

OPTIONAL ANNUAL REPORT TEMPLATE

Drinking Water System Number:	220013553
Drinking Water System Name:	Waldemar Heights Well Water Supply
Drinking Water System Owner:	Township of Amaranth
Drinking Water System Category:	Large Municipal Residential
Period being reported:	January 01, 2021 to December 31, 2021

<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 on a web site on the Internet? Yes [X] 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>Township of Amaranth 374026 Sixth Line Amaranth, ON L9W 0M6</p> </div>	<p><u>Complete for all other Categories</u></p> <p>Number of Designated Facilities served:</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">N/A</div> <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:</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 0 auto;">N/A</div> <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 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 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
- Public access/notice via other method _____

Describe your Drinking Water System

Water System is classified as a Large Municipal Residential Water System that currently serves approximately 110 service connections. The system is owned by the Township of Amaranth and operated by Dufferin Water Co. Ltd. Water is supplied via three municipal wells, a reservoir and a pumphouse. Inspection, maintenance and sampling are conducted on a regular basis in accordance with Ontario Regulation 170/03 to ensure the safety of the water supply

List all water treatment chemicals used over this reporting period

12 % Sodium Hypochlorite

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

Repair leaking treated water header and replace 6 inch treated water gate valves. Approximately \$250K.

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					

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 Results (min#)-(max#)	Range of Total Coliform Results (min#)-(max#)	Number of HPC Samples	Range of HPC Results (min#)-(max#)
Raw	156	0 to 0	0 to 0	0	N/A
Treated	52	0 to 0	0 to 0	52	0 to 2
Distribution	116	0 to 0	0 to 0	52	0 to 3

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#)	Unit of Measure
Turbidity	36	0.11 – 0.87	NTU
Chlorine	8760	0.89 – 2.07	ppm
Fluoride (If the DWS provides fluoridation)	N/A	N/A	N/A

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

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				

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	Nov 18/21	ND	ug/L	No
Arsenic	Nov 18/21	ND	ug/L	No
Barium	Nov 18/21	13	ug/L	No
Boron	Nov 18/21	41	ug/L	No
Cadmium	Nov 18/21	ND	ug/L	No
Chromium	Nov 18/21	ND	ug/L	No
*Lead	N/A	N/A	N/A	N/A
Mercury	Nov 18/21	ND	ug/L	No
Selenium	Nov 18/21	ND	ug/L	No
Sodium	Oct 05/18	20	mg/l	No
Uranium	Nov 18/21	ND	ug/L	No
Fluoride	Oct 25/18	1.9	mg/l	Yes
Nitrite	Dec 02/21	ND	mg/l	No
Nitrate	Dec 02/21	ND	mg/l	No

*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
Plumbing	0	N/A	N/A	N/A
Distribution	2	ND	Ug/L	0

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	Nov 18/21	ND	ug/L	NO
Atrazine + N-dealkylated metabolites	Nov 18/21	ND	ug/L	NO
Azinphos-methyl	Nov 18/21	ND	ug/L	NO
Benzene	Nov 18/21	ND	ug/L	NO
Benzo(a)pyrene	Nov 18/21	ND	ug/L	NO
Bromoxynil	Nov 18/21	ND	ug/L	NO
Carbaryl	Nov 18/21	ND	ug/L	NO
Carbofuran	Nov 18/21	ND	ug/L	NO
CarbonTetrachloride	Nov 18/21	ND	ug/L	NO
Chlorpyrifos	Nov 18/21	ND	ug/L	NO
Diazinon	Nov 18/21	ND	ug/L	NO
Dicamba	Nov 18/21	ND	ug/L	NO
1,2-Dichlorobenzene	Nov 18/21	ND	ug/L	NO
1,4-Dichlorobenzene	Nov 18/21	ND	ug/L	NO
1,2-Dichloroethane	Nov 18/21	ND	ug/L	NO
1,1-Dichloroethylene(vinylidenechloride)	Nov 18/21	ND	ug/L	NO
Dichloromethane	Nov 18/21	ND	ug/L	NO
2,4-Dichlorophenol	Nov 18/21	ND	ug/L	NO
2,4-Dichlorophenoxyaceticacid(2,4-D)	Nov 18/21	ND	ug/L	NO
Diclofop-methyl	Nov 18/21	ND	ug/L	NO
Dimethoate	Nov 18/21	ND	ug/L	NO
Diquat	Nov 18/21	ND	ug/L	NO
Diuron	Nov 18/21	ND	ug/L	NO
Glyphosate	Nov 18/21	ND	ug/L	NO
HAA's(Note: show latest running annual average)	2021	ND	ug/L	NO
Lindane(Total)	Nov 18/21	ND	ug/L	NO
Malathion	Nov 18/21	ND	ug/L	NO
Metolachlor	Nov 18/21	ND	ug/L	NO
Metribuzin	Nov 18/21	ND	ug/L	NO
Monochlorobenzene	Nov 18/21	ND	ug/L	NO

Paraquat	Nov 18/21	ND	ug/L	NO
Pentachlorophenol	Nov 18/21	ND	ug/L	NO
Phorate	Nov 18/21	ND	ug/L	NO
Picloram	Nov 18/21	ND	ug/L	NO
Polychlorinated Biphenyls (PCB)	Nov 18/21	ND	ug/L	NO
Prometryne	Nov 18/21	ND	ug/L	NO
Simazine	Nov 18/21	ND	ug/L	NO
Terbufos	Nov 18/21	ND	ug/L	NO
Tetrachloroethylene (perchloroethylene)	Nov 18/21	ND	ug/L	NO
2,3,4,6-Tetrachlorophenol	Nov 18/21	ND	ug/L	NO
THMs (Note: show latest running annual average)	2021	7.48	ug/L	NO
Triallate	Nov 18/21	ND	ug/L	NO
Trichloroethylene	Nov 18/21	ND	ug/L	NO
2,4,6-Trichlorophenol	Nov 18/21	ND	ug/L	NO
Trifluralin	Nov 18/21	ND	ug/L	NO
Vinyl Chloride	Nov 18/21	ND	ug/L	NO
MCPA	Nov 18/21	ND	ug/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
Sodium	20	ppm	Oct 05/18
Fluoride	1.9	ppm	Oct 25/18