

COUNCIL RESOLUTION



Moved By: Julila
Seconded By: Luc

DATE: March 13, 2024
Resolution No. 24-054

Whereas that the Council of the Corporation of the Township of Dubreuilville hereby wishes to receive and approve the attached letter dated February 2024 from the Ontario Clean Water Agency with regards to the O. Regulation 170 – 2023 Section 11 Annual Report for the Dubreuilville Drinking-Water System, as presented.

<div>✓</div>		
<div>Carried</div>	<div>Defeated</div>	<div>Deferred</div>

RECORDED VOTE:	YES	NO
Councillor Hélène Perth	<div></div>	<div></div>
Councillor Luc Lévesque	<div></div>	<div></div>
Councillor Julila Hemphill	<div></div>	<div></div>
Councillor Krystel Lévesque	<div></div>	<div></div>
Mayor Beverly Nantel	<div></div>	<div></div>

Declaration of Pecuniary Interest and General Nature Thereof:

February 2024

Mayor Beverly Nantel and Council
The Corporation of the Township of Dubreuilville
P.O. Box 367
Dubreuilville, Ontario
P0S 1B0

Re: O. Regulation 170 - 2023 Section 11 Annual Report for the Dubreuilville Drinking-Water System

Ontario's Drinking-Water Systems Regulation (O.Reg. 170/03), made under the *Safe Drinking Water Act, 2002*, requires that the owner of a drinking water system prepare an annual report on the operation of the system and the quality of its water.

The annual report must cover the period of January 1st to December 31st in a year and *must be prepared not later than February 28th* of the following year. Pursuant to the legislative requirements, enclosed for your records is the 2023 Annual Report for the Dubreuilville Drinking-Water System.

Pursuant to the legislative requirements, Section 11 (6): the annual report must:

- (a) Contain a brief description of the drinking-water system, including a list of water treatment chemicals used by the system during the period covered by the report;
- (b) Summarize any reports made to the Ministry under subsection 18 (1) of the Act or section 16-4 of Schedule 16 during the period covered by the report;
- (c) Summarize the results of tests required under this Regulation, or an approval or order, including an OWRA order, during the period covered by the report and, if tests required under this Regulation in respect of a parameter were not required during that period, summarize the most recent results of tests of that parameter;
- (d) Describe any corrective actions taken under Schedule 17 or 18 during the period covered by the report;
- (e) Describe any major expenses incurred during the period covered by the report to install, repair or replace required equipment; and
- (f) In the case of a large municipal residential system or a small municipal residential system, include a statement of where a report prepared under Schedule 22 will be available for inspection under subsection 12 (4). O. Reg. 170/03, s. 11 (6)

In addition, Section 11 (7) gives the direction that a copy of an annual report for the system is given, without charge, to every person who requests a copy and be made available for inspection by any member of the public during normal business hours. The report should be made available at the office of the municipality, or at a location that is accessible to the users of the water system.

Yours truly,

Patrick Couture

Patrick Couture
Senior Operations Manager
Northwestern Ontario Regional Hub
807-228-2617

Copy to: Shelley B. Casey – CAO-Clerk/Deputy-Treasurer
Francis DeChamplain – Infrastructure Superintendent
Operations Staff – Dubreuilville Well Supply

2023 Section 11 Annual Report

Dubreuilville Drinking Water System

February 2024

Prepared by the



Ontario Clean Water Agency
Agence Ontarienne Des Eaux



Section 11 ANNUAL REPORT

Drinking-Water System Number:	210001442
Drinking-Water System Name:	Dubreuilville Well Supply
Drinking-Water System Owner:	The Corporation of the Township of Dubreuilville
Drinking-Water System Category:	Large Municipal Residential Drinking Water-System
Period being reported:	January 1 – December 31, 2023

Complete if your Category is Large Municipal Residential or Small Municipal Residential

Does your Drinking-Water System serve more than 10,000 people? Yes [] No [X]

Is your annual report available to the public at no charge on a web site on the Internet? Yes [x] No []

Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.

Township of Dubreuilville
23, rue des Pins
Dubreuilville, ON
POS 1B0

Complete for all other Categories.

Number of Designated Facilities served:

N/A

Did you provide a copy of your annual report to all Designated Facilities you serve?

Yes [] No []

Number of Interested Authorities you report to:

N/A

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	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
 - ☒ Public access/notice via Government Office (Municipal)
 - ☐ 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

The Corporation of the Township of Dubreuilville receives its municipal potable water from a well system that was built in 1985. The system underwent significant upgrades to the treatment and pumphouse in 2005. A service program was performed on the wells in 2022 that included static video surveys, well rehabilitation, and well performance testing. The field portion of this work was completed June 14 – 16, 2022.

The Dubreuilville well supply system is comprised of the following:

- Well #1 is located beneath the addition to the pumphouse that was built in 2005. This well is not available in standby mode, however, when needed, can be manually initiated by an operator.
- Well #2 is also located beneath the pumphouse and is the well that is operated on a regular basis to deliver the municipal potable water to the community.
- There is an installation of an Ultraviolet (UV) disinfection system within the existing pump house which consists of two (2) UV reactors each rated for a designed flow of 31.8 L/sec
- Chlorine is added to the water as it leaves the pumphouse and contact time to achieve the appropriate CT is accomplished in 60m / 300mm main located between the pumphouse and the first service connection
- The distribution system includes an in-ground 1,215m³ reservoir and services 38 fire hydrants and approximately 320 service connections
- Operation of the well pumps is controlled by the level in the reservoir which has an emergency storage capacity of approximately 2.5 days at normal flow conditions

List all water treatment chemicals used over this reporting period

- 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

Install	Repair	Replace	Description	Expense
	X		Annual Generator Maintenance	\$1,433.25
	X		UV Annual Maintenance	\$5,264.98
		X	Spool Piece Well #2	\$6,362.96
		X	Replacement Chlorine/pH Probes	\$3,566.03
	X		Reservoir Inspections	\$6,380.35

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
2023/07/20	Q2 THM, HAA & Nitrite/Nitrate Sample taken outside 120 day sample window				2023/06/12

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 #)
Raw					
Well #1	52	0 – 0	0 – 0	N/A	N/A
Well #2	39	0 – 0	0 – 0	N/A	N/A
Treated	52	0 – 0	0 – 0	51	10 - 10
Distribution	104	0 – 0	0 – 0	53	10 - 20

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 #)
Turbidity*		
Raw Well #1	44	0.25 - 4.62
Raw Well #2	39	0.00 – 8.78
Treated	8760	0.00 – 5.00
Chlorine*		
Treated	8760	0.00 – 4.58
Distribution	8760	0.00 – 5.00
Fluoride (If the DWS provides fluoridation)	N/A	N/A

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

** Turbidity & chlorine Min/Max (lows/highs) are due to planned maintenance and not plant upset.*

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, 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

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	2023/01/16	> 0.5	µg/L	No
Arsenic	2023/01/16	> 1	µg/L	No
Barium	2023/01/16	74	µg/L	No
Boron	2023/01/16	8	µg/L	No
Cadmium	2023/01/16	> 0.1	µg/L	No
Chromium	2023/01/16	4	µg/L	No
*Lead	Refer to Summary Table Below			
Mercury	2023/01/16	> 0.1	µg/L	No
Selenium	2023/01/16	0.6	µg/L	No
Sodium	2021/01/27	16.8	mg/L	No
Uranium	2023/01/16	6	µg/L	No
Fluoride	2019/01/08	0.03	mg/L	No
Nitrite	2023/01/16	>0.01	mg/L	No
	2023/06/12	>0.01	mg/L	No
	2023/08/14	0.63	mg/L	No
	2023/10/30	>0.05	mg/L	No
Nitrate	2023/01/16	1.10	mg/L	No
	2023/06/12	1.11	mg/L	No
	2023/08/14	1.23	mg/L	No
	2023/10/30	1.08	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 #)	Number of Exceedances
Plumbing	N/A	N/A	N/A
Distribution	2	0.10 – 0.15	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	2023/01/16	< 0.247	µg/L	No
Atrazine	2023/01/16	< 0.5	ug/L	No
Atrazine & Metabolites	2023/01/16	< 0.185	ug/L	No
Azinphos-methyl	2023/01/16	< 0.1	µg/L	No
Benzene	2023/01/16	< 0.01	µg/L	No
Benzo(a)pyrene	2023/01/16	0.11	µg/L	No
Bromoxynil	2023/01/16	< 3	µg/L	No
Carbaryl	2023/01/16	< 4	µg/L	No
Carbofuran	2023/01/16	< 0.2	µg/L	No
Carbon Tetrachloride	2023/01/16	< 0.185	µg/L	No
Chlorpyrifos	2023/01/16	< 0.185	µg/L	No
Diazinon	2023/01/16	0.2	µg/L	No
Dicamba	2023/01/16	< 0.247	µg/L	No
1,2-Dichlorobenzene	2023/01/16	< 0.2	µg/L	No
1,4-Dichlorobenzene	2023/01/16	< 0.3	µg/L	No
1,2-Dichloroethane	2023/01/16	< 0.2	µg/L	No
1,1-Dichloroethylene (vinylidene chloride)	2023/01/16	< 0.3	µg/L	No
Dichloromethane (Methylene Chloride)	2023/01/16	< 1	µg/L	No
2-4 Dichlorophenol	2023/01/16	< 0.2	µg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2023/01/16	0.76	µg/L	No
Diclofop-methyl	2023/01/16	< 0.117	µg/L	No
Dimethoate	2023/01/16	< 0.185	µg/L	No
Diquat	2023/01/16	< 0.2	µg/L	No

Diuron	2023/01/16	< 10	µg/L	No
Glyphosate	2023/01/16	< 20	µg/L	No
Haloacetic acids (HAA)* (NOTE: show latest annual average)	2023/10/30 2023 Average	43.0 33.8	µg/L	No
Malathion	2023/01/16	< 0.185	µg/L	No
Metolachlor	2023/01/16	< 0.123	µg/L	No
Metribuzin	2023/01/16	< 0.123	µg/L	No
Monochlorobenzene (Chlorobenzene)	2023/01/16	< 0.5	µg/L	No
Paraquat	2023/01/16	< 0.2	µg/L	No
Pentachlorophenol	2023/01/16	< 0.3	µg/L	No
Phorate	2023/01/16	< 0.123	µg/L	No
Picloram	2023/01/16	0.23	µg/L	No
Polychlorinated Biphenyls(PCB)	2023/01/16	< 0.06	µg/L	No
Prometryne	2023/01/16	< 0.0617	µg/L	No
Simazine	2023/01/16	< 0.185	µg/L	No
THM (NOTE: show latest annual average)	2023/10/30 2022 Average	33.0 32.3	µg/L µg/L	No No
Terbufos	2023/01/16	< 0.123	µg/L	No
Tetrachloroethylene	2023/01/16	< 0.3	µg/L	No
2,3,4,6-Tetrachlorophenol	2023/01/16	< 0.3	µg/L	No
Triallate	2023/01/16	< 0.123	µg/L	No
Trichloroethylene	2023/01/16	< 0.2	µg/L	No
2,4,6-Trichlorophenol	2023/01/16	< 0.2	µg/L	No
Trifluralin	2023/01/16	< 0.123	µg/L	No
Vinyl Chloride	2023/01/16	< 0.1	µg/L	No
MCPA	2023/01/16	< 5.86	µg/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	16.8	mg/L	2021/01/27
Nitrite	0.63	mg/L	2023/08/14
Benzo(a)pyrene	<0.01	ug/L	2023/01/16