

**Part III Form 2**

**Section 11. ANNUAL REPORT.**

<b>Drinking-Water System Number:</b>	260006477
<b>Drinking-Water System</b>	Falconbridge Distribution System
<b>Drinking-Water System Owner:</b>	City of Greater Sudbury
<b>Drinking-Water System Category:</b>	Large Municipal Residential
<b>Period being reported:</b>	From 2009-01-01 To 2009-12-31

<p><b><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></b></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></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>www.greatersudbury.ca TDS-Engineering Department</p> </div>	<p><b><u>Complete for all other Categories.</u></b></p> <p>Number of Designated Facilities served: <input type="text" value="0"/></p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p> <p>Number of Interested Authorities you report to: <input type="text" value="0"/></p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></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

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

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/Citizen Service Centre
- Public access/notice via other method \_\_\_\_\_

**Describe your Drinking-Water System**

The Falconbridge water system, as owned and operated by the City of Greater Sudbury, is a Fluoridation Building and distribution network. Water is supplied to the Fluoride Building from a well field north of the Sudbury Airport and was developed by Xstrata. The water is treated to comply with O. Reg. 170/03 by XStrata then delivered to the community of Falconbridge via the City fluoride building. The CGS purchased the wells from Xstrata in April 2009 and now owns the entire system. The wells are covered in a separate report and are not the subject of this report. Up until April 2009, the CGS only added fluoride, as required, before the water enters the community distribution network. The CGS continues to add fluoride from a Fluoridation Building separate from the well site. The distribution network in the community of Falconbridge is owned by the CGS but was developed by the former Falconbridge Mines Ltd. for the original townsite.

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

Hydrofluosilicic Acid UN#1778

**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**

Roof repairs at Falconbridge water tank: \$30,000.00

**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
2009/01/23	Pressure	<20	psi	Flushing mains/pipes;	2009/01/26
2009/03/18	Fluoride	2.00	mg/L	Resample/Re-test;	2009/03/18
2009/06/15	Chlorine Residual	0.04	mg/L	Resample/Re-Test	2009/06/15
2009/08/07	Total Coliform	1	cfu	Resample/Re-Test	2009/08/08
2009/08/07	Pressure	<5	psi	Flushing mains/pipes;	2009/08/08
2009/10/20	Chlorine Residual	0.04	mg/L	Resample/Re-test;	2009/10/20
2009/12/14	Turbidity	5.19	NTU	Flushing mains/pipes;	2010/01/14

**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 #)
<b>Distribution</b>					
	177	0 to 0	0 to 1	40	0 to 30

**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 #)
<b>Chlorine Residual Distribution System</b>	8,760	0.04 - 2.78 mg/L

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

**HARDY FLUORIDE CHAMBER**

<b>Turbidity</b>		
<b>Chlorine</b>	8,760	0.34 - 2.78 mg/L
<b>Fluoride</b> (If the DWS provides fluoridation)	8,760	0.20 - 2.00 mg/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 or 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	Result Value	Unit of Measure	Exceedance
Lead	2009/12/07	0.001	mg/L	No

**HARDY FLUORIDE CHAMBER**

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	2008/12/22	0.0005	mg/L	No
Arsenic	2008/12/22	0.0033	mg/L	No
Barium	2008/12/22	0.0052	mg/L	No
Boron	2008/12/22	0.0053	mg/L	No
Cadmium	2008/12/22	0.0001	mg/L	No
Chromium	2008/12/22	0.0015	mg/L	No
Mercury	2008/12/22	0.00012	mg/L	No
Selenium	2008/12/22	0.001	mg/L	No
Uranium	2008/12/22	0.001	mg/L	No
Fluoride	2004/01/19	0.1	mg/L	No
Sodium	2009/12/07	21.90	mg/L	Yes

**Summary of lead testing under Schedule 15.1 during this reporting period.**

Location Type	Number of Samples	Range of Lead Results (min#) - (max#)	Number of Exceedances
Plumbing	33	0.001 - 0.004 mg/L	0
Distribution	7	0.001 - 0.001 mg/L	0

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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
THM (NOTE: show latest annual average)	2009	0.0031	mg/L	No

**HARDY FLUORIDE CHAMBER**

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	2008/12/22	0.0004	mg/L	No
Aldicarb	2008/12/22	0.00085	mg/L	No
Aldrin + Dieldrin	2008/12/22	0.000004	mg/L	No

Atrazine + N-dealkylated metabolites	2008/12/22	0.0009	mg/L	No
Azinphos-methyl	2008/12/22	0.0003	mg/L	No
Bendiocarb	2008/12/22	0.0017	mg/L	No
Benzene	2008/12/22	0.00025	mg/L	No
Benzo(a)pyrene	2008/12/22	0.00001	mg/L	No
Bromoxynil	2008/12/22	0.0005	mg/L	No
Carbaryl	2008/12/22	0.0017	mg/L	No
Carbofuran	2008/12/22	0.0017	mg/L	No
Carbon Tetrachloride	2008/12/22	0.00025	mg/L	No
Chlordane (Total)	2008/12/22	0.000004	mg/L	No
Chlorpyrifos	2008/12/22	0.0003	mg/L	No
Cyanazine	2008/12/22	0.0003	mg/L	No
Diazinon	2008/12/22	0.0003	mg/L	No
Dicamba	2008/12/22	0.0002	mg/L	No
1,2-Dichlorobenzene	2008/12/22	0.00025	mg/L	No
1,4-Dichlorobenzene	2008/12/22	0.00025	mg/L	No
(DDT) + metabolites	2008/12/22	0.000005	mg/L	No
1,2-Dichloroethane	2008/12/22	0.00025	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2008/12/22	0.00025	mg/L	No
Dichloromethane	2008/12/22	0.00025	mg/L	No
2-4 Dichlorophenol	2008/12/22	0.000056	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2008/12/22	0.0002	mg/L	No
Diclofop-methyl	2008/12/22	0.0002	mg/L	No
Dimethoate	2008/12/22	0.0003	mg/L	No
Dinoseb	2008/12/22	0.00005	mg/L	No
Diquat	2008/12/22	0.007	mg/L	No
Diuron	2008/12/22	0.0085	mg/L	No
Glyphosate	2008/12/22	0.02	mg/L	No
Heptachlor + Heptachlor Epoxide	2008/12/22	0.000004	mg/L	No
Linadane (Total)	2008/12/22	0.00000038	mg/L	No
Malathion	2008/12/22	0.0003	mg/L	No
Methoxychlor	2008/12/22	0.00000074	mg/L	No
Metolachlor	2008/12/22	0.0002	mg/L	No
Metribuzin	2008/12/22	0.0002	mg/L	No
Monochlorobenzene	2008/12/22	0.00025	mg/L	No
Paraquat	2008/12/22	0.001	mg/L	No
Parathion	2008/12/22	0.0002	mg/L	No
Pentachlorophenol	2008/12/22	0.000056	mg/L	No
Phorate	2008/12/22	0.0003	mg/L	No
Picloram	2008/12/22	0.00005	mg/L	No
Polychlorinated Biphenyls(PCB)	2008/12/22	0.0000023	mg/L	No
Prometryne	2008/12/22	0.0002	mg/L	No
Simazine	2008/12/22	0.0003	mg/L	No
Temephos	2006/02/22	0.03	mg/L	No
Terbufos	2008/12/22	0.0002	mg/L	No
Tetrachloroethylene	2008/12/22	0.00025	mg/L	No
2,3,4,6-Tetrachlorophenol	2008/12/22	0.000056	mg/L	No
Triallate	2008/12/22	0.0002	mg/L	No
Trichloroethylene	2008/12/22	0.00025	mg/L	No
2,4,6-Trichlorophenol	2008/12/22	0.000056	mg/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	2008/12/22	0.00005	mg/L	No
Trifluralin	2008/12/22	0.0002	mg/L	No

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

Vinyl Chloride	2008/12/22	0.00025	mg/L	No
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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

(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)