

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

Drinking-Water System Number:	2100001905
Drinking-Water System Name:	Town of Mattawa Water Works
Drinking-Water System Owner:	Town of Mattawa
Drinking-Water System Category:	Large Municipal - Residential
Date of Preparation of this Report:	February 21, 2015
Period being reported:	January 1, 2015 to December 31, 2015

<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 [X]</p> <p>Is your annual report available to the public at no charge or on a web site on the Internet? Yes [X] No []</p> <p>Location where Report required under O. Reg. 170/03 Schedule 22 will be available</p> <div style="border: 1px solid black; padding: 5px;"> Town Hall at 160 Water Street </div>	<p><u>Complete for all other Categories.</u></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 Drinking-Water Systems, which receive all of their drinking water from your system:

Only the Mattawa Distribution System receives water from our system.

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 [x] None exist

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 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

Our system is a Class II Distribution & Supply system consisting of two deep drilled wells housed within one facility. The water is pumped into the distribution system to supply the distribution system's demand for water and fill our 690 Cubic Meter reservoir.

Primary disinfection is achieved by Ultra Violet Reactors. We chlorinate water as it enters the distribution system to maintain prescribed residuals in the distribution system, and to protect it from bacterial re-growth while in the distribution system on its way to users.

List all water treatment chemicals used over this reporting period

Sodium hypochlorite solution (12%).

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

➤ Replaced 10 blocks of existing Cast Iron watermain on Brydges Street from First Street to Tenth Street with 200 mm and 250 mm plastic watermain, and installed three block of new 200 mm plastic main on McKenzie from Fourth to Sixth Street. The approximate cost was 1.6 million dollars.

➤ Repaired electrical contactor for our large water pump MCC. The approximate cost was \$5000.00

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

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

	Number of Samples	Range of E.Coli or Fecal Results (#-#)	Range of Total Coliform Results (#-#)	Number of HPC Samples	Range of HPC Results (#-#)
Raw	103	0 – 0	0 – 1	0	n/a
Treated	52	0 – 0	0 – 0	52	0 – 4
Distribution	156	0 – 0	0 – 0	36	0 – 40

Operational testing done under Schedule 7, 8 or 9 during the period covered by this Annual Report.

	Number of Grab Samples	Range of Results (#-#)
Turbidity (Raw) #1	12	0.08 to 0.19
Turbidity (Raw) #2	12	0.09 to 0.27
Chlorine (Dist.)	365	.08 - 1.04
Fluoride (If the DWS provides fluoridation)	N / A	N / A

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 or order.

Date of order or C of A	Parameter	Date Sampled	Result	Unit of Measure

Summary of Lead Test parameters, per Schedule 15.1 of O.Reg. 170/03 sampled during this reporting period or most recent

Parameter	Sample #	Sample Date	Result Value	Unit of Measure	Exceedance
Lead	1	April 14/15	0.001	mg/L	No
	2	April 14/15	<0.001	mg/L	No
	1	Sept 24/15	<0.001	mg/L	No
	2	Sept 24/15	<0.001	mg/L	No
Ph	1	April 14/15	6.73		No
	2	April 14/15	6.70		No
	1	Sept 24/15	6.71		No
	2	Sept 24/15	6.80		No
Alkalinity	1	April 14/15	43.2	mg/L	No
	2	April 14/15	43.2	mg/L	No
	1	Sept 24/15	41.5	mg/L	No
	2	Sept 24/15	41.5	mg/L	No

Summary of Inorganic parameters, per Schedule 23 of O.Reg. 170/03, tested during this reporting period or most recent

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	July 28 / 15	<0.0005	mg/L	No
Arsenic	July 28 / 15	<0.001	mg/L	No
Barium	July 28 / 15	0.03	mg/L	No
Boron	July 28 / 15	0.01	mg/L	No
Cadmium	July 28 / 15	<0.0001	mg/L	No
Chromium	July 28 / 15	<0.001	mg/L	No
Mercury	July 28 / 15	<0.0001	mg/L	No
Selenium	July 28 / 15	<0.001	mg/L	No
Uranium	July 28 / 15	<0.001	mg/L	No
Fluoride	January 16/13	.069	mg/L	No
Sodium	January 16/13	13	mg/L	No
Nitrite	Jan. 15 / 15	<MDL	mg/L	No
	Apr. 14 / 15	<MDL	mg/L	No
	July 14 / 15	<MDL	mg/L	No
	Oct. 14 / 15	<MDL	mg/L	No
Nitrate	Jan. 15 / 15	1.91	mg/L	No
	Apr. 14 / 15	1.59	mg/L	No
	July 14 / 15	1.78	mg/L	No
	Oct. 14 / 15	1.67	mg/L	No

Summary of Organic parameters, per Schedule 24 of O.Reg. 170/03 sampled during this reporting period or most recent

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	July 28 / 15	<0.0005	mg/L	No
Aldicarb*	July 28 / 15	<0.009	mg/L	No
Aldrin + Dieldrin	July 28 / 15	<0.000012	mg/L	No
Atrazine + N-dealkylated metabolites	July 28 / 15	<0.0002	mg/L	No
Azinphos-methyl	July 28 / 15	<0.002	mg/L	No
Bendiocarb	July 28 / 15	<0.002	mg/L	No
Benzene	July 28 / 15	<0.0005	mg/L	No
Benzo(a)pyrene*	July 28 / 15	<0.00001	mg/L	No
Bromoxynil	July 28 / 15	<0.0005	mg/L	No
Carbaryl	July 28 / 15	<0.005	mg/L	No
Carbofuran	July 28 / 15	<0.005	mg/L	No
Carbon Tetrachloride	July 28 / 15	<0.0002	mg/L	No
Chlordane (Total)	July 28 / 15	<0.000018	mg/L	No
Chlorpyrifos	July 28 / 15	<0.001	mg/L	No
Cyanazine	July 28 / 15	<0.001	mg/L	No
Diazinon	July 28 / 15	<0.001	mg/L	No
Dicamba	July 28 / 15	<0.001	mg/L	No
1,2-Dichlorobenzene	July 28 / 15	<0.0004	mg/L	No
1,4-Dichlorobenzene	July 28 / 15	<0.0004	mg/L	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	July 28 / 15	<0.000024	mg/L	No
1,2-Dichloroethane	July 28 / 15	<0.0002	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	July 28 / 15	<0.0005	mg/L	No
Dichloromethane	July 28 / 15	<0.004	mg/L	No
2-4 Dichlorophenol	July 28 / 15	<0.0005	mg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	July 28 / 15	<0.001	mg/L	No

Diclofop-methyl	July 28 / 15	<0.0009	mg/L	No
Dimethoate	July 28 / 15	<0.0025	mg/L	No
Dinoseb	July 28 / 15	<0.001	mg/L	No
Diquat	July 28 / 15	<0.005	mg/L	No
Diuron	July 28 / 15	<0.01	mg/L	No
Glyphosate	July 28 / 15	<0.01	mg/L	No
Heptachlor + Heptachlor Epoxide	July 28 / 15	<0.000012	mg/L	No
Lindane (Total)	July 28 / 15	<0.000006	mg/L	No
Malathion	July 28 / 15	<0.005	mg/L	No
Methoxychlor	July 28 / 15	<0.000006	mg/L	No
Metolachlor	July 28 / 15	<0.001	mg/L	No
Metribuzin	July 28 / 15	<0.005	mg/L	No
Monochlorobenzene	July 28 / 15	<0.0002	mg/L	No
Paraquat	July 28 / 15	<0.001	mg/L	No
Parathion	July 28 / 15	<0.001	mg/L	No
Pentachlorophenol	July 28 / 15	<0.0005	mg/L	No
Phorate	July 28 / 15	<0.0005	mg/L	No
Picloram	July 28 / 15	<0.005	mg/L	No
Polychlorinated Biphenyls(PCB)	July 28 / 15	<0.0001	mg/L	No
Prometryne	July 28 / 15	<0.00025	mg/L	No
Simazine	July 28 / 15	<0.001	mg/L	No
THM (NOTE: show latest quarterly average)	Avg for 2015	0.0030	mg/L	No
Temephos	July 28 / 15	<0.01	mg/L	No
Terbufos	July 28 / 15	<0.0004	mg/L	No
Tetrachloroethylene	July 28 / 15	<0.0003	mg/L	No
2,3,4,6-Tetrachlorophenol	July 28 / 15	<0.0005	mg/L	No
Triallate	July 28 / 15	<0.001	mg/L	No
Trichloroethylene	July 28 / 15	<0.0003	mg/L	No
2,4,6-Trichlorophenol	July 28 / 15	<0.0005	mg/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	July 28 / 15	<0.001	mg/L	No
Trifluralin	July 28 / 15	<0.001	mg/L	No
Vinyl Chloride	July 28 / 15	<0.0002	mg/L	No

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	M.A.C.
*Aldicarb	<0.009	mg/L	July 28 / 15	0.009 mg/L
*Benzo(a)pyrene	<0.00001	mg/L	July 28 / 15	0.00001 mg/L

*Sample results marked with an asterisk from the table above indicate results less than lab detection levels. However, these lab detection levels are equivalent to the MOE Maximum Acceptable Concentration.

(Only if category is large municipal residential, small municipal residential, large municipal non residential, small municipal non residential, large non municipal non residential)