Drinking-Water System Number: Drinking-Water System Name: Drinking-Water System Owner: Drinking-Water System Category: Period being reported:

220000406
North Bay Water Drinking Water System
The Corporation of the City of North Bay
Large Municipal Residential
January 1, 2014 to December 31, 2014

<u>Complete if your Category is Large Municipal</u> <u>Residential or Small Municipal Residential</u>	Complete for all other Categories.
Does your Drinking-Water System serve more than 10,000 people? Yes [X] No []	Number of Designated Facilities served:
Is your annual report available to the public	Did you provide a copy of your annual
at no charge on a web site on the Internet?	report to all Designated Facilities you
Yes [X] No []	serve?
	Yes [] No []
Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.	Number of Interested Authorities you report to:
The Corporation of the City of North Bay P.O. Box 360 200 McIntyre Street East North Bay, ON P1B 8H8	Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [] No []

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:

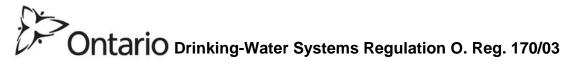
Drinking Water System Name	Drinking Water System Number
N/A	

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.

- [X] Public access/notice via the web
- [X] Public access/notice via a newspaper



Describe your Drinking-Water System

The City of North Bay water treatment plant (WTP), water distribution facilities and water distribution piping system are owned and operated by the Corporation of the City of North Bay.

The City of North Bay Water Treatment System is classified as a "Large Municipal Residential" Drinking-Water System, Class 3 Water Treatment Plant and Class 4 Water Distribution System with Drinking-Water System Number: 220000460. The WTP, located at 248 Lakeside Drive in North Bay, treats water from Trout Lake which is part of the Mattawa River watershed. The WTP services a population of approximately 54,000 and the permit to take water permits consumption up to 79,500 cubic meters per day.

The water distribution facilities consist of the following:

Ellendale Reservoir, High lift Pump Station & Re-chlorination Facility;

CFB Reservoir;

Canadore Pumping Station;

Judge Avenue Valve Chamber;

Birches Road Standpipe and Re-chlorination Station; and

Airport Road Standpipe, Booster Pumping Station and Re-chlorination Facility.

The membrane filtration water treatment plant has the design capacity of 79,500 cubic meters per day. The plant is a SCADA controlled membrane filtration system with ultraviolet and chlorine disinfection systems. The plant also includes fluoride addition along with caustic pH adjustment prior to delivery to the distribution system.

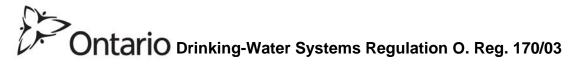
The membrane filtration plant meets the Ontario Drinking Water Standards requirements for the removal/disinfection of 3-log Giardia Lambia, 2-log Cryptosporidium and 4-log Viruses. The membrane filtration Primary Barrier provides for a 3-log Giardia removal, 2-log Cryptosporidum removal. The chlorine/UV disinfection Secondary Barrier provides for a 0.5 UV Giardia removal, 0.5-log UV Cryptosporidum removal and a 4 log chlorine virus removal.

In general the North Bay WTP can be described as follows: Intake

A 1200mm diameter series 45 polyethylene intake pipe, with a capacity of 80,000 cubic meters per day. The pipe, constructed in 1973, extends approximately 300 meters into Delaney Bay of Trout Lake and includes an intake structure consisting of a steel inlet bell mouth with fibre reinforced plastic (FRP) cage and is in approximately 21.5 metres of water at low water level.

Membrane Feed Pump Well/Prescreening

Two (2) parallel sub-surface well chambers with level monitoring containing, two (2) 6mm mesh manual prescreen in series, five (5) vertical turbine pumps (4 duty and one standby) rated at 20 m3/d feeing the primary membrane system.



Membrane Feed Strainers

Five (5) 300 micron automatic membrane feed strainers (four duty and one standby).

Treatment Plant Process Areas

A building housing the following process components:

- primary and secondary membrane filtration system;
- primary and secondary UV disinfection system;
- split chlorine contact tank;
- split highlift pump well
- three (3) chemical storage and delivery rooms housing membrane cleaning and neutralization chemical systems, pre-chlorination system, primary disinfection chemical system, residual chlorination chemical system, alkalinity adjustment system, and fluoride addition system;
 - highlift pumping;
 - Generator room;
 - Electrical room.
 - compressor/blower room

Administration Area

Two floor administrative area including laboratory/control room, server room, multipurpose training room, offices, washrooms, women's and men's locker rooms, janitor room, building mechanical room and storage room.

Membrane Filtration

Eleven (11) pressurized primary membrane racks treating water from the membrane feed strainers, two(2) pressurized secondary membrane racks treating non-chemical backwash water from the primary membrane racks. The primary racks have a maximum production flow rate of 78.7 MLD based on raw water flow rate of 79.5 MLD, Ancillary systems including backwash pumps, instrument air for operating valves and integrity testing membranes, process blowers, and chemical cleaning and neutralization systems.

UV Disinfection Systems

Three (3) 600mm UV reactors (two duty and one standby) treating water from the eleven (11) pressurized primary membrane racks and two (2) secondary membrane racks. Each reactor contains medium pressure high intensity lamps housed in quartz sleeve and equipped with self cleaning mechanism and intensity sensor.

Chemical systems for:

Primary disinfection

Secondary (residual) disinfection

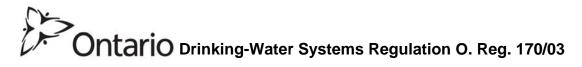
Fluoride Dosing

Alkalinity Adjustment

Membrane cleaning

Membrane cleaning solutions neutralization

Chlorine Contact Tank #1 and #2



Two (2) baffled chlorine contact tanks in series with storage volumes of 688 cubic meters (tank #1) and 502 cubic meters (tank #2).

High Lift Pump Well #1 and #2

High lift pump well #1 has a capacity of approximately 240 cubic meters and is equipped with one (1) variable speed and two (2) constant speed vertical turbine high lift pumps each rated at 20 MLD. High lift pump well #2 has a capacity of approximately 240 cubic meters and is equipped with one (1) variable speed and one (1) constant speed vertical turbine high lift pump each rated at 20 MLD.

Generator Room

One (1) dual fuel generator set (NG/Diesel) with a rating of 2050KW, to provide power during peak hours and emergency situations.

Wastewater Disposal System

Primary Membrane Backwash Tank

Tank with a volume of approximately 310 cubic meters,

Two (2) membrane feed pumps supplying water to the Secondary Membrane System.

Secondary Waste Tank

Tank with a volume of approximately 130 cubic meters,

Two (2) pumps, one duty and one standby, to deliver water to the sanitary sewer.

Neutralization Tank #1 and #2

Two (2) tanks each with a volume of 150 cubic meters, pH and Chlorine Residual analyzers.

Sanitary Sewage Disposal

One sump with two (2) submersible pumps in the Administration Area and two (2) sumps and two (2) submersible pumps in the Process Area discharging to the sanitary sewer along Lakeside Drive

The treated water is pumped to the distribution system.

The water distribution facilities can be described as follows:

Ellendale Reservoir, Highlift Pumping Station and Re-chlorination Facility The facility is a reinforced concrete at-grade, double cell, un-baffled, treated water reservoir, located at the east end of Ellendale Drive. The reservoir has an approximate capacity of 18,200 cubic meters, with dimensions of 71 meters by 38 meters by 7 meters. The facility is equipped with a sodium hypochlorite re-chlorination system, on-line continuous water quality analyzers for free chlorine and turbidity and a standby generator to operate the facility during power outages.

Birchs Road Standpipe and Re-chlorination Station

The facility consists of one (1) 39 meter high, 19 meter diameter, 11,775 cubic meter capacity, steel, un-baffled, treated water standpipe, located near the southwest corner of Birchs Road and Booth Road. The facility is equipped with sodium hypochlorite rechlorination system, on-line continuous water quality analyzers for free chlorine and turbidity and fixed 7.5kW, 120/240 Volt single phase, diesel powered generator to power the re-chlorination and SCADA communications during prolonged power outages.

Judge Avenue Valve Chamber

The facility consists of a valve and is located near the northeast corner of Judge Avenue and Lakeshore Drive. The facility is equipped with a fixed 7.5kW 120.240 Volt single phase, diesel powered generator to power the valve and SCADA communications during prolonged power outages. Valve control that is integrated with Birches Standpipe. The equipment for a re-chlorination station is located at the facility however not currently in use.

CFB North Bay Reservoir and Re-chlorination Facility

The facility consists of one (1) 1820 cubic meter capacity, un-baffled reservoir and a rechlorination facility located at the north end of Manston Crescent. The facility is equipped with on line continuous water quality analyzer for free chlorine and standby power.

Canadore Pumping Station

The facility is equipped with highlift pumps and pressurized cushion tanks to maintain pressure in the pressurized zone of the distribution system servicing Canadore College and Nipissing University. There is an on-line continuous water quality analyzer to monitor free chlorine residual and a 200kW, 347/600 Volt, 3 phase diesel generator to provide power and SCADA communications during prolonged power outages.

Airport Standpipe, Booster Pumping Station

This 4,000 cubic meter water storage standpipe, booster pumping station and rechlorination facility was constructed in 2009. With the standpipe, high lift pumps and pressurized cushion tanks this facility maintains pressure in the pressurized zone of the distribution system servicing the Airport and Carmichael Drive areas. The overall system consists of pressure zones 4 and 5 which accommodate a total of nine pumps, including three booster pumps (2 duty and 1 standby) for Zone 4, four booster pumps (3 duty and 1 standby) and two fire pumps for Zone 5. The water standpipe is connected to the zone 4 distribution header to provide zone 4 fire flow and peak hour demand. It is also connect to the zone 5 fire pumps suction header to provide zone 5 fire demand. Zone 5 is equipped with four (4) pneumatic tanks connected to the Zone 5 discharge header to mitigate minor pressure fluctuations within the distribution system, and to provide some volume of available storage during power interruptions before the standby power system engages. This will mitigate the potential for negative pressure in the distribution system.

List all water treatment chemicals used over this reporting period

Sodium Hydroxide Sodium Hypochlorite Hydrofluosilicic Acid

Were any significant expenses incurred to?

- [X] Install required equipment
- [X] Repair required equipment
- [X] Replace required equipment

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

Major repair and replacement to ensure reliable treatment and distribution of water to the water system.

The major capital repairs and replacements include:

- Installation of backup data logger which tracks all required compliance data in the event the primary historian fails
- Birch's Standpipe valve chamber piping replaced
- Pax mixer installed in Birch's Standpipe
- Chlorine dosing pumps and panel installed at Birch's Standpipe
- Birch's Standpipe cleaning and inspection completed
- Airport Standpipe cleaning and inspection completed
- Valves and actuators replaced on membrane filtration system
- Third party flow meter calibration at all water system sites
- Annual hoist and crane inspections for all equipment at all water systems facilities
- Annual maintenance of generators at all water facilities
- Replaced 40 m of 150mm watermin at O'Brien Street culvert
- Replaced 90m of 150mm watermain with 270m of 300mm watermain on Ferguson street
- Installed 150mm watermain loop and private hydrant on Wallace Road
- Replaced 45m of 100mm with 150mm watermain on Second Avenue
- Replaced 75m of 200mm ductive with 200mm PVC watermain on Commerce Court
- Installed 114 m of 250mm PVC watermain between zone 4 and zone 5
- Installed 125m of 400mm PVC watermain from Memorial Dr to Rail land
- Extended the watermain on Kenreta

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	Parameter	Result	Unit of	Corrective Action	Corrective
Date			Measure		Action Date
06-Jan-14	Chlorine Residual	0.00	mg/L	0.00 free chlorine residual at 1450 Ski Club Rd. This was the only user on the dead end watermain which was under construction. Reported to MOE and MOH as required. Flushed and re-sampled on 06-Jan-14. Results met Ontario Drinking Water Quality Standards. AWQI #115638	06-Jan-14
03-Mar-14	Lead	0.019	mg/L	High lead result at Hydrant #521. Reported to MOE and MOH as required. Watermain flushed and re-sampled on 7-Mar-14. Results met Ontario Drinking Water Quality Standards. AWQI #116294	24-Mar-14
17-Apr-14	Lead	0.031	mg/L	High lead result at Hydrant #81. Reported to MOE and MOH as required. Watermain flushed and re-sampled on 17-Apr-14. Results met Ontario Drinking Water Quality Standards. AWQI #116997	30-Apri-14
08-Sept-14	Chlorine Residual	0.00	mg/L	Suspected low chlorine residual at dead end hydrant located on Richardson Road. The sample taken with 0.00 mg/L chlorine was a plumbing sample. Reported to MOE and MOH as required. Flushed and re-sampled on 08-Sept-14. Results met Ontario Drinking Water Quality Standards. AWQI #120152	08-Sept-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 (#)-(#)	Range of Total Coliform Results (#)-(#)	Number of samples Background Colony Counts	Range of Back- ground Colony Counts	Number of HPC Samples	Range of HPC Results (#)-(#)
Raw	52	0-11	1->200	52	47->200	N/A	N/A
Treated	52	0-0	0-0	52	0-0	52	0-8
Distribution Fixed Sites	364	0-0	0-0	364	0-0	104	0-4
Distribution Random Sites	510	0-0	0-0	510	0-13	151	0-30

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

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POE Grab	Number of	Range of Results	ODWQS/Operational					
Samples	Grab Samples	(min #)-(max #)	Requirement					
Turbidity	128	0.077 – 0.23 NTU	1.0 NTU max					
Chlorine	201	0.91 – 1.50 mg/L	0.5 mg/L min					
Fluoride (If the DWS provides fluoridation)	50	0.31 – 0.75 mg/L	1.5 mg/L max					

Distribution Free Chlorine Grab Samples	Number of Grab Samples	Range of Results (min #)-(max #)	ODWQS Requirement
	3701	0.11 – 2.65 mg/L	0.05mg/L min
Chlorine Fixed Sites			
Chlorine Random Sites	510	0.05-1.88 mg/L	0.05 mg/L min

POE on-line	Number of	Range of Results	ODWQS/Operational
Continuous	Grab Samples	(min #)-(max #)	Requirement
Analyzers			
Turbidity	8760	0.02 – 1.98 mg/L	5.0 NTU max
Chlorine	8760	0.65 - 2.9 mg/L	0.05 mg/L min
Fluoride (If the	8760	0.0 - 0.9 mg/L	1.5 mg/L max
DWS provides			
fluoridation)			

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

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	17 Mar 14	<1.0	ug/L	no
Arsenic	17 Mar 14	< 0.6	ug/L	no
Barium	17 Mar 14	11.4	ug/L	no
Boron	17 Mar 14	<10	ug/L	no
Cadmium	17 Mar 14	< 0.2	ug/L	no
Chromium	17 Mar 14	< 0.6	ug/L	no
Lead	17 Mar 14	< 0.50	ug/L	no
Mercury	17 Mar 14	< 0.1	ug/L	no
Selenium	17 Mar 14	< 0.8	ug/L	no
Sodium	17 Mar 14	11.7	mg/L	no

Fluoride	17 Mar 14	0.42	mg/L	no	
Uranium	17 Mar 14	< 0.2	ug/L	no	
Nitrite	08 Jan 14	< 0.05	mg/L	no	
	02 Apr 14	< 0.05	mg/L		
	19 Aug 14	< 0.004	mg/L		
	31 Dec 14	< 0.005	mg/L		
Nitrate	08 Jan 14	0.229	mg/L	no	
	02 Apr 14	0.3	mg/L		
	19 Aug 14	0.253	mg/L		
	31 Dec 14	0.285	mg/L		

^{*}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 #)	Unit of Measure	Number of Exceedances
Round 1 Dec 15 2013 to	Plumbing	44	<0.001 – 0.028	mg/L	2
Apr 15 2014	Distribution	10	<0.001 – 0.031	mg/L	2
Round 2 June 15 2013 to	Plumbing	45	<0.001 – 0.031	mg/L	4
Oct 15 2013	Distribution	8	<0.001 - <0.001	mg/L	0

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

Parameter	Sample	Result	Unit of	Exceedance
	Date	Value	Measure	
Alachlor	11 Apr 13	<0.5	ug/L	no
Aldicarb	11 Apr 13	<2.0	ug/L	no
Aldrin + Dieldrin	11 Apr 13	<0.07	ug/L	no
Atrazine + N-dealkylated metobolites	11 Apr 13	<1.0	ug/L	no
Azinphos-methyl	11 Apr 13	<2.0	ug/L	no
Bendiocarb	11 Apr 13	<2	ug/L	no
Benzene	11 Apr 13	<0.2	ug/L	no
Benzo(a)pyrene	11 Apr 13	<0.01	ug/L	no
Bromoxynil	11 Apr 13	<0.5	ug/L	no
Carbaryl	11 Apr 13	<5	ug/L	no
Carbofuran	11 Apr 13	<5	ug/L	no

Chlordane (Total) 17 Mar 14	Carbon Tetrachloride	17 Mar 14	<0.2	ug/L	no
Chlorpyrifos					_
Cyamazine	, ,				-
Diazinon					_
Dicamba			1		_
1,2-Dichlorobenzene		+	1		
1.4-Dichlorobenzene					
Dichlorodiphenyltrichloroethane (DDT)					_
+ metabolites 1,2-Dichloroethane 17 Mar 14 <0,2 ug/L no 1,1-Dichloroethylene 17 Mar 14 <0,2 ug/L no 1,1-Dichloroethylene 17 Mar 14 <0,2 ug/L no 1,1-Dichloroethylene 17 Mar 14 <0,3 ug/L no 1,1-Dichloroethylene 17 Mar 14 <0,5 ug/L no 1,1-Dichloroethylene 17 Mar 14 <0,5 ug/L no 1,1-Dichloroethylene 1,2-Dichlorophenoty acetic acid (2,4-D) 17 Mar 14 <0,5 ug/L no 1,1-Dichloroethylene 1,2-Dichlorophenoty acetic acid (2,4-D) 17 Mar 14 <0,9 ug/L no 1,1-Dichloroethylene 1,2-Dichlorophenoty acetic acid (2,4-D) 1,2-Dichlorophenoty acid 1,2-Dichlorophenoty 1,2-Dichlorophenoty	,		1		no
1.2-Dichloroethane	_ · · · · · · · · · · · · · · · · · · ·	17 Mar 14	<3	ug/L	no
1.1-Dichloroethylene (vinylidene chloride)		17 Mar 14	<0.2	ug/L	no
(vinylidene chloride) 17 Mar 14 <0.3	,				
2.4 Dichlorophenol		1 / Wiai 14	~0.2	ug/L	110
2-4 Dichlorophenol 17 Mar 14 <0.5 ug/L no 2,4-Dichlorophenoxy acetic acid (2,4-D) 17 Mar 14 <1 ug/L no Diclofop-methyl 17 Mar 14 <0.9 ug/L no Dimoseb 17 Mar 14 <1 ug/L no Dinoseb 17 Mar 14 <1 ug/L no Diquat 17 Mar 14 <10 ug/L no Diuron 17 Mar 14 <10 ug/L no Glyphosate 17 Mar 14 <0.02 mg/L no Heptachlor + Heptachlor Epoxide 17 Mar 14 <0.3 ug/L no Lindane (Total) 17 Mar 14 <0.3 ug/L no Malathion 17 Mar 14 <0.4 ug/L no Methoxychlor 17 Mar 14 <0.2 ug/L no Metolachlor 17 Mar 14 <0.2 ug/L no Metoribuzin 17 Mar 14 <0.2 ug/L no Monochlorobenzene 17 Mar		17 Mar 14	<0.3	ug/L	no
2,4-Dichlorophenoxy acetic acid (2,4-D) 17 Mar 14 <1 ug/L no Diclofop-methyl 17 Mar 14 <0.9 ug/L no Dimethoate 17 Mar 14 <2.5 ug/L no Dimethoate 17 Mar 14 <1 ug/L no Diuron 17 Mar 14 <5 ug/L no Glyphosate 17 Mar 14 <0.02 mg/L no Heptachlor + Heptachlor Epoxide 17 Mar 14 <0.02 mg/L no Lindane (Total) 17 Mar 14 <0.4 ug/L no Malathion 17 Mar 14 <5 ug/L no Methoxychlor 17 Mar 14 <5 ug/L no Methoxychlor 17 Mar 14 <0.2 ug/L no Methoxychlor 17 Mar 14 <0.2 ug/L no Metribuzin 17 Mar 14 <0.2 ug/L no Metribuzin 17 Mar 14 <0.1 ug/L no Paraquat 17 Mar 14 <1 ug/L no Pentachlorophenol 17 Mar 14 <th>2-4 Dichlorophenol</th> <th>17 Mar 14</th> <th></th> <th></th> <th>no</th>	2-4 Dichlorophenol	17 Mar 14			no
Diclofop-methyl	2,4-Dichlorophenoxy acetic acid (2,4-D)	17 Mar 14	1		no
Dimethoate	Diclofop-methyl	17 Mar 14	<0.9		no
Dinoseb	Dimethoate				-
Diquat 17 Mar 14 <5	Dinoseb			 	no
Diuron 17 Mar 14 <10	Diquat	17 Mar 14		 	no
Glyphosate	Diuron		<10		no
Heptachlor + Heptachlor Epoxide	Glyphosate	17 Mar 14	1		no
Lindane (Total)	Heptachlor + Heptachlor Epoxide	+			_
Malathion 17 Mar 14 <5	Lindane (Total)		1		<u> </u>
Methoxychlor 17 Mar 14 <90	Malathion				
Metolachlor 17 Mar 14 <0.2	Methoxychlor	+		 	_
Metribuzin 17 Mar 14 <0.2	Metolachlor			 	
Monochlorobenzene 17 Mar 14 <0.1	Metribuzin	+		 	
Paraquat 17 Mar 14 <1	Monochlorobenzene		1		
Parathion 17 Mar 14 <1.0	Paraquat	+			
Pentachlorophenol 17 Mar 14 <0.5	_				
Phorate 17 Mar 14 <0.5	Pentachlorophenol				†
Picloram 17 Mar 14 <5					
Polychlorinated Biphenyls(PCB) 17 Mar 14 <0.2		+			
Prometryne 17 Mar 14 <0.25	Polychlorinated Biphenyls(PCB)	+		_	†
Simazine 17 Mar 14 <1.0				_	†
THM (NOTE: show latest annual average) 25 Nov 14 96.3 ug/L no Temephos 17 Mar 14 <10 ug/L no Terbufos 17 Mar 14 <0.5 ug/L no Tetrachloroethylene 17 Mar 14 <0.2 ug/L no 2,3,4,6-Tetrachlorophenol 17 Mar 14 <0.5 ug/L no Triallate 17 Mar 14 <0.1 ug/L no			1		
Temephos 17 Mar 14 <10 ug/L no					i
Terbufos 17 Mar 14 <0.5	(NOTE: show latest annual average)		7 0.0	~g, 11	-10
Tetrachloroethylene 17 Mar 14 <0.2		17 Mar 14	<10	ug/L	no
2,3,4,6-Tetrachlorophenol 17 Mar 14 <0.5 ug/L no Triallate 17 Mar 14 <0.1 ug/L no	Terbufos	17 Mar 14	<0.5	ug/L	no
Triallate 17 Mar 14 <0.1 ug/L no		17 Mar 14	<0.2	ug/L	no
17 17111 11 1011 119/11 110	2,3,4,6-Tetrachlorophenol	17 Mar 14	<0.5	ug/L	no
Trichloroethylene 17 Mar 14 <0.2 ug/L no	Triallate	17 Mar 14	<0.1	ug/L	no
	Trichloroethylene	17 Mar 14	<0.2	ug/L	no

2,4,6-Trichlorophenol	17 Mar 14	<0.5	ug/L	no
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	17 Mar 14	<1	ug/L	no
Trifluralin	17 Mar 14	<2.0	ug/L	no
Vinyl Chloride	17 Mar 14	<0.2	ug/L	no

THM Dist Sample Location 55 Aviation Ave & 201 Pinewood Park	1 st Quarter Result Value	2 nd Quarter Result Value	3 rd Quarter Result Value	4 th Quarter Result Value	Unit of Measure	Excee- dance
Date Sampled	08 Jan 14	2 Apr 14	19 Aug 14	25 Nov 14	ug/L	No
Bromodichloromethane	3.4	4.0	4.7	4.4	ug/L	No
	3.6	3.7	4.4	4.5		
Bromoform	<0.4	<0.4	<0.4	<0.2	ug/L	No
	<0.4	<0.4	<0.4	<0.2		
Chloroform	76.8	94.2	102	98.6	ug/L	No
	72.2	81.3	94.1	99.2		
Dibromochloromethane	<0.3	<0.3	<0.3	<0.2	ug/L	No
	<0.2	<0.1	<0.1	<0.2		
Total Trihalomethanes	80.2	66.1	107	103	ug/L	No
	75.8	60.3	97	104		
Total Tirhalomethanes 4 Q	96.3	ug/L	No			

List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Ouality Standards.

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Parameter	Result Value	Unit of	1/2 MAC	MAC	Date of Sample
		Measure	VALUE	VALUE	
THM	89.1	ug/L	50	100	25 Nov 2014
		"			
ΨD	40 01 lab da4a 44 a.c.	/1	0.005	0.01	17 M 2014
*Benzo(a)pyrene	<0.01 lab detection	ug/L	0.005	0.01	17 Mar 2014
	limit				

^{*}In all the cases marked with * the analysis result value was less than the lab detection limit. However the lab detection limit is above the $\frac{1}{2}$ MAC value.