µg/L	No
n-Butylbenzene	2/03 - 2/03	0	µg/L	No
sec-Butylbenzene	2/03 - 2/03	0	µg/L	No
tert-Butylbenzene	2/03 - 2/03	0	µg/L	No
Carbon Tetrachloride	2/03 - 2/03	0	µg/L	No
Chlorobenzene	2/03 - 2/03	0	µg/L	No
Chloroethane	2/03 - 2/03	0	µg/L	No
Chloroform	2/03 - 2/03	0 - 3.5	µg/L	No
Chloromethane	2/03 - 2/03	0	µg/L	No
2-Chlorotoluene	2/03 - 2/03	0	µg/L	No
4-Chlorotoluene	2/03 - 2/03	0	µg/L	No
Dibromochloromethane	2/03 - 2/03	0 - 2.5	µg/L	No
1,2-Dibromo-3-chloropropane	2/03 - 2/03	0	µg/L	No
1,2-Dibromoethane	2/03 - 2/03	0	µg/L	No
Dibromomethane	2/03 - 2/03	0	µg/L	No
1,2-Dichlorobenzene	2/03 - 2/03	0	µg/L	No
1,3-Dichlorobenzene	2/03 - 2/03	0	µg/L	No
1,4-Dichlorobenzene	2/03 - 2/03	0	µg/L	No
Dichlorodifluoromethane	2/03 - 2/03	0	µg/L	No
1,1-Dichloroethane	2/03 - 2/03	0	µg/L	No
1,2-Dichloroethane	2/03 - 2/03	0	µg/L	No
1,1-Dichloroethylene	2/03 - 2/03	0	µg/L	No
cis-1,2-Dichloroethylene	2/03 - 2/03	0	µg/L	No
trans-1,2-Dichloroethylene	2/03 - 2/03	0	µg/L	No
Dichloromethane (Methylene Chloride)	2/03 - 2/03	0	µg/L	No
1,2-Dichloropropane	2/03 - 2/03	0	µg/L	No
1,3-Dichloropropane	2/03 - 2/03	0	µg/L	No
2,2-Dichloropropane	2/03 - 2/03	0	µg/L	No
1,1-Dichloropropene	2/03 - 2/03	0	µg/L	No
cis-1,3-Dichloropropene	2/03 - 2/03	0	µg/L	No
trans-1,3-Dichloropropene	2/03 - 2/03	0	µg/L	No
Ethylbenzene	2/03 - 2/03	0	µg/L	No

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Hexachlorobutadiene	2/03 - 2/03	0	µg/L	No
Isopropylbenzene	2/03 - 2/03	0	µg/L	No
p-Isopropyltoluene	2/03 - 2/03	0	µg/L	No
Methyl-tert-butyl ether (MTBE)	2/03 - 2/03	0	µg/L	No
Naphthalene	2/03 - 2/03	0	µg/L	No
n-Propylbenzene	2/03 - 2/03	0	µg/L	No
THM (total)	2/03 - 2/03	0 - 10.2	µg/L	No
1,1,1,2-Tetrachloroethane	2/03 - 2/03	0	µg/L	No
1,1,2,2-Tetrachloroethane	2/03 - 2/03	0	µg/L	No
Tetrachloroethylene	2/03 - 2/03	0	µg/L	No
Toluene	2/03 - 2/03	0	µg/L	No
1,2,3-Trichlorobenzene	2/03 - 2/03	0	µg/L	No
1,2,4-Trichlorobenzene	2/03 - 2/03	0	µg/L	No
1,1,1-Trichloroethane	2/03 - 2/03	0	µg/L	No
1,1,2-Trichloroethane	2/03 - 2/03	0	µg/L	No
Trichloroethylene	2/03 - 2/03	0	µg/L	No
Trichlorofluoromethane	2/03 - 2/03	0	µg/L	No
1,2,3-Trichloropropane	2/03 - 2/03	0	µg/L	No
1,2,4-Trimethylbenzene	2/03 - 2/03	0	µg/L	No
1,3,5-Trimethylbenzene	2/03 - 2/03	0	µg/L	No
Vinyl Chloride	2/03 - 2/03	0	µg/L	No
Xylenes (total)	2/03 - 2/03	0	µg/L	No
o-Xylene	2/03 - 2/03	0	µg/L	No
p,m-xylene	2/03 - 2/03	0	µg/L	No

Availability of the Report

This report along with a copy of the Summary Report (to be available after March 31, 2010) prepared under Schedule 22 of O. Reg. 170/03 will be posted on the City's website at www.toronto.ca/water.

These reports will also be available for inspection at the Toronto Water offices in Metro Hall, 18th Floor, and 55 John Street, Toronto, Ontario M5V 3C6 or by calling 416-392-8222.

Report Prepared:
 February 23, 2009