

# Renfrew Drinking Water System

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## 2017 Annual Water Report

Reporting period of January 1, 2017 – December 31, 2017

Prepared For: The Town of Renfrew

Prepared By:



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

This report has been prepared to satisfy the annual reporting requirements of  
Ontario Provincial Regulations and Guidelines

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## Report Availability

This system does not serve more than 10,000 residence and the annual reports will be available to residence at the Town of Renfrew Municipal Office. Notification will be at the Municipal Office and copies provided free of charge if requested.

The Town of Renfrew is located at:

127 Raglan St. S.  
Renfrew ON  
K7V 1P8

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

## Compliance Report Card

Drinking Water System Number:	<b>210001102</b>
System Owner:	<b>Town of Renfrew</b>
Operating Authority:	Ontario Clean Water Agency
Drinking Water System Category:	Large Municipal Residential
Reporting Period:	January 1, 2017 – December 31, 2017

Compliance Event	# of Events	Details
Ministry of Environment Inspections	1	Report received from November 23, 2017 Inspection on January 12, 2018 <ul style="list-style-type: none"> <li>Inspection Rating 95.77%</li> </ul>
Ministry of Labour Inspections	0	
QEMS External Audit	1	One (1) External On-Site Audit <ul style="list-style-type: none"> <li>No Non-Conformance</li> </ul>
AWQI's	2	<ul style="list-style-type: none"> <li>Filter Turbidity</li> <li>95% filter efficiency</li> </ul>
Non-Compliance	1	Missed sample
Community Complaints	0	Complaints are responded to by the Town of Renfrew staff
Spills	0	

## Quality Control Measures

The Town of Renfrew facilities are part of OCWA's operational Eastern Regional Hub. The facilities are supported by cluster, regional and corporate resources. Operational Services are delivered by OCWA staff that live and work in the community.

OCWA operates facilities in compliance with applicable regulations. The facility has comprehensive manuals detailing operations, maintenance, instrumentation, and emergency procedures. All procedures are treated as active documents, with annual reviews.

OCWA has additional "Value Added" and operational support services that the Town of Renfrew benefits from including:

- Access to a network of operational compliance and support experts at the regional and corporate level, as well as affiliated programs that include the following:
  - Quality & Environmental Management System, Occupational Health & Safety System and an internal compliance audit system.
  - Process Data Collection (PDC) facility operating information repository, which consolidates field data, online instrumentation, and electronic receipt of lab test results for reporting, tracking and analysis.
  - Work Management System (WMS) that tracks and reports maintenance activity, and creates predictive and preventative reports.
  - Outpost 5 wide-area SCADA system allows for process optimization and data logging, process trending, remote alarming and optimization of staff time.
- Client reporting which includes operational data, equipment inventory, financial statements, maintenance work orders, and capital status reports
- Site-Specific Contingency Plans and Standard Operating Procedures
- Use of accredited laboratories
- Additional support in response to unusual circumstances, and extra support in an emergency.
- Use of sampling schedules for external laboratory sampling

## System Process Description

### Raw Source

The source water for the Renfrew Drinking Water System (DWS) is the Bonnechere River. The low lift pumping station was constructed over the wet well, and is situated next to the Bonnechere River, across the street from the Renfrew DWS. The wet well is equipped with a bar screen. Water is drawn from the wet well and discharged into a raw water force main. Turbidity, pH and temperature meters have been installed at this point to collect raw water data.

### Treatment

Raw water is treated with coagulants and a coagulant aid. The powdered activated carbon (PAC) system is currently not in use. The water is directed to the flash mixers and then through the Actiflo treatment system, which consists of coagulation, flocculation and sedimentation assisted by tube settlers. Water is directed to three dual media (sand/anthracite) high-rate gravity filters. All three filters are connected to a common backwash system that includes filter-to-waste valving, backwash troughs and underdrain systems. The filters are equipped with one positive displacement air scour blower. Filtered water is treated with chlorine gas, hydrated lime and hydrofluorosilicic acid just prior to being directed to the clearwells. Two baffled clearwells are in use. Treated water is pumped from the clearwell to the distribution system.

There are two wastewater generating processes; filter backwashing and residuals from the Actiflo treatment system. Filter backwash effluent is directed to two settling tanks. The supernatant is discharged to the Bonnechere River via municipal storm sewer and the sludge is pumped to the municipal sanitary sewer. The residuals from the Actiflo treatment system are sent to a settling tank, where the supernatant is discharged by gravity to the Bonnechere River via municipal storm sewer, and the sludge is pumped for transport to the municipal sanitary sewer.

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

Chemical Name	Use	Supplier
PAS-8	Primary Coagulation	Kemira
Polymer	Coagulant Aid	BASF
Hydrated Lime	pH Adjustment	M & R Feeds (Sylvite)
Chlorine Gas	Disinfection	Brenntag
Hydrofluorosilic Acid	Fluoridation	Brenntag
Micro-Sand	Process	John Meunier

### Distribution System

The distribution for the Town of Renfrew serves a population of approximately 8000 residents. The system includes a 6820 m<sup>3</sup> capacity standpipe, complete with water remixing, located on O'Brian Road. The standpipe is operated by the OCWA.

## Summary of Non-Compliance

### Adverse Water Quality Incidents

AWQI #	Date	Legislation	Problem	Details	Corrective Action Taken
133247	02-Jun- 2017	O. Reg 170/03	Filter Turbidity	Filter turbidity greater than 1.0 NTU for over 15 minutes	Increased coagulate flow and set Filter #2 to backwash during event.
1337001	09-2017	O. Reg 170/03	Filter Efficiency less than 95%	Coagulant flow issues	Coagulant flow issues corrected.

### Non-Compliance

Legislation	requirement(s) system failed to meet	duration of the failure (i.e. date(s))	Corrective Action	Status
There were no non-compliances.				

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

There was one (1) inspection reports received during this reporting period.

- Report received from November 23, 2017 Inspection on January 12, 2018
  - Inspection Rating 95.77%

Legislation	requirement(s) system failed to meet	duration of the failure (i.e. date(s))	Corrective Action	Status
Ontario Regulation 170/03 or the Drinking Water Works Permit	Records did not indicate that the treatment equipment was operated in a manner that achieved the design capabilities required under Ontario Regulation 170/03 or a Drinking Water Works Permit and/or Municipal Drinking Water Licence issued under Part V of the SDWA at all times that water was being supplied to Consumers.	09-2017	The owner, operating authority and coagulant supplier shall continue their efforts to investigate causes and employ remediation's related to coagulant performance and its effects on the efficiency of the dosing equipment	No additional action required

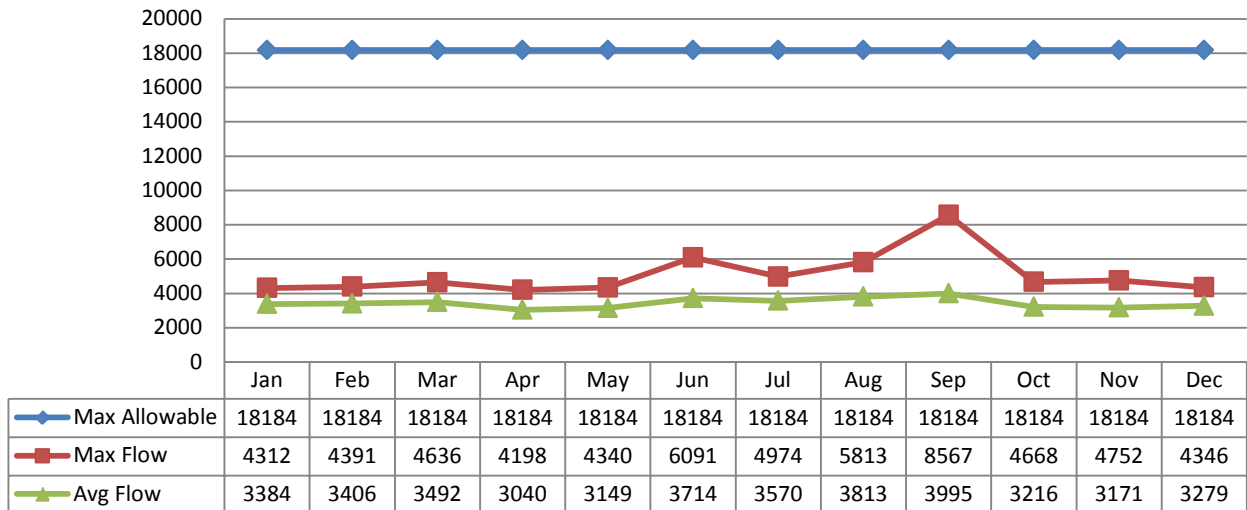
## Flows

The Renfrew Drinking Water System is operating on average under half the rated capacity.

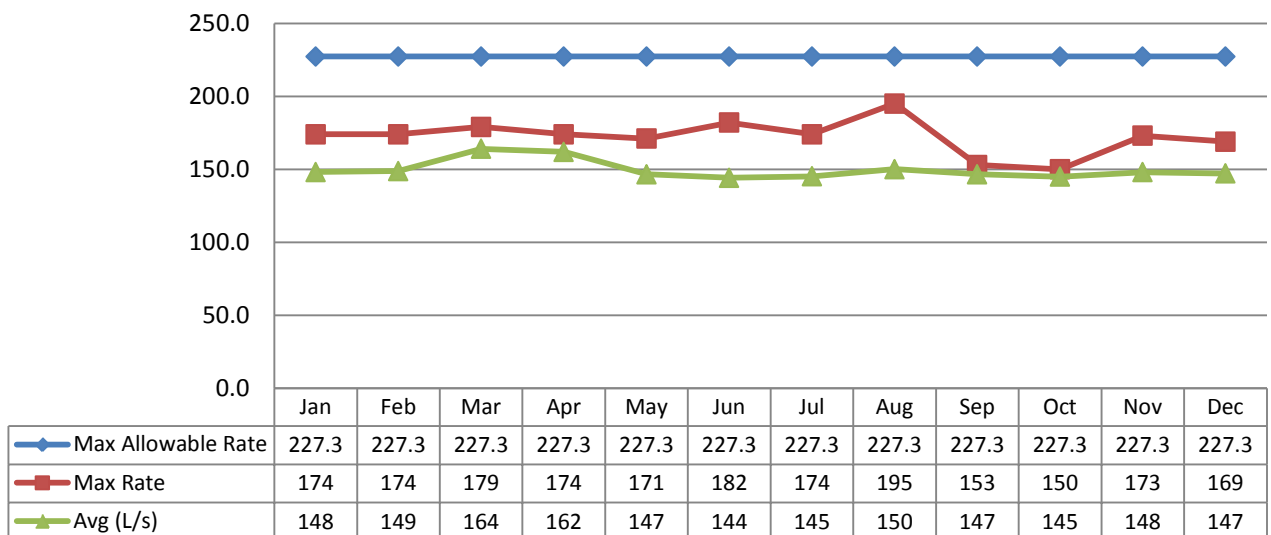
### Raw Water Flows

The Raw Water flows are regulated under the Permit to Take Water.

#### Monthly Total Flow Summary (m3/d)



#### Monthly Rate of Taking Summary (L/s)

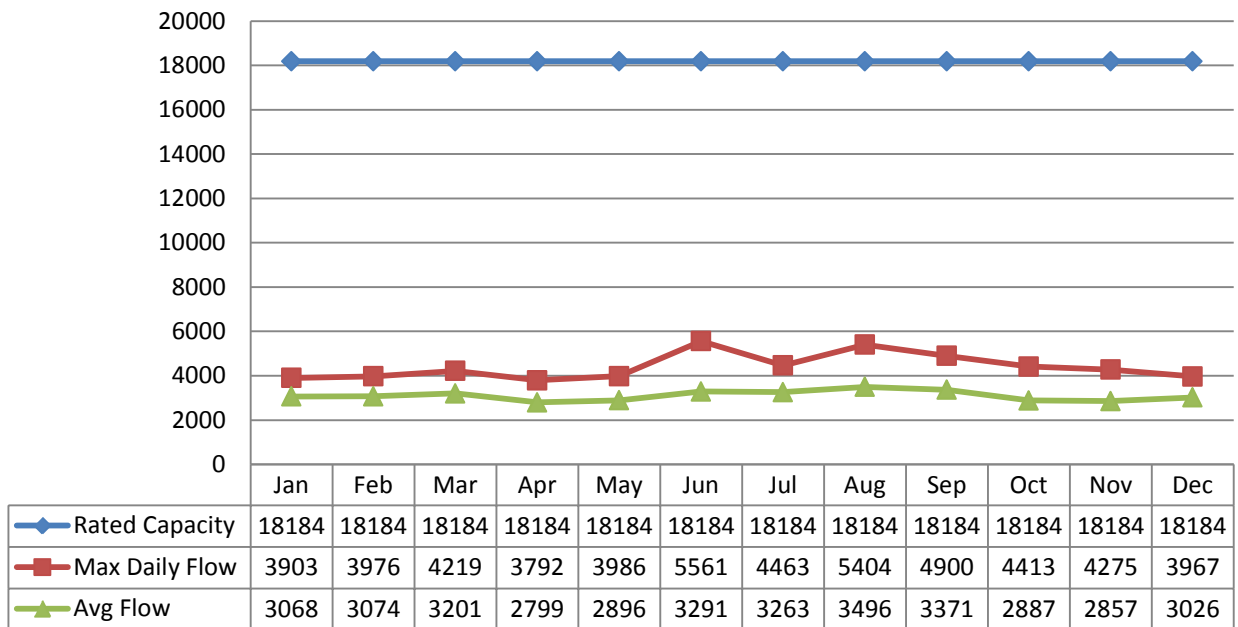




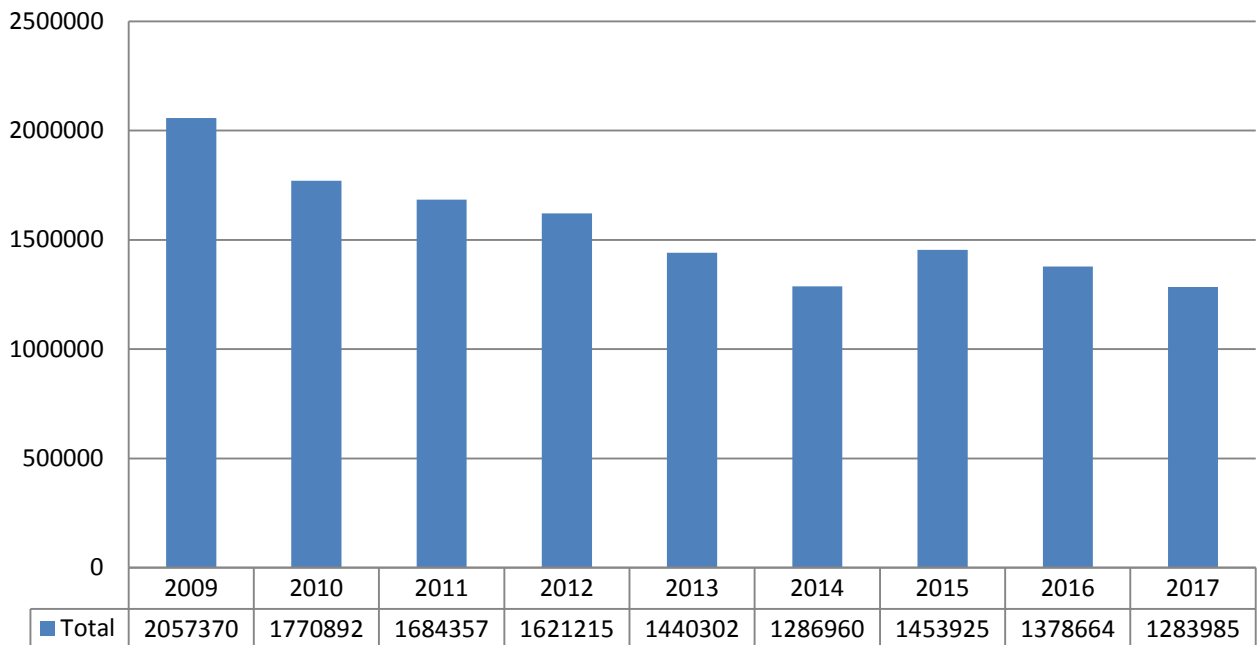
**Treated Water Flows**

The Treated Water flows are regulated under the Municipal Licence.

*Monthly Total Flow Summary (m3/d)*



*Annual Volume (m3/year)*



## Regulatory Sample Results Summary

### Microbiological Testing

	No. of Samples Collected	Range of E.Coli		Range of Total Coliform Results		Number of HPC Samples	Range of HPC Results	
		MIN	MAX	MIN	MAX		MIN	MAX
Raw Water	52	3	840	13	1460	0		
Treated Water	52	0	0	0	0	52	2	4
Distribution System	208	0	0	0	0	104	2	36

### Operational Testing

#### In-House

	No. of Samples Collected	Range of Results	
		Minimum	Maximum
Turbidity, In-House (NTU) - RW	99	1.84	75.1
Turbidity, In-House (NTU) - TW	92	0.12	0.68
Turbidity, On-Line (NTU) - Filt1	8760	0.0159	1.2
Turbidity, On-Line (NTU) - Filt2	8760	0.01	1.04
Turbidity, On-Line (NTU) - Filt3	8760	0	1.3
Free Chlorine Residual, On-Line (mg/L) - TW	8760	0.75	3.09
Free Chlorine Residual, In-House (mg/L) - TW	365	1.13	2.9
Free Chlorine Residual, TW Field (mg/L) Lab Upload - TW	53	1.37	2.6
Free Chlorine Residual, On-Line (mg/L) - DW	8760	0.349	2.20
Free Chlorine Residual, DW Field (mg/L) Lab Upload - DW	208	0.05	2.12
Fluoride Residual On-line (mg/L) - TW	8760	0	0.6802
Fluoride Residual IH (mg/L) - TW	138	0.33	0.77

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.

#### Laboratory

Parameter	# of grab samples taken	Range of Results (min # - max #)
<b>Raw Water</b>		
Alkalinity	12	54-108 mg/l
Colour	12	7-37 TCU
Dissolved Organic Carbon (DOC)	12	2.2-8.1 mg/L
Fluoride	12	0.1-0.2 mg/L
Iron	12	0.22-0.677 mg/L
Manganese	12	0.006-0.038

Parameter	# of grab samples taken	Range of Results (min # - max #)
pH	12	7.56-8.11
<b>Treated Water</b>		
Alkalinity	12	44-85 mg/L
Aluminum	12	30-110 ug/L
Colour	12	2-4 TCU
Conductivity	12	177-295
Dissolved Organic Carbon (DOC)	12	1.3-4.5 mg/L
Fluoride	12	0.3-0.7 mg/L
Iron	12	0.005-0.014 mg/L
Manganese	12	4.67-8.19 mg/L
pH	12	7.51 - 7.95
Hardness (as CaCO <sub>3</sub> )	12	74-125 mg/L

### Additional Legislated Samples

Legal Document	Date of Issuance	Parameter	Date Sampled	Result	Unit of measure
Municipal License 183-101 Issue #3	December 16, 2015	Actiflo Suspended Solids	Annual Avg.	15.75	mg/L
Municipal License 183-101 Issue #3	December 16, 2015	Backwash Effluent Suspended Solids	Annual Avg.	16.0	mg/L

### Inorganic Parameters

These parameters are tested annually as a requirement under 170/03. Sodium and Fluoride are required to be tested every 5 years. Nitrates are tested quarterly 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
- BDL = Below the laboratory detection level

	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
<b>TREATED WATER</b>					
Antimony: Sb (ug/L) - TW	2017/01/31	<MDL 0.1	6.0	No	No
Arsenic: As (ug/L) - TW	2017/01/31	0.2	25.0	No	No
Barium: Ba (ug/L) - TW	2017/01/31	29.0	1000.0	No	No
Boron: B (ug/L) - TW	2017/01/31	7.0	5000.0	No	No
Cadmium: Cd (ug/L) - TW	2017/01/31	<MDL 0.02	5.0	No	No
Chromium: Cr (ug/L) - TW	2017/01/31	<MDL 2.0	50.0	No	No
Mercury: Hg (ug/L) - TW	2017/01/31	<MDL 0.02	1.0	No	No
Selenium: Se (ug/L) - TW	2017/01/31	<MDL 1.0	50.0	No	No

	Sample Date (yyyy/mm/dd)	Sample Result	MAC	No. of Exceedances	
				MAC	1/2 MAC
Uranium: U (ug/L) - TW	2017/01/31	0.05	20.0	No	No
<b>Additional Inorganics</b>					
Fluoride (mg/L) - TW	2017/12/05	0.5	1.5	No	No
Nitrite (mg/L) - TW	2017/03/08	0.1	1.0	No	No
Nitrite (mg/L) - TW	2017/06/13	<MDL 0.1	1.0	No	No
Nitrite (mg/L) - TW	2017/09/05	<MDL 0.1	1.0	No	No
Nitrite (mg/L) - TW	2017/12/05	<MDL 0.1	1.0	No	No
Nitrate (mg/L) - TW	2017/03/08	0.5	10.0	No	No
Nitrate (mg/L) - TW	2017/06/13	<MDL 0.1	10.0	No	No
Nitrate (mg/L) - TW	2017/09/05	<MDL 0.1	10.0	No	No
Nitrate (mg/L) - TW	2017/12/05	0.2	10.0	No	No
Sodium: Na (mg/L) - TW	2016/01/12	15.2	20*	No	Yes

\*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 (Lead Sampling)

Sampling is completed by the Town of Renfrew.

#### Organic Parameters

These parameters are tested annually as a requirement 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.

	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Number of Exceedances	
				MAC	1/2 MAC
<b>Treated Water</b>					
Alachlor (ug/L) - TW	2017/01/31	<MDL 0.3	5.00	No	No
Azinphos-methyl (ug/L) - TW	2017/01/31	<MDL 1.0	20.00	No	No
Benzene (ug/L) - TW	2017/01/31	<MDL 0.5	1.00	No	No
Benzo(a)pyrene (ug/L) - TW	2017/01/31	<MDL 0.005	0.01	No	No
Bromoxynil (ug/L) - TW	2017/01/31	<MDL 0.3	5.00	No	No
Carbaryl (ug/L) - TW	2017/01/31	<MDL 3.0	90.00	No	No
Carbofuran (ug/L) - TW	2017/01/31	<MDL 1.0	90.00	No	No
Carbon Tetrachloride (ug/L) - TW	2017/01/31	<MDL 0.2	2.00	No	No
Chlorpyrifos (ug/L) - TW	2017/01/31	<MDL 0.5	90.00	No	No
Diazinon (ug/L) - TW	2017/01/31	<MDL 1.0	20.00	No	No
Dicamba (ug/L) - TW	2017/01/31	<MDL 5.0	120.00	No	No
1,2-Dichlorobenzene (ug/L) - TW	2017/01/31	<MDL 0.1	200.00	No	No

	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Number of Exceedances	
				MAC	1/2 MAC
1,4-Dichlorobenzene (ug/L) - TW	2017/01/31	<MDL 0.2	5.00	No	No
1,2-Dichloroethane (ug/L) - TW	2017/01/31	<MDL 0.1	5.00	No	No
Dichloromethane (Methylene Chloride) (ug/L) - TW	2017/01/31	<MDL 0.3	50.00	No	No
2,4-Dichlorophenol (ug/L) - TW	2017/01/31	<MDL 0.1	900.00	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW	2017/01/31	<MDL 5.0	100.00	No	No
Diclofop-methyl (ug/L) - TW	2017/01/31	<MDL 0.5	9.00	No	No
Dimethoate (ug/L) - TW	2017/01/31	<MDL 1.0	20.00	No	No
Diquat (ug/L) - TW	2017/01/31	<MDL 5.0	70.00	No	No
Diuron (ug/L) - TW	2017/01/31	<MDL 5.0	150.00	No	No
Glyphosate (ug/L) - TW	2017/01/31	<MDL 25.0	280.00	No	No
Malathion (ug/L) - TW	2017/01/31	<MDL 5.0	190.00	No	No
2-Methyl-4chlorophenoxyacetic Acid (MCPA)(ug/L) - TW	2017/01/31	10.0	N/A	N/A	N/A
Metolachlor (ug/L) - TW	2017/01/31	<MDL 3.0	50.00	No	No
Metribuzin (ug/L) - TW	2017/01/31	<MDL 3.0	80.00	No	No
Paraquat (ug/L) - TW	2017/01/31	<MDL 1.0	10.00	No	No
PCB (ug/L) - TW	2017/01/31	<MDL 0.05	3.00	No	No
Pentachlorophenol (ug/L) - TW	2017/01/31	<MDL 0.1	60.00	No	No
Phorate (ug/L) - TW	2017/01/31	<MDL 0.3	2.00	No	No
Picloram (ug/L) - TW	2017/01/31	<MDL 5.0	190.00	No	No
Prometryne (ug/L) - TW	2017/01/31	<MDL 0.1	1.00	No	No
Simazine (ug/L) - TW	2017/01/31	<MDL 0.5	10.00	No	No
Terbufos (ug/L) - TW	2017/01/31	<MDL 0.3	1.00	No	No
Tetrachloroethylene (ug/L) - TW	2017/01/31	<MDL 0.2	10.00	No	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW	2017/01/31	<MDL 0.1	100.00	No	No
Triallate (ug/L) - TW	2017/01/31	<MDL 10.0	230.00	No	No
Trichloroethylene (ug/L) - TW	2017/01/31	<MDL 0.1	5.00	No	No
2,4,6-Trichlorophenol (ug/L) - TW	2017/01/31	<MDL 0.1	5.00	No	No
Trifluralin (ug/L) - TW	2017/01/31	<MDL 0.5	45.00	No	No
Vinyl Chloride (ug/L) - TW	2017/01/31	<MDL 0.2	1.00	No	No
<b>Distribution Water</b>					
Trihalomethane: Total (ug/L) Annual Average - DW	2017	88.3	100.00	No	Yes

## Maintenance Summary

OCWA uses a risk-based preventative maintenance framework that ensures assets are maintained to manufacturer’s and/or industry standards. Maintenance is completed using various tools and operational supports. The Eastern Regional Hub has specialized certified staff such as Millwrights, Electricians and Instrumentation Specialists to name a few.

OCWA uses a Workplace Maintenance System (WMS). WMS is a maintenance tracking system that can generate work orders as well as give summaries of completed and scheduled work. During the year, the operating authority at the facility generates scheduled work orders on a weekly, monthly and annual basis. The service work is recorded in the work order history. This ensures routine and preventive maintenance is carried out. Emergency and capital repair maintenance is completed and added to the system.

Capital projects are listed and provided to the Town of Renfrew in the form of a “Capital Forecast”. This list is developed by facility staff and provides recommendations for facility components requiring upgrading or improvement.

### Facility Maintenance Highlights

WO#	Details
507682	Window Cleaning
288161	Annual Flow Meter Verifications
288167	Alarm Cellular Backup
316374	SCADA Device Net Failure
316556 344670	External Audit - DWQMS
345218	SCADA work
345229	Coagulant pump 01 VFD Failure
439716	Stand Pipe communication
440651	Low lift communication failed
507681	Floor cleaning
243196	Blanket Items under \$200
578426	Coagulant tank 2 & 3 cleanout
438506	Heater motors
288159	Deferred Capital Front Entrance Handrail
265031	Boiler 1 Annual inspection and HVAC
346462	Cl room louvre fail
345427	Heat Exchanger Motor Failure
241785	Heater fan replacements
407929	lime feed motor fail
541915	Coagulant Pump Motor Failure
264454	Coagulant Pump

<b>WO#</b>	<b>Details</b>
377878	Coagulant VFD Repair
471449	Coagulant Pump 1 Motor Fail
580817	Coagulant header rebuild
264450	Chlorination Annual inspections
579064	Level transmitter filter 1
345615	Polymer pump replacement
345639	Poly pump 3
440615	Lowlift pump 2 motor starter
243144	SCADA loss of communication to Low Lift
439390	SCADA HL Pump Controls
439391	Water Tower Phone Line Repair

## QEMS

The Ontario Clean Water Agency has received Full scope accreditation. There was an on-site audit completed. There were no non-conformances identified. The Internal Audit and Management Review were completed. Minutes from the Management Review were provided to the Town.

## Water Taking and Transfer Data

2017 Data was submitted electronically on February 17, 2018 under permit #8088-9AXJ6C. The confirmation and a copy of the data that was submitted are attached in Appendix A.

# Appendix A

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## WTRS Data and Submission Confirmation

17/02/2018

Water Taking Reporting System



Location: [WTRS](#) / [WT DATA](#) / [Input WT Record](#)

WTRS-WT-008

**Water Taking Data submitted successfully.**

**Confirmation:**

Thank you for submitting your water taking data online.

Permit Number: 8088-9AXJ6C  
Permit Holder: THE CORPORATION OF THE TOWN OF RENFREW.  
Received on: Feb 17, 2018 4:03 PM

This confirmation indicates that your data has been received by the Ministry, but should not be construed as acceptance of this data if it differs from that specified on the Permit Number, assigned to the Permit Holder stated above.

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TOWN2 RENFREW2 | 2018/02/17  
version: v4.5.0.8 (build#: 18)  
Last modified: 2018/01/11



January	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	
	3829	3465	2655	3589	2927	3444	4128	2044	3836	4167	2193	3800	3824	2293	3876	
	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>
	3596	4078	2410	3628	3554	3987	2823	2887	4070	2693	3930	4060	2081	3907	4312	2832
February	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	
	2822	3620	3651	4391	2256	3480	3402	3823	3872	2320	3517	3748	3779	2825	3682	
	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>
	3974	2980	2730	3877	4130	3212	2382	3837	3328	3978	3173	3165	3418			
March	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	
	4440	2284	3664	3677	4138	2184	4636	2411	4262	3000	3807	4007	2704	3065	3755	
	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>
	3498	3392	3790	4048	3723	3499	3437	2413	3506	3821	3951	3708	2733	3253	3007	4433
April	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	
	1936	3744	2797	3209	3244	3526	2421	3398	3659	2855	2529	3066	3699	1957	3576	
	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>
	1844	3032	4036	2123	3128	2885	3715	2008	3622	4198	3066	1924	3511	3975	2527	
May	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	
	2369	3493	3289	3294	2765	2771	2710	2875	4074	2171	3717	3803	1971	3753	3405	
	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>
	3676	1934	4340	2007	3351	3164	3553	3537	3261	2120	3349	4212	2162	4172	3478	2832
June	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	
	3668	3779	1987	3517	4868	4662	3639	3145	3793	2313	4318	3992	6091	4292	3000	
	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>
	3527	2616	3689	4718	3019	3744	4075	2388	3298	3309	5091	2474	4766	3352	4288	

July	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	
	2708	3038	3405	4875	3051	3739	3493	3192	3769	4791	4974	2211	3411	3596	4127	
	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>
	2022	4788	3242	4047	3665	4081	2761	4069	4480	3556	2878	3456	4037	1962	3907	3324
August	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	
	4648	3434	2184	3753	3047	3626	2515	4850	4102	3924	2326	4311	2424	3995	5114	
	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>
	3574	4516	2868	3640	4148	3113	5813	3690	4573	4311	4039	3228	4263	3867	2555	5756
September	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	
	4581	4350	4270	4625	4299	8567	4564	3100	4087	4069	4811	3153	2604	3474	2509	
	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>
	4285	2347	4109	3493	5505	4957	2623	3978	3971	2495	4567	4042	4420	2066	3939	
October	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	
	3286	4066	3457	2013	3375	3251	3867	2163	3550	4254	3549	3995	1798	3484	3810	
	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>
	2327	4668	2194	3367	3951	1967	3579	2175	3595	3355	2914	3050	2739	3448	3238	3226
November	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	
	3634	3285	2634	2686	2667	4752	2734	3420	2727	2855	3209	3419	2544	3228	3409	
	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>
	3634	3285	2634	2686	2667	4752	2734	3420	2727	2855	3209	3419	2544	3228	3409	
December	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>	<b>13</b>	<b>14</b>	<b>15</b>	
	3634	3285	2634	2686	2667	4752	2734	3420	2727	2855	3209	3419	2544	3228	3409	
	<b>16</b>	<b>17</b>	<b>18</b>	<b>19</b>	<b>20</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>24</b>	<b>25</b>	<b>26</b>	<b>27</b>	<b>28</b>	<b>29</b>	<b>30</b>	<b>31</b>
	3768	3445	2078	4346	3277	2902	3625	3647	3277	2462	3541	3962	3445	3243	3685	2870