## **Cobden Drinking Water System**

Waterworks # 220001218
System Category – Large Municipal Residential

## **Annual Water Report**

Prepared For: The Township of Whitewater Region

Reporting Period of January 1st – December 31st 2022

Issued: February 22<sup>nd</sup>, 2023

Revised: March 29th, 2023

Revision: 1



This report has been prepared to satisfy the annual reporting requirements in O.Reg 170/03 Section 11 and Schedule 22

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## **Report Availability**

The annual report will be available to residents at the Township of Whitewater Region's Municipal Office and copies provided free of charge if requested. The Township of Whitewater Region's Municipal Office is located at, 44 Main Street, Cobden, Ontario.

There are no additional drinking water systems that receive water from this facility.

## **Compliance Report Card**

Compliance Event	# of Events
Ministry of Environment Inspections	0
Ministry of Labour Inspections	0
QEMS External Audit	1 Audit completed on February 16 <sup>th</sup> 2022 by SAI Global. No major or minor non-conformances were identified.
AWQI's/BWA	3/0
Non-Compliance	0
Community Complaints	2
Spills	0
Watermain Breaks	2

### **System Process Description**

#### **Raw Source**

The Cobden water treatment plant receives raw water from Muskrat Lake. The intake for the water treatment plant consists of a 300 mm diameter pipe located approximately 12.2 m below the water surface, and is equipped with polyethylene lines for seasonal potassium permanganate dosing for zebra mussel and manganese control and for raw water sampling. Water flows by gravity from the intake structure and enters two interconnected intake wet wells with a total volume of 70 m<sup>3</sup>. Two vertical turbine low lift pumps convey water into the treatment system. A flow meter is installed on the low lift discharge header to allow accurate monitoring of water takings.

#### **Treatment**

The Cobden water treatment plant uses chemically assisted filtration to treat the raw water before disinfection occurs. Similar to the intake crib, potassium permanganate is added seasonally at the raw water discharge header for additional manganese control. Raw water leaving the wet wells is injected with the coagulant, PAS-8 and the coagulant aid, Superfloc polymer and is then mixed via an inline static mixer. The Cobden water treatment plant consists of an Ecodyne Package Unit and Corix Treatment Unit. Flow is directed to one treatment unit at a time. The unit's both feature a tank for coagulation and flocculation. This tank has a mixer to facilitate the process. The next stage is sedimentation. This tank utilizes tube settlers to allow the floc to settle. Clarified water off the top of the tank is collected in troughs and distributed to the two-cell dual media (sand/anthracite) gravity filters. A common underdrain collects filter effluent from both cells, and a continuous online turbidimeter monitors each of the filters effluent turbidity.

Sodium hypochlorite is injected into the filtered water prior to entering a dual-celled baffled clearwell with total volume of 187 m³. The cleawell provides sufficient contact time to meet primary disinfection. Water flows from the clearwell by two high lift pumps into the distribution system. Sodium hypochlorite is injected into the water again before travelling to the distribution system.

Process wastewater is directed to a wastewater tank and discharged to the sanitary sewer. The supernatant chamber which discharges to the lake is no longer in use.

#### **Distribution**

The Cobden Distribution System is a Class 1 Distribution System that serves a population of approximately 1000. The distribution system includes 9.2 km of watermain, 61 fire hydrants, and a 900 m³ elevated water storage tank located at 44 Gould Street. Four sample stations are available on Simmons Drive, Ross Street, Main Street and Morrison Drive to facilitate distribution sampling and provide adequate chlorine residuals in the distributed water.

#### <u>Treatment Chemicals used during the reporting year:</u>

Chemical Name	Use	Supplier
PAS-8	Coagulation & Flocculation	Kemira
Superfloc 492PWG	Coagulant Aid (Polymer)	Kemira
Sodium Hypochlorite (12%)	Disinfection	Brenntag
Potassium Permanganate (granular 97.5%)	Zebra Mussel and Manganese Control	Cariox via Brenntag

## **Summary of Non-Compliance**

## **Adverse Water Quality Incidents**

Date	AWQI#	Location	Problem	Details	Legislation	Corrective Action Taken
04/04/22	158108	Cobden Distribution System	THM Running Annual Average (RAA) Exceedance	RAA: 102.8 ug/L RAA Limit: 100 ug/L	O. Reg 170/03	Flush system to remove THMs and re-sample
04/08/22	159420	Cobden Distribution System	THM Running Annual Average (RAA) Exceedance	RAA: 104.7 ug/L RAA Limit: 100 ug/L	O. Reg 170/03	Flush system and re-sample. Study by OCWA POTS Team to optimize removal of THM's began May 26 <sup>th</sup> 2022.
06/10/22	160270	Cobden Distribution System	THM Running Annual Average (RAA) Exceedance	RAA: 101.6 ug/L RAA Limit: 100 ug/L	O. Reg 170/03	Flush system and re- sample. OCWA POTS Team study continued until November 22 <sup>nd</sup> 2022.

#### **Non-Compliance**

Legislation	requirement(s) system failed to meet	duration of the failure (i.e. date(s))	Corrective Action	Status
		None to report.		

### **Non-Compliance Identified in a Ministry Inspection:**

Legislation	requirement(s) system failed to meet	duration of the failure (i.e. date(s))	Corrective Action	Status
		None to report.		

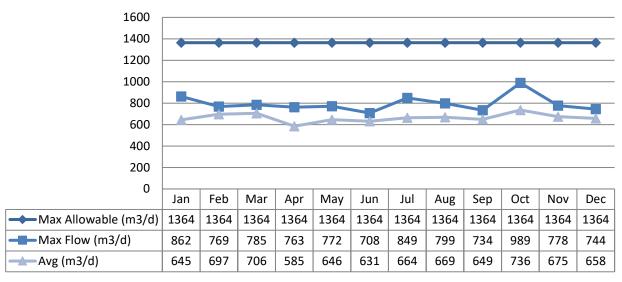
#### **Flows**

#### **Raw Water Flows**

The Raw Water flows are regulated under the Permit to Take Water. 2022 Raw Flow Data was submitted to the Ministry electronically under permits #0782-8W3HY8 and #P-300-1175250711. The confirmations that the data was submitted are attached in Appendix A.

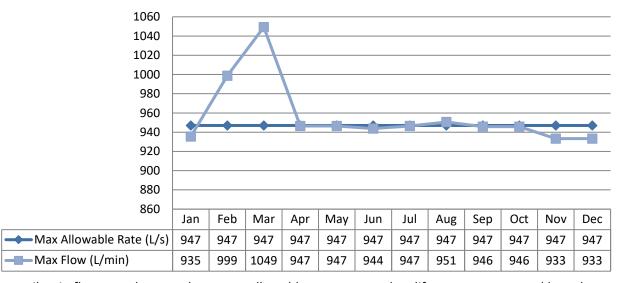
#### **Total Monthly Flows**

#### Max Allowable PTTW



#### **Maximum Flow Rates**

#### Max Allowable Rate - PTTW



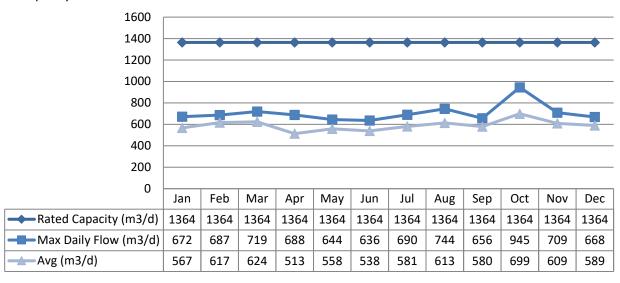
<sup>\*</sup>Note spikes in flow rate that are above max allowable rate were on low lift pump start up and lasted less than a minute, events under a minute are not reportable as a PTTW exceedance

#### **Treated Water Flows**

The Treated Water flows are regulated under the Municipal Drinking Water Licence.

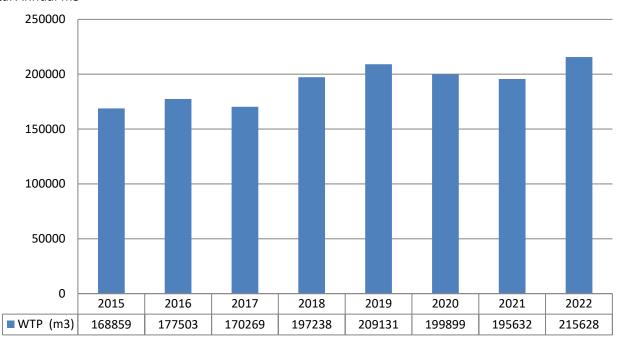
#### **Monthly Rated Flows**

#### Rated Capacity - MDWL



#### <u>Annual Total Flow Comparison</u>

#### Total Annual m3



## **Regulatory Sample Results Summary**

#### **Microbiological Testing**

	No. of Samples Collected	Range of E.Coli Results		Range of Total Coliform Results		Range of HPC Results	
		Min	Max	Min	Max	Min	Max
Raw Water	47*	0	22	0	480	N/A	N/A
Treated Water	52	0	0	0	0	0	2
Distribution Water	114	0	0	0	0	0	105

<sup>\*</sup>NOTE: 52 raw water samples were collected in 2022 though the samples collected June 15<sup>th</sup>, July 5<sup>th</sup>, August 16<sup>th</sup>, September 13<sup>th</sup> and October 4th were NDOGT - No Data: Overgrown with Target Bacteria for both total coliform and E.Coli results

#### **Operational Testing**

	No. of Samples	Range of	Results
	Collected	Minimum	Maximum
Turbidity, In-House (NTU) - RW	148	0.16	5.5
Turbidity, In-House (NTU) - TW	183	0.04	0.69
Turbidity, On-Line (NTU) - Filter 1	8760	0.00	4.12*
Turbidity, On-Line (NTU) - Filter 2	8760	0.00	1.18*
Highlift Free Chlorine Residual, On-Line (mg/L) - TW	8760	0.62	5.00*
Post Trim Free Chlorine Residual, In-House (mg/L) - DW	8760	0.28	4.15
Free Chlorine Residual, In House (mg/L) - DW	366	0.06	2.20

<sup>\*</sup>NOTE: spikes recorded by on-line instrumentation were a result of air bubbles and various maintenance/calibration activities. All spikes are reviewed for compliance with O.Reg 170/03

#### **Inorganic Parameters**

These parameters are tested as a requirement under O. Reg. 170/03. Sodium and Fluoride are required to be tested every 60 months. Nitrate and Nitrite are tested quarterly and metals are tested annually as required under O. Reg. 170/03. In the event any parameter exceeds half the maximum allowable concentration the parameter is required to be sampled quarterly.

- MAC = Maximum Allowable Concentration as per O. Reg. 169/03
- <MDL = Less than Method Detection Limit</li>

	Commis Data			No. of Exce	eedances
	Sample Date (yyyy/mm/dd)	Sample Result	MAC	MAC	1/2 MAC
Treated Water					IVIAC
Antimony: Sb (ug/L) - TW	2022/01/11	<mdl 0.6<="" td=""><td>6.0</td><td>No</td><td>No</td></mdl>	6.0	No	No
Arsenic: As (ug/L) - TW	2022/01/11	<mdl 0.2<="" td=""><td>10.0</td><td>No</td><td>No</td></mdl>	10.0	No	No
Barium: Ba (ug/L) - TW	2022/01/11	27.8	1000.0	No	No
Boron: B (ug/L) - TW	2022/01/11	14.0	5000.0	No	No
Cadmium: Cd (ug/L) - TW	2022/01/11	<mdl 0.003<="" td=""><td>5.0</td><td>No</td><td>No</td></mdl>	5.0	No	No
Chromium: Cr (ug/L) - TW	2022/01/11	0.17	50.0	No	No
Mercury: Hg (ug/L) - TW	2022/01/11	<mdl 0.01<="" td=""><td>1.0</td><td>No</td><td>No</td></mdl>	1.0	No	No

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	Comple Date			No. of Exce	No. of Exceedances	
	Sample Date (yyyy/mm/dd)	Sample Result	MAC	MAC	1/2 MAC	
Selenium: Se (ug/L) - TW	2022/01/11	0.05	50.0	No	No	
Uranium: U (ug/L) - TW	2022/01/11	0.277	20.0	No	No	
Additional Inorganics						
Nitrite (mg/L) - TW	2022/01/11	<mdl 0.003<="" td=""><td>1.0</td><td>No</td><td>No</td></mdl>	1.0	No	No	
Nitrite (mg/L) - TW	2022/04/05	<mdl 0.003<="" td=""><td>1.0</td><td>No</td><td>No</td></mdl>	1.0	No	No	
Nitrite (mg/L) - TW	2022/07/12	<mdl 0.003<="" td=""><td>1.0</td><td>No</td><td>No</td></mdl>	1.0	No	No	
Nitrite (mg/L) - TW	2022/10/04	<mdl 0.003<="" td=""><td>1.0</td><td>No</td><td>No</td></mdl>	1.0	No	No	
Nitrate (mg/L) - TW	2022/01/11	0.293	10.0	No	No	
Nitrate (mg/L) - TW	2022/04/05	0.321	10.0	No	No	
Nitrate (mg/L) - TW	2022/07/12	0.318	10.0	No	No	
Nitrate (mg/L) - TW	2022/10/04	0.088	10.0	No	No	
Fluoride (mg/L) - TW	2019/01/03	0.13	1.5	No	No	
Sodium: Na (mg/L) - TW	2019/01/03	16.0	20*	No	Yes	

<sup>\*</sup>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 mg/L 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.

#### Schedule 15 Sampling:

The Schedule 15 Sampling is required under O.Reg 170/03. This system is under reduced sampling. No plumbing samples were collected.

Distribution System	Number of	Number of	Range of	Range of Results		Number of
Distribution System	Sampling Points	Samples	Minimum	Maximum	(ug/L)	Exceedances
Alkalinity (mg/L)	2	4	114	117	N/A	N/A
pН	2	4	7.4	8.0	N/A	N/A
Lead (ug/L)	N/A	N/A	N/A	N/A	10	0

#### **Organic Parameters**

These parameters are tested annually as a requirement under O. Reg. 170/03. In the event any parameter exceeds half the maximum allowable concentration the parameter is required to be sampled quarterly.

- MAC = Maximum Allowable Concentration as per O. Reg. 169/03
- <MDL = Less than Method Detection Limit

	Sample Date	Sample Result	MAC	Numb Exceed	
	(yyyy/mm/dd)	Sample Result	IVIAC	MAC	1/2 MAC
Treated Water					
Alachlor (ug/L) - TW	2022/01/11	<mdl 0.02<="" td=""><td>5.0</td><td>No</td><td>No</td></mdl>	5.0	No	No
Atrazine + N-dealkylated metabolites (ug/L) - TW	2022/01/11	0.01	5.0	No	No
Azinphos-methyl (ug/L) - TW	2022/01/11	<mdl 0.05<="" td=""><td>20.0</td><td>No</td><td>No</td></mdl>	20.0	No	No
Benzene (ug/L) - TW	2022/01/11	<mdl 0.32<="" td=""><td>1.0</td><td>No</td><td>No</td></mdl>	1.0	No	No
Benzo(a)pyrene (ug/L) - TW	2022/01/11	<mdl 0.004<="" td=""><td>0.01</td><td>No</td><td>No</td></mdl>	0.01	No	No
Bromoxynil (ug/L) - TW	2022/01/11	<mdl 0.33<="" td=""><td>5.0</td><td>No</td><td>No</td></mdl>	5.0	No	No

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	Sample Date	Sample Result	MAC	Numb Exceed	
	(yyyy/mm/dd)	Sample Result	WIAC	MAC	1/2 MAC
Carbaryl (ug/L) - TW	2022/01/11	<mdl 0.05<="" td=""><td>90.0</td><td>No</td><td>No</td></mdl>	90.0	No	No
Carbofuran (ug/L) - TW	2022/01/11	<mdl 0.01<="" td=""><td>90.0</td><td>No</td><td>No</td></mdl>	90.0	No	No
Carbon Tetrachloride (ug/L) - TW	2022/01/11	<mdl 0.17<="" td=""><td>2.0</td><td>No</td><td>No</td></mdl>	2.0	No	No
Chlorpyrifos (ug/L) - TW	2022/01/11	<mdl 0.02<="" td=""><td>90.0</td><td>No</td><td>No</td></mdl>	90.0	No	No
Diazinon (ug/L) - TW	2022/01/11	<mdl 0.02<="" td=""><td>20.0</td><td>No</td><td>No</td></mdl>	20.0	No	No
Dicamba (ug/L) - TW	2022/01/11	<mdl 0.2<="" td=""><td>120.0</td><td>No</td><td>No</td></mdl>	120.0	No	No
1,2-Dichlorobenzene (ug/L) - TW	2022/01/11	<mdl 0.41<="" td=""><td>200.0</td><td>No</td><td>No</td></mdl>	200.0	No	No
1,4-Dichlorobenzene (ug/L) - TW	2022/01/11	<mdl 0.36<="" td=""><td>5.0</td><td>No</td><td>No</td></mdl>	5.0	No	No
1,2-Dichloroethane (ug/L) - TW	2022/01/11	<mdl 0.35<="" td=""><td>5.0</td><td>No</td><td>No</td></mdl>	5.0	No	No
1,1-Dichloroethylene (ug/L) - TW	2022/01/11	<mdl 0.33<="" td=""><td>14.0</td><td>No</td><td>No</td></mdl>	14.0	No	No
Dichloromethane (Methylene Chloride) (ug/L) - TW	2022/01/11	<mdl 0.35<="" td=""><td>50.0</td><td>No</td><td>No</td></mdl>	50.0	No	No
2,4-Dichlorophenol (ug/L) - TW	2022/01/11	<mdl 0.15<="" td=""><td>900.0</td><td>No</td><td>No</td></mdl>	900.0	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) -	2022/01/11	<mdl 0.19<="" td=""><td>100.0</td><td>No</td><td>No</td></mdl>	100.0	No	No
Diclofop-methyl (ug/L) - TW	2022/01/11	<mdl 0.4<="" td=""><td>9.0</td><td>No</td><td>No</td></mdl>	9.0	No	No
Dimethoate (ug/L) - TW	2022/01/11	<mdl 0.06<="" td=""><td>20.0</td><td>No</td><td>No</td></mdl>	20.0	No	No
Diquat (ug/L) - TW	2022/01/11	<mdl 1.0<="" td=""><td>70.0</td><td>No</td><td>No</td></mdl>	70.0	No	No
Diuron (ug/L) - TW	2022/01/11	<mdl 0.03<="" td=""><td>150.0</td><td>No</td><td>No</td></mdl>	150.0	No	No
Glyphosate (ug/L) - TW	2022/01/11	<mdl 1.0<="" td=""><td>280.0</td><td>No</td><td>No</td></mdl>	280.0	No	No
Malathion (ug/L) - TW	2022/01/11	<mdl 0.02<="" td=""><td>190.0</td><td>No</td><td>No</td></mdl>	190.0	No	No
Metolachlor (ug/L) - TW	2022/01/11	<mdl 0.01<="" td=""><td>50.0</td><td>No</td><td>No</td></mdl>	50.0	No	No
Metribuzin (ug/L) - TW	2022/01/11	<mdl 0.02<="" td=""><td>80.0</td><td>No</td><td>No</td></mdl>	80.0	No	No
Monochlorobenzene (Chlorobenzene) (ug/L) - TW	2022/01/11	<mdl 0.3<="" td=""><td>80.0</td><td>No</td><td>No</td></mdl>	80.0	No	No
Paraquat (ug/L) - TW	2022/01/11	<mdl 1.0<="" td=""><td>10.0</td><td>No</td><td>No</td></mdl>	10.0	No	No
PCB (ug/L) - TW	2022/01/11	<mdl 0.04<="" td=""><td>3.0</td><td>No</td><td>No</td></mdl>	3.0	No	No
Pentachlorophenol (ug/L) - TW	2022/01/11	<mdl 0.15<="" td=""><td>60.0</td><td>No</td><td>No</td></mdl>	60.0	No	No
Phorate (ug/L) - TW	2022/01/11	<mdl 0.01<="" td=""><td>2.0</td><td>No</td><td>No</td></mdl>	2.0	No	No
Picloram (ug/L) - TW	2022/01/11	<mdl 1.0<="" td=""><td>190.0</td><td>No</td><td>No</td></mdl>	190.0	No	No
Prometryne (ug/L) - TW	2022/01/11	<mdl 0.03<="" td=""><td>1.0</td><td>No</td><td>No</td></mdl>	1.0	No	No
Simazine (ug/L) - TW	2022/01/11	<mdl 0.01<="" td=""><td>10.0</td><td>No</td><td>No</td></mdl>	10.0	No	No
Terbufos (ug/L) - TW	2022/01/11	<mdl 0.01<="" td=""><td>1.0</td><td>No</td><td>No</td></mdl>	1.0	No	No
Tetrachloroethylene (ug/L) - TW	2022/01/11	<mdl 0.35<="" td=""><td>10.0</td><td>No</td><td>No</td></mdl>	10.0	No	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW	2022/01/11	<mdl 0.2<="" td=""><td>100.0</td><td>No</td><td>No</td></mdl>	100.0	No	No
Triallate (ug/L) - TW	2022/01/11	<mdl 0.01<="" td=""><td>230.0</td><td>No</td><td>No</td></mdl>	230.0	No	No
Trichloroethylene (ug/L) - TW	2022/01/11	<mdl 0.44<="" td=""><td>5.0</td><td>No</td><td>No</td></mdl>	5.0	No	No
2,4,6-Trichlorophenol (ug/L) - TW	2022/01/11	<mdl 0.25<="" td=""><td>5.0</td><td>No</td><td>No</td></mdl>	5.0	No	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (ug/L) - TW	2022/01/11	<mdl 0.12<="" td=""><td>100.0</td><td>No</td><td>No</td></mdl>	100.0	No	No
Trifluralin (ug/L) - TW	2022/01/11	<mdl 0.02<="" td=""><td>45.0</td><td>No</td><td>No</td></mdl>	45.0	No	No
Vinyl Chloride (ug/L) - TW	2022/01/11	<mdl 0.17<="" td=""><td>1.0</td><td>No</td><td>No</td></mdl>	1.0	No	No

Distribution samples are tested quarterly for THM's and HAA's in accordance with O. Reg. 170/03.

	Sample Year	Sample Result	MAC	Number of Exceedances	
	Sample Result MAC		MAC	1/2 MAC	
Distribution Water					
Trihalomethane (THM): Total (ug/L) Annual Running Average - DW	2022	92.2	100.0	No	Yes
Haloacetic Acid (HAA): Total (ug/L) Annual Running Average - DW	2022	72.8	80.0	No	Yes

#### **Additional Legislated Samples**

Schedule C: System-Specific Conditions of Municipal Drinking Water License #203-202 requires the Cobden Drinking Water System to have a Harmful Algal Bloom (HAB) plan. The HAB plan is to be implemented when a potential harmful algal bloom is suspected or present in the source water. Muskrat Lake, the raw water source for the Cobden DWS, has a known history of Blue-Green Algae blooms. To ensure the drinking water remains unaffected the Raw and Treated water is sampled on a weekly basis for Microsystin during the Harmful Algal Bloom season, which occurs from June 1st to October 31st of each year.

	No. of Samples	Range of Results		
	Collected	Minimum	Maximum	
Microcystin (ug/L) - RW	23	<mdl 0.1<="" td=""><td><mdl 0.1<="" td=""></mdl></td></mdl>	<mdl 0.1<="" td=""></mdl>	
Microcystin (ug/L) - TW	23	<mdl 0.1<="" td=""><td><mdl 0.1<="" td=""></mdl></td></mdl>	<mdl 0.1<="" td=""></mdl>	

<MDL = Less than Method Detection Limit

Schedule C: System-Specific Conditions of Municipal Drinking Water License #203-202 requires the Cobden Drinking Water System to monitor the effluent discharged to the natural environment. It should be noted that the backwash effluent directly discharges to the sanitary sewer to be processed at the Cobden Wastewater Treatment Plant, and as such the effluent was not sampled on a quarterly basis in 2022. An amendment to Schedule C of the MDWL is being processed to remove this condition.

Legal Document	Date of Issuance	Parameter	Limit (mg/L)	Result (mg/L)
MDWL #203-202	24-Sept-2020	Backwash Effluent Suspended Solids	Annual Average < 25 mg/L	11.5
MDWL #203-202	24-Sept-2020	Backwash Effluent Total Chlorine Residual	Annual Average < 0.02 mg/L	0.16

## **Major Maintenance Summary**

WO #	Description
2635770	Installed new online Turbidity Analyzers for Filter #1, Filter #2 and Treated Water
2776220	Fire Code deficiencies found in treatment plant repaired as per Township of
2776330	Whitewater Region Fire Department

WO #	Description
2821064	Replaced process wastewater sludge pump
2822734	Automatic backup power supply generator processer fault repaired
2823829	Filter #2 rinse to waste valve repaired
2870632	Filter #2 rinse to waste valve repair failed, valve replaced
2872142	Hydrant at corner of Crawford Street & Main Street repaired
2917089	Hydrant at 100 Main Street replaced
2962640	Process wastewater tank cleaned and inspected
2964191	Polymer dosing pump replaced
3065586	Filter #2 de-sludge valve replaced
3106937	Spill Pallet/Spill Kit purchased as per Ministry of Environment, Conservation and Parks
3107158	Sodium Hypochlorite bulk tank filling line repaired
3147266	Backflow Preventers tested, repairs to occur in 2023

## **Distribution Maintenance**

Date	Location Reference	Category	Details	Corrective Repair
January 12, 2022	Corner of John and Jason Street	1	Emergency repair of a watermain break	Repair completed under full pressure using 4" Repair  Band
May 3, 2022	Entire System	N/A	Spring flushing program	N/A
October 4, 2022	Entire System	N/A	Fall flushing program	N/A
November 29, 2022	42 Gould Street	1	Emergency repair of a watermain break	Replace six feet of 6" blue brute pipe and install two new 6" Hi-max couplers

# **Appendix A**

**WTRS and RSRS Data and Submission Confirmation** 





#### Ministry of the Environment, Conservation and Parks

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WTRS-WT-008

#### Water Taking Data submitted successfully.

Thank you for submitting your water taking data online.

Permit Number: 0782-8W3HY8

Permit Holder: THE CORPORATION OF THE TOWNSHIP OF WHITEWATER REGION. Received on:Feb 16, 2023 10:56 AM

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.

Print Confirmation

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KAYLEE SAAR | 2023/02/16 version: v4.5.0.21 (build#: 22) Last modified: 2018/09/18



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## Regulatory Self-Reporting System

## Ministry of the Environment, Conservation and Parks

Client Name: THE CORPORATION OF THE TOWNSHIP OF WHITEWATER REGION Reporting Year: 2022 Service: PTTW Permit Number: P-300-1175250711 Permit

**Version:** 1.0 **New or Updated Submission:** NEW

Site Name: Cobden Water Treatment Plant

Source ID: 500000637197 Source Name: Muskrat Lake Source Type: Lake

UTM(Zone/Easting/Northing): 18/353658.0/5055621.0 Method of Determination: Metered Unit of Measure: Litre

**Description:** Muskrat Lake **Purpose Category:** Utilities **Specific Category:** Municipal Supply **Activity** Water Supply

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1							670000.0	575000.0	671000.0	509000.0	518000.0
2							616000.0	611000.0	671000.0	651000.0	660000.0
3							645000.0	611000.0	770000.0	714000.0	660000.0
4							539000.0	685000.0	0.00008	677000.0	660000.0
5							650000.0	685000.0	826000.0	677000.0	585000.0
6							650000.0	580000.0	969000.0	677000.0	683000.0
7							650000.0	650000.0	733000.0	693000.0	623000.0
8							653000.0	653000.0	733000.0	669000.0	625000.0
9							506000.0	699000.0	634000.0	832000.0	685000.0
10							731000.0	699000.0	634000.0	728000.0	685000.0
11							572000.0	699000.0	747000.0	728000.0	685000.0
12							649000.0	617000.0	799000.0	601000.0	716000.0
13							649000.0	687000.0	676000.0	601000.0	780000.0
14							649000.0	623000.0	684000.0	574000.0	616000.0
15							559000.0	874000.0	684000.0	603000.0	646000.0
16						677000.0	1034000.0	582000.0	684000.0	676000.0	692000.0
17						692000.0	614000.0	582000.0	671000.0	624000.0	692000.0
18						581000.0	717000.0	582000.0	774000.0	708000.0	692000.0
19						767000.0	697000.0	793000.0	646000.0	708000.0	802000.0
20						634000.0	697000.0	595000.0	892000.0	708000.0	539000.0
21						591000.0	697000.0	582000.0	761000.0	691000.0	696000.0
22						718000.0	746000.0	876000.0	761000.0	671000.0	736000.0
23						718000.0	676000.0	613000.0	761000.0	584000.0	709000.0
24						718000.0	491000.0	613000.0	783000.0	746000.0	709000.0
25						550000.0	756000.0	613000.0	907000.0	667000.0	635000.0
26						671000.0	629000.0	611000.0	940000.0	667000.0	635000.0
27						905000.0	629000.0	607000.0	833000.0	667000.0	635000.0
28						538000.0	629000.0	657000.0	678000.0	700000.0	698000.0
29						757000.0	653000.0	624000.0	678000.0	670000.0	628000.0
30						757000.0	973000.0	671000.0	678000.0	752000.0	665000.0

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
31							670000.0	775000.0		449000.0		665000.0

Name of Attester First Name: Kaylee

Last Name: Saar

Company: Ontario Clean Water Agency

Date Certified/Submitted(yyyy/mm/dd): 2023/02/21