



Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Coleman Distribution System

2020 Annual Summary Report

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



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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 2020 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 2 - May 13, 2016)
Drinking Water Work Permit No.:	272-201 (Issue 2 - May 13, 2016)
Period being reported on:	January 1, 2020 to December 31, 2020

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 2020 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 DRINKING WATER 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 2020.

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. Adverse Water Quality Incident numbers 149365, 149367, 149592, 152641, 152688, 152689 and 152691 were reported by the Cobalt Drinking Water System which provides drinking water to the Coleman Distribution System

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)
53	0 to 0	0 to 0	52	<10 to 90

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.

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

Parameter	No. of Samples	Range of Results (min to max)	Unit of Measure	Standard
Free Chlorine	105	0.24 to 1.81	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 13	<0.05	<0.05	No
April 14	0.08	<0.05	No
July 13	<0.05	<0.05	No
October 5	<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 13	40.4	47.70	No
April 14	62.3	54.13	No
July 13	55.6	52.25	No
October 5	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 13	64	40.25	No
April 14	29	44.75	No
July 13	51	38	No
October 5	40	46	No

Maximum Acceptable Concentration (MAC) = 80ug/L (Four Quarter Running Average) effective January 2020

Summary of Lead, pH & Alkalinity Results

Sample Date	# of Samples	Field pH	Alkalinity (mg/L)	Lead (ug/L)	Exceedance
April 14	1	6.94	56	2.4 (April 4, 2019)	No
September 24	1	6.86	53	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 5, 2020

Parameter	Result Value	Unit of Measure	Standard	Exceedance
Antimony	<0.5	ug/L	6	NO
Arsenic	<1	ug/L	10	No
Barium	5	ug/L	1000	No
Boron	2	ug/L	5000	No
Cadmium	<0.1	ug/L	5	No
Chromium	<1	ug/L	50	No
Mercury	<0.1	ug/L	1	No
Selenium	0.5	ug/L	50	No
Uranium	<1	ug/L	20	No

Note: Sample required every 12 months (sample date = October 7, 2019)**Summary of Schedule 24 Organic Results from the Cobalt Water Treatment Plant**

Sample Date: October 5, 2020

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	<0.2	ug/L	100	No
2,4,6-Trichlorophenol	<0.2	ug/L	100	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	<0.351	ug/L	100	No
2-4 Dichlorophenol	<0.2	ug/L	900	No
Alachlor	<0.226	ug/L	5	No
Atrazine + N-dealkylated metabolites	<0.5	ug/L	5	No
Azinphos-methyl	<0.169	ug/L	20	No
Benzene	<0.1	ug/L	1	No
Benzo(a)pyrene	<0.01	ug/L	0	No
Bromoxynil	<0.0935	ug/L	5	No
Carbaryl	<1	ug/L	90	No
Carbofuran	<2	ug/L	90	No
Carbon Tetrachloride	<0.2	ug/L	2	No
Chlorobenzene	<0.5	ug/L	80	No
Chlorpyrifos	<0.169	ug/L	90	No
Diazinon	<0.169	ug/L	20	No
Dicamba	<0.117	ug/L	120	No
Dichloromethane	<1	ug/L	50	No
Diclofop-methyl	<0.117	ug/L	9	No
Dimethoate	<0.169	ug/L	20	No
Diquat	<0.3	ug/L	70	No
Diuron	<6	ug/L	150	No
Glyphosate	<20	ug/L	280	No



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

Sample Date: October 5, 2020

Parameter	Result Value	Unit of Measure	Standard	Exceedance
Malathion	<0.169	ug/L	190	No
MCPA	<5.85	ug/L	230	N/A
Metolachlor	<0.113	ug/L	50	No
Metribuzin	<0.113	ug/L	80	No
Paraquat	<0.2	ug/L	10	No
Pentachlorophenol	<0.3	ug/L	3	No
Phorate	<0.113	ug/L	60	No
Picloram	<0.0819	ug/L	2	No
Prometryne	<0.0564	ug/L	1	No
Simazine	<0.169	ug/L	10	No
Terbufos	<0.113	ug/L	1	No
Tetrachloroethylene	<0.3	ug/L	10	No
Total PCB's	<0.06	ug/L	190	No
Triallate	<0.113	ug/L	5	No
Trichloroethylene	<0.2	ug/L	5	No
Trifluralin	<0.113	ug/L	45	No
Vinyl Chloride	<0.1	ug/L	1	No

Note: Sample required every 12 months (sample date = October 7, 2019)

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 receives its water from the Cobalt Drinking Water System (DWS # 220000362). Flow summaries of the source and treated water can be found in the Cobalt Drinking Water System 2020 Annual Summary Report.

10.0 CONCLUSION

In 2020 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.