

Echo Bay Water Treatment

Large Municipal Residential Drinking Water System

January 1, 2021 – December 31, 2021

Reg 170/03 Schedule 22 Summary Report

Reg 170/03 Section 11 Annual Report

&

Reg 387/04 Annual Record of Water Taking

Prepared by the Ontario Clean Water Agency
For The Corporation of the Township of Macdonald, Meredith and Aberdeen Additional





Drinking-Water System Number: 220009121
Drinking-Water System Name: Echo Bay Drinking Water System
Drinking-Water System Owner: The Corp. of the Township of Macdonald, Meredith and Aberdeen Additional
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, [2022](#).

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. It 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 Echo Bay WTP shall not be operated to exceed a maximum flow of 1,416 m³/d to the distribution system.

The daily treated water maximum flow was 337.9 m³ in June and represents 24% of capacity. In 2021, the total volume of water sent to the distribution system was 51,687 m³

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

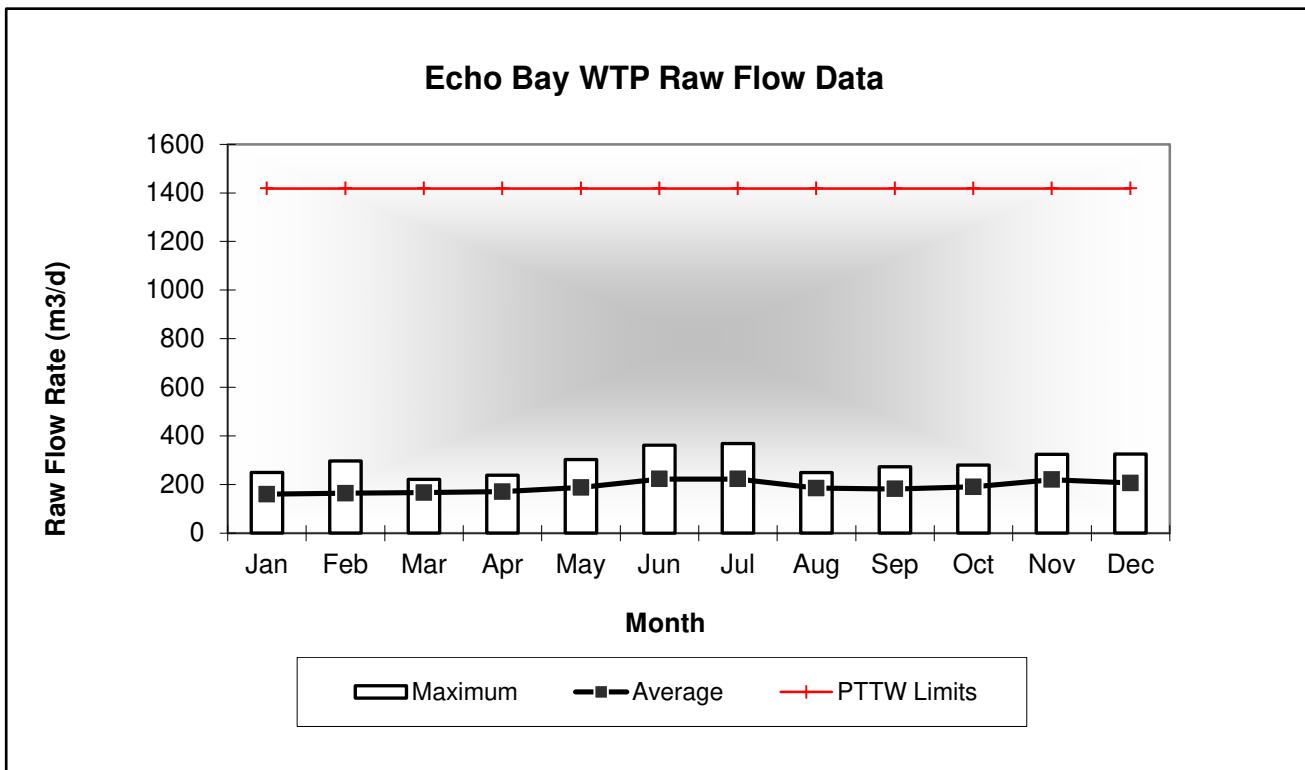
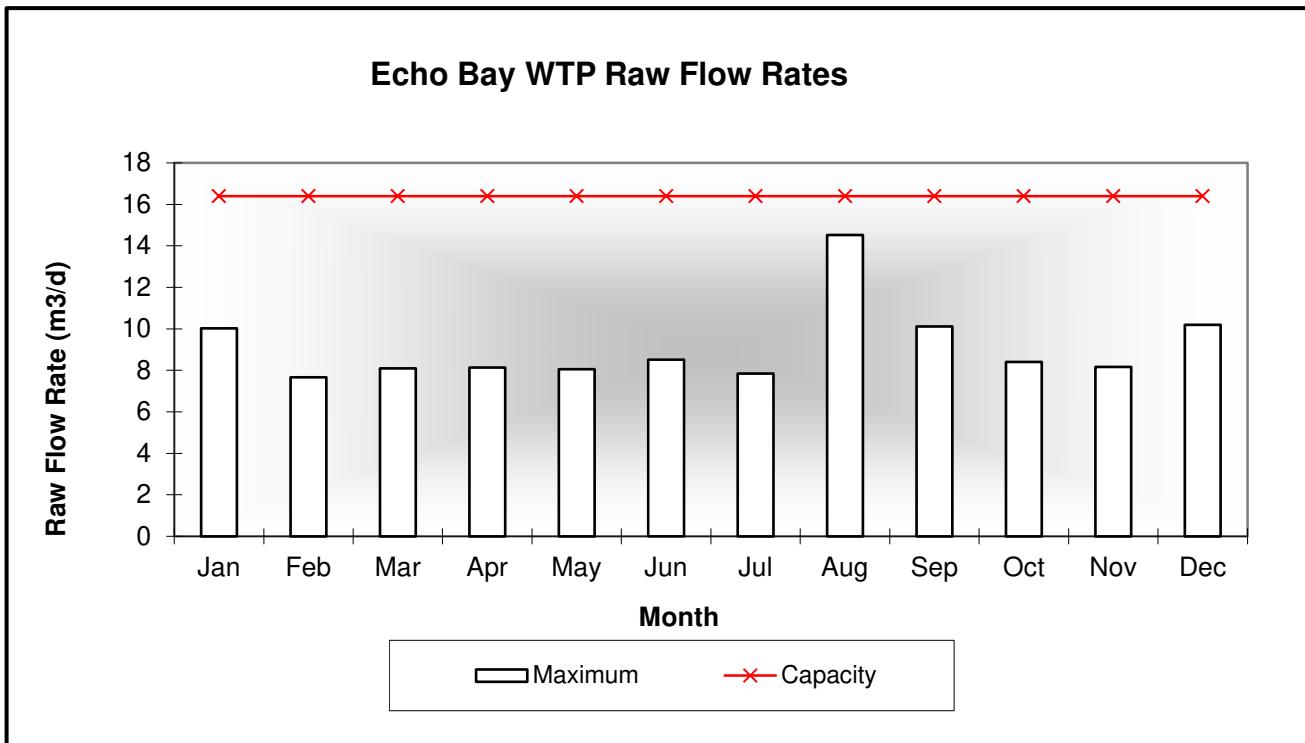
Flows - Raw

Daily raw maximum instantaneous flow is stated in the PTTW at a maximum rate of flow of 16.4 L/s and a maximum daily volume of 1,418 m³/d.

The average monthly raw water flow for this reporting period was 189.8 m³/d. The maximum daily flow was 368.3 m³/d representing 26% of water taking limits. In 2021, the total volume of water taken from the environment was 69,227.6m³

The quantity of raw water taken did not exceed any limits stipulated within the PTTW.

RAW WATER FLOW DATA - TOTAL ALL SOURCES						
Month	Total Monthly Flow (m ³)	Average Flow (m ³ /d)	Maximum Flow (m ³ /d)	Maximum Flow Rate (L/s)	Limits	
					L/s (PTTW)	m ³ /d (PTTW)
January	4,968.5	160.27	249.3	10.03	16.4	1,418
February	4,588.8	163.89	296.6	7.67	16.4	1,418
March	5,162.9	166.55	220.9	8.1	16.4	1,418
April	5,119	170.63	238	8.14	16.4	1,418
May	5,816.4	187.63	302.4	8.06	16.4	1,418
June	6,671.3	222.38	362.4	8.52	16.4	1,418
July	6,891.5	222.31	368.3	7.85	16.4	1,418
August	5,732.3	184.91	248.9	14.53	16.4	1,418
September	5,457.3	181.91	272.7	10.12	16.4	1,418
October	5,894.7	190.15	279.7	8.41	16.4	1,418
November	6,593.3	219.78	323.9	8.17	16.4	1,418
December	6,381.6	205.86	325.1	10.2	16.4	1,418
Total	69,277.6					
Average		189.8				
Maximum			368.3	14.53	16.4	1,418





Annual Raw Water Review

Raw Water Taking	Total Taking m ³ /d	Average Day m ³ /d	Max Day m ³ /d	Max Day % of PTIW allowable 1,418 m ³ /d
2021	69,277.6	189.8	368.3	26%
2020	66,228.1	180.95	474.9	33.5%
2019	63,695.2	174.51	370	26.1%
2018	62,687.6	171.75	394.4	27.8%
2017	53,873.1	147.7	344	24.2%

System Failures and Corrective Actions

The latest inspection of the drinking water facility took place on [January 26, 2022](#); the MECP inspector is currently in the process of completing the inspection and associated report.

AWQIs reported to the Ministry					
Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
N/A	N/A	N/A	N/A	N/A	N/A

SECTION 4: SECTION 11 REPORT

Information to be provided

Population Served	530
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?	Yes
Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.	Township of Macdonald, Meredith and Aberdeen Additional, Municipal Office 208 Church St Echo Bay, Ontario PO5 1C0
Number of Designated Facilities served:	0
Did you provide a copy of your annual report to all Designated Facilities you serve?	NA
Number of Interested Authorities you report to:	0
Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility?	NA
List all Drinking-Water Systems (if any), and their DWS Number which receive all of their drinking water from your system:	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?	NA
Indicate how you notified system users that your annual report is available, and is free of charge.	Public access/notice via the web
Indicate if you notified system users that your annual report is available and is free of charge using an alternate method	YES

Facility Description

Raw water drawn from Lake George is processed into potable water by the package water treatment plant through coagulation, flocculation, sedimentation, and filtration. Alum is used to assist the clarification process, chlorination is used for disinfection purposes, and Sodium Hydroxide (Caustic) is used for pH adjustment. The granular activated carbon filters are used primarily as a safeguard against the presence of organics in the supply water, as well as to prevent possible taste and odor problems. The rated capacity of the system is 1,416m³. Water is directed into two clearwells with a total storage volume of 630m³ and four high lift pumps supply water to the Town and the elevated storage tank. A surge tank serves as backwash water storage from the dual media filters and GAC filters. Two submersible pumps convey wastewater from the surge tank to the wastewater clarifier in the attached sewage treatment plant. Stand-by power is available from a 180kW diesel generator.

Chemicals Used

Aluminum Sulphate	Coagulation
MagnaFloc LT 20 (Polymer)	Coagulation aide
Sodium Hypochlorite 12%	Disinfection
Sodium Hydroxide	Sodium Hydroxide

Significant Expenses

Significant expenses incurred to

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

Work Order	Completion Date	Comment
2222831	01-Nov-21	Installed new backwash pump – \$7,615
2091002	31-May-21	ESA recommended repairs – \$3000
		Chlorine probes, refurbishing and maintenance kits – \$2,200
		Chemical systems parts – \$2,000
2093742	01-Apr-21	New diesel fuel tank – \$7,615

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	Corrective Action Date
N/A	N/A	N/A	N/A	N/A	N/A



Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03.

	No. of Samples	Range of E.Coli		Range of Total Coliform Results		Number of HPC Samples	Range of HPC Results	
	Collected	Min #	Max #	Min #	Max #		Min #	Max #
Raw Water	52	0	6	0	115	0		
Treated Water	52	0	0	0	0	52	0	1
Distribution	105	0	0	0	0	52	0	3

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

	No. of Samples	Range of Results	
		Collected	Minimum
Turbidity, On-Line (NTU) - Filt1	8760	0.012	4.95
Turbidity, On-Line (NTU) - Filt2	8760	0.011	0.349
Free Chlorine Residual, Treated (mg/L)	8760	0.268	3
Free Chlorine Residual, Distribution Location 1	104	0.91	1.57
Free Chlorine Residual, Distribution Location 2	104	0.94	1.79
Free Chlorine Residual, Distribution Location 3	103	1.02	1.74
Free Chlorine Residual, Distribution Location 4	52	0.90	1.71

Summary of additional testing and sampling carried out in accordance with the requirement of an approval, order or other legal instrument. (Use monitoring BW TSS sheet to Paste and Copy)

Date of legal instrument issued	Parameter and limits	Month Sampled	Day Sampled	Result	Unit of Measure
N/A	N/A	N/A	N/A	N/A	N/A
Annual Average				mg/L	

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

	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
TREATED WATER				MAC	1/2 MAC
Antimony: Sb (ug/L) - TW	2021/01/27	<MDL 0.9	6.0	No	No
Arsenic: As (ug/L) - TW	2021/01/27	<MDL 0.2	10.0	No	No
Barium: Ba (ug/L) - TW	2021/01/27	8.44	1000.0	No	No
Boron: B (ug/L) - TW	2021/01/27	13.0	5000.0	No	No
Cadmium: Cd (ug/L) - TW	2021/01/27	0.005	5.0	No	No
Chromium: Cr (ug/L) - TW	2021/01/27	0.32	50.0	No	No
Mercury: Hg (ug/L) - TW	2021/01/27	<MDL 0.01	1.0	No	No
Selenium: Se (ug/L) - TW	2021/01/27	0.08	50.0	No	No
Uranium: U (ug/L) - TW	2021/01/27	0.002	20.0	No	No



	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
TREATED WATER				MAC	1/2 MAC
Fluoride (mg/L) - TW	2021/01/27	<MDL 0.06	1.5	No	No
Nitrite (mg/L) - TW	2021/01/27	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2021/04/22	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2021/07/26	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2021/10/28	<MDL 0.003	1.0	No	No
Nitrate (mg/L) - TW	2021/01/27	0.392	10.0	No	No
Nitrate (mg/L) - TW	2021/04/22	0.382	10.0	No	No
Nitrate (mg/L) - TW	2021/07/26	0.376	10.0	No	No
Nitrate (mg/L) - TW	2021/10/28	0.33	10.0	No	No
Sodium: Na (mg/L) - TW	2021/01/27	5.42	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	Number of Exceedances
		Minimum	Maximum		
Distribution - Lead Results (ug/L)	2	0.16	0.20	10	0
Distribution - Alkalinity (mg/L)	2	34	36	n/a	n/a
Distribution - pH In-House	2	7.08	7.11	n/a	n/a

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

	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Number of Exceedances	
TREATED WATER				MAC	1/2 MAC
Alachlor (ug/L) - TW	2021/01/27	<MDL 0.02	5.0	No	No
Atrazine + N-dealkylated metabolites (ug/L) - TW	2021/01/27	<MDL 0.01	5.0	No	No
Azinphos-methyl (ug/L) - TW	2021/01/27	<MDL 0.05	20.0	No	No
Benzene (ug/L) - TW	2021/01/27	<MDL 0.32	1.0	No	No
Benzo(a)pyrene (ug/L) - TW	2021/01/27	<MDL 0.004	0.01	No	No
Bromoxynil (ug/L) - TW	2021/01/27	<MDL 0.33	5.0	No	No
Carbaryl (ug/L) - TW	2021/01/27	<MDL 0.05	90.0	No	No
Carbofuran (ug/L) - TW	2021/01/27	<MDL 0.01	90.0	No	No
Carbon Tetrachloride (ug/L) - TW	2021/01/27	<MDL 0.17	2.0	No	No
Chlorpyrifos (ug/L) - TW	2021/01/27	<MDL 0.02	90.0	No	No
Diazinon (ug/L) - TW	2021/01/27	<MDL 0.02	20.0	No	No
Dicamba (ug/L) - TW	2021/01/27	<MDL 0.2	120.0	No	No
1,2-Dichlorobenzene (ug/L) - TW	2021/01/27	<MDL 0.41	200.0	No	No



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1,4-Dichlorobenzene (ug/L) - TW	2021/01/27	<MDL 0.36	5.0	No	No
1,2-Dichloroethane (ug/L) - TW	2021/01/27	<MDL 0.35	5.0	No	No
1,1-Dichloroethylene (ug/L) - TW	2021/01/27	<MDL 0.33	14.0	No	No
Dichloromethane (Methylene Chloride) (ug/L) - TW	2021/01/27	<MDL 0.35	50.0	No	No
2,4-Dichlorophenol (ug/L) - TW	2021/01/27	<MDL 0.15	900.0	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW	2021/01/27	<MDL 0.19	100.0	No	No
Diclofop-methyl (ug/L) - TW	2021/01/27	<MDL 0.4	9.0	No	No
Dimethoate (ug/L) - TW	2021/01/27	<MDL 0.06	20.0	No	No
Diquat (ug/L) - TW	2021/01/27	<MDL 1.0	70.0	No	No
Diuron (ug/L) - TW	2021/01/27	<MDL 0.03	150.0	No	No
Glyphosate (ug/L) - TW	2021/01/27	<MDL 1.0	280.0	No	No
Malathion (ug/L) - TW	2021/01/27	<MDL 0.02	190.0	No	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (mg/L) - TW	2021/01/27	<MDL 0.01	50.0	No	No
Metolachlor (ug/L) - TW	2021/01/27	<MDL 0.02	80.0	No	No
Metribuzin (ug/L) - TW	2021/01/27	<MDL 0.3	80.0	No	No
Monochlorobenzene (Chlorobenzene) (ug/L) - TW	2021/01/27	<MDL 1.0	10.0	No	No
Paraquat (ug/L) - TW	2021/01/27	<MDL 0.04	3.0	No	No
PCB (ug/L) - TW	2021/01/27	<MDL 0.15	60.0	No	No
Pentachlorophenol (ug/L) - TW	2021/01/27	<MDL 0.01	2.0	No	No
Phorate (ug/L) - TW	2021/01/27	<MDL 1.0	190.0	No	No
Picloram (ug/L) - TW	2021/01/27	<MDL 0.03	1.0	No	No
Prometryne (ug/L) - TW	2021/01/27	<MDL 0.01	10.0	No	No
Simazine (ug/L) - TW	2021/01/27	<MDL 0.01	1.0	No	No
Terbufos (ug/L) - TW	2021/01/27	<MDL 0.35	10.0	No	No
Tetrachloroethylene (ug/L) - TW	2021/01/27	<MDL 0.2	100.0	No	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW	2021/01/27	<MDL 0.01	230.0	No	No
Triallate (ug/L) - TW	2021/01/27	<MDL 0.44	5.0	No	No
Trichloroethylene (ug/L) - TW	2021/01/27	<MDL 0.25	5.0	No	No
2,4,6-Trichlorophenol (ug/L) - TW	2021/01/27	<MDL 0.12	100.0	No	No
Trifluralin (ug/L) - TW	2021/01/27	<MDL 0.02	45.0	No	No
Vinyl Chloride (ug/L) - TW	2021/01/27	<MDL 0.17	1.0	No	No
DISTRIBUTION WATER					
Trihalomethane: Total (ug/L) Annual Average - DW	2021/12/31	19.75	100.00	No	No
HAA Total (ug/L) Annual Average – DW	2021/12/31	14.2	80.0	No	No



SECTION 5: RAW WATER SUBMISSIONS

Raw water flows were submitted to the MOECC on [January 28, 2022](#).

The screenshot shows a web page with the following elements:

- Header:** Ontario Ministry of the Environment, Conservation and Parks.
- Navigation Bar:** WT DATA | REPORTS | SEARCH WT DATA | ADMINISTRATION | USER PROFILE | CONTACT US | HELP | HOME | LOGOUT | Location: WTRS / WT DATA / Input WT Record | WTRS-WT-008
- Message Box:** Water Taking Data submitted successfully.
- Confirmation Section:**
 - Thank you for submitting your water taking data online.
 - Permit Number: 0256-A4JQAR
 - Permit Holder: THE CORPORATION OF THE TOWNSHIP OF MACDONALD, MEREDITH AND ABERDEEN ADDITIONAL.
 - Received on: Jan 28, 2022 9:27 AM
- Note:** 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.

SECTION 6: CONCLUSION

The Echo 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 [2021](#) operating year, the Echo 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	Groundwater Under Direct Influence – Considered to be surface water under O.Reg 170/03
HPC	Heterotrophic Plant Count
L/s	Litres per Second
m3/d	Cubic Metres per Day
MAC	Maximum Acceptable Concentration
MDL	Minimum Detection Level
MDWL	Municipal Drinking Water Licence - relates to the operation and performance requirements
mg/L	Miligrams per Litre
Ministry	Ministry of the Environment and Climate Change
MOECC	Ministry of the Environment and Climate Change
O.Reg	Ontario Regulation
PTTW	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 01/01/2021 To 12/31/2021

Facility: ECHO BAY DRINKING WATER SYSTEM-5057
Tag: Raw Flow: Sum (m³/d)
Tag Group: RW

Permit#: 0256-A4JQAR
Source Name: Lake George (St. Mary's River)
Source: Lake
Type:
Purpose: Municipal

Coordinate Zone: 16
Easting: 722981
Northing: 5152672
Method deter: Metered

Date Measured	Value (m ³ /d)	Value (Litres)
01/01/2021	169.9000	169899.9939
02/01/2021	223.2000	223199.9969
03/01/2021	164.7000	164699.9969
04/01/2021	101.2000	101199.9969
05/01/2021	168.4000	168399.9939
06/01/2021	172.8000	172800.0031
07/01/2021	138.9000	138899.9939
08/01/2021	149.9000	149899.9939
09/01/2021	227.3000	227300.0031
10/01/2021	103.7000	103699.9969
11/01/2021	133.8000	133800.0031
12/01/2021	180.8000	180800.0031
13/01/2021	183.2000	183199.9969
14/01/2021	138.7000	138699.9969
15/01/2021	127.0000	127000.0000
16/01/2021	243.6000	243600.0061
17/01/2021	153.4000	153399.9939
18/01/2021	135.8000	135800.0031
19/01/2021	159.2000	159199.9969
20/01/2021	177.8000	177800.0031
21/01/2021	92.9000	92900.0015
22/01/2021	146.3000	146300.0031
23/01/2021	249.3000	249300.0031
24/01/2021	151.6000	151600.0061
25/01/2021	97.8000	97800.0031
26/01/2021	150.0000	150000.0000
27/01/2021	201.1000	201100.0061
28/01/2021	176.2000	176199.9969
29/01/2021	135.8000	135800.0031
30/01/2021	171.4000	171399.9939
31/01/2021	142.8000	142800.0031
01/02/2021	224.8000	224800.0031
02/02/2021	115.4000	115400.0015
03/02/2021	160.1000	160100.0061
04/02/2021	146.1000	146100.0061
05/02/2021	168.6000	168600.0061
06/02/2021	145.7000	145699.9969
07/02/2021	165.7000	165699.9969
08/02/2021	138.0000	138000.0000
09/02/2021	183.6000	183600.0061
10/02/2021	162.2000	162199.9969
11/02/2021	296.6000	296600.0061

12/02/2021	164.8000	164800.0031
13/02/2021	175.3000	175300.0031
14/02/2021	142.3000	142300.0031
15/02/2021	169.8000	169800.0031
16/02/2021	173.3000	173300.0031
17/02/2021	144.3000	144300.0031
18/02/2021	95.6000	95599.9985
19/02/2021	171.8000	171800.0031
20/02/2021	189.3000	189300.0031
21/02/2021	145.8000	145800.0031
22/02/2021	177.1000	177100.0061
23/02/2021	137.0000	137000.0000
24/02/2021	151.4000	151399.9939
25/02/2021	139.9000	139899.9939
26/02/2021	181.0000	181000.0000
27/02/2021	143.6000	143600.0061
28/02/2021	179.7000	179699.9969
01/03/2021	173.1000	173100.0061
02/03/2021	139.5000	139500.0000
03/03/2021	176.5000	176500.0000
04/03/2021	113.8000	113800.0031
05/03/2021	175.8000	175800.0031
06/03/2021	191.6000	191600.0061
07/03/2021	199.8000	199800.0031
08/03/2021	161.6000	161600.0061
09/03/2021	168.6000	168600.0061
10/03/2021	185.1000	185100.0061
11/03/2021	137.7000	137699.9969
12/03/2021	150.7000	150699.9969
13/03/2021	184.5000	184500.0000
14/03/2021	171.4000	171399.9939
15/03/2021	175.8000	175800.0000
16/03/2021	150.9000	150899.9939
17/03/2021	183.2000	183199.9969
18/03/2021	139.3000	139300.0031
19/03/2021	157.3000	157300.0031
20/03/2021	155.0000	155000.0000
21/03/2021	197.8000	197800.0031
22/03/2021	155.8000	155800.0031
23/03/2021	136.8000	136800.0031
24/03/2021	179.9000	179899.9939
25/03/2021	142.9000	142899.9939
26/03/2021	193.9000	193899.9939
27/03/2021	193.0000	193000.0000
28/03/2021	220.9000	220899.9939
29/03/2021	153.2000	153199.9969
30/03/2021	186.9000	186899.9939
31/03/2021	110.6000	110599.9985
01/04/2021	220.9000	220899.9939
02/04/2021	192.1000	192100.0061
03/04/2021	195.6000	195600.0061
04/04/2021	96.2000	96199.9969
05/04/2021	189.3000	189300.0031
06/04/2021	94.1000	94099.9985
07/04/2021	181.9000	181899.9939
08/04/2021	185.9000	185899.9939
09/04/2021	171.7000	171699.9969
10/04/2021	219.4000	219399.9939
11/04/2021	203.4000	203399.9939
12/04/2021	143.7000	143699.9969
13/04/2021	201.9000	201899.9939

14/04/2021	213.0000	213000.0000
15/04/2021	141.5000	141500.0000
16/04/2021	199.4000	199399.9939
17/04/2021	235.0000	235000.0000
18/04/2021	151.4000	151399.9939
19/04/2021	140.6000	140600.0061
20/04/2021	142.8000	142800.0031
21/04/2021	179.2000	179199.9969
22/04/2021	111.2000	111199.9969
23/04/2021	238.0000	238000.0000
24/04/2021	173.7000	173699.9969
25/04/2021	142.2000	142199.9969
26/04/2021	150.7000	150699.9969
27/04/2021	146.5000	146500.0000
28/04/2021	148.8000	148800.0031
29/04/2021	128.1000	128100.0061
30/04/2021	180.8000	180800.0031
01/05/2021	151.1000	151100.0061
02/05/2021	164.9000	164899.9939
03/05/2021	143.9000	143899.9939
04/05/2021	136.4000	136399.9939
05/05/2021	194.2000	194199.9969
06/05/2021	150.3000	150300.0031
07/05/2021	180.1000	180100.0061
08/05/2021	149.0000	149000.0000
09/05/2021	173.7000	173699.9969
10/05/2021	134.5000	134500.0000
11/05/2021	213.1000	213100.0061
12/05/2021	145.8000	145800.0031
13/05/2021	195.6000	195600.0061
14/05/2021	191.4000	191399.9939
15/05/2021	158.4000	158399.9939
16/05/2021	302.4000	302399.9939
17/05/2021	109.3000	109300.0031
18/05/2021	232.4000	232399.9939
19/05/2021	205.5000	205500.0000
20/05/2021	207.5000	207500.0000
21/05/2021	239.7000	239699.9969
22/05/2021	191.5000	191500.0000
23/05/2021	191.2000	191199.9969
24/05/2021	160.1000	160100.0061
25/05/2021	217.9000	217899.9939
26/05/2021	225.4000	225399.9939
27/05/2021	157.7000	157699.9969
28/05/2021	237.4000	237399.9939
29/05/2021	198.9000	198899.9939
30/05/2021	161.3000	161300.0031
31/05/2021	295.8000	295799.9878
01/06/2021	216.0000	216000.0000
02/06/2021	309.3000	309299.9878
03/06/2021	294.9000	294899.9939
04/06/2021	344.8000	344799.9878
05/06/2021	186.5000	186500.0000
06/06/2021	274.6000	274600.0061
07/06/2021	358.9000	358899.9939
08/06/2021	283.7000	283700.0122
09/06/2021	151.4000	151399.9939
10/06/2021	177.5000	177500.0000
11/06/2021	147.9000	147899.9939
12/06/2021	191.2000	191199.9969
13/06/2021	169.7000	169699.9969

14/06/2021	362.4000	362399.9939
15/06/2021	229.5000	229500.0000
16/06/2021	146.8000	146800.0031
17/06/2021	336.8000	336799.9878
18/06/2021	184.4000	184399.9939
19/06/2021	273.2000	273200.0122
20/06/2021	180.0000	180000.0000
21/06/2021	141.0000	141000.0000
22/06/2021	140.0000	140000.0000
23/06/2021	251.0000	251000.0000
24/06/2021	174.0000	174000.0000
25/06/2021	187.0000	187000.0000
26/06/2021	192.0000	192000.0000
27/06/2021	164.0000	164000.0000
28/06/2021	163.5000	163500.0000
29/06/2021	251.2000	251199.9969
30/06/2021	188.1000	188100.0061
01/07/2021	368.3000	368299.9878
02/07/2021	168.9000	168899.9939
03/07/2021	247.1000	247100.0061
04/07/2021	254.4000	254399.9939
05/07/2021	166.3000	166300.0031
06/07/2021	194.0000	194000.0000
07/07/2021	205.0000	205000.0000
08/07/2021	291.3000	291299.9878
09/07/2021	186.3000	186300.0031
10/07/2021	280.5000	280500.0000
11/07/2021	294.8000	294799.9878
12/07/2021	271.6000	271600.0061
13/07/2021	183.0000	183000.0000
14/07/2021	235.0000	235000.0000
15/07/2021	191.7000	191699.9969
16/07/2021	214.3000	214300.0031
17/07/2021	291.0000	291000.0000
18/07/2021	286.8000	286799.9878
19/07/2021	162.0000	162000.0000
20/07/2021	202.0000	202000.0000
21/07/2021	173.5000	173500.0000
22/07/2021	262.7000	262700.0122
23/07/2021	172.6000	172600.0061
24/07/2021	193.6000	193600.0061
25/07/2021	216.5000	216500.0000
26/07/2021	194.0000	194000.0000
27/07/2021	187.3000	187300.0031
28/07/2021	176.9000	176899.9939
29/07/2021	193.6000	193600.0061
30/07/2021	250.5000	250500.0000
31/07/2021	176.0000	176000.0000
01/08/2021	146.8000	146800.0031
02/08/2021	179.3000	179300.0031
03/08/2021	177.3000	177300.0031
04/08/2021	124.6000	124599.9985
05/08/2021	142.1000	142100.0061
06/08/2021	240.8000	240800.0031
07/08/2021	163.3000	163300.0031
08/08/2021	163.9000	163899.9939
09/08/2021	226.6000	226600.0061
10/08/2021	133.0000	133000.0000
11/08/2021	186.1000	186100.0061
12/08/2021	248.9000	248899.9939
13/08/2021	195.4000	195399.9939

14/08/2021	159.5000	159500.0000
15/08/2021	212.4000	212399.9939
16/08/2021	137.8000	137800.0031
17/08/2021	177.6000	177600.0061
18/08/2021	205.6000	205600.0061
19/08/2021	201.5000	201500.0000
20/08/2021	183.0000	183000.0000
21/08/2021	239.2000	239199.9969
22/08/2021	160.8000	160800.0031
23/08/2021	216.5000	216500.0000
24/08/2021	184.7000	184699.9969
25/08/2021	167.8000	167800.0031
26/08/2021	214.6000	214600.0061
27/08/2021	180.1000	180100.0061
28/08/2021	208.6000	208600.0061
29/08/2021	237.0000	237000.0000
30/08/2021	204.1000	204100.0061
31/08/2021	113.4000	113400.0015
01/09/2021	272.7000	272700.0122
02/09/2021	117.4000	117400.0015
03/09/2021	214.5000	214500.0000
04/09/2021	184.8000	184800.0031
05/09/2021	191.5000	191500.0000
06/09/2021	157.5000	157500.0000
07/09/2021	180.9000	180899.9939
08/09/2021	180.9000	180899.9939
09/09/2021	146.2000	146199.9969
10/09/2021	213.9000	213899.9939
11/09/2021	192.8000	192800.0031
12/09/2021	162.4000	162399.9939
13/09/2021	149.1000	149100.0061
14/09/2021	151.1000	151100.0061
15/09/2021	175.5000	175500.0000
16/09/2021	164.7000	164699.9969
17/09/2021	176.4000	176399.9939
18/09/2021	203.7000	203699.9969
19/09/2021	173.6000	173600.0061
20/09/2021	203.9000	203899.9939
21/09/2021	209.0000	209000.0000
22/09/2021	179.9000	179899.9939
23/09/2021	195.2000	195199.9969
24/09/2021	176.8000	176800.0031
25/09/2021	171.6000	171600.0061
26/09/2021	186.8000	186800.0031
27/09/2021	187.7000	187699.9969
28/09/2021	169.0000	169000.0000
29/09/2021	191.9000	191899.9939
30/09/2021	175.9000	175899.9939
01/10/2021	144.9000	144899.9939
02/10/2021	180.9000	180899.9939
03/10/2021	277.3000	277299.9878
04/10/2021	120.9000	120900.0015
05/10/2021	196.7000	196699.9969
06/10/2021	168.1000	168100.0061
07/10/2021	257.6000	257600.0061
08/10/2021	127.9000	127900.0015
09/10/2021	202.9000	202899.9939
10/10/2021	231.8000	231800.0031
11/10/2021	204.9000	204899.9939
12/10/2021	119.5000	119500.0000
13/10/2021	152.4000	152399.9939

14/10/2021	203.4000	203399.9939
15/10/2021	192.7000	192699.9969
16/10/2021	252.4000	252399.9939
17/10/2021	221.7000	221699.9969
18/10/2021	120.5000	120500.0000
19/10/2021	180.6000	180600.0061
20/10/2021	180.6000	180600.0061
21/10/2021	207.2000	207199.9969
22/10/2021	153.9000	153899.9939
23/10/2021	159.7000	159699.9969
24/10/2021	214.3000	214300.0031
25/10/2021	204.5000	204500.0000
26/10/2021	123.6000	123599.9985
27/10/2021	279.7000	279700.0122
28/10/2021	239.6000	239600.0061
29/10/2021	97.0000	97000.0000
30/10/2021	206.8000	206800.0031
31/10/2021	270.7000	270700.0122
01/11/2021	154.1000	154100.0061
02/11/2021	213.9000	213899.9939
03/11/2021	152.2000	152199.9969
04/11/2021	225.8000	225800.0031
05/11/2021	186.6000	186600.0061
06/11/2021	254.0000	254000.0000
07/11/2021	220.8000	220800.0031
08/11/2021	142.6000	142600.0061
09/11/2021	189.8000	189800.0031
10/11/2021	279.1000	279100.0061
11/11/2021	143.8000	143800.0031
12/11/2021	220.1000	220100.0061
13/11/2021	263.8000	263799.9878
14/11/2021	241.2000	241199.9969
15/11/2021	172.6000	172600.0061
16/11/2021	234.8000	234800.0031
17/11/2021	236.3000	236300.0031
18/11/2021	274.5000	274500.0000
19/11/2021	247.9000	247899.9939
20/11/2021	170.5000	170500.0000
21/11/2021	323.9000	323899.9939
22/11/2021	184.6000	184600.0061
23/11/2021	215.0000	215000.0000
24/11/2021	245.5000	245500.0000
25/11/2021	226.2000	226199.9969
26/11/2021	252.1000	252100.0061
27/11/2021	276.2000	276200.0122
28/11/2021	291.3000	291299.9878
29/11/2021	190.0000	190000.0000
30/11/2021	164.1000	164100.0061
01/12/2021	180.5000	180500.0000
02/12/2021	217.6000	217600.0061
03/12/2021	160.8000	160800.0031
04/12/2021	233.5000	233500.0000
05/12/2021	175.8000	175800.0031
06/12/2021	215.3000	215300.0031
07/12/2021	227.9000	227899.9939
08/12/2021	194.0000	194000.0000
09/12/2021	232.9000	232899.9939
10/12/2021	164.1000	164100.0061
11/12/2021	205.8000	205800.0031
12/12/2021	178.0000	178000.0000
13/12/2021	273.0000	273000.0000

14/12/2021	135.5000	135500.0000
15/12/2021	153.7000	153699.9969
16/12/2021	268.2000	268200.0122
17/12/2021	213.2000	213199.9969
18/12/2021	281.8000	281799.9878
19/12/2021	270.8000	270799.9878
20/12/2021	151.2000	151199.9969
21/12/2021	181.3000	181300.0031
22/12/2021	181.5000	181500.0000
23/12/2021	223.4000	223399.9939
24/12/2021	179.8000	179800.0031
25/12/2021	226.3000	226300.0031
26/12/2021	181.0000	181000.0000
27/12/2021	172.4000	172399.9939
28/12/2021	261.4000	261399.9939
29/12/2021	325.1000	325100.0061
30/12/2021	135.9000	135899.9939
31/12/2021	179.9000	179899.9939