# Buckhorn Lake Estates Drinking Water System

Waterworks # 220006437 System Category – Large Municipal Residential

## **Annual Water Report**

Prepared For: The Municipality of Trent Lakes

Reporting Period of January 1st – December 31st, 2023

Issued: February 22, 2024

Revision: 0

Operating Authority:



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

This system does not serve more than 10,000 residence and the annual reports will be available to residents at The Municipality of Trent Lakes Office and copies will provided free of charge if requested. The Municipality of Trent Lakes Office is located at 760 Peterborough County Road 36 Trent Lakes Ontario, KOM 1AO. A copy of the annual report is also available on the Municipality of Trent Lakes www.trentlakes.ca.

#### **Compliance Report Card**

**Drinking Water System Number: 220006437** 

**Drinking Water System Name:** Buckhorn Lake Estates WTP **Drinking Water System Owner:** Municipality of Trent Lakes **Drinking Water System Category:** Large Municipal Residential **Period Being Reported:** January 1, 2023 - December 31, 2023

	# of Events	Date	Details
Health & Safety			
Number of Incidents	0		
Drinking Water			
MECP Inspections	1	October 25, 2023	Announced, Focused MECP Inspection 100% rating.
AWQI's	2	January 10, 2023	AWQI # 161125 – Treated water sodium
		November 26, 2023	AWQI # 164121 - High lift pump failure causing low pressure
Number of Non-Compliances	0		
Number of Boil Water Advisories	1	November 26 – 30, 2023	A result of AWQI #164121, rescinded on November 30, 2023.

#### **System Process Description**

#### Raw Source

The Buckhorn Lake Estates Water Treatment Plant is supplied by one GUDI well.

#### **Treatment**

The treatment system consists of the following:

- One groundwater production well with pump

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- Sodium hypochlorite feed system with metering pumps
- Sodium permanganate feed system with metering pumps (if required)
- Polymer (SternPAC) feed system with metering pumps
- Four oxidation retention tanks for manganese removal
- Two continuous treated water free chlorine residual analyzers
- Two continuous filter turbidity analyzers
- Dual media granular filters in parallel
- Two 15.9 m<sup>3</sup> inter connected backwash wastewater settling tanks
- Clearwell consisting of two 35 m<sup>3</sup> interconnected underground tanks
- Two flow meters: raw and treated water
- Two High Lift Centrifugal Pumps
- Four Hydropneumatic Pressure Vessels
- Standby power generator

#### **Treatment Chemicals used during the reporting year:**

Chemical Name	Use	Supplier
Sodium Hypochlorite	Disinfection	Jutzi
SternPAC	Coagulant	Kemira
Sodium Permanganate	Iron Sequestering	System not in use during reporting period

#### **Summary of Non-Compliance**

#### **Adverse Water Quality Incidents**

Date	AWQI#	Location	Problem	Details	Legisl ation	Corrective Action Taken
Jan 10, 2023	161125	Treated Water	Sodium exceedance	The sodium in the treated water exceeded 20 mg/l	O.Reg 170/03	Resample of treated water. Notification of residents.
Nov 26, 2023	164121	Discharge	High lift pump did not cycle resulting in loss of pressure	Faulty pressure switch failed to activate high lift pump.	O. Reg 170/03	Restored distribution pressure. Flushed watermains. Collect two sets of distribution bacti, 48 hours apart.

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#### **Non-Compliances**

Legislation	Requirement(s) system failed to meet	Duration of the failure (i.e. date(s))	Corrective Action	Status				
There were no non-comp	There were no non-compliance issues identified during this period							

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

Legislation	Requirement(s) system failed to meet	Duration of the failure (i.e. date(s))	Corrective Action	Status			
There were no non-compliance issues identified during this period							

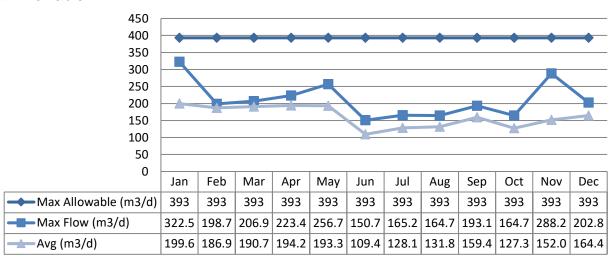
#### **Flows**

The Buckhorn Lake Estates Drinking Water System is operating below the rated capacity.

#### **Raw Water Flows**

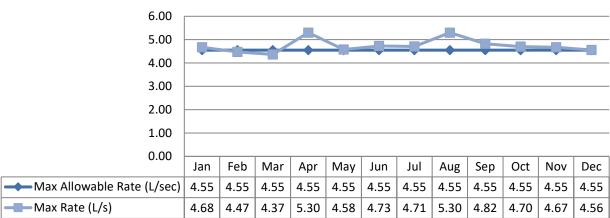
The Raw Water flows are regulated under the Permit to Take Water (PTTW). 2023 Raw Flow Data was submitted to the Ministry of the Environment, Conservation and Parks electronically under permit #5842-94MLZR. The confirmation and a copy of the data that was submitted are attached in Appendix A.

#### Total Monthly Flows (m3/d) Max Allowable PTTW



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#### Monthly Rated Flows (L/s) Max allowable rate – PTTW



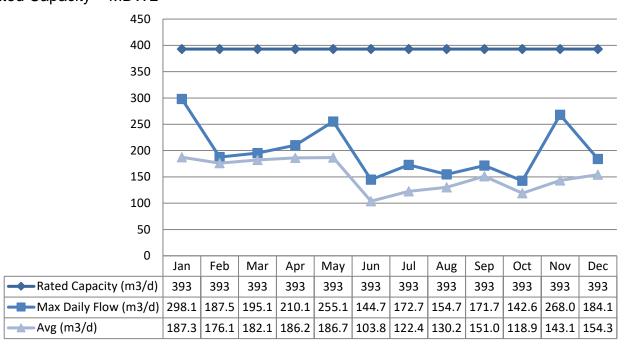
Note: The above table shows there were exceedances in instantaneous peak flow rate (L/s) caused by maintenance activities. Spikes were brief and reviewed for compliance. The scheduled Flow Meter calibration was in April.

#### **Treated Water Flows**

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

#### Monthly Rated Flows

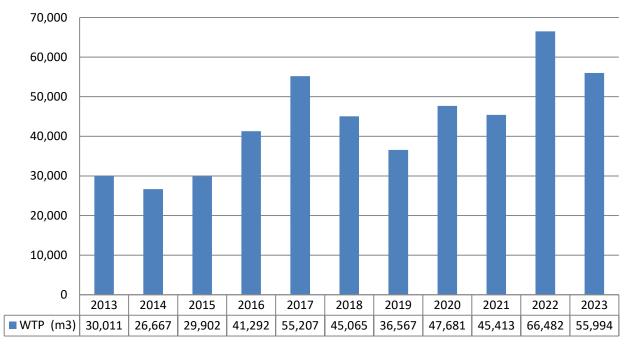
Rated Capacity - MDWL



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#### Annual Total Flow Comparison

#### Total Annual m<sup>3</sup>



#### **Regulatory Sample Results Summary**

#### **Microbiological Testing**

	No. of Samples	Range of E.Coli Results		Range of Total Coliform Results		Range of HPC Results	
	Collected	Min	Max	Min	Max	Min	Max
Raw	54	0	2	0	9		
Treated	52	0	0	0	0	0	380
Distribution	162	0	0	0	0	0	53

#### **Operational Testing**

	No. of	Range of Resul	
	Samples Collected	Minimum	Maximum
Turbidity Raw	12	0.14	0.34
Turbidity Filter 1 (NTU)	8760	0	2.0
Turbidity Filter 2 (NTU)	8760	0	2.0
Chlorine (mg/L)	8760	0	5.0

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

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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 170/03. Sodium and Fluoride are required to be tested every 5 years. Nitrate and Nitrite are tested quarterly and the metals are tested annually as required under 170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

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

	Sample Date Sample			No. of		
Treated Water	(yyyy/mm/dd)	Result	MAC	Exceedances		
	(yyyy/iiiii/dd)	Nesuit		MAC	1/2 MAC	
Antimony: Sb (ug/L)	2023/01/05	<mdl 0.6<="" td=""><td>6.0</td><td>No</td><td>No</td></mdl>	6.0	No	No	
Arsenic: As (ug/L)	2023/01/05	<mdl 0.2<="" td=""><td>10.0</td><td>No</td><td>No</td></mdl>	10.0	No	No	
Barium: Ba (ug/L)	2023/01/05	123.0	1000.0	No	No	
Boron: B (ug/L)	2023/01/05	23.0	5000.0	No	No	
Cadmium: Cd (ug/L)	2023/01/05	0.005	5.0	No	No	
Chromium: Cr (ug/L)	2023/01/05	0.37	50.0	No	No	
Mercury: Hg (ug/L)	2023/01/05	<mdl 0.01<="" td=""><td>1.0</td><td>No</td><td>No</td></mdl>	1.0	No	No	
Selenium: Se (ug/L)	2023/01/05	0.23	50.0	No	No	
Uranium: U (ug/L)	2023/01/05	0.178	20.0	No	No	
Additional Inorganics						
Fluoride (mg/L)	2023/01/05	<mdl 0.06<="" td=""><td>1.5</td><td>No</td><td>No</td></mdl>	1.5	No	No	
Nitrite (mg/L)	2023/01/03	<mdl 0.003<="" td=""><td>1.0</td><td>No</td><td>No</td></mdl>	1.0	No	No	
Nitrite (mg/L)	2023/04/05	<mdl 0.003<="" td=""><td>1.0</td><td>No</td><td>No</td></mdl>	1.0	No	No	
Nitrite (mg/L)	2023/07/06	<mdl 0.003<="" td=""><td>1.0</td><td>No</td><td>No</td></mdl>	1.0	No	No	
Nitrite (mg/L)	2023/10/10	<mdl 0.003<="" td=""><td>1.0</td><td>No</td><td>No</td></mdl>	1.0	No	No	
Nitrate (mg/L)	2023/01/03	3.97	10.0	No	No	
Nitrate (mg/L)	2023/04/05	2.92	10.0	No	No	
Nitrate (mg/L)	2023/07/06	1.98	10.0	No	No	
Nitrate (mg/L)	2023/10/10	2.37	10.0	No	No	
Sodium: Na (mg/L)	2023/01/11	46.8	20*	Yes	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 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.

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#### Schedule 15 Sampling:

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

Distribution	Number of	Number of	Range of Results Minimum Maximum		Range of Results		MAC	Number of
System	Sampling Points							
Alkalinity (mg/L)	6	2	279	290				
рН	6	2	6.82	7.19				
Lead (ug/l)	6	2	1.14	2.21	10	0		

• MAC = Maximum Allowable Concentration as per O. Reg. 169/03

#### **Organic Parameters**

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

	Sample Date	Sample		Number of Exceedances	
Treated Water	(yyyy/mm/dd)	Result	MAC	MAC	1/2 MAC
Alachlor (ug/L)	2023/01/05	<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)	2023/01/05	<mdl 0.01<="" td=""><td>5.0</td><td>No</td><td>No</td></mdl>	5.0	No	No
Azinphos-methyl (ug/L)	2023/01/05	<mdl 0.05<="" td=""><td>20.0</td><td>No</td><td>No</td></mdl>	20.0	No	No
Benzene (ug/L)	2023/01/05	<mdl 0.32<="" td=""><td>1.0</td><td>No</td><td>No</td></mdl>	1.0	No	No
Benzo(a)pyrene (ug/L)	2023/01/05	<mdl 0.004<="" td=""><td>0.01</td><td>No</td><td>No</td></mdl>	0.01	No	No
Bromoxynil (ug/L)	2023/01/05	<mdl 0.33<="" td=""><td>5.0</td><td>No</td><td>No</td></mdl>	5.0	No	No
Carbaryl (ug/L)	2023/01/05	<mdl 0.05<="" td=""><td>90.0</td><td>No</td><td>No</td></mdl>	90.0	No	No
Carbofuran (ug/L)	2023/01/05	<mdl 0.01<="" td=""><td>90.0</td><td>No</td><td>No</td></mdl>	90.0	No	No
Carbon Tetrachloride (ug/L)	2023/01/05	<mdl 0.17<="" td=""><td>2.0</td><td>No</td><td>No</td></mdl>	2.0	No	No
Chlorpyrifos (ug/L)	2023/01/05	<mdl 0.02<="" td=""><td>90.0</td><td>No</td><td>No</td></mdl>	90.0	No	No
Diazinon (ug/L)	2023/01/05	<mdl 0.02<="" td=""><td>20.0</td><td>No</td><td>No</td></mdl>	20.0	No	No
Dicamba (ug/L)	2023/01/05	<mdl 0.2<="" td=""><td>120.0</td><td>No</td><td>No</td></mdl>	120.0	No	No
1,2-Dichlorobenzene (ug/L)	2023/01/05	<mdl 0.41<="" td=""><td>200.0</td><td>No</td><td>No</td></mdl>	200.0	No	No
1,4-Dichlorobenzene (ug/L)	2023/01/05	<mdl 0.36<="" td=""><td>5.0</td><td>No</td><td>No</td></mdl>	5.0	No	No
1,2-Dichloroethane (ug/L)	2023/01/05	<mdl 0.35<="" td=""><td>5.0</td><td>No</td><td>No</td></mdl>	5.0	No	No
1,1-Dichloroethylene (ug/L)	2023/01/05	<mdl 0.33<="" td=""><td>14.0</td><td>No</td><td>No</td></mdl>	14.0	No	No
Dichloromethane (Methylene Chloride)	2023/01/05		50.0	No	No
(ug/L)		<mdl 0.35<="" td=""><td></td><td></td><td></td></mdl>			
2,4-Dichlorophenol (ug/L)	2023/01/05	<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)	2023/01/05		100.0	No	No
(ug/L)		<mdl 0.19<="" td=""><td></td><td></td><td></td></mdl>			

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	Sample Date	Sample			ber of
Treated Water	(yyyy/mm/dd)		MAC	MAC	1/2 MAC
Diclofop-methyl (ug/L)	2023/01/05	<mdl 0.4<="" td=""><td>9.0</td><td>No</td><td>No</td></mdl>	9.0	No	No
Dimethoate (ug/L)	2023/01/05	<mdl 0.06<="" td=""><td>20.0</td><td>No</td><td>No</td></mdl>	20.0	No	No
Diquat (ug/L)	2023/01/05	<mdl 1.0<="" td=""><td>70.0</td><td>No</td><td>No</td></mdl>	70.0	No	No
Diuron (ug/L)	2023/01/05	<mdl 0.03<="" td=""><td>150.0</td><td>No</td><td>No</td></mdl>	150.0	No	No
Glyphosate (ug/L)	2023/01/05	<mdl 1.0<="" td=""><td>280.0</td><td>No</td><td>No</td></mdl>	280.0	No	No
Malathion (ug/L)	2023/01/05	<mdl 0.02<="" td=""><td>190.0</td><td>No</td><td>No</td></mdl>	190.0	No	No
Metolachlor (ug/L)	2023/01/05	<mdl 0.01<="" td=""><td>50.0</td><td>No</td><td>No</td></mdl>	50.0	No	No
Metribuzin (ug/L)	2023/01/05	<mdl 0.02<="" td=""><td>80.0</td><td>No</td><td>No</td></mdl>	80.0	No	No
Monochlorobenzene (Chlorobenzene) (ug/L)	2023/01/05	<mdl 0.3<="" td=""><td>80.0</td><td>No</td><td>No</td></mdl>	80.0	No	No
Paraquat (ug/L)	2023/01/05	<mdl 1.0<="" td=""><td>10.0</td><td>No</td><td>No</td></mdl>	10.0	No	No
PCB (ug/L)	2023/01/05	<mdl 0.04<="" td=""><td>3.0</td><td>No</td><td>No</td></mdl>	3.0	No	No
Pentachlorophenol (ug/L)	2023/01/05	<mdl 0.15<="" td=""><td>60.0</td><td>No</td><td>No</td></mdl>	60.0	No	No
Phorate (ug/L)	2023/01/05	<mdl 0.01<="" td=""><td>2.0</td><td>No</td><td>No</td></mdl>	2.0	No	No
Picloram (ug/L)	2023/01/05	<mdl 1.0<="" td=""><td>190.0</td><td>No</td><td>No</td></mdl>	190.0	No	No
Prometryne (ug/L)	2023/01/05	<mdl 0.03<="" td=""><td>1.0</td><td>No</td><td>No</td></mdl>	1.0	No	No
Simazine (ug/L)	2023/01/05	<mdl 0.01<="" td=""><td>10.0</td><td>No</td><td>No</td></mdl>	10.0	No	No
Terbufos (ug/L)	2023/01/05	<mdl 0.01<="" td=""><td>1.0</td><td>No</td><td>No</td></mdl>	1.0	No	No
Tetrachloroethylene (ug/L)	2023/01/05	<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)	2023/01/05	<mdl 0.2<="" td=""><td>100.0</td><td>No</td><td>No</td></mdl>	100.0	No	No
Triallate (ug/L)	2023/01/05	<mdl 0.01<="" td=""><td>230.0</td><td>No</td><td>No</td></mdl>	230.0	No	No
Trichloroethylene (ug/L)	2023/01/05	<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)	2023/01/05	<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)	2023/01/05	<mdl 0.12<="" td=""><td>100.0</td><td>No</td><td>No</td></mdl>	100.0	No	No
Trifluralin (ug/L)	2023/01/05	<mdl 0.02<="" td=""><td>45.0</td><td>No</td><td>No</td></mdl>	45.0	No	No
Vinyl Chloride (ug/L)	2023/01/05	<mdl 0.17<="" td=""><td>1.0</td><td>No</td><td>No</td></mdl>	1.0	No	No

Distribution Water	Sample Date	Sample	MAC	Number of Exceedances	
Distribution Water	(yyyy/mm/dd)	Result	IVIAC	MAC	1/2 MAC
Trihalomethane: Total (ug/L) Annual					
Average	2023	33.5	100.00	No	No
HAA Total (ug/L) Annual Average	2023	7.08	80.00	No	No

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

#### **Additional Legislated Samples**

Municipal Drinking Water Licence	Collected Weekly June – Oct	Total Microcystin Raw Results Range (ug/L)	Total Microcystin Treated Water Results Range (ug/L)	Treated Water Total Microcystin Limit 1.5 ug/L Exceeded Y/N
Harmful Algal Blooms Monitoring required	June	<0.1 – <0.1	-	N
June to October at a	July	<0.1 - <0.1	-	N
minimum. Samples collected weekly.	August	<0.1 - <0.1	-	N
Treated water tested	September	<0.1 - <0.1	-	N
only if Total Microcystins detected in Raw Water.	October	<0.1 – <0.1	-	N

The following additional samples are not required but Iron and Manganese are sampled monthly to provide operational guidance.

Parameter	Location	No. of Samples Collected	Range of Results			
			Minimum	Maximum		
Iron (ug/L)	Raw	12	7	262		
Iron (ug/L)	Treated	12	>MDL	83		
Manganese (ug/L)	Raw	12	1.04	74.9		
Manganese (ug/L)	Treated	12	0.13	17.6		

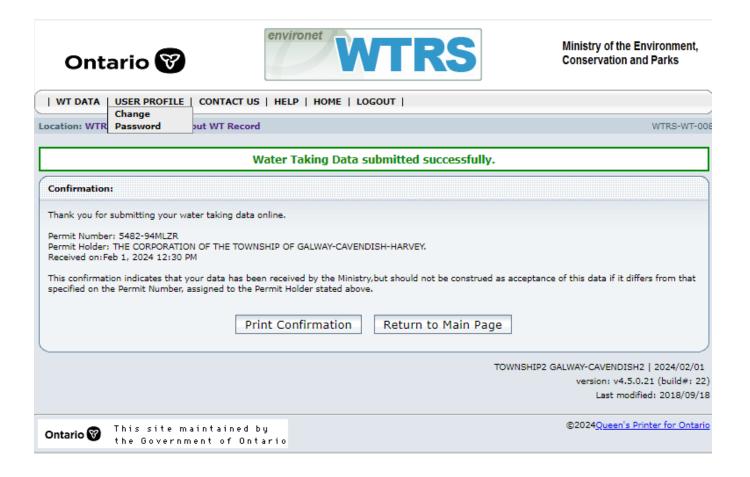
# Major Maintenance Summary incurred to install, repair or replace required equipment

WO#	Description
3621146	Distribution, Daylighting 38 and 40 Sumcot, Service Repair
3665958	High Lift Pump 1, Repair
3703545	24 & 26 Sumcot Dr, Service Leak, Repair
3705348	Coagulant Pump Foot Valve, Replace

Equipment was maintained in a fit state of repair as per legislation.

## **Appendix A**

#### **WTRS Submission Confirmation**





## Regulatory Self-Reporting System

### Ministry of the Environment, Conservation and Parks

Client Name: THE CORPORATION OF THE MUNICIPALITY OF TRENT LAKES Reporting Year: 2023 Service: PTTW Permit Number: P-300-7202725183 Permit

Version: 1.0 New or Updated Submission: NEW

Site Name: Buckhorn Lake Estates Drinking Water System

Source ID: 500000680455 Source Name: Well 1 Source Type: Well

UTM(Zone/Easting/Northing): 17/704117.0/4929252.0 Method of Determination: Metered Unit of Measure: Litre

1	Decemparing them :	-				t and goly in all		-		0.1	N	<b>D</b>
2   192789.9833   191367.0044   195683.9946   138016.98953   134027.9974   116227.9968   158839.0045   125633.0022   121856.0028   336235.0056   182496.0022   1889621.0022   224195.0073   150884.9976   145916.0004   152104.0039   161608.9935   143505.0049   125538.002   147813.0035   181696.0044   17621.9942   1250967.9036   125097.9076   130039.9933   177899.0021   119647.9966   145896.0044   125096.0052   120674.0036   125309.9973   177899.0021   119647.9966   145486.9995   146768.9972   170358.0017   178848.0072   225473.0072   106166.0044   140692.0013   116997.0016   123746.0022   135102.005   118525.0015   160889.9948   122042.0001   148013.997   13808.09494   122279.007   132294.0074   136348.0072   125359.9997   126456.0028   136464.0056   136464.0056   136464.0056   136465.40.0052   175255.9967   248647.0032   105370.0027   156240.0056   13904.0027   16343.0035   137130.9967   124665.9973   138698.9936   186177.002   201162.9944   174223.999   107433.0029   156108.0028   140475.0061   16533.0018   140682.9987   128731.0028   157255.0996   107433.0029   155108.0028   140475.0061   16533.0018   140682.9987   128731.0028   157255.0996   19007.0078   19007.0078   128731.0028   157255.0996   19007.0078   138731.9966   13714.0095   13714.0095   13714.0078   138404.9993   138259.9999   107433.0029   155108.0028   140475.0061   16533.0018   140682.9987   128731.0028   157255.0061   104808.0034   132542.0074   14598.0048   118733.0011   134748.0011   157300.9949   140475.0061   15700.0028   13714.0074   138315.9064   16533.0018   140682.9987   128049.0997   140490.0034   128049.0093   138049.9946   11007.0038   140694.0034   128049.0093   138049.9946   137049.0034   132542.0074   14598.0048   118733.0011   134748.0011   157300.9949   140490.0034   128049.0034   132640.0074   138378.006   138378.006   138378.006   138378.006   138378.006   138378.006   138378.006   138378.006   138378.006   138378.006   138378.006   138378.006   138378.006   138378.006   138378.006   138378.006   138378.006   138378.006   138378	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
3	1											
4         182496.0022         188621.0022         224195.0073         150868.9976         145916.0004         152104.0033         161608.9935         143505.0049         125538.002         147813.0035           5         191503.006         177621.994         216296.0052         120674.0036         123509.9976         130039.9933         177898.0021         119547.9965         145486.9995         146768.9972           6         195098.0072         189606.9946         237667.9993         125337.9974         137180.9998         140222.0001         148031.9997         13800.9949         12279.007         132904.007           7         170358.0017         178848.0072         225473.0072         106166.0002         130940.0051         148049.0072         123746.0025         135102.005         118252.0015         160889.994           8         186546.0052         177525.9967         10370.002         105370.002         105370.002         105180.0026         121384.0027         161337.0056         150634.9945         153177.002         153527.9999           10         186177.002         201162.9944         17223.9999         107455.0028         15516.0028         140475.0061         165330.0018         146822.0021         137160.9956         151742.0044         147629.994         128737.0024         1472	2		192789.9933	191367.0044	195953.9948	138016.9983	134921.9971	116227.9968	158839.0045	125633.0032	121856.0028	136235.0006
5         191503.006         177621.994         216268.0052         12674.0036         125309.9976         13003.9933         177899.0021         119569.514546.9995         146768.9972           6         159598.0072         18960.0949         237667.9993         125337.9974         137180.9998         140222.0001         148031.9977         138800.9949         122273.007         132904.007           7         170358.0017         178484.0022         225473.0072         106166.0004         140692.0013         116897.0016         123746.0022         135102.005         118255.0015         160889.9994           8         186546.0052         175255.9967         248647.0032         105370.0027         166130.0055         139042.0074         163438.0035         137130.9967         124885.997         138859.9935           9         201425.0031         16804.0009         195990.9997         107765.0029         155106.0028         140475.0061         165330.0018         140682.9987         128717.002         157225.0061           10         188139.9994         203736.9995         168195.0073         95966.0001         115246.00022         137160.9955         167742.0044         148721.0007         138042.9993         128291.0065           12         177815.0994         19626.0032         1773917.00	3		192419.0063	215274.9939	203132.9956	106014.9994	136904.007	114983.0017	175341.9952	123507.0038	114667.9993	141701.9958
6	4		182496.0022	189621.0022	224195.0073	150684.9976	145916.0004	152104.0039	161608.9935	143505.0049	125538.002	147813.0035
7	5		191503.006	177621.994	216296.0052	120674.0036	125309.9976	130039.9933	177899.0021	119547.9965	145486.9995	146768.9972
8	6		195098.0072	189606.9946	237667.9993	125337.9974	137180.9998	140222.0001	148031.9977	138800.9949	129279.007	132904.007
9	7		170358.0017	178848.0072	225473.0072	106166.0004	140692.0013	116997.0016	123746.0022	135102.005	118525.0015	160889.9994
10	8		186546.0052	175255.9967	248647.0032	105370.0027	165240.0055	139042.0074	163438.0035	137130.9967	124685.997	138858.9935
11	9		201425.0031	168304.0009	195990.9973	103199.9969	160190.0024	121384.0027	161337.0056	150634.9945	153177.002	153527.9999
12	10		186177.002	201162.9944	174223.999	107453.0029	155106.0028	140475.0061	165330.0018	140682.9987	128731.0028	157225.0061
13	11		188139.9994	203736.9995	185195.0073	95986.0001	115246.0022	137160.9955	151742.0044	118721.0007	138042.9993	162891.0065
14         179072.998         176235.0006         190438.0035         196505.0049         83408.9966         117000.0         130554.0009         130891.9983         118487.999         133815.0024         160429.0009           15         180205.9937         181186.0046         199395.0043         15991.9982         86736.9995         121415.0009         115852.9968         162406.9977         125221.0007         136378.006         159235.9924           16         187656.0059         206186.0046         202483.9935         184925.9949         116763.0005         117980.0034         121814.003         1582898.0042         130781.9977         13060.0037         157895.0043           17         195322.998         183804.9927         184294.0063         200669.982         114098.999         135729.9957         63134.9983         156315.0024         115732.0023         147656.0059         171611.9995           18         177091.9952         189386.0016         187727.005         188975.0061         128968.0023         114177.002         68306.9992         18809.0045         106058.9881         132983.0017         181897.995           19         19042.0074         198783.0048         18907.0038         175692.0013         11622.9965         133179.0009         151654.9988         165417.9993         111	12		177815.9943	188647.0032	173917.0074	91927.002	100480.0034	132542.0074	145908.0048	118373.0011	134748.0011	157300.9949
15         180205.9937         181186.0046         199395.0043         195919.9982         86736.9995         121415.0009         115852.9968         162406.9977         125221.0007         136378.006         159235.9924           16         187656.0059         206186.0046         202483.9935         184925.9949         116763.0005         117980.0034         121814.003         158298.0042         130781.9977         130660.0037         157895.0043           17         195322.998         183804.9927         184294.0063         200669.9982         114098.999         135729.9957         63134.9983         156315.0024         115732.0023         147656.0059         171611.9995           18         177091.9952         189386.0016         187727.005         188975.0061         128968.0023         114177.002         68306.9992         168089.0045         106058.9981         132983.0017         181897.995           19         190042.0074         198516.9983         208399.0021         189408.0048         101300.0031         123834.9991         143365.9973         141427.002         142869.9951         136483.0017         154850.0061           20         198156.9977         198783.0048         189070.0034         115829.9062         138179.0009         151654.9888         165417.9993         111785.0024	13		206490.9973	196895.9961	191007.0038	98601.9974	102907.9971	135311.9965	137615.0055	128856.0028	132005.0049	146738.0066
16         187656.0059         206186.004b         202483.9935         184925.9949         116763.0005         117980.0034         121814.003         158298.0042         130781.9977         130660.0037         157895.0043           17         195322.998         183804.9927         184294.0063         200669.9982         114098.999         135729.9957         63134.9983         156315.0024         115732.0023         147656.0059         171611.9995           18         1777091.9952         189386.0016         187727.005         188975.0061         128986.0023         114177.002         68306.9992         16808.0045         106058.9981         132983.0017         181897.995           19         190042.0074         198516.9983         208399.0021         189408.0048         101300.0031         123834.9991         143365.9973         141427.002         142689.9951         136483.0017         154850.0061           20         198156.9977         198783.0048         189007.0038         175692.0013         116422.9965         138179.0009         151654.9988         165417.9993         111788.002         137093.0023         1566849.9976           21         193826.004         187955.0012         186809.0057         19264.0054         121449.9969         130789.0015         138550.9949         151082.9926	14	179072.998	176235.0006	190438.0035	196505.0049	83408.9966	117000.0	130554.0009	130891.9983	118487.999	133815.0024	160429.0009
17       195322.998       183804.9927       184294.0063       200669.9982       114098.999       135729.9957       63134.9983       156315.0024       115732.0023       147656.0059       171611.9995         18       177091.9952       189386.0016       187727.005       188975.0061       128968.0023       114177.002       68306.9992       168089.0045       106058.9981       132983.0017       181897.995         19       19042.0074       198516.9983       208399.0021       189408.0048       101300.0031       123834.9991       143365.9973       141427.002       142869.9951       136483.0017       154850.0061         20       198156.9977       198783.0048       189007.0038       175692.0013       116422.9965       138179.0009       151654.9988       165417.9993       111788.002       137093.0023       156684.9976         21       193826.004       187595.0012       186809.0057       192643.0054       113829.0024       105702.0035       147039.0015       175574.0051       117815.0024       121880.9967       177509.9945         22       186876.0071       184123.9929       196662.0026       217018.0054       121449.9969       130789.0015       138550.9949       151082.9926       141059.0057       125661.0031       175238.9984         23       1756	15	180205.9937	181186.0046	199395.0043	195919.9982	86736.9995	121415.0009	115852.9968	162406.9977	125221.0007	136378.006	159235.9924
18         177091.9952         189386.0016         187727.005         188975.0061         128968.0023         114177.002         68306.9992         168089.0045         106058.9981         132983.0017         181897.995           19         190042.0074         198516.9983         208399.0021         189408.0048         101300.0031         123834.9991         143365.9973         141427.002         142869.9951         136483.0017         154850.0061           20         198156.9977         198783.0048         189007.0038         175692.0013         116422.9965         138179.0009         151654.9988         165417.9993         111788.002         137093.0023         156684.9976           21         193826.004         187595.0012         186809.0057         192643.0054         113829.0024         105702.0035         147039.0015         175574.0051         117815.0024         121880.9967         177509.9945           22         186876.0071         184123.9929         196662.0026         217018.0054         121449.9969         130789.0015         138550.9949         151082.9926         141059.0057         125661.0031         175238.9984           23         175660.9955         197848.0072         194492.0044         212496.0022         94008.0032         126069.9997         128037.0026         162942.0013	16	187656.0059	206186.0046	202483.9935	184925.9949	116763.0005	117980.0034	121814.003	158298.0042	130781.9977	130660.0037	157895.0043
19	17	195322.998	183804.9927	184294.0063	200669.9982	114098.999	135729.9957	63134.9983	156315.0024	115732.0023	147656.0059	171611.9995
20       198156.9977       198783.0048       189007.0038       175692.0013       116422.9965       138179.0009       151654.9988       165417.9993       111788.002       137093.0023       156684.9976         21       193826.004       187595.0012       186809.0057       192643.0054       113829.0024       105702.0035       147039.0015       175574.0051       117815.0024       121880.9967       177509.9945         22       186876.0071       184123.9929       196662.0026       217018.0054       121449.9969       130789.0015       138550.9949       151082.9926       141059.0057       125661.0031       175238.9984         23       175660.9955       197848.0072       194492.0044       212496.0022       94008.0032       126069.9997       128037.0026       162942.0013       121768.9972       138636.9934       172766.0065         24       189048.996       185408.0048       207218.0023       192490.9973       99123.0011       133673.0042       139789.0015       193111.9995       119742.9962       122661.0031       179744.9951         25       198679.0009       199839.9963       183550.9949       194151.9928       124956.0013       110730.0034       146988.0066       150557.0068       113806.9992       141774.9939       188910.9955         26 <t< td=""><td>18</td><td>177091.9952</td><td>189386.0016</td><td>187727.005</td><td>188975.0061</td><td>128968.0023</td><td>114177.002</td><td>68306.9992</td><td>168089.0045</td><td>106058.9981</td><td>132983.0017</td><td>181897.995</td></t<>	18	177091.9952	189386.0016	187727.005	188975.0061	128968.0023	114177.002	68306.9992	168089.0045	106058.9981	132983.0017	181897.995
21       193826.004       187595.0012       186809.0057       192643.0054       113829.0024       105702.0035       147039.0015       175574.0051       117815.0024       121880.9967       177509.9945         22       186876.0071       184123.9929       196662.0026       217018.0054       121449.9969       130789.0015       138550.9949       151082.9926       141059.0057       125661.0031       175238.9984         23       175660.9955       197848.0072       194492.0044       212496.0022       94008.0032       126069.9997       128037.0026       162942.0013       121768.9972       138636.9934       172766.0065         24       189048.996       185408.0048       207218.0023       192490.9973       99123.0011       133673.0042       139789.0015       193111.9995       119742.9962       122661.0031       179744.9951         25       198679.0009       199839.9963       183550.9949       194151.9928       124956.0013       110730.0034       146988.0066       150557.0068       113806.9992       141774.9939       188910.9955         26       184380.0049       195358.0017       193533.9966       174399.0021       114785.0037       115732.0023       155522.995       154740.9973       113981.0028       151102.005       176770.0043         27 <td< td=""><td>19</td><td>190042.0074</td><td>198516.9983</td><td>208399.0021</td><td>189408.0048</td><td>101300.0031</td><td>123834.9991</td><td>143365.9973</td><td>141427.002</td><td>142869.9951</td><td>136483.0017</td><td>154850.0061</td></td<>	19	190042.0074	198516.9983	208399.0021	189408.0048	101300.0031	123834.9991	143365.9973	141427.002	142869.9951	136483.0017	154850.0061
22       186876.0071       184123.9929       196662.0026       217018.0054       121449.9969       130789.0015       138550.9949       151082.9926       141059.0057       125661.0031       175238.9984         23       175660.9955       197848.0072       194492.0044       212496.0022       94008.0032       126069.9997       128037.0026       162942.0013       121768.9972       138636.9934       172766.0065         24       189048.996       185408.0048       207218.0023       192490.9973       99123.0011       133673.0042       139789.0015       193111.9995       119742.9962       122661.0031       179744.9951         25       198679.0009       199839.9963       183550.9949       194151.9928       124956.0013       110730.0034       146988.0066       150577.0068       113806.9992       141774.9939       188910.9955         26       184380.0049       195358.0017       193533.9966       174399.0021       114785.0037       115732.0023       155522.995       154740.9973       113981.0028       151102.005       176770.0043         27       194000.0       206195.9991       210865.9973       98164.0015       83767.9977       127579.0024       159302.9938       165294.0063       130757.9956       275901.001       186389.0076         28       1779	20	198156.9977	198783.0048	189007.0038	175692.0013	116422.9965	138179.0009	151654.9988	165417.9993	111788.002	137093.0023	156684.9976
23       175660.9955       197848.0072       194492.0044       212496.0022       94008.0032       126069.9997       128037.0026       162942.0013       121768.9972       138636.9934       172766.0065         24       189048.996       185408.0048       207218.0023       192490.9973       99123.0011       133673.0042       139789.0015       193111.9995       119742.9962       122661.0031       179744.9951         25       198679.0009       199839.9963       183550.9949       194151.9928       124956.0013       110730.0034       146988.0066       150557.0068       113806.9992       141774.9939       188910.9955         26       184380.0049       195358.0017       193533.9966       174399.0021       114785.0037       115732.0023       155522.995       154740.9973       113981.0028       151102.005       176770.0043         27       194000.0       206195.9991       210865.9973       98164.0015       83767.9977       127579.0024       159302.9938       165294.0063       130757.9956       275901.001       186389.0076         28       177972.0001       189645.0043       193154.007       256680.9998       103793.9987       118023.0026       164660.0037       147587.9974       117845.0012       276442.9932       166587.9974         29       18139	21	193826.004	187595.0012	186809.0057	192643.0054	113829.0024	105702.0035	147039.0015	175574.0051	117815.0024	121880.9967	177509.9945
24       189048.996       185408.0048       207218.0023       192490.9973       99123.0011       133673.0042       139789.0015       193111.9995       119742.9962       122661.0031       179744.9951         25       198679.0009       199839.9963       183550.9949       194151.9928       124956.0013       110730.0034       146988.0066       150557.0068       113806.9992       141774.9939       188910.9955         26       184380.0049       195358.0017       193533.9966       174399.0021       114785.0037       115732.0023       155522.995       154740.9973       113981.0028       151102.005       176770.0043         27       194000.0       206195.9991       210865.9973       98164.0015       83767.9977       127579.0024       159302.9938       165294.0063       130757.9956       275901.001       186389.0076         28       177972.0001       189645.0043       193154.007       256680.9998       103793.9987       118023.0026       164660.0037       147587.9974       117845.0012       276442.9932       166587.9974         29       181395.9961       203988.9984       197826.9958       108748.0011       125972.9996       132671.9971       172876.9989       123777.9999       288233.0017       195384.0027         30       206876.0071       2234	22	186876.0071	184123.9929	196662.0026	217018.0054	121449.9969	130789.0015	138550.9949	151082.9926	141059.0057	125661.0031	175238.9984
25       198679.0009       199839.9963       183550.9949       194151.9928       124956.0013       110730.0034       146988.0066       150557.0068       113806.9992       141774.9939       188910.9955         26       184380.0049       195358.0017       193533.9966       174399.0021       114785.0037       115732.0023       155522.995       154740.9973       113981.0028       151102.005       176770.0043         27       194000.0       206195.9991       210865.9973       98164.0015       83767.9977       127579.0024       159302.9938       165294.0063       130757.9956       275901.001       186389.0076         28       177972.0001       189645.0043       193154.007       256680.9998       103793.9987       118023.0026       164660.0037       147587.9974       117845.0012       276442.9932       166587.9974         29       181395.9961       203988.9984       197826.9958       108748.0011       125972.9996       132671.9971       172876.9989       123777.9999       288233.0017       195384.0027         30       206876.0071       223416.0004       110382.0038       114029.9988       137714.9963       142768.0054       169975.9979       133291.0004       278475.0061       170160.9955	23	175660.9955	197848.0072	194492.0044	212496.0022	94008.0032	126069.9997	128037.0026	162942.0013	121768.9972	138636.9934	172766.0065
26       184380.0049       195358.0017       193533.9966       174399.0021       114785.0037       115732.0023       155522.995       154740.9973       113981.0028       151102.005       176770.0043         27       194000.0       206195.9991       210865.9973       98164.0015       83767.9977       127579.0024       159302.9938       165294.0063       130757.9956       275901.001       186389.0076         28       177972.0001       189645.0043       193154.007       256680.9998       103793.9987       118023.0026       164660.0037       147587.9974       117845.0012       276442.9932       166587.9974         29       181395.9961       203988.9984       197826.9958       108748.0011       125972.9996       132671.9971       172876.9989       123777.9999       288233.0017       195384.0027         30       206876.0071       223416.0004       110382.0038       114029.9988       137714.9963       142768.0054       169975.9979       133291.0004       278475.0061       170160.9955	24	189048.996	185408.0048	207218.0023	192490.9973	99123.0011	133673.0042	139789.0015	193111.9995	119742.9962	122661.0031	179744.9951
27       194000.0       206195.9991       210865.9973       98164.0015       83767.9977       127579.0024       159302.9938       165294.0063       130757.9956       275901.001       186389.0076         28       177972.0001       189645.0043       193154.007       256680.9998       103793.9987       118023.0026       164660.0037       147587.9974       117845.0012       276442.9932       166587.9974         29       181395.9961       203988.9984       197826.9958       108748.0011       125972.9996       132671.9971       172876.9989       123777.9999       288233.0017       195384.0027         30       206876.0071       223416.0004       110382.0038       114029.9988       137714.9963       142768.0054       169975.9979       133291.0004       278475.0061       170160.9955	25	198679.0009	199839.9963	183550.9949	194151.9928	124956.0013	110730.0034	146988.0066	150557.0068	113806.9992	141774.9939	188910.9955
28       177972.0001       189645.0043       193154.007       256680.9998       103793.9987       118023.0026       164660.0037       147587.9974       117845.0012       276442.9932       166587.9974         29       181395.9961       203988.9984       197826.9958       108748.0011       125972.9996       132671.9971       172876.9989       123777.9999       288233.0017       195384.0027         30       206876.0071       223416.0004       110382.0038       114029.9988       137714.9963       142768.0054       169975.9979       133291.0004       278475.0061       170160.9955	26	184380.0049	195358.0017	193533.9966	174399.0021	114785.0037	115732.0023	155522.995	154740.9973	113981.0028	151102.005	176770.0043
29       181395.9961       203988.9984       197826.9958       108748.0011       125972.9996       132671.9971       172876.9989       123777.9999       288233.0017       195384.0027         30       206876.0071       223416.0004       110382.0038       114029.9988       137714.9963       142768.0054       169975.9979       133291.0004       278475.0061       170160.9955	27	194000.0	206195.9991	210865.9973	98164.0015	83767.9977	127579.0024	159302.9938	165294.0063	130757.9956	275901.001	186389.0076
<b>30</b> 206876.0071 223416.0004 110382.0038 114029.9988 137714.9963 142768.0054 169975.9979 133291.0004 278475.0061 170160.9955	28	177972.0001	189645.0043	193154.007	256680.9998	103793.9987	118023.0026	164660.0037	147587.9974	117845.0012	276442.9932	166587.9974
	29		181395.9961	203988.9984	197826.9958	108748.0011	125972.9996	132671.9971	172876.9989	123777.9999	288233.0017	195384.0027
<b>31</b> 191973.999 120167.9993 146533.0048 129828.9948 115513.0005 180059.0057	30		206876.0071	223416.0004	110382.0038	114029.9988	137714.9963	142768.0054	169975.9979	133291.0004	278475.0061	170160.9955
	31		191973.999		120167.9993		146533.0048	129828.9948		115513.0005		180059.0057

Name of Attester

First Name: Wesley

Last Name: Henneberry

Company: Ontario Clean Water Agency

Date Certified/Submitted(yyyy/mm/dd): 2024/02/12