

From: [Rebecca Marshall](#)
To: toc@ontera.net; [Ault, Greg \(MECP\)](#)
Cc: Erin.Spires@ontario.ca; [Sylvie Lemieux](#); [Victor Legault](#); [Yvan Rondeau](#); [Rebecca Marshall](#)
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[Coleman DS Annual Summary Report 2021.pdf](#)

Good Afternoon,

Please find attached; the 2021 Annual Summary Report for the Coleman Distribution System.

Ontario's Drinking Water Systems Regulation (O. Reg. 170/03) made under the *Safe Drinking Water Act in 2002*; requires that the owner of a drinking water system prepare an Annual Compliance Report and an Annual Summary Report which describes the operation of the system and the quality of its water.

- **Notification that the report is available is to be posted at the Municipal Office.**
- **Please place a copy in the public binder.**

Annual Compliance Report

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.

In accordance with 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 the Regulation, the system's approval, drinking water works permit, municipal drinking water licence, 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) if 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 reports should be made available at the Municipal office, or at a location that is accessible to the users of the water system.

Annual Summary Report

The annual summary report must cover the period of January 1st to December 31st in a year and must be prepared not later than March 31st of the following year.

As required in *Schedule 22, Summary Reports for Municipalities*, the annual summary must:

- (2) (a) list the requirements of the Act, the regulations, the system's approval, drinking water works permit, municipal drinking water licence, and any orders applicable to the system that were not met at any time during the period covered by the report; and
(b) for each requirement referred to in clause (a) that was not met, specify the duration of the failure and the measures that were taken to correct the failure.
- (3) The report must also include the following information for the purpose of enabling the owner of the system to assess the capability of the system to meet existing and planned uses of the system:
 1. A summary of the quantities and flow rates of the water supplied during the period covered by the report, including monthly average and maximum daily flows.
 2. A comparison of the summary referred to in paragraph 1 to the rated capacity and flow rates approved in the system's approval, drinking water works permit or municipal drinking water licence, or if the system is receiving all of its water from another system under an agreement pursuant to subsection 5 (4), to the flow rates specified in the written agreement.

In addition, Section 12 (1) – 4 – gives the direction that a copy of the annual summary 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 reports should be made available at the municipal office, or at a location that is accessible to the users of the water system.

These reports have been combined as the Coleman Distribution System Annual Summary Report

Please note that any Provincial Officers Orders or non-compliance issues that you have received directly from the Ministry of the Environment (MOE) should be reviewed. Where non-compliance with the Order or Issue is evident and it is not included in the attached 2021 Annual Compliance/Summary Report, then we recommend that this information be added to the report.

****After your review and inclusion of any additional information, this report is to be**

provided to the members of Council before March 31, 2022. Please provide confirmation once distributed.

Regards,

Rebecca Marshall

Process and Compliance Technician | Ontario Clean Water Agency | North Eastern Ontario Hub | Tel: 705-648-4267 | Fax: 705-567-7974 | Email: rmarshall@ocwa.com



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Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Coleman Distribution System

2021 Annual Summary Report

Prepared by the Ontario Clean Water Agency
On behalf of the Township of Coleman



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OVERVIEW

Municipalities throughout Ontario are required to comply with Ontario Regulation 170/03 made under the *Safe Drinking Water Act, 2002*. The Act was passed following recommendations made by Commissioner O'Conner after the Walkerton Inquiry. The Act's purpose is to protect human health through the control and regulation of drinking-water systems. O. Reg. 170/03 regulates drinking water testing, use of licensed laboratories, treatment requirements and reporting requirements.

Section 11 of O. Reg. 170/03 requires the owner to produce an Annual Report which must include the following:

1. Description of system and chemical(s) used
2. Summary of any adverse water quality reports and corrective actions
3. Summary of all required testing
4. Description of any major expenses incurred to install, repair or replace equipment

This Annual Report must be completed by February 28 of each year.

Schedule 22 of the regulation requires that a Summary Report for Municipalities be prepared which must be presented and accepted by Council by March 31 of each year for the preceding calendar year reporting period.

The report must list the requirements of the Act, its regulations, the system's Drinking Water Works Permit (DWWP), Municipal Drinking Water Licence (MDWL), Certificate of Approval (if applicable), and any Provincial Officer Order the system failed to meet during the reporting period. The report must also specify the duration of the failure, and for each failure referred to, describe the measures that were taken to correct the failure.

The *Safe Drinking Water Act, 2002* and the drinking water regulations can be viewed at the following website: <http://www.e-laws.gov.on.ca>.

To enable the Owner to assess the rated capacity of their system to meet existing and future planned water uses, the following information is also required in the report.

1. A summary of the quantities and flow rates of water supplied during the reporting period, including the monthly average and the maximum daily flows.
2. A comparison of the summary to the rated capacity and flow rates approved in the systems approval, drinking water works permit or municipal drinking water licence or a written agreement if the system is receiving all its water from another system under an agreement.

The two reports have been combined and presented to council as the 2021 Annual Summary Report.



1.0 INTRODUCTION

Drinking-Water System Name:	COLEMAN DISTRIBUTION SYSTEM
Drinking-Water System No.:	260074321
Drinking-Water System Owner:	The Corporation of the Township of Coleman
Drinking-Water System Category:	Small Municipal, Residential System
Municipal Drinking Water Licence No.:	272-101 (Issue 3 - May 10, 2021)
Drinking Water Work Permit No.:	272-201 (Issue 2 - May 13, 2016)
Period being reported on:	January 1, 2021 to December 31, 2021

Does your Drinking Water System serve more than 10,000 people? No

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

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

Township of Coleman Municipal Office
937907 Marsh bay Road, Coleman
ON P0J 1C0

There are no other Drinking Water Systems that receive drinking water from the Coleman Distribution System.

The Annual Report was provided to all Drinking Water System owners that are connected to the Coleman Distribution System.

The Ontario Clean Water Agency prepared the 2021 Annual Summary Report for the Coleman Distribution System and provided a copy to the Township of Coleman and to the Town of Cobalt.

Notification to system users that the Annual Report is available for viewing is accomplished through:

- Public Access via Community Bulletin



2.0 DESCRIPTION OF THE DISTRIBUTION SYSTEM

The Coleman Distribution System is a stand-alone distribution system that receives treated drinking water from the Town of Cobalt's water treatment plant (DWS # 220000362) via the Cobalt Distribution system. The Ontario Clean Water Agency is the Operating Authority for the Coleman Distribution System.

The Coleman Distribution System consists of 48 service connections of which 46 are in use, serving an estimated 90 residents. The system is comprised of two separate distribution water mains. The entire distribution system was replaced in 2010 and includes 18 fire hydrants and 21 valves. All service connections are equipped with water meters.

3.0 LIST OF ALL WATER TREATMENT CHEMICALS USED

- Sodium Sulfate for dechlorination of bleeders

4.0 SIGNIFICANT EXPENSES INCURRED

The Coleman Distribution System did not incur any significant expenses in 2021.

5.0 DETAILS OF NOTICES REPORTED & SUBMITTED TO THE SPILLS ACTION CENTER

There were no adverse drinking water quality results or any other incidents that required notification to the spills action center in 2021.

6.0 MICROBIOLOGICAL TESTING

No. of Samples	<i>E. coli</i> Results (min to max)	Total Coliform Results (min to max)	# of HPC Samples	HPC Results (min to max)
52	0 to 0	0 to 0	52	<10 to NDOGHPC

Maximum Allowable Concentration (MAC) for treated and distribution samples: *E. coli* = 0 Counts/100 mL and Total Coliforms = 0 Counts/100 mL

"<" denotes less than the laboratory's method detection limit.

NDOGHPC: No Data Overgrown with HPC

Note: For Small Municipal Systems at least one distribution sample must be collected every 2 weeks. One microbiological sample is collected and tested each week from the Coleman distribution system.

7.0 OPERATIONAL TESTING

Summary of Chlorine Residuals in the Distribution System

Parameter	No. of Samples	Range of Results (min to max)	Unit of Measure	Standard
Free Chlorine	104	0.19 to 1.25	mg/L	0.05

Note: in the distribution system, at least two samples for free chlorine residual testing must be taken at least 48-hours apart and taken during the same week, each week



Summary of Nitrate & Nitrite Results from the Cobalt Water Treatment Plant

Date of Sample	Nitrate Result Value (mg/L)	Nitrite Result Value (mg/L)	Exceedance
January 11	<0.05	<0.05	No
April 12	0.08	<0.05	No
July 12	<0.05	<0.05	No
October 25	<0.05	<0.05	No

Maximum Acceptable Concentration (MAC) for Nitrate = 10 mg/L

MAC for Nitrite = 1.0 mg/L

Summary of Total Trihalomethane Results

Date of Sample	Result Value (ug/L)	Four Quarter Running Average	Exceedance
January 11	40.4	47.70	No
April 12	62.3	54.13	No
July 12	55.6	52.25	No
October 25	55.6	53.48	No

Maximum Acceptable Concentration (MAC) = 100 ug/L (Four Quarter Running Average)

Summary of Total Haloacetic Acid Results

Date of Sample	Result Value (ug/L)	Four Quarter Running Average	Exceedance
January 11	85	51.25	No
April 12	61	59.25	No
July 12	64	62.5	No
October 25	82	73	No

Maximum Acceptable Concentration (MAC) = 80ug/L (Four Quarter Running Average)

Summary of Lead, pH & Alkalinity Results

Sample Date	# of Samples	Field pH	Alkalinity (mg/L)	Lead (ug/L)	Exceedance
March 10	1	7.09	53	2.4 (April 4, 2019)	No
September 22	1	7.38	54	1.0 (Oct. 4, 2019)	No

MAC for Lead -10 ug/L

Note: Next lead sampling scheduled for 2022

The system is required to test for total alkalinity and pH in one distribution sample collected during the period of December 15 to April 15 (winter period) and one distribution sample during the period of June 15 to October 15 (summer period). This testing is required in every 12-month period with lead testing in every third 12-month period.

**Summary of Schedule 23 Inorganic Results from the Cobalt Water Treatment Plant**

Sample Date: October 25, 2021

Parameter	Result Value	Unit of Measure	Standard	Exceedance
Antimony	0.7	ug/L	6	NO
Arsenic	<1.0	ug/L	10	No
Barium	5.0	ug/L	1000	No
Boron	<2.0	ug/L	5000	No
Cadmium	<0.1	ug/L	5	No
Chromium	<1.0	ug/L	50	No
Mercury	<0.1	ug/L	1	No
Selenium	<0.2	ug/L	50	No
Uranium	<1.0	ug/L	20	No

Note: Sample required every 12 months**Summary of Schedule 24 Organic Results from the Cobalt Water Treatment Plant**

Sample Date: October 25, 2021

Parameter	Result Value	Unit of Measure	Standard	Exceedance
1,1-Dichloroethylene	< 0.3	ug/L	14	No
1,2-Dichlorobenzene	< 0.3	ug/L	200	No
1,2-Dichloroethane	< 0.3	ug/L	5	No
1,4-Dichlorobenzene	< 0.3	ug/L	5	No
2,3,4,6-Tetrachlorophenol	< 0.3	ug/L	100	No
2,4,6-Trichlorophenol	< 0.2	ug/L	100	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	< 0.363	ug/L	100	No
2-4 Dichlorophenol	< 0.2	ug/L	900	No
Alachlor	< 0.248	ug/L	5	No
Atrazine + N-dealkylated metabolites	< 0.5	ug/L	5	No
Azinphos-methyl	< 0.186	ug/L	20	No
Benzene	< 0.1	ug/L	1	No
Benzo(a)pyrene	< 0.009	ug/L	0	No
Bromoxynil	< 0.097	ug/L	5	No
Carbaryl	< 3.0	ug/L	90	No
Carbofuran	< 4.0	ug/L	90	No
Carbon Tetrachloride	< 0.2	ug/L	2	No
Chlorobenzene	< 0.5	ug/L	80	No
Chlorpyrifos	< 0.186	ug/L	90	No
Diazinon	< 0.186	ug/L	20	No
Dicamba	< 0.085	ug/L	120	No
Dichloromethane	< 1.0	ug/L	50	No
Diclofop-methyl	< 0.121	ug/L	9	No
Dimethoate	< 0.186	ug/L	20	No
Diquat	< 0.6	ug/L	70	No
Diuron	< 10.0	ug/L	150	No
Glyphosate	< 20.0	ug/L	280	No



Summary of Schedule 24 Organic Results from the Cobalt Water Treatment Plant

Sample Date: October 25, 2021

Parameter	Result Value	Unit of Measure	Standard	Exceedance
Malathion	< 0.186	ug/L	190	No
MCPA	< 6.05	ug/L	230	N/A
Metolachlor	< 0.124	ug/L	50	No
Metribuzin	< 0.124	ug/L	80	No
Paraquat	< 0.3	ug/L	10	No
Pentachlorophenol	< 0.3	ug/L	3	No
Phorate	< 0.124	ug/L	60	No
Picloram	< 0.085	ug/L	2	No
Prometryne	< 0.062	ug/L	1	No
Simazine	< 0.186	ug/L	10	No
Terbufos	< 0.124	ug/L	1	No
Tetrachloroethylene	< 0.3	ug/L	10	No
Total PCB's	< 0.06	ug/L	190	No
Triallate	< 0.124	ug/L	5	No
Trichloroethylene	< 0.2	ug/L	5	No
Trifluralin	< 0.124	ug/L	45	No
Vinyl Chloride	< 0.1	ug/L	1	No

Note: Sample required every 12 months

Most Recent Sodium Data Sampled at the Cobalt Water Treatment Plant

Date of Sample	No. of Samples	Result Value	Unit of Measure	Standard	Exceedance
April 6, 2020	1	5.75	mg/L	20	No

Note: Sample required every 60 months. Next sampling scheduled for April 2025

Most Recent Fluoride Data Sampled at the Cobalt Water Treatment Plant

Date of Sample	No. of Samples	Result Value	Unit of Measure	Standard	Exceedance
April 6, 2020	1	< 0.5	mg/L	1.5	No

Note: Sample required every 60 months. Next sampling scheduled for April 2025

Inorganic or Organic Test Results that Exceeded Half the Standard

No inorganic or organic parameter(s) listed in Schedule 23 and 24 of Ontario Regulation 170/03 exceeded half the standard found in Schedule 2 of the Ontario Drinking Water Standard (O. Reg. 169/03) during the reporting period.



Summary of Additional Testing Performed in Accordance with a Legal Instrument.

No additional testing was required for the Coleman Distribution System during the reporting period.

8.0 REQUIREMENTS THE SYSTEM FAILED TO MEET

The system met all requirements of the Safe Drinking Water Act and Municipal License #272-101

9.0 SUMMARY OF FLOW RATES AND QUANTITIES

The Coleman Distribution System received 14,206 m³ from the Cobalt Drinking Water System (DWS # 220000362) in 2021. Flow summaries of the source and treated water can be found in the Cobalt Drinking Water System 2021 Annual Summary Report.

10.0 CONCLUSION

In 2021 the Coleman Distribution System provided safe and reliable drinking water to its users. The system complied with all regulatory requirements of the Safe Drinking Water Act and its Regulations and met the terms and conditions outlined in the Drinking Water Act and Municipal License and Drinking Water Works Permit.