

**Part III Form 2**

**Section 11. ANNUAL REPORT.**

<b>Drinking-Water System Number:</b>	24000020
<b>Drinking-Water System</b>	Nickel Rim
<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 2009-04-01 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
Falconbridge Distribution System	220006477

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**

In April 2009, the City of Greater Sudbury purchased the Falconbridge Wells and Storage Tank from Xstrata. The Falconbridge system consists of: 3 drilled wells (No. 5, 6, and 7), each 457 mm in diameter and 54 meters deep. Each well is equipped with a submersible pump rated at 16.4 litres/second, for a maximum flow of 49.2 litres/second. All three wells share a common treatment building that includes stand-by power, chlorine gas for disinfection, and a corrosion inhibitor. The wells are located North of the Sudbury Airport and were developed by Xstrata. An Elevated Storage Tank, a Fluoridation building, Booster Pumping Station and a Pressure Regulating Valve make up the rest of the system, which is the subject of a separate report. Water is supplied south to the Town of Falconbridge and north via the Western Main to the Nickel Rim reservoir. There is a booster pump for supplying water to Nickel Rim reservoir when a well pump is not operating. The City sells water to Xstrata and two industrial clients along the South transmission line and fluoridates the water before it enters the Falconbridge Municipal distribution system.

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

Chlorine Gas UN#1017, Phosphate

**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**

Well and water tank takeover, SCADA upgrades and legal fees: \$64,000.00

**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
2009/05/06	Chlorine Residual	0.60/0.22	mg/L	Flushing mains/pipes;	2009/05/11
2009/10/30	Chlorine Residual	0	mg/L	Disinfectant restored/increased;	2009/10/30

**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>Raw: NICKEL RIM #5</b>					
	40	0 to 0	0 to 0		
<b>Raw: NICKEL RIM #6</b>					
	41	0 to 0	0 to 0		
<b>Raw: NICKEL RIM #7</b>					
	40	0 to 0	0 to 0		
<b>Treated: NICKEL RIM</b>					
	44	0 to 0	0 to 0	44	0 to 20
<b>Distribution</b>					
	39	0 to 0	0 to 0	7	0 to 10

**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 #)
Chlorine Residual Distribution System		mg/L

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

**NICKEL RIM**

Turbidity	8,760	0.02 - 2.29	NTU
Chlorine	8,760	0.06 - 3.86	mg/L
Fluoride (If the DWS provides fluoridation)			

***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				

**NICKEL RIM**

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony				
Arsenic				
Barium				
Boron				
Cadmium				
Chromium				
Mercury				
Selenium				
Uranium				
Fluoride				
Nitrate	2009/04/08	0.14	mg/L	No
	2009/06/15	0.32	mg/L	No
	2009/09/14	0.10	mg/L	No
	2009/12/14	0.10	mg/L	No
Nitrite	2009/04/08	0.05	mg/L	No
	2009/06/15	0.05	mg/L	No
	2009/09/14	0.05	mg/L	No
	2009/12/14	0.05	mg/L	No

**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		mg/L	
Distribution		mg/L	

**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)				

**NICKEL RIM**

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				
(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				
Linadane (Total)				
Malathion				
Methoxychlor				
Metolachlor				
Metribuzin				
Monochlorobenzene				
Paraquat				
Parathion				
Pentachlorophenol				
Phorate				
Picloram				
Polychlorinated Biphenyls(PCB)				
Prometryne				
Simazine				
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				
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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)**