

# *Gore Bay Water Treatment*

Large Municipal Residential Drinking Water System

*January 1, 2023 – December 31, 2023*

*O.Reg 170/03 Schedule 22 Summary Report*

*O.Reg 170/03 Section 11 Annual Report*

*&*

*O.Reg 387/04 Annual Record of Water Taking*

Prepared by the Ontario Clean Water Agency  
For The Corporation of the Town of Gore Bay



**Ontario Clean Water Agency**  
**Agence Ontarienne Des Eaux**



*Drinking-Water System Number:* 210002208  
*Drinking-Water System Name:* GORE BAY DRINKING WATER SYSTEM  
*Drinking-Water System Owner:* The Corporation of the Town of Gore Bay  
*Drinking-Water System Category:* Large Municipal Residential

## **SECTION 1: INTRODUCTION**

This document is prepared in accordance with Section 11 and Schedule 22 of O.Reg.170/03 under the Safe Drinking Water Act and with Section 9 of O.Reg.387/04 under the Ontario Water Resources Act. The reports are prepared by the Ontario Clean Water Agency. Acronyms and definitions can be found at the end of the report..

A copy of the Summary Report must be provided to the members of the municipal council by March 31, [2024](#).

## **SECTION 2: REQUIREMENTS OF THE REPORTS**

### **Schedule 22 Report**

The report must list the requirements of the Act, the regulations, the system's approval and any order that the system **failed to meet** at any time during the period covered by the report. 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.

For the purpose of enabling the owner of the system to assess the rated capability of their system to meet existing and future planned water uses, the following information is required to be included in this report:

- 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.
- A comparison of the summary to the rated capacity and flow rates approved in the systems approval.

### **Section 11 Report**

The annual report must contain the following:

- A brief description of the drinking water system and a list of chemicals used by the system.
- A description of any major expenses incurred during the period covered by the report to install, repair or replace required equipment.
- A summary of all adverse water quality incidents (AWQI) reported to the Ministry
- A summary of corrective actions taken in response all AWQIs
- A summary of all test results required under the regulation, under an approval, municipal drinking water licence or order, including an OWRA order.
- A statement of where a Schedule 22 report will be available for inspection.

The report must be prepared not later than February 28 of the following year.

### **Regulation 387 Report**

On or before March 31 in every year, every holder of a permit to take water (PTTW) shall submit to a Director the data collected and recorded for the previous year.

A record of annual water taking can be found in [Appendix A](#).



## SECTION 3: SCHEDULE 22 REPORT

### Flows - Treated

In accordance with the Municipal Drinking Water License (MDWL), the Gore Bay WTP shall not be operated to exceed a maximum flow of 1250 m<sup>3</sup>/d to the distribution system.

The highest daily treated water maximum flow was 1,068.3 m<sup>3</sup> in July and represents 85% of capacity. In 2023, the total volume of water sent to the distribution system was 288,731.6 m<sup>3</sup>

The quantity of treated water supplied during the reporting period **did not** exceed the rated maximum capacity.

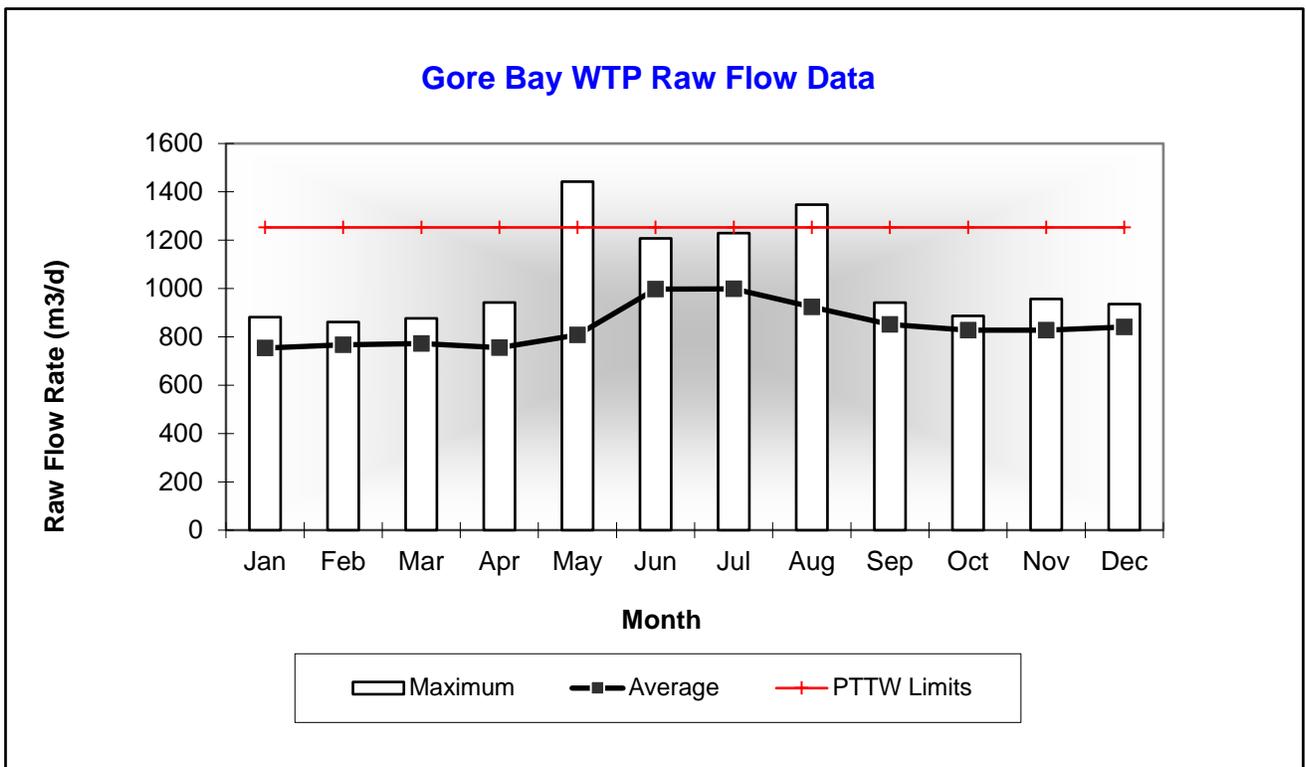
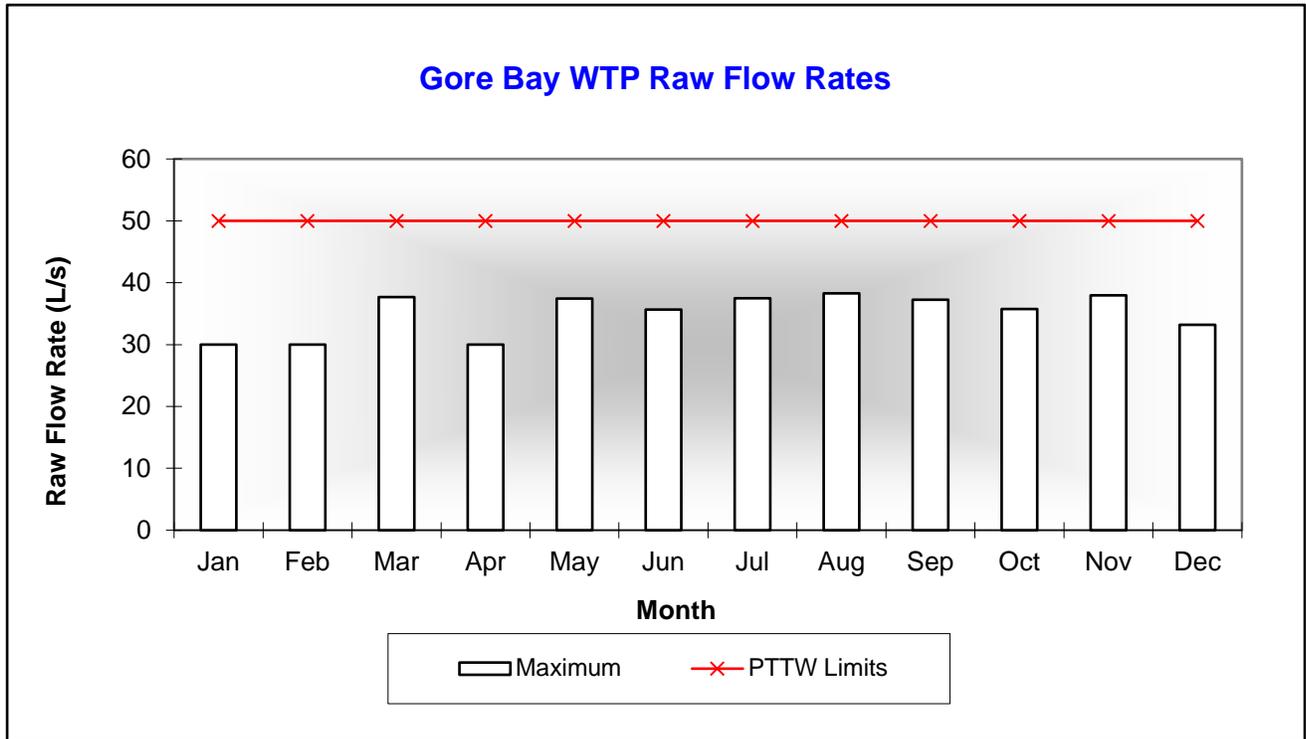
### Flows – Raw

Daily raw maximum instantaneous flow is stated in the PTTW at a maximum rate of flow of 50 L/s and a maximum daily volume of 1252.8 m<sup>3</sup>/d.

The average monthly raw water flow for this reporting period was 844.07m<sup>3</sup>/d. The maximum daily flow was 1,442.3 m<sup>3</sup>/d representing 115% of water taking limits. In 2023, the total volume of water taken from the environment was 308,086.2 m<sup>3</sup>.

The quantity of raw water taken **did** exceed the limits stipulated within the PTTW. Details can be found under System Failures and Corrective Actions.

<i>RAW WATER FLOW DATA - TOTAL ALL SOURCES</i>						
Month	Total Monthly Flow (m3)	Average Flow (m3/d)	Maximum Flow (m3/d)	Maximum Flow Rate (L/s)	Limits	
					L/s (PTTW)	m3/d (PTTW)
January	23,361.5	753.6	881.5	30	50	1252.8
February	21,491.6	767.56	861.3	30	50	1252.8
March	23,943.7	772.38	876.5	37.68	50	1252.8
April	22,644.3	754.81	942.1	30	50	1252.8
May	25,047.1	807.97	1,442.3	37.44	50	1252.8
June	29,903.72	996.79	1,207.4	35.66	50	1252.8
July	30,954.22	998.52	1,229.3	37.49	50	1252.8
August	28,627	923.45	1,347.1	38.28	50	1252.8
September	25,554.5	851.82	941.6	37.25	50	1252.8
October	25,655.7	827.6	886.7	35.75	50	1252.8
November	24,831.5	827.72	956.7	37.96	50	1252.8
December	26,071.4	841.01	935.6	33.2	50	1252.8
<b>Total</b>	308,086.2					
<b>Average</b>		844.07				
<b>Maximum</b>			1,442.3	38.28	50	1252.8





## Annual Raw Water Review

Raw Water Taking	Total Taking (m3/d)	Average Day (m3/d)	Max Day (m3/d)	Max Day % of PTTW allowable 1,252.8 (m3/d)
2023	308,086.2	844.07	1,442.3	115%
2022	233,467.9	639.64	1,004.9	80%
2021	201,433.7	551.87	1,099.5	88%
2020	197,196	538.79	1,086.6	87%
2019	191,757	525.36	1,052	83.9%

## System Failures and Corrective Actions

The latest inspection of the drinking water facility took place on [June 7, 2023](#). The facility scored [12/678](#) providing a rating of [98.23%](#).

**Question ID DWMR1013000: Is the owner in compliance with all conditions of the PTTW? The owner was not in compliance with all conditions of the PTTW.**

DWI notes: Permit to Take Water (PTTW) 7461-AK4JRX was issued to the Corporation of the Town of Gore Bay on March 3, 2017

The Maximum water taking recorded during this review period occurred on May 30, 2023 - 1 442.30 m3/day. The PTTW states that a total of 1 252.8 m3/day is authorized.

The following non-compliance was also identified during 2023:

On August 8, 2023, the Gore Bay WTP exceeded the PTTW with a daily total of 1,347.1m<sup>3</sup>. The plant was off the previous day which drew down the clearwells lower than the normal. In order to keep up with demand while filling the clearwells, the PTTW maximum daily total was exceeded.

### AWQIs reported to the Ministry

Incident Date	Parameter	Result	Unit of Measure	Corrective Action/Comment	Corrective Action Date
22-Mar-23	Pressure	0	psi	AWQI#161553 – A service repair required the shutdown of the business corridor effecting 35 customers. A voluntary BWA was issued by the Town. After the repair was complete, pressure was regained and the area was flushed. Two sets of bacti samples were collected as directed by SDHU. All results were non-detect. The SDHU then gave permission to lift the BWA.	27-Mar-23
10-Jul-23	Pressure	0	psi	AWQI#162503 – A section of the distribution system was valved off in order to install a new commercial water supply. After the repair was complete, pressure was regained and the area was flushed. Two sets of bacti samples were collected as directed by SDHU. All results were non-detect. The SDHU then gave permission to lift the BWA.	12-Jul-23
03-Aug-23	Pressure	0	psi	AWQI#162909 – A watermain break during a new service hook up resulted in a loss of pressure for 12 residents and a gym. After the repair was complete,	15-Aug-23



				pressure was regained and the area was flushed. Two sets of bacti samples were collected as directed by SDHU. All results were non-detect. The SDHU then gave permission to lift the BWA.	
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## SECTION 4: SECTION 11 REPORT

### Information to be provided

Population Served <b>867</b> (Stats Canada – 2016)	
Does your Drinking-Water System serve more than 10,000 people?	<b>No</b>
Is your annual report available to the public at no charge on a web site on the Internet?	<b>Yes</b>
Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.	<b>Town of Gore Bay, Municipal Office 15 Water Street Gore Bay, Ontario POP 1H0</b>
Number of Designated Facilities served:	<b>0</b>
Did you provide a copy of your annual report to all Designated Facilities you serve?	<b>NA</b>
Number of Interested Authorities you report to:	<b>0</b>
Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility?	<b>NA</b>
List all Drinking-Water Systems (if any), and their DWS which receive all of their drinking water from your system:	<b>NA</b>
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?	<b>NA</b>
Indicate how you notified system users that your annual report is available, and is free of charge.	<b>Public access/notice via a Public Library</b>
Indicate if you notified system users that your annual report is available and is free of charge using an alternate method	<b>Yes</b>

### Facility Description

A US Filter membrane filtration plant supplying water to the Town of Gore Bay, drawing water from the North Channel of Lake Huron, consisting of two packaged membrane units, each with 32 microfiltration membrane modules, chlorine contact tank, clean water reservoir and high lift pump well supplying the Town. The rated capacity of the system is 1250 m<sup>3</sup>/d. The plant consists of various chemical feed systems and utilizes sodium hypochlorite for disinfection. There is a 237 kW standby diesel generator to provide power during emergency situations. Non-chemical membrane wash water is returned to Gore Bay while chemical membrane wash water is neutralized and discharged to the sanitary sewer system.

### Chemicals Used

Sodium Hypochlorite 12%	– Disinfection
Calcium Thiosulphate (Captor)	– De-chlorination of wastewater
Citric Acid	– Cleaner for membranes
Sodium Hydroxide	– Neutralize the citric acid before disposal



### Significant Expenses

Significant expenses incurred to

- Install required equipment
- Repair required equipment
- Replace required equipment

Work Order	Completion Date	Comment
2777586	14-Jun-23	Generator transfer switch controller replacement – \$15,074.07
	14-Jun-23	Filter 2 repairs, repaired leak and replaced temperature transmitter – \$3,623.25
3245668	13-Nov-23	New diesel pump pressure switch installation – \$3,430.13
3387531	30-Jun-23	Filter 2 turbidity analyzer repair – \$2,950.74

### Adverse Water Quality Incidents

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/Comment	Corrective Action Date
22-Mar-23	Pressure	0	psi	AWQI#161553 – A service repair required the shutdown of the business corridor effecting 35 customers. A voluntary BWA was issued by the Town. After the repair was complete, pressure was regained and the area was flushed. Two sets of bacti samples were collected as directed by SDHU. All results were non-detect. The SDHU then gave permission to lift the BWA.	27-Mar-23
10-Jul-23	Pressure	0	psi	AWQI#162503 – A section of the distribution system was valved off in order to install a new commercial water supply. After the repair was complete, pressure was regained and the area was flushed. Two sets of bacti samples were collected as directed by SDHU. All results were non-detect. The SDHU then gave permission to lift the BWA.	12-Jul-23
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**Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03.**

	No. of Samples Collected	Range of E.Coli		Range of Total Coliform Results		Number of HPC Samples	Range of HPC Results	
		Min #	Max #	Min #	Max #		Min #	Max #
Raw Water	52	0	1	0	76	N/A	N/A	N/A
Treated Water	52	0	0	0	0	52	0	36
Distribution	118	0	0	0	0	53	0	25

**Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03**

	No. of Samples Collected	Range of Results		Units of Measure
		Minimum	Maximum	
Turbidity – Filter 1	8760	0	0.31	NTU
Turbidity – Filter 2	8760	0	0.24	NTU
Free Chlorine Residual – TW	8760	0.68	3.52	mg/L
Free Chlorine Residual – DW 1	105	0.62	2.20	mg/L
Free Chlorine Residual – DW 2	105	0.75	1.86	mg/L
Free Chlorine Residual – DW 3	103	0.86	1.95	mg/L
Free Chlorine Residual – DW 4	51	0.92	1.88	mg/L

**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 and limits	Month Sampled	Day Sampled	Result Filter 1	Result Filter 2	Unit of Measure	
MDWL 258-101  Issue Date: November 23, 2021  Expiry Date: November 22, 2026	Backwash (BW) Total Suspended Solids (TSS)  25 mg/L annual average	Jan	3	5	9	mg/L	
		Feb					
		Mar					
		Apr	11	7	6	mg/L	
		May					
		Jun					
		Jul	5	25	16	mg/L	
		Aug					
		Sep					
		Oct	5	63	36	mg/L	
		Nov					
		Dec					
<b>Annual Average</b>				<b>25</b>	<b>16.75</b>	<b>mg/L</b>	

**Summary of Inorganic parameters tested during this reporting period or the most recent sample results**

TREATED WATER	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
Antimony: Sb (ug/L) - TW	2023/01/05	< MDL 0.6	6	No	No
Arsenic: As (ug/L) - TW	2023/01/05	0.4	10	No	No



Barium: Ba (ug/L) - TW	2023/01/05	11.7	1000	No	No
Boron: B (ug/L) - TW	2023/01/05	12	5000	No	No
Cadmium: Cd (ug/L) - TW	2023/01/05	< MDL 0.003	5	No	No
Chromium: Cr (ug/L) - TW	2023/01/05	0.17	50	No	No
Mercury: Hg (ug/L) - TW	2023/01/05	< MDL 0.01	1	No	No
Selenium: Se (ug/L) - TW	2023/01/05	0.17	50	No	No
Uranium: U (ug/L) - TW	2023/01/05	0.161	20	No	No

TREATED WATER	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
Fluoride (mg/L) - TW	2021/01/18	< MDL 0.06	1.5	No	No
Nitrate : (mg/L) - TW	2023/01/03	0.239	10	No	No
Nitrate : (mg/L) - TW	2023/04/11	0.247	10	No	No
Nitrate : (mg/L) - TW	2023/07/05	0.209	10	No	No
Nitrate : (mg/L) - TW	2023/10/05	0.203	10	No	No
Nitrite : (mg/L) - TW	2023/01/03	< MDL 0.003	1	No	No
Nitrite : (mg/L) - TW	2023/04/11	< MDL 0.003	1	No	No
Nitrite : (mg/L) - TW	2023/07/05	< MDL 0.003	1	No	No
Nitrite : (mg/L) - TW	2023/10/05	< MDL 0.003	1	No	No
Sodium / Na (mg/L) - TW	2021/01/18	6.24	20*	No	No

\*There is no "MAC" for Sodium. The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.

### Summary of Lead testing under Schedule 15.1 during this reporting period

Location Type	Number of Samples	Range of Results		MAC (ug/L)	Number of Exceedances
		Minimum	Maximum		
Distribution - Lead Results (ug/L)	n/a			10	N/A
Distribution - Alkalinity (mg/L)	4	63	69	N/A	N/A
Distribution - pH In-House	4	8.06	8.33	N/A	N/A

### Summary of Organic parameters sampled during this reporting period or the most recent results

TREATED WATER	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Number of Exceedances	
				MAC	1/2 MAC
1,1-Dichloroethylene (ug/L)-TW	2023/01/05	< MDL 0.33	14	No	No
1,2-Dichlorobenzene (ug/L)-TW	2023/01/05	< MDL 0.41	200	No	No
1,2-Dichloroethane (ug/L)-TW	2023/01/05	< MDL 0.35	5	No	No
1,4-Dichlorobenzene (ug/L)-TW	2023/01/05	< MDL 0.36	5	No	No
2,3,4,6-Tetrachlorophenol (ug/L)-TW	2023/01/05	< MDL 0.2	100	No	No
2,4,6-Trichlorophenol (ug/L)-TW	2023/01/05	< MDL 0.25	5	No	No
2,4-Dichlorophenol (ug/L)-TW	2023/01/05	< MDL 0.15	900	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L)-TW	2023/01/05	< MDL 0.19	100	No	No



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2-methyl-4-chlorophenoxyacetic acid (MCPA) (ug/L)-TW	2023/01/05	< MDL 0.12	100	No	No
Alachlor (ug/L) -TW	2023/01/05	< MDL 0.02	5	No	No
Atrazine + N-dealkylated metabolites (ug/L)-TW	2023/01/05	< MDL 0.01	5	No	No
Azinphos-methyl (ug/L)-TW	2023/01/05	< MDL 0.05	20	No	No
Benzene (ug/L)-TW	2023/01/05	< MDL 0.32	1	No	No
Benzo(a)pyrene (ug/L)-TW	2023/01/05	< MDL 0.004	0.01	No	No
Bromoxynil (ug/L)-TW	2023/01/05	< MDL 0.33	5	No	No
Carbaryl (ug/L)-TW	2023/01/05	< MDL 0.05	90	No	No
Carbofuran (ug/L) -TW	2023/01/05	< MDL 0.01	90	No	No
Carbon Tetrachloride (ug/L) -TW	2023/01/05	< MDL 0.17	2	No	No
Chlorpyrifos (ug/L) -TW	2023/01/05	< MDL 0.02	90	No	No
Diazinon (ug/L)-TW	2023/01/05	< MDL 0.02	20	No	No
Dicamba (ug/L)-TW	2023/01/05	< MDL 0.2	120	No	No
Dichloromethane (Methylene Chloride) (ug/L)-TW	2023/01/05	< MDL 0.35	50	No	No
Diclofop-methyl (ug/L)-TW	2023/01/05	< MDL 0.4	9	No	No
Dimethoate (ug/L)-TW	2023/01/05	< MDL 0.06	20	No	No
Diquat (ug/L)-TW	2023/01/05	< MDL 1	70	No	No
Diuron (ug/L)-TW	2023/01/05	< MDL 0.03	150	No	No
Glyphosate (ug/L)-TW	2023/01/05	< MDL 1	280	No	No
Malathion (ug/L)-TW	2023/01/05	< MDL 0.02	190	No	No
Metolachlor (ug/L)-TW	2023/01/05	< MDL 0.01	50	No	No
Metribuzin (ug/L)-TW	2023/01/05	< MDL 0.02	80	No	No
Monochlorobenzene (Chlorobenzene) (ug/L)-TW	2023/01/05	< MDL 0.3	80	No	No
Paraquat (ug/L)-TW	2023/01/05	< MDL 1	10	No	No
PCB (ug/L)-TW	2023/01/05	< MDL 0.04	3	No	No
Pentachlorophenol (ug/L)-TW	2023/01/05	< MDL 0.15	60	No	No
Phorate (ug/L)-TW	2023/01/05	< MDL 0.01	2	No	No
Picloram (ug/L)-TW	2023/01/05	< MDL 1	190	No	No
Prometryne (ug/L)-TW	2023/01/05	< MDL 0.03	1	No	No
Simazine (ug/L)-TW	2023/01/05	< MDL 0.01	10	No	No
Terbufos (ug/L)-TW	2023/01/05	< MDL 0.01	1	No	No
Tetrachloroethylene (ug/L)-TW	2023/01/05	< MDL 0.35	10	No	No
Triallate (ug/L) -TW	2023/01/05	< MDL 0.01	230	No	No
Trichloroethylene (ug/L)-TW	2023/01/05	< MDL 0.44	5	No	No
Trifluralin (ug/L)-TW	2023/01/05	< MDL 0.02	45	No	No
Vinyl Chloride (ug/L)-TW	2023/01/05	< MDL 0.17	1	No	No
<b>DISTRIBUTION WATER</b>					
Trihalomethane: Total (ug/L) Annual Average - DW	2023/12/31	64.3	100.0	No	Yes
HAA Total (ug/L) Annual Average – DW1	2023/12/31	30.9	80.0	No	No



## SECTION 5: RAW WATER SUBMISSIONS

Raw water flows were submitted to the Ministry on [January 25, 2024](#).

The screenshot shows a web interface for submitting water taking data. At the top left is the Ontario logo. Below it, the breadcrumb navigation reads "Location: WTRS / WT DATA / Input WT Record" and the identifier "WTRS-WT-008" is on the right. A green-bordered box contains the message "Water Taking Data submitted successfully." Below this is a "Confirmation:" section with the following text: "Thank you for submitting your water taking data online. Permit Number: 7461-AK4JRX. Permit Holder: THE CORPORATION OF THE TOWN OF GORE BAY. Received on: Jan 25, 2024 2:57 PM. This confirmation indicates that your data has been received by the Ministry, but should not be construed as acceptance of this data if it differs from that specified on the Permit Number, assigned to the Permit Holder stated above." A button labeled "Return to Main Page" is centered below the text. In the bottom right corner, the page information reads: "TOWN2 GORE BAY2 | 2024/01/25 version: v4.5.0.21 (build#: 22) Last modified: 2018/09/18". At the bottom left, the Ontario logo is followed by "This site maintained by the Government of Ontario". At the bottom right, the copyright notice reads "©2024 Queen's Printer for Ontario".

## SECTION 6: CONCLUSION

The Gore Bay WTP delivers water that, in all its treated and distribution samples, indicates the water to be free of bacteriological contamination.

Based on information available for the [2023](#) operating year, the Gore Bay WTP was able to meet the demand of water use without exceeding the PTTW or the MDWL.



## List of Acronyms and Definitions

Alkalinity	The capacity of water for neutralizing an acid solution
AWQI	Adverse Water Quality Incident- when a water sample test result exceeds the Ontario Drinking Water Quality Standards
Backwash	Water pumped backwards to clean filters
BWA	Boil Water Advisory; Issued when risk of contamination is possible in drinking water
CFU	Colony Forming Units
Chlorine Residual	A low level of chlorine remaining in water after disinfection occurs
DW	Distribution Water
DWA	Drinking Water Advisory; Issued when water cannot be consumed by any means
DWWP	Drinking Water Works Permit - provides a description of the overall system
E.Coli	Bacteria used as indicators to measure the degree of pollution and sanitary quality of water
GUDI 170/03	Groundwater Under Direct Influence – Considered to be surface water under O.Reg 170/03
HPC	Heterotrophic Plant Count
L/s	Litres per Second
m <sup>3</sup> /d	Cubic Metres per Day
MAC	Maximum Acceptable Concentration
MDL	Minimum Detection Level
MDWL requirements	Municipal Drinking Water Licence - relates to the operation and performance requirements
mg/L	Miligrams per Litre
Ministry	Ministry of the Environment, Conservation and Parks
MECP	Ministry of the Environment, Conservation and Parks
NDOGN	No Data: Overgrown with Non Target Bacteria
NDOGT	No Data: Overgrown with Target Bacteria
O.Reg	Ontario Regulation
PTTW water	Permit to Take Water – Permit which allows water taking from groundwater or surface water
RW	Raw Water
TC	Total Coliforms
TSS	Total Suspended Solids
Turbidity	Cloudiness or haziness of water
TW	Treated Water



# Appendix A

## Raw Water Flows

**Ontario Clean Water Agency**  
**Annual Water Taking and Transfer Report**  
From 01/01/2023 To 12/31/2023

Facility: GORE BAY DRINKING WATER SYSTEM-1112  
Tag: Raw Flow: Sum (m3/d)  
Tag Group: Raw Water

Permit#: 7461-AK4JRX  
Source Name: Lake Huron  
Source: Lake  
Type:

Coordinate Zone: 17  
Easting: 386484  
Northing: 5086993  
Method deter: Metered

Purpose: Other - Water Supply

Date Measured	Value (m³/d)	Value (Litres)
01/01/2023	826.0000	826000.0000
02/01/2023	692.1000	692099.9756
03/01/2023	827.2000	827200.0122
04/01/2023	771.8000	771799.9878
05/01/2023	748.2000	748200.0122
06/01/2023	736.8000	736799.9878
07/01/2023	736.5000	736500.0000
08/01/2023	668.5000	668500.0000
09/01/2023	793.9000	793900.0244
10/01/2023	738.6000	738599.9756
11/01/2023	632.8000	632799.9878
12/01/2023	833.0000	833000.0000
13/01/2023	679.9000	679900.0244
14/01/2023	785.5000	785500.0000
15/01/2023	754.6000	754599.9756
16/01/2023	698.2000	698200.0122
17/01/2023	779.0000	779000.0000
18/01/2023	694.8000	694799.9878
19/01/2023	842.9000	842900.0244
20/01/2023	720.3000	720299.9878
21/01/2023	763.3000	763299.9878
22/01/2023	740.1000	740099.9756
23/01/2023	881.5000	881500.0000
24/01/2023	699.3000	699299.9878
25/01/2023	785.3000	785299.9878
26/01/2023	798.6000	798599.9756
27/01/2023	664.7000	664700.0122
28/01/2023	827.7000	827700.0122
29/01/2023	742.3000	742299.9878
30/01/2023	718.4000	718400.0244
31/01/2023	779.7000	779700.0122
01/02/2023	751.8000	751799.9878
02/02/2023	658.7000	658700.0122
03/02/2023	770.2000	770200.0122
04/02/2023	745.4000	745400.0244
05/02/2023	713.2000	713200.0122
06/02/2023	718.7000	718700.0122
07/02/2023	821.4000	821400.0244
08/02/2023	699.7000	699700.0122
09/02/2023	808.3000	808299.9878
10/02/2023	774.4000	774400.0244
11/02/2023	773.8000	773799.9878

12/02/2023	727.5000	727500.0000
13/02/2023	746.8000	746799.9878
14/02/2023	745.6000	745599.9756
15/02/2023	811.5000	811500.0000
16/02/2023	805.3000	805299.9878
17/02/2023	779.0000	779000.0000
18/02/2023	807.7000	807700.0122
19/02/2023	823.2000	823200.0122
20/02/2023	803.4000	803400.0244
21/02/2023	766.3000	766299.9878
22/02/2023	716.0000	716000.0000
23/02/2023	861.3000	861299.9878
24/02/2023	710.8000	710799.9878
25/02/2023	819.8000	819799.9878
26/02/2023	753.1000	753099.9756
27/02/2023	741.1000	741099.9756
28/02/2023	837.6000	837599.9756
01/03/2023	696.8000	696799.9878
02/03/2023	833.0000	833000.0000
03/03/2023	774.5000	774500.0000
04/03/2023	808.8000	808799.9878
05/03/2023	786.0000	786000.0000
06/03/2023	869.0000	869000.0000
07/03/2023	799.8000	799799.9878
08/03/2023	657.8000	657799.9878
09/03/2023	870.4000	870400.0244
10/03/2023	694.5000	694500.0000
11/03/2023	807.7000	807700.0122
12/03/2023	671.4000	671400.0244
13/03/2023	805.9000	805900.0244
14/03/2023	805.5000	805500.0000
15/03/2023	826.5000	826500.0000
16/03/2023	714.0000	714000.0000
17/03/2023	752.1000	752099.9756
18/03/2023	801.9000	801900.0244
19/03/2023	827.3000	827299.9878
20/03/2023	811.7000	811700.0122
21/03/2023	779.9000	779900.0244
22/03/2023	876.5000	876500.0000
23/03/2023	758.7000	758700.0122
24/03/2023	727.9000	727900.0244
25/03/2023	708.4000	708400.0244
26/03/2023	704.3000	704299.9878
27/03/2023	804.8000	804799.9878
28/03/2023	732.7000	732700.0122
29/03/2023	790.3000	790299.9878
30/03/2023	619.5000	619500.0000
31/03/2023	826.1000	826099.9756
01/04/2023	731.4000	731400.0244
02/04/2023	773.2000	773200.0122
03/04/2023	837.8000	837799.9878
04/04/2023	747.5000	747500.0000
05/04/2023	697.1000	697099.9756
06/04/2023	767.1000	767099.9756
07/04/2023	792.4000	792400.0244
08/04/2023	666.5000	666500.0000
09/04/2023	845.2000	845200.0122
10/04/2023	690.7000	690700.0122
11/04/2023	774.8000	774799.9878
12/04/2023	758.7000	758700.0122
13/04/2023	615.7000	615700.0122

14/04/2023	779.4000	779400.0244
15/04/2023	838.1000	838099.9756
16/04/2023	727.9000	727900.0244
17/04/2023	632.3000	632299.9878
18/04/2023	942.1000	942099.9756
19/04/2023	670.5000	670500.0000
20/04/2023	813.5000	813500.0000
21/04/2023	607.9000	607900.0244
22/04/2023	836.8000	836799.9878
23/04/2023	649.9000	649900.0244
24/04/2023	772.3000	772299.9878
25/04/2023	810.0000	810000.0000
26/04/2023	824.8000	824799.9878
27/04/2023	700.9000	700900.0244
28/04/2023	847.3000	847299.9878
29/04/2023	650.1000	650099.9756
30/04/2023	842.4000	842400.0244
01/05/2023	686.8000	686799.9878
02/05/2023	825.9000	825900.0244
03/05/2023	739.5000	739500.0000
04/05/2023	732.6000	732599.9756
05/05/2023	711.5000	711500.0000
06/05/2023	722.6000	722599.9756
07/05/2023	733.5000	733500.0000
08/05/2023	655.0000	655000.0000
09/05/2023	853.4000	853400.0244
10/05/2023	768.3000	768299.9878
11/05/2023	805.6000	805599.9756
12/05/2023	780.5000	780500.0000
13/05/2023	756.0000	756000.0000
14/05/2023	733.4000	733400.0244
15/05/2023	767.2000	767200.0122
16/05/2023	809.1000	809099.9756
17/05/2023	783.4000	783400.0244
18/05/2023	788.4000	788400.0244
19/05/2023	757.1000	757099.9756
20/05/2023	755.8000	755799.9878
21/05/2023	807.9000	807900.0244
22/05/2023	863.4000	863400.0244
23/05/2023	844.4000	844400.0244
24/05/2023	812.3000	812299.9878
25/05/2023	844.0000	844000.0000
26/05/2023	821.0000	821000.0000
27/05/2023	933.9000	933900.0244
28/05/2023	997.7000	997700.0122
29/05/2023	526.0000	526000.0000
30/05/2023	1442.3000	1442300.0488
31/05/2023	988.6000	988599.9756
01/06/2023	1134.4000	1134400.0244
02/06/2023	1058.8000	1058800.0488
03/06/2023	940.8000	940799.9878
04/06/2023	1207.4000	1207400.0244
05/06/2023	1189.7160	1189716.0000
06/06/2023	1060.3000	1060300.0488
07/06/2023	1033.2000	1033199.9512
08/06/2023	1081.8000	1081800.0488
09/06/2023	1155.0000	1155000.0000
10/06/2023	1097.2000	1097199.9512
11/06/2023	902.0000	902000.0000
12/06/2023	822.7000	822700.0122
13/06/2023	846.1000	846099.9756

14/06/2023	535.0000	535000.0000
15/06/2023	1204.2000	1204199.9512
16/06/2023	881.0000	881000.0000
17/06/2023	960.4000	960400.0244
18/06/2023	996.8000	996799.9878
19/06/2023	976.0000	976000.0000
20/06/2023	1031.6000	1031599.9756
21/06/2023	1141.9000	1141900.0244
22/06/2023	1073.7000	1073699.9512
23/06/2023	1097.1000	1097099.9756
24/06/2023	1062.6000	1062599.9756
25/06/2023	1019.1000	1019099.9756
26/06/2023	810.5000	810500.0000
27/06/2023	846.6000	846599.9756
28/06/2023	905.5000	905500.0000
29/06/2023	887.2000	887200.0122
30/06/2023	945.1000	945099.9756
01/07/2023	1092.3000	1092300.0488
02/07/2023	1042.1000	1042099.9756
03/07/2023	1207.9170	1207917.0000
04/07/2023	1042.2000	1042199.9512
05/07/2023	922.5000	922500.0000
06/07/2023	886.6000	886599.9756
07/07/2023	980.4000	980400.0244
08/07/2023	980.8000	980799.9878
09/07/2023	980.7000	980700.0122
10/07/2023	958.4000	958400.0244
11/07/2023	792.8000	792799.9878
12/07/2023	1229.3000	1229300.0488
13/07/2023	1037.8000	1037800.0488
14/07/2023	1013.2000	1013200.0122
15/07/2023	1015.4000	1015400.0244
16/07/2023	963.9000	963900.0244
17/07/2023	1092.5000	1092500.0000
18/07/2023	927.0000	927000.0000
19/07/2023	976.9000	976900.0244
20/07/2023	798.6000	798599.9756
21/07/2023	1049.5000	1049500.0000
22/07/2023	983.5000	983500.0000
23/07/2023	969.8000	969799.9878
24/07/2023	1001.7000	1001700.0122
25/07/2023	954.8000	954799.9878
26/07/2023	1014.6000	1014599.9756
27/07/2023	906.2000	906200.0122
28/07/2023	1117.7000	1117699.9512
29/07/2023	985.6000	985599.9756
30/07/2023	1000.8000	1000799.9878
31/07/2023	1028.7000	1028699.9512
01/08/2023	1029.8000	1029800.0488
02/08/2023	1028.2000	1028199.9512
03/08/2023	1077.3000	1077300.0488
04/08/2023	1018.3000	1018299.9878
05/08/2023	876.0000	876000.0000
06/08/2023	992.3000	992299.9878
07/08/2023	550.2000	550200.0122
08/08/2023	1347.1000	1347099.9756
09/08/2023	1110.4000	1110400.0244
10/08/2023	845.2000	845200.0122
11/08/2023	862.8000	862799.9878
12/08/2023	901.6000	901599.9756
13/08/2023	888.9000	888900.0244

14/08/2023	925.5000	925500.0000
15/08/2023	1096.9000	1096900.0244
16/08/2023	1007.7000	1007700.0122
17/08/2023	899.8000	899799.9878
18/08/2023	830.2000	830200.0122
19/08/2023	886.1000	886099.9756
20/08/2023	944.9000	944900.0244
21/08/2023	898.1000	898099.9756
22/08/2023	877.8000	877799.9878
23/08/2023	834.7000	834700.0122
24/08/2023	787.4000	787400.0244
25/08/2023	909.0000	909000.0000
26/08/2023	858.7000	858700.0122
27/08/2023	857.9000	857900.0244
28/08/2023	880.6000	880599.9756
29/08/2023	818.2000	818200.0122
30/08/2023	898.5000	898500.0000
31/08/2023	886.9000	886900.0244
01/09/2023	824.8000	824799.9878
02/09/2023	852.4000	852400.0244
03/09/2023	915.1000	915099.9756
04/09/2023	874.9000	874900.0244
05/09/2023	907.6000	907599.9756
06/09/2023	941.6000	941599.9756
07/09/2023	808.6000	808599.9756
08/09/2023	810.3000	810299.9878
09/09/2023	833.4000	833400.0244
10/09/2023	838.7000	838700.0122
11/09/2023	788.5000	788500.0000
12/09/2023	889.5000	889500.0000
13/09/2023	790.5000	790500.0000
14/09/2023	803.3000	803299.9878
15/09/2023	843.5000	843500.0000
16/09/2023	768.8000	768799.9878
17/09/2023	839.7000	839700.0122
18/09/2023	901.8000	901799.9878
19/09/2023	860.2000	860200.0122
20/09/2023	878.7000	878700.0122
21/09/2023	847.8000	847799.9878
22/09/2023	881.0000	881000.0000
23/09/2023	888.1000	888099.9756
24/09/2023	895.6000	895599.9756
25/09/2023	858.6000	858599.9756
26/09/2023	861.1000	861099.9756
27/09/2023	758.9000	758900.0244
28/09/2023	819.6000	819599.9756
29/09/2023	858.6000	858599.9756
30/09/2023	913.3000	913299.9878
01/10/2023	857.4000	857400.0244
02/10/2023	876.8000	876799.9878
03/10/2023	865.1000	865099.9756
04/10/2023	848.1000	848099.9756
05/10/2023	833.0000	833000.0000
06/10/2023	819.3000	819299.9878
07/10/2023	822.6000	822599.9756
08/10/2023	784.4000	784400.0244
09/10/2023	721.2000	721200.0122
10/10/2023	880.4000	880400.0244
11/10/2023	867.5000	867500.0000
12/10/2023	840.6000	840599.9756
13/10/2023	863.4000	863400.0244

14/10/2023	853.1000	853099.9756
15/10/2023	825.0000	825000.0000
16/10/2023	860.5000	860500.0000
17/10/2023	786.1000	786099.9756
18/10/2023	802.1000	802099.9756
19/10/2023	820.1000	820099.9756
20/10/2023	823.7000	823700.0122
21/10/2023	836.6000	836599.9756
22/10/2023	714.1000	714099.9756
23/10/2023	864.4000	864400.0244
24/10/2023	765.6000	765599.9756
25/10/2023	775.6000	775599.9756
26/10/2023	886.7000	886700.0122
27/10/2023	809.7000	809700.0122
28/10/2023	823.8000	823799.9878
29/10/2023	839.8000	839799.9878
30/10/2023	847.0000	847000.0000
31/10/2023	842.0000	842000.0000
01/11/2023	857.1000	857099.9756
02/11/2023	770.1000	770099.9756
03/11/2023	779.5000	779500.0000
04/11/2023	842.0000	842000.0000
05/11/2023	853.7000	853700.0122
06/11/2023	871.8000	871799.9878
07/11/2023	848.9000	848900.0244
08/11/2023	745.8000	745799.9878
09/11/2023	777.1000	777099.9756
10/11/2023	849.1000	849099.9756
11/11/2023	837.9000	837900.0244
12/11/2023	797.4000	797400.0244
13/11/2023	809.4000	809400.0244
14/11/2023	813.0000	813000.0000
15/11/2023	912.7000	912700.0122
16/11/2023	920.8000	920799.9878
17/11/2023	794.4000	794400.0244
18/11/2023	859.7000	859700.0122
19/11/2023	956.7000	956700.0122
20/11/2023	724.7000	724700.0122
21/11/2023	881.5000	881500.0000
22/11/2023	743.9000	743900.0244
23/11/2023	869.0000	869000.0000
24/11/2023	742.3000	742299.9878
25/11/2023	884.4000	884400.0244
26/11/2023	725.7000	725700.0122
27/11/2023	889.1000	889099.9756
28/11/2023	762.1000	762099.9756
29/11/2023	861.3000	861299.9878
30/11/2023	850.4000	850400.0244
01/12/2023	824.4000	824400.0244
02/12/2023	894.5000	894500.0000
03/12/2023	755.9000	755900.0244
04/12/2023	918.0000	918000.0000
05/12/2023	735.2000	735200.0122
06/12/2023	907.7000	907700.0122
07/12/2023	735.8000	735799.9878
08/12/2023	906.6000	906599.9756
09/12/2023	767.6000	767599.9756
10/12/2023	922.3000	922299.9878
11/12/2023	739.5000	739500.0000
12/12/2023	881.0000	881000.0000
13/12/2023	811.0000	811000.0000

14/12/2023	801.6000	801599.9756
15/12/2023	919.4000	919400.0244
16/12/2023	801.1000	801099.9756
17/12/2023	918.8000	918799.9878
18/12/2023	919.8000	919799.9878
19/12/2023	884.3000	884299.9878
20/12/2023	780.5000	780500.0000
21/12/2023	839.9000	839900.0244
22/12/2023	814.7000	814700.0122
23/12/2023	821.9000	821900.0244
24/12/2023	912.8000	912799.9878
25/12/2023	804.2000	804200.0122
26/12/2023	807.9000	807900.0244
27/12/2023	935.6000	935599.9756
28/12/2023	875.4000	875400.0244
29/12/2023	849.2000	849200.0122
30/12/2023	796.1000	796099.9756
31/12/2023	788.7000	788700.0122