



OPTIONAL ANNUAL REPORT TEMPLATE

Drinking-Water System Number:	260007088
Drinking-Water System Name:	Minto Pines Subdivision Drinking Water System
Drinking-Water System Owner:	Town of Minto
Drinking-Water System Category:	Small Municipal Residential
Period being reported:	January 1, 2011 to December 31, 2011

<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 [<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 []</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>Town of Minto 5941 Hwy #89 R.R. #1 Harriston, ON N0G 1Z0</p> </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">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: 5px; width: fit-content; margin: 0 auto;">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 all Drinking-Water Systems (if any), which receive all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
N/A	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 []

Indicate how you notified system users that your annual report is available, and is free of charge.

- Public access/notice via the web** Town of Minto Website
- Public access/notice via Government Office**
- Public access/notice via a newspaper** Advertisements in Local Newspapers
- Public access/notice via Public Request**
- Public access/notice via a Public Library**
- Public access/notice via other method** Tax Letter

Describe your Drinking-Water System

This Drinking-Water System supplies drinking water to 30 residential estate lots within the Minto Pines Subdivision.

There is one (1) well, equipped with a submersible pump. In the pumphouse, the raw water supply is injected with 12% sodium hypochlorite for disinfection. The treated water leaves the pumphouse and enters an underground contact pipe and is discharged into the distribution system after adequate contact time is achieved. In the event of a power outage, the pumphouse is equipped with automatic back-up power supply.

The wells are controlled (*start/stop*) automatically based pressures in the distribution system. The pumphouse is equipped with alarms for chlorination system failure (*and corresponding lockout of well pumps*), low-pressure level and intrusion. The pumphouse has continuous monitoring analyzers for pre and post chlorine disinfection.

A SCADA System provides monitoring and data collection. The SCADA System continuously monitors pre and post contact pipe “free” chlorine residuals and flows. This data is transmitted to the Harriston shop where “off site” information is available for monitoring and data collection purposes.

List all water treatment chemicals used over this reporting period

- 12% Sodium Hypochlorite (*disinfectant*)



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

To meet the requirements of O. Reg. 170/03, upgrades, installations and replacement of various system components have been completed. However, maintaining the system includes repair and replacement of individual components as required.

In 2011, \$1,400.00 was spent on a portable generator,\$850.00 on a metal detector and \$6,500.00 on computer equipment and upgrades between all 4 water systems.

In Minto Pines, approximately \$2,000.00 on a replacement metering pump and \$14,000.00 to install the pump and complete the video logging of the water system.

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
N/A	N/A	N/A	N/A	N/A	N/A

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 #)	Range of HPC Results (min #)-(max #)	Number of HPC Samples
Raw	52	0 - 0	0 - 0	N/A	N/A
Treated	N/A	N/A	N/A	N/A	N/A
Distribution	52	0 - 0	0 - 0	<10 - 110	52

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

Operational Testing		Number of Grab Samples	Range of Results (min #)-(max #)
Turbidity	Raw	75	0.00 – 0.96
Chlorine	Treated	367	0.74 – 1.74
	Distribution	255	0.60 – 1.42
Fluoride (If the DWS provides fluoridation)		N/A	N/A
<i>NOTE: Record the unit of measure if it is not milligrams per litre.</i>			

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
N/A	N/A	N/A	N/A	N/A

Minto Pines Well #1

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	16/05/07	<1	(ug/L)	6
Arsenic	16/05/07	<1	(ug/L)	25
Barium	16/05/07	30	(ug/L)	1000
Boron	16/05/07	<50	(ug/L)	5000
Cadmium	16/05/07	<0.1	(ug/L)	5
Chromium	16/05/07	<1	(ug/L)	50
*Lead			(ug/L)	100
Mercury	16/05/07	<0.1	(ug/L)	1
Selenium	16/05/07	<5	(ug/L)	10
Sodium	20/06/07	6.6	(mg/L)	20
Uranium	16/05/07	<5	(ug/L)	20
Fluoride	20/06/07	<0.1	(mg/L)	1.5
Nitrite	07/02/11	<0.1	(mg/L)	1
	16/05/11	<0.1		



Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Nitrite	15/08/11	<0.1	(mg/L)	1
	07/11/11	<0.1		
Nitrate	07/02/11	0.78	(mg/L)	10
	16/05/11	0.88		
	15/08/11	0.83		
	07/11/11	0.86		

*only for drinking water systems testing under Schedule 15.2; this includes large municipal non-residential systems, small municipal non-residential systems, non-municipal seasonal residential systems, large non-municipal non-residential systems, and small non-municipal non-residential systems

Summary of lead testing under Schedule 15.1 during this reporting period

(applicable to the following drinking water systems; large municipal residential systems, small municipal residential systems, and non-municipal year-round residential systems)

Location Type	Number of Samples	Range of Lead Results (min#) – (max #)	Number of Exceedances
Plumbing	16	<1.0 – 2.1 ug/L	N/A
Distribution	3	<1.0 – <1.0 ug/L	N/A

Minto Pines Well #1

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	16/05/07	<0.4	(ug/L)	5
Aldicarb	16/05/07	<0.9	(ug/L)	9
Aldrin + Dieldrin	16/05/07	<0.04	(ug/L)	0.7
Atrazine + N-dealkylated metabolites	16/05/07	<0.2	(ug/L)	5
Azinphos-methyl	16/05/07	<0.10	(ug/L)	20
Bendiocarb	16/05/07	<0.2	(ug/L)	40
Benzene	16/05/07	<0.5	(ug/L)	5
Benzo(a)pyrene	16/05/07	<0.01	(ug/L)	0.01
Bromoxynil	16/05/07	<0.2	(ug/L)	5
Carbaryl	16/05/07	<0.2	(ug/L)	90



Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Carbofuran	16/05/07	<0.2	(ug/L)	90
Carbon Tetrachloride	16/05/07	<0.5	(ug/L)	5
Chlordane (Total)	16/05/07	<0.3	(ug/L)	7
Chlorpyrifos	16/05/07	<0.10	(ug/L)	90
Cyanazine	16/05/07	<0.10	(ug/L)	10
Diazinon	16/05/07	<0.10	(ug/L)	20
Dicamba	16/05/07	<0.2	(ug/L)	120
1,2-Dichlorobenzene	16/05/07	<0.5	(ug/L)	200
1,4-Dichlorobenzene	16/05/07	<0.5	(ug/L)	5
Dichlorodiphenyltrichloroethane (DDT) + metabolites	16/05/07	<0.4	(ug/L)	30
1,2-Dichloroethane	16/05/07	<0.5	(ug/L)	5
1,1-Dichloroethylene (vinylidene chloride)	16/05/07	<0.5	(ug/L)	14
Dichloromethane	16/05/07	<0.5	(ug/L)	50
2-4 Dichlorophenol	16/05/07	<0.5	(ug/L)	900
2,4-Dichlorophenoxy acetic acid (2,4-D)	16/05/07	<0.2	(ug/L)	100
Diclofop-methyl	16/05/07	<0.2	(ug/L)	9
Dimethoate	16/05/07	<0.1	(ug/L)	20
Dinoseb	16/05/07	<0.2	(ug/L)	10
Diquat	16/05/07	<7	(ug/L)	70
Diuron	16/05/07	<10	(ug/L)	150
Glyphosate	16/05/07	<10	(ug/L)	280
Heptachlor + Heptachlor Epoxide	16/05/07	<0.2	(ug/L)	3
Lindane (Total)	16/05/07	<0.1	(ug/L)	4
Malathion	16/05/07	<0.1	(ug/L)	190
Methoxychlor	16/05/07	<0.1	(ug/L)	900
Metolachlor	16/05/07	<0.1	(ug/L)	50
Metribuzin	16/05/07	<1.0	(ug/L)	80
Monochlorobenzene	16/05/07	<0.5	(ug/L)	80
Paraquat	16/05/07	<1	(ug/L)	10
Parathion	16/05/07	<0.1	(ug/L)	50
Pentachlorophenol	16/05/07	<0.5	(ug/L)	60
Phorate	16/05/07	<0.1	(ug/L)	2
Picloram	16/05/07	<0.2	(ug/L)	190
Polychlorinated Biphenyls (PCB)	16/05/07	<0.06	(ug/L)	3
Promethyne	16/05/07	<0.1	(ug/L)	1
Simazine	16/05/07	<0.1	(ug/L)	10

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
THM	07/02/11	5.0	(ug/L)	100
	16/05/11	14.2		
	15/08/11	9.5		
	07/11/11	9.0		
Temephos	16/05/07	<0.1	(ug/L)	280
Terbufos	16/05/07	<0.2	(ug/L)	1
Tetrachloroethylene	16/05/07	<0.5	(ug/L)	30
2,3,4,6-Tetrachlorophenol	16/05/07	<0.5	(ug/L)	100
Triallate	16/05/07	<0.1	(ug/L)	230
Trichloroethylene	16/05/07	<0.5	(ug/L)	50
2,4,6-Trichlorophenol	16/05/07	<0.5	(ug/L)	5
2,4,5-Trichlorophenoxy acetic acid (2,4,5,-T)	16/05/07	<0.2	(ug/L)	280
Trifluralin	16/05/07	<0.1	(ug/L)	45
Vinyl Chloride	16/05/07	<0.5	(ug/L)	2

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
N/A	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)