

Ramore Drinking Water System

2022 Annual Summary Report



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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:

- Description of system and chemical(s) used
- Summary of any adverse water quality reports and corrective actions
- 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.

- A summary of the quantities and flow rates of water supplied during the reporting period, including the monthly average and the maximum daily flows.
- 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 Annual and Summary Reports have been combined and presented to council as the Ramore Drinking Water System 2022 Annual Summary Report.



1.0 INTRODUCTION

Drinking-Water System Name:	RAMORE DRINKING WATER SYSTEM
Drinking-Water System No.:	220002538
Drinking-Water System Owner:	The Corporation of the Township of Black River -Matheson
Drinking-Water System Category:	Small Municipal, Residential System
Municipal Drinking Water Licence No.:	204-104 (Issue 4 - April 23, 2021) 204-104 (Issue 5 - January 5, 2022) 204-104 (Issue 6 - March 14, 2022)
Drinking Water Work Permit No.:	204-204 (Issue 2 - June 30, 2016) 204-204 (Issue 3 - March 14, 2022)
Permit to Take Water No:	P-300-3085151154 (Issued December 2, 2020)
Period being reported on:	January 1, 2022 to December 31, 2022

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.

**Black River - Matheson Municipal Office
429 Park Lane,
Matheson ON P0K 1N0**

Drinking Water Systems that receive drinking water from the Ramore Drinking Water System

Drinking Water System Name	Drinking Water System Number
Ramore Drinking Water System	220002538

The Annual Report was provided to all connected Drinking Water System owners

The Ontario Clean Water Agency prepared the 2022 Annual Summary Report for the Ramore Drinking Water System and provided a copy to the system owner; the Township of Black River - Matheson. The Ramore Drinking Water System is a stand-alone system that does not receive water from or send water to another system.

System users are notified that the Annual Report is available through:

- Public access/notice via newspaper/website



2.0 DESCRIPTION OF THE DRINKING WATER SYSTEM

Ramore Drinking Water System is fed by three source wells, located in an easement approximately 335 m east of Ferguson Avenue and approximately 110 m south of Saint Joseph Street in the Town of Ramore. Each of the three wells has a discharge line connected to a well pump header, located in the pumphouse.

Well No. 5 is a main production well consisting of a 150 mm diameter, 48.11 m deep drilled groundwater production well. This well is equipped with a submersible deep well pump rated at 162 L/min at a total dynamic head (TDH) of 65 m. Discharge from this well is through a 50 mm diameter discharge line.

Well No. 4 is a main production well consisting of a 200 mm diameter, 45.36 m deep drilled groundwater production well, which is equipped with a submersible deep well pump rated at 318 L/min at a TDH of 65 m. Discharge from this well is through a 75 mm diameter discharge line.

Well No. 3 is a standby well consisting of a 400 mm diameter, 43.26 m deep drilled groundwater production well. This well is equipped with a submersible deep well pump rated at 180 L/min at a TDH of 65 m. Discharge from this well is through a 50 mm diameter discharge line.

The pumphouse contains the disinfection equipment, system controls and two 500 litre pressure tanks. The sodium hypochlorite disinfection system consists of one 60 litre chemical storage tank and three chemical metering pumps (two duty and one standby). The feed of sodium hypochlorite is directed into the well pump discharge header immediately downstream from the pump. The sodium silicate injection system consists of one 60 litre chemical storage tank and two metering pumps (one duty and one standby). The sodium silicate feed is directed into the well pump discharge header immediately downstream from the pump. The sodium silicate injection system is usually only used when Well No. 3 is operating. Chlorine contact is provided by a below ground contact chamber consisting of a 35 m (105 feet) x 750 mm (24 inch) HDPE (high density polyethylene) water main before discharge to the distribution system.

The distribution system serves an approximate population of 300 people residing in approximately 50 private residences. The total number of service connections is estimated to be 98, the difference of which being commercial properties and serviced undeveloped properties. The distribution system piping consists mainly of four (4) inch asbestos concrete constructed watermain.

A stand-by diesel generator is on-site to supply power to the entire facility during power failures.

3.0 LIST OF ALL WATER TREATMENT CHEMICALS USED

- Sodium Hypochlorite - disinfection
- Sodium Silicate - Iron & Manganese Sequestering (Well 3 only)

4.0 SIGNIFICANT EXPENSES INCURRED

- UPS Unit for PLC
- Programming for Well 3 lockout
- New chlorine analyzer
- Well 4 Engineering Study
- Operations and Maintenance costs



5.0 NOTICES REPORTED & SUBMITTED TO THE SPILLS ACTION CENTER

Incident #1 - False Loss of Pressure

AWQI #	160244
Date	October 5, 2022
Details	On October 5, 2022 Municipal operators were preparing to look for a leak in the Ramore distribution system and needed to isolate a section of Knox street. Operators expected four of the residences to be without water for at least 20 to 30 minutes so OCWA completed the required notifications. The health unit was going to issue a boil water advisory for the affected area but then the operators discovered that pressure was actually maintained and the residences did not lose water or any pressure even. The health unit was updated and the health inspector did not issue the Boil Water Advisory.
Corrective Action	Operators discovered that pressure was maintained and the residences did not lose water or any pressure. The health unit was updated and the health inspector did not issue the Boil Water Advisory. (Notified Kaitlin McCaw, Health Inspector, at 9:55 am on 2022/10/05). MOE SAC updated at 12:41 pm on 2022/10/05



Incident #2 - Category 2 Watermain Break / Loss of Pressure / Boil Water Advisory

AWQI #	160338
Date	October 18, 2022
Details	A dead-end flushing valve and 2 service lines on Knox St. was repaired. Complete loss of pressure for distribution system on McIntyre Ave, and Knox St west of McIntyre as section of piping had to be isolated for duration of repair. Pipe section was cut out and replaced.
Corrective Action	The affected six residences and store were put on a boil water advisory. Repair completed in afternoon on October 18, 2022. Piping was disinfected, the water was restored and the affected area was flushed. Two sets of bacti samples were collected 24 - 48 hours apart on October 18 and October 19. All results came back clear of total coliforms and E.coli and the Health Unit lifted the BWA on October 20, 2022.

6.0 MICROBIOLOGICAL TESTING

Sample Type	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)
Raw - Well 3	13	0 to 0	0 to 0	N/A	N/A
Raw - Well 4	13	0 to 0	0 to 0	N/A	N/A
Raw - Well 5	13	0 to 0	0 to 0	N/A	N/A
Distribution	27	0 to 0	0 to 0	27	<10 to 20

Maximum Allowable Concentration (MAC) for 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: One microbiological sample is collected and tested each month from each raw water supply and one every two weeks from the distribution system.

7.0 OPERATIONAL TESTING

Raw Water Turbidity

Location	No. of Samples	Range of Results (min to max)	Unit of Measure
Well 3	13	0.51 to 1.65	NTU
Well 4	13	0.13 to 0.50	
Well 5	13	0.41 to 1.31	



Continuous Monitoring in the Treatment Process

Parameter	No. of Samples	Range of Results (min to max)	Unit of Measure	Standard
Free Chlorine	8760	0.63 to 2.00	mg/L	N/A

Notes: For continuous monitors 8760 is used as the number of samples.

Chlorine Residuals from the Distribution System

Parameter	No. of Samples	Range of Results (min to max)	Unit of Measure	Standard
Free Chlorine	105	0.85 to 1.35	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.

Nitrate & Nitrite Results from the Water Treatment Plant

Date of Sample	Nitrate Result Value (mg/L)	Nitrite Result Value (mg/L)	Exceedance
January 4	0.62	<0.05	No
April 11	0.65	<0.05	No
July 4	0.7	<0.01	No
October 11	0.65	<0.05	No

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

MAC for Nitrite = 1.0 mg/L

Total Trihalomethane (THM's) Results from the Distribution System

Date of Sample	Result Value (ug/L)	Four Quarter Running Average	Exceedance
January 4	4.9	6.88	No
April 11	5.8	7.93	No
July 4	7.1	6.76	No
October 11	6	5.95	No

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

Total Haloacetic Acid (HAA's) Results from the Distribution System

Date of Sample	Result Value (ug/L)	Four Quarter Running Average	Exceedance
January 4	<8	8.8	No
April 11	<8	8.67	No
July 4	<8	8.57	No
October 11	9	8.63	No

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



Lead (most recent), pH & Alkalinity Results (from the distribution system)

Date of Sample	# of Samples	Range of Results (min to max)		
		pH Results	Alkalinity Results (mg/L)	Lead Results (ug/L)
April 14, 2022	1	7.7	340	0.3 (April 7, 2020)
September 19, 2022	1	8.1	360	<0.1 (Oct 15, 2020)

MAC for Lead -10 ug/L

Note: 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 and one distribution sample during the period of June 15 to October 15. This testing is required in every 12-month period with lead testing in every third 12-month period. The next round of lead sampling will be completed in April and October of 2023.

Summary of Most Recent Schedule 23 Inorganic Results from the Water Treatment Plant

Sample Date: September 21, 2020

Parameter (ug/L)	Result Value	Maximum Acceptable Concentration	Exceedance
Antimony	<0.5	6	No
Arsenic	2	10	No
Barium	21	1000	No
Boron	23	5000	No
Cadmium	<0.1	5	No
Chromium	<1	50	No
Mercury	<0.1	0.001	No
Selenium	0.3	10	No
Uranium	<1	20	No

Note: Sampling required once every 60 months (next sample scheduled for October 2025)

Summary of Most Recent Schedule 24 Organic Results from the Water Treatment Plant

Sample Date: September 21, 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	<0.3	ug/L	100	No
2,4,6-Trichlorophenol	<0.2	ug/L	100	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	<0.739	ug/L	100	No
2-4 Dichlorophenol	<0.2	ug/L	900	No
Alachlor	<0.241	ug/L	5	No
Atrazine + N-dealkylated metabolites	<0.5	ug/L	5	No
Azinphos-methyl	<0.181	ug/L	20	No
Benzene	<0.1	ug/L	1	No
Benzo(a)pyrene	<0.01	ug/L	0	No
Bromoxynil	<0.118	ug/L	5	No
Carbaryl	<2	ug/L	90	No



Parameter	Result Value	Unit of Measure	Standard	Exceedance
Carbofuran	<2	ug/L	90	No
Carbon Tetrachloride	<0.2	ug/L	2	No
Chlorobenzene	<0.5	ug/L	80	No
Chlorpyrifos	<0.181	ug/L	90	No
Diazinon	<0.181	ug/L	20	No
Dicamba	<0.104	ug/L	120	No
Dichloromethane	<1	ug/L	50	No
Diclofop-methyl	<0.148	ug/L	9	No
Dimethoate	<0.181	ug/L	20	No
Diquat	<0.2	ug/L	70	No
Diuron	<8	ug/L	150	No
Glyphosate	<20	ug/L	280	No
Malathion	<0.181	ug/L	190	No
MCPA	<7.39	ug/L	230	N/A
Metolachlor	<0.121	ug/L	50	No
Metribuzin	<0.121	ug/L	80	No
Paraquat	<0.2	ug/L	10	No
Pentachlorophenol	<0.3	ug/L	3	No
Phorate	<0.121	ug/L	60	No
Picloram	<0.104	ug/L	2	No
Prometryne	<0.0603	ug/L	1	No
Simazine	<0.181	ug/L	10	No
Terbufos	<0.121	ug/L	1	No
Tetrachloroethylene	<0.3	ug/L	10	No
Total PCB's	<0.07	ug/L	190	No
Triallate	<0.121	ug/L	5	No
Trichloroethylene	<0.2	ug/L	5	No
Trifluralin	<0.121	ug/L	45	No
Vinyl Chloride	<0.1	ug/L	1	No

Note: Sampling required once every 60 months (next sample scheduled for October 2025)

Fluoride Results (Most Recent) from the Water Treatment Plant

Date of Sample	# of Samples	Result Value	Unit of Measure	Standard	Exceedance
September 21, 2020	1	13.1 mg/L	mg/L	20	No

Note: Sample required every 60 months. Next sample scheduled for October 2025

Fluoride Results (Most Recent) from the Water Treatment Plant

Date of Sample	No. of Samples	Result Value	Unit of Measure	Standard	Exceedance
September 21, 2020	1	0.07	mg/L	1.5	No

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

Additional Testing Performed in Accordance with a Legal Instrument.

No additional testing was required in 2022.

8.0 REQUIREMENTS THE SYSTEM FAILED TO MEET

Incident #1 - Incorrect Data for Well #5 Flows

Legislation	Municipal Drinking Water License 204-104 - Schedule C, Section 2.0
Requirement(s) the System Failed to Meet	<p>On September 12, 2022 it was discovered that the Wonderware values for the flow rate and total flow volume have been incorrect since around September 2021.</p> <p>The pump is only rated at 2.7 L/s and it is throttled down so that it does not exceed the PTTW limit (2.7 L/s). The daily totals are being calculated using totalized flows which are recorded on site.</p> <p>Operators and IT checked to see if it was a scaling issue but it was determined that the Outpost panel needs a new analog isolator. Instrumentation tried replacing the isolator with new ones and spares from other Outpost panels but none of them were compatible.</p>
Corrective Action	Analog isolator in Outpost panel replaced.
Status	Resolved

Incident #2 - Well 3 Flow Data Being Recorded Manually

Legislation	Municipal Drinking Water License 204-104 - Schedule C, Section 2.0
Requirement(s) the System Failed to Meet	<p>September 29: Well 3 flow meter no longer going into wonderware; analog isolator for Outpost panel was needed for the chlorine analyzer. The well is only being run in manual so that the flow rate can be monitored/observed. The total daily volume is being determined using the totalized flow readings on the flow meter.</p> <p>Instrumentation tried replacing the isolator with new ones and spares from other Outpost panels but none of them were compatible.</p>
Corrective Action	Analog isolator in Outpost panel replaced.
Status	Resolved



9.0 SUMMARY OF FLOW RATES AND QUANTITIES

The following tables and graphs indicate the quantities and flow rates of water taken and produced during the reporting period, including monthly average flows, maximum daily flows and the total monthly volumes. A comparison of the water data is made to the rated capacity and flow rates specified in the system’s Permit to Take Water and the Municipal Drinking Water License.

Any raw water flow rate exceedances in 2022 were checked and determined to be inflated numbers due to momentary spikes on pump start up/shutdown that lasted less than 2 minutes and are not representative. The actual maximum flow rates have been depicted in the tables below.

Well 3 - Summary of Water Taking

Regulated by Permit to Take Water (PTTW) P-300-3085151154, issued December 2, 2020.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year to Date
Total Volume (m ³)	4	8	7	9	35	14	8	3	34	24	2	5	153
Average Volume (m ³ /d)	0.13	0.29	0.23	0.30	1.13	0.47	0.26	0.10	1.13	0.77	0.06	0.17	0.42
Maximum Volume (m ³ /d)	4	4	7	6	29	9	4	3	25	13	2	3	29
PTTW - Maximum Allowable Volume (m ³ /day)	109.1	109.1	109.1	109.1	109.1	109.1	109.1	109.1	109.1	109.1	109.1	109.1	109.1
Maximum Flow Rate (L/min)	163	172	158	178	175	173	167	159	181	180	180	180	181
PTTW - Maximum Allowable Flow Rate (L/min)	182	182	182	182	182	182	182	182	182	182	182	182	182

The system’s Permits to Take Water allow the municipality to withdraw a maximum volume of 109.1 cubic meters from Well 1 each day. A review of the raw water flow data indicates that the system never exceeded this allowable limit having a maximum volume of 29 m³.

The Permit also allows a maximum flow rate of 182 L/minute which was not exceeded either as the maximum flow rate was 181 L/minute.

Well 4 - Summary of Water Taking

Regulated by Permit to Take Water (PTTW) P-300-3085151154, issued December 2, 2020.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year to Date
Total Volume (m ³)	3108	2679	2962	2775	1916	2021	2440	1845	1721	1617	1566	1637	26287
Average Volume (m ³ /d)	100	96	96	93	62	67	79	60	57	52	52	53	72
Maximum Volume (m ³ /d)	121	104	104	102	86	88	91	81	80	62	57	58	121
PTTW - Maximum Allowable Volume (m ³ /day)	460	460	460	460	460	460	460	460	460	460	460	460	460
Maximum Flow Rate (L/min)	115	108	106	113	104	98	96	98	110	111	101	87	115
PTTW - Maximum Allowable Flow Rate (L/min)	318	318	318	318	318	318	318	318	318	318	318	318	318

The system’s Permits to Take Water allow the municipality to withdraw a maximum volume of 460 cubic meters from Well 4 each day. A review of the raw water flow data indicates that the system never exceeded this allowable limit having a maximum volume of 121 m³.

The Permit also allows a maximum flow rate of 318 L/minute which was not exceeded either as the maximum flow rate was 115 L/minute.



Well 5 - Summary of Water Taking

Regulated by Permit to Take Water (PTTW) P-300-3085151154, issued December 2, 2020.

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year to Date
Total Volume (m ³)	56	44	61	81	31	32	65	27	39	15	15	10	474
Average Volume (m ³ /d)	1.8	1.6	2.0	2.7	1.0	1.1	2.1	0.9	1.3	0.5	0.5	0.3	1.3
Maximum Volume (m ³ /d)	3	2	2	1	7	16	3	3	5	7	2	4	16
PTTW - Maximum Allowable Volume (m ³ /day)	230	230	230	230	230	230	230	230	230	230	230	230	230
Maximum Flow Rate (L/min)	149	136	116	142	106	98	103	66	156	153	127	124	156
PTTW - Maximum Allowable Flow Rate (L/min)	162	162	162	162	162	162	162	162	162	162	162	162	162

The system’s Permit to Take Water allows the municipality to withdraw a maximum volume of 230 cubic meters from Well 4 each day. A review of the raw water flow data indicates that the system never exceeded this allowable limit having a maximum volume of 16 m³.

The Permit also allows a maximum flow rate of 162 L/minute, which was not exceeded either as the maximum flow rate was 156 L/minute.

Treated Water Supplied to the Distribution System

Regulated by Municipal Drinking Water Licence (MDWL) #204-104 (Issue 4 - April 23, 2021), #204-104 (Issue 5 - January 5, 2022), and #204-104 (Issue 6 - March 14, 2022)

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year to Date
Total Volume (m ³)	3050	2643	2932	2756	1722	1820	2274	1623	1510	1407	1281	1533	24551
Average Volume (m ³ /d)	98	94	95	92	56	61	73	52	50	45	43	49	67
Maximum Volume (m ³ /d)	131	105	108	105	96	86	91	79	84	61	47	56	131
MDWL - Rated Capacity (m ³ /day)	864	864	864	864	864	864	864	864	864	864	864	864	864
% Rated Capacity	15	12	13	12	11	10	11	9	10	7	5	6	15

Schedule C, Section 1.1 of MDWL No. 204-104 states that the maximum daily volume of treated water that flows from the treatment subsystem to the distribution system shall not exceed a maximum flow rate of 864 m³ on any calendar day. The Ramore DWS complied with this limit having a recorded maximum volume of 131 m³, which is 15% of the rated capacity.

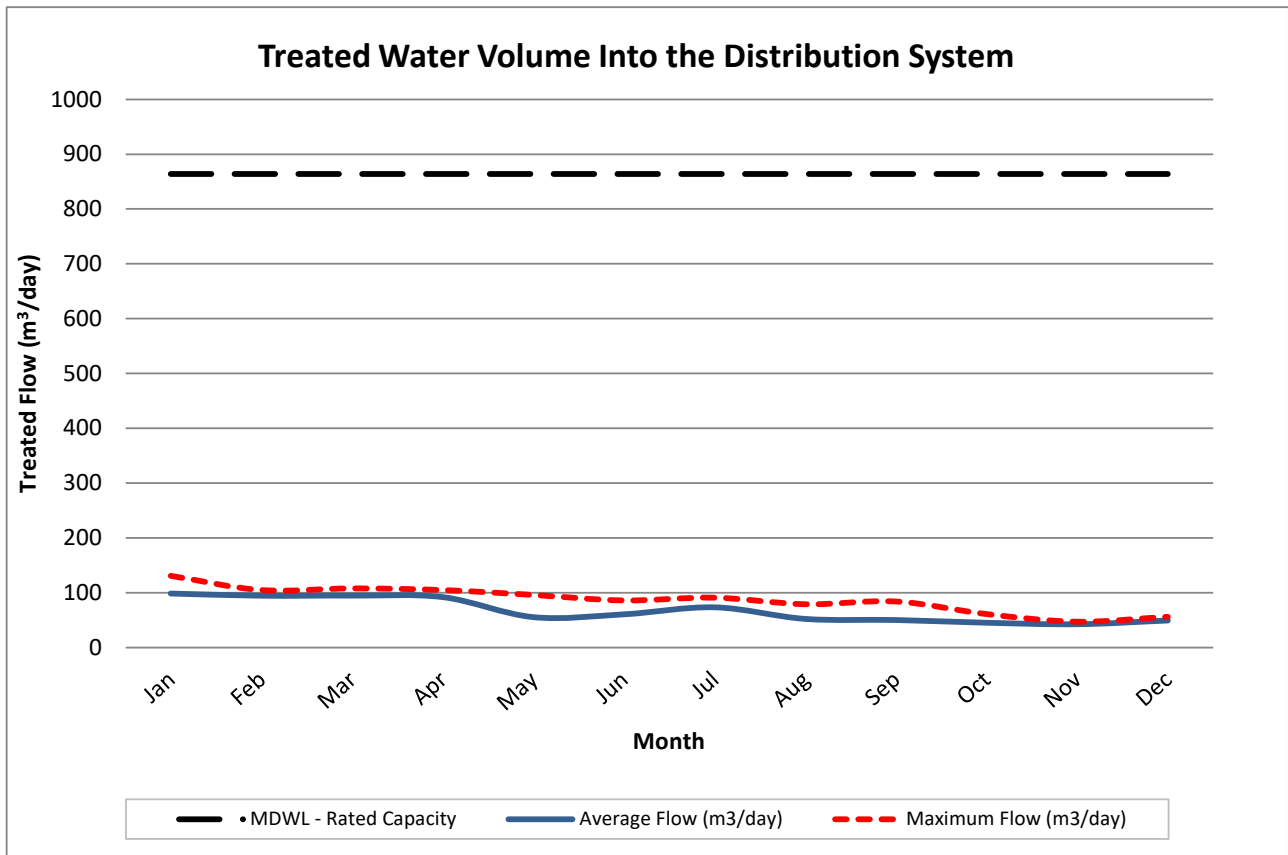


Figure: Volume of Treated Water Supplied to the Distribution System

A comparison of the rate specified in the system’s Municipal Drinking Water Licence to the average and maximum volumes entering the distribution system.

Comparison of the Flow Summary to Systems Licence & Permit

Rated Capacity of the Plant (MDWL)	864 m ³ /day	
Average Daily Flow for 2022	67 m ³ /day	8 % of the rated capacity
Maximum Daily Flow for 2022	131 m ³ /day	15 % of the rated capacity
Total Treated Water Produced in 2022	24,551 m ³	

The Ramore water treatment plant is rated at 864 cubic meters of water per day as specified in the system’s Municipal Drinking Water Licence. The average daily flow was 67 m³ per day, which is 8% of the rated capacity. This information clearly shows that the plant is well within its rated capacity and is able to meet current demands of consumers.

10.0 CONCLUSION

The Ramore Drinking Water System completed all required sampling and monitoring in 2022 and was able to meet the community’s demand for drinking water while complying with the terms and conditions outlined in its Drinking Water Works Permit and Municipal Drinking Water Licence with the exception of the two incidents listed in section 8.0. The system complied with the regulatory requirements of the Safe Drinking Water Act and its Regulations.