# Deep River Drinking Water System

Waterworks # 220000923 System Category – Large Municipal Residential

# **Annual Water Report**

Prepared For: Town of Deep River

Reporting Period of January 1st – December 31st, 2021

Issued: Feb 25th, 2022

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 <u>not</u> serve more than 10,000 residence and the annual reports will be available to residents at the Towns of Deep River Municipal Office. Notification will be at the Municipal Office and copies provided free of charge, if requested. The Town of Deep River office is located at 100 Deep River Road in Deep River, ON.

## **Compliance Report Card**

Compliance Event	# of Events
Ministry of the Environment, Parks and Conservation (MECP) Inspections	Nov 18, 2021 – received 100% (2021-2021 Inspection Period).
Ministry of Labour Inspections	There were no inspections during the reporting period.
QEMS External Audit	Re Accreditation Audit (On-Site Audit)  Completed on Oct 18, 2021 – No non-conformances were identified; Five (5) OFI's identified; Accreditation obtained.
AWQI's	There were no AWQI's reported during the reporting period.
Non-Compliance	There were no non-compliances reported during the reporting period.
Community Complaints	One (1)
Spills	There were no spills reported during the reporting period.
Water Main Breaks	Six (6)

## **System Process Description**

#### **Raw Source**

Raw water source for the Deep River Drinking Water System is the Ottawa River. The water is drawn from the lake using low lift pumps and transferred to the water treatment plant, uphill from the low lift station. In November 2019, the distribution line from the Town of Deep River water tower started to send water to the Chalk Nuclear Laboratories (CNL) reservoir on their federal land jurisdiction.

#### **Treatment**

The Deep River Water Treatment Plant is a surface water plant utilizing the Actiflo process. The plant has three Actiflo units that provide coagulation, flocculation and sedimentation. Coagulant and polymer are added in the Actiflo process. Filtration is provided by dual media filters. Post disinfection is provided using chlorine gas. pH is adjusted both before the Actiflo process, and as the treated water enters the distribution system.

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

Chemical Name	Use	Supplier
PAX-XL6	Coagulant	Kemira
Fluoride	Fluoridation	Brenntag
Chlorine Gas	Disinfection	Brenntag
Caustic Soda	pH Adjustment	Sodrox
Magnafloc LT27AG	Polymer – Actiflo's	Solenis
Zetag 8140	Polymer - Lamella Clarifier & Centrifuge Process	Solenis
Silica Sand	Actiflo Process	Veolia

#### **Distribution**

The distribution system consists of various piping, one (1) tower and one (1) booster pumping station. The system consists of approx. 38 km of water mains, 1 864 service connections, 245 fire hydrants, and 21 dead ends. The water mains are constructed mainly of cast iron and polyvinyl chloride (PVC) pipes ranging from 40 mm (1.5 inches) to 400 mm (16 inches). Consumers are not provided with individual water meters.

## **Summary of Non-Compliance**

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

Date	AWQI#	Locatio n	Problem	Details	Legislation	Corrective Action Taken	
There were no AWQI's reported during this reporting period.							

#### **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 reported during this reporting period.				

#### 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
There were		ived in the 2020-2021 ir ompliance rating for this	nspection report. The Deep F s inspection period.	liver DWS

#### **Flows**

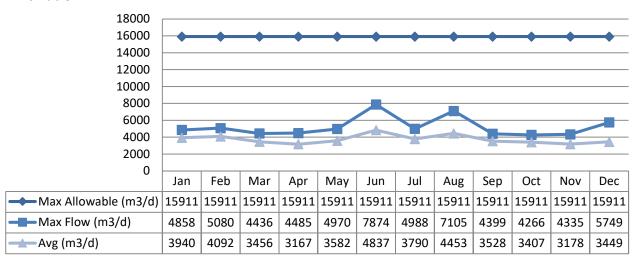
In 2021, the average day flow was at approximately 22.5% of the current plant design for the Deep River Drinking Water System, and the maximum day flow was at approximately 38.6% of the plant design of  $13.638 \, \text{m}^3/\text{d}$ .

#### **Raw Water Flows**

The Raw Water flows are regulated under the Permit to Take Water. 2021 Raw Flow Data was submitted to the Ministry electronically under permit #8528-9ECQPJ. The confirmation and a copy of the data that was submitted are attached in Appendix A.

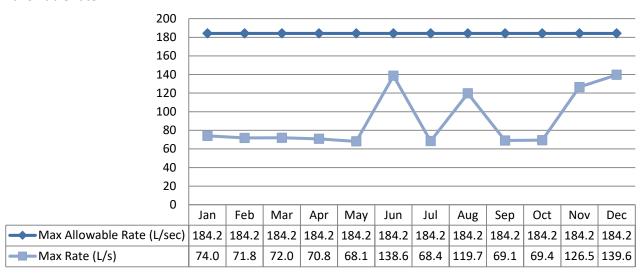
#### Total Monthly Flows (m3/d)

#### Max Allowable PTTW



#### Monthly Rated Flows (L/s)

#### Max allowable rate - PTTW

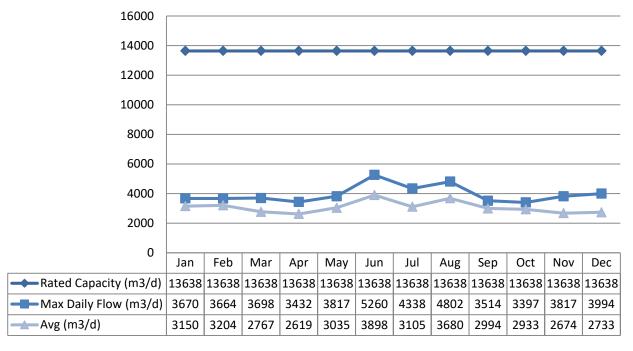


#### **Treated Water Flows**

The Treated Water flows are regulated under the Municipal Licence.

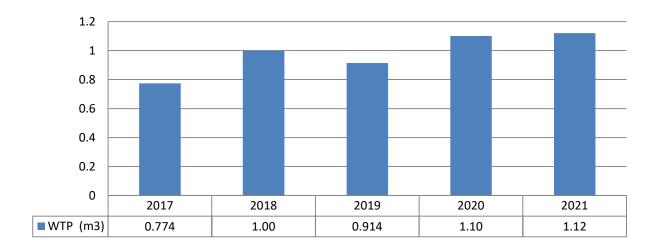
#### **Monthly Rated Flows**

Rated Capacity - MDWL



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

Total Annual m3(x 10<sup>6</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	No. of Samples	Min	Max
Raw Water	52	0	5	0	27			
Treated Water	52	0	0	0	0	52	0	2
Distribution Water	257	0	0	0	0	141	0	64

#### **Operational Testing**

	No. of Samples	Range of	Results
	Collected	Minimum	Maximum
Turbidity, In-House (NTU) - RW	52	0.91	7.89
Turbidity, In-House (NTU) - TW	53	0.11	0.29
Turbidity, In-House (NTU) - Filt1	47	0.10	0.34
Turbidity, On-Line (NTU) - Filt1	8760	0	0.99
Turbidity, In-House (NTU) - Filt2	47	0.10	0.34
Turbidity, On-Line (NTU) - Filt2	8760	0	0.29
Turbidity, In-House (NTU) - Filt3	45	0.09	0.28
Turbidity, On-Line (NTU) - Filt3	8760	0	0.26
Free Chlorine Residual, On-Line (mg/L) - TW	8760	0	5.0
Free Chlorine Residual, In-House (mg/L) - TW	243	1.36	3.59
Total Chlorine Residual, In-House (mg/L) - TW	243	1.62	3.78
Free Chlorine Residual, In-House (mg/L) – DW, DW1-DW4	349	0.08	3.29
Fluoride Residual, In-House (mg/L) - TW	226	0.12	0.85
Fluoride Residual, On-Line (mg/L) - TW	8760	0	1.64

NOTE: Spikes /Drops to zero 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 5 years. Nitrate and Nitrite are tested quarterly and the metals are tested annually, as required 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.

- MAC = Maximum Allowable Concentration as per O. Reg. 169/03
- BDL = Below the laboratory detection level

	Sample Date	Pate Sample Result MAC No. of E		ceedances	
	(yyyy/mm/dd)	Sample Result	IVIAC	MAC	1/2 MAC
Treated Water					
Antimony: Sb (ug/L) - TW	2021/01/12	<mdl 0.5<="" td=""><td>6.0</td><td>No</td><td>No</td></mdl>	6.0	No	No
Arsenic: As (ug/L) - TW	2021/01/12	<mdl 1.0<="" td=""><td>10.0</td><td>No</td><td>No</td></mdl>	10.0	No	No
Barium: Ba (ug/L) - TW	2021/01/12	<mdl 10.0<="" td=""><td>1000.0</td><td>No</td><td>No</td></mdl>	1000.0	No	No
Boron: B (ug/L) - TW	2021/01/12	<mdl 10.0<="" td=""><td>5000.0</td><td>No</td><td>No</td></mdl>	5000.0	No	No

	Sample Date	Committee Doorship		No. of Ex	ceedances
	(yyyy/mm/dd)	Sample Result	DL 0.1 5.0 No 2.0 50.0 No DL 0.1 1.0 No DL 1.0 50.0 No DL 1.0 20.0 No DL 1.0 1.5 No DL 0.1 1.0 No	MAC	1/2 MAC
Cadmium: Cd (ug/L) - TW	2021/01/12	<mdl 0.1<="" td=""><td>5.0</td><td>No</td><td>No</td></mdl>	5.0	No	No
Chromium: Cr (ug/L) - TW	2021/01/12	2.0	50.0	No	No
Mercury: Hg (ug/L) - TW	2021/01/12	<mdl 0.1<="" td=""><td>1.0</td><td>No</td><td>No</td></mdl>	1.0	No	No
Selenium: Se (ug/L) - TW	2021/01/12	<mdl 1.0<="" td=""><td>50.0</td><td>No</td><td>No</td></mdl>	50.0	No	No
Uranium: U (ug/L) - TW	2021/01/12	<mdl 1.0<="" td=""><td>20.0</td><td>No</td><td>No</td></mdl>	20.0	No	No
Additional Inorganics					
Fluoride (mg/L) - TW	2021/12/07	0.64	1.5	No	No
Nitrite (mg/L) - TW	2021/01/12	<mdl 0.1<="" td=""><td>1.0</td><td>No</td><td>No</td></mdl>	1.0	No	No
Nitrite (mg/L) - TW	2021/04/06	<mdl 0.1<="" td=""><td>1.0</td><td>No</td><td>No</td></mdl>	1.0	No	No
Nitrite (mg/L) - TW	2021/07/13	<mdl 0.1<="" td=""><td>1.0</td><td>No</td><td>No</td></mdl>	1.0	No	No
Nitrite (mg/L) - TW	2021/10/05	<mdl 0.1<="" td=""><td>1.0</td><td>No</td><td>No</td></mdl>	1.0	No	No
Nitrate (mg/L) - TW	2021/01/12	0.26	10.0	No	No
Nitrate (mg/L) - TW	2021/04/06	0.18	10.0	No	No
Nitrate (mg/L) - TW	2021/07/13	0.13	10.0	No	No
Nitrate (mg/L) - TW	2021/10/05	0.2	10.0	No	No
Sodium: Na (mg/L) - TW	2018/03/14	19.0	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 the plumbing exemption therefore, hydrant samples only were collected. (\*Lead will be sampled again in 2024 – every 3 years)

Distribution System	Number of Sampling	Number of Samples	Range	of Results	MAC	Number of	
Distribution system	Points	realiser of samples	Minimum	Maximum	(mg/L)	Exceedances	
Alkalinity (mg/L)	3	6	16	26	500	0	
рH	3	6	8.26	8.97	8.5	3	
Lead (mg/L)	3	6	<0.001	<0.001	0.01	0	

#### **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 Result	MAC		nber of edances
	(yyyy/mm/dd)	·		MAC	1/2 MAC
Treated Water					
Alachlor (ug/L) - TW	2021/01/12	<mdl 0.5<="" td=""><td>5.00</td><td>No</td><td>No</td></mdl>	5.00	No	No
Atrazine + N-dealkylated metabolites (ug/L) - TW	2021/01/12	<mdl 1.0<="" td=""><td>5.00</td><td>No</td><td>No</td></mdl>	5.00	No	No
Azinphos-methyl (ug/L) - TW	2021/01/12	<mdl 2.0<="" td=""><td>20.00</td><td>No</td><td>No</td></mdl>	20.00	No	No
Benzene (ug/L) - TW	2021/01/12	<mdl 0.5<="" td=""><td>1.0</td><td>No</td><td>No</td></mdl>	1.0	No	No
Benzo(a)pyrene (ug/L) - TW	2021/01/12	<mdl 0.01<="" td=""><td>0.01</td><td>No</td><td>Yes*</td></mdl>	0.01	No	Yes*

	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Number of Exceedances	
	(yyyy/mm/dd)			MAC	1/2 MAC
Bromoxynil (ug/L) - TW	2021/01/12	<mdl 0.5<="" td=""><td>5.00</td><td>No</td><td>No</td></mdl>	5.00	No	No
Carbaryl (ug/L) - TW	2021/01/12	<mdl 5.0<="" td=""><td>90.00</td><td>No</td><td>No</td></mdl>	90.00	No	No
Carbofuran (ug/L) - TW	2021/01/12	<mdl 5.0<="" td=""><td>90.00</td><td>No</td><td>No</td></mdl>	90.00	No	No
Carbon Tetrachloride (ug/L) - TW	2021/01/12	<mdl 0.2<="" td=""><td>2.00</td><td>No</td><td>No</td></mdl>	2.00	No	No
Chlorpyrifos (ug/L) - TW	2021/01/12	<mdl 1.0<="" td=""><td>90.00</td><td>No</td><td>No</td></mdl>	90.00	No	No
Diazinon (ug/L) - TW	2021/01/12	<mdl 1.0<="" td=""><td>20.00</td><td>No</td><td>No</td></mdl>	20.00	No	No
Dicamba (ug/L) - TW	2021/01/12	<mdl 1.0<="" td=""><td>120.00</td><td>No</td><td>No</td></mdl>	120.00	No	No
1,2-Dichlorobenzene (ug/L) - TW	2021/01/12	<mdl 0.4<="" td=""><td>200.00</td><td>No</td><td>No</td></mdl>	200.00	No	No
1,4-Dichlorobenzene (ug/L) - TW	2021/01/12	<mdl 0.4<="" td=""><td>5.00</td><td>No</td><td>No</td></mdl>	5.00	No	No
1,2-Dichloroethane (ug/L) - TW	2021/01/12	<mdl 0.2<="" td=""><td>5.00</td><td>No</td><td>No</td></mdl>	5.00	No	No
1,1-Dichloroethylene (ug/L) - TW	2021/01/12	<mdl 0.5<="" td=""><td>14.00</td><td>No</td><td>No</td></mdl>	14.00	No	No
Dichloromethane (Methylene Chloride) (ug/L) - TW	2021/01/12	<mdl 4.0<="" td=""><td>50.00</td><td>No</td><td>No</td></mdl>	50.00	No	No
2,4-Dichlorophenol (ug/L) - TW	2021/01/12	<mdl 1.0<="" td=""><td>900.00</td><td>No</td><td>No</td></mdl>	900.00	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW	2021/01/12	<mdl 1.0<="" td=""><td>100.00</td><td>No</td><td>No</td></mdl>	100.00	No	No
Diclofop-methyl (ug/L) - TW	2021/01/12	<mdl 0.9<="" td=""><td>9.00</td><td>No</td><td>No</td></mdl>	9.00	No	No
Dimethoate (ug/L) - TW	2021/01/12	<mdl 2.5<="" td=""><td>20.00</td><td>No</td><td>No</td></mdl>	20.00	No	No
Diquat (ug/L) - TW	2021/01/12	<mdl 5.0<="" td=""><td>70.00</td><td>No</td><td>No</td></mdl>	70.00	No	No
Diuron (ug/L) - TW	2021/01/12	<mdl 10.0<="" td=""><td>150.00</td><td>No</td><td>No</td></mdl>	150.00	No	No
Glyphosate (ug/L) - TW	2021/01/12	<mdl 10.0<="" td=""><td>280.00</td><td>No</td><td>No</td></mdl>	280.00	No	No
Malathion (ug/L) - TW	2021/01/12	<mdl 0.5<="" td=""><td>190.00</td><td>No</td><td>No</td></mdl>	190.00	No	No
2-Methyl-4-chlorophenoxyacetic acid (MCPA) (ug/L) - TW	2021/01/12	<mdl 10.0<="" td=""><td>100.00</td><td>No</td><td>No</td></mdl>	100.00	No	No
Metolachlor (ug/L) - TW	2021/01/12	<mdl 1.0<="" td=""><td>50.00</td><td>No</td><td>No</td></mdl>	50.00	No	No
Metribuzin (ug/L) - TW	2021/01/12	<mdl 5.0<="" td=""><td>80.00</td><td>No</td><td>No</td></mdl>	80.00	No	No
Monochlorobenzene (Chlorobenzene) (ug/L) - TW	2021/01/12	<mdl 0.5<="" td=""><td>80.00</td><td>No</td><td>No</td></mdl>	80.00	No	No
Paraquat (ug/L) - TW	2021/01/12	<mdl 1.0<="" td=""><td>10.00</td><td>No</td><td>No</td></mdl>	10.00	No	No
PCB (ug/L) - TW	2021/01/12	<mdl 0.1<="" td=""><td>3.0</td><td>No</td><td>No</td></mdl>	3.0	No	No
Pentachlorophenol (ug/L) - TW	2021/01/12	<mdl 1.0<="" td=""><td>60.0</td><td>No</td><td>No</td></mdl>	60.0	No	No
Phorate (ug/L) - TW	2021/01/12	<mdl 0.5<="" td=""><td>2.0</td><td>No</td><td>No</td></mdl>	2.0	No	No
Picloram (ug/L) - TW	2021/01/12	<mdl 5.0<="" td=""><td>190.00</td><td>No</td><td>No</td></mdl>	190.00	No	No
Prometryne (ug/L) - TW	2021/01/12	<mdl 0.25<="" td=""><td>1.00</td><td>No</td><td>No</td></mdl>	1.00	No	No
Simazine (ug/L) - TW	2021/01/12	<mdl 1.0<="" td=""><td>10.00</td><td>No</td><td>No</td></mdl>	10.00	No	No
Terbufos (ug/L) - TW	2021/01/12	<mdl 0.4<="" td=""><td>1.00</td><td>No</td><td>No</td></mdl>	1.00	No	No
Tetrachloroethylene (ug/L) - TW	2021/01/12	<mdl 0.3<="" td=""><td>10.00</td><td>No</td><td>No</td></mdl>	10.00	No	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW	2021/01/12	<mdl 1.0<="" td=""><td>100.00</td><td>No</td><td>No</td></mdl>	100.00	No	No
Triallate (ug/L) - TW	2021/01/12	<mdl 1.0<="" td=""><td>230.00</td><td>No</td><td>No</td></mdl>	230.00	No	No
Trichloroethylene (ug/L) - TW	2021/01/12	<mdl 0.3<="" td=""><td>5.00</td><td>No</td><td>No</td></mdl>	5.00	No	No
2,4,6-Trichlorophenol (ug/L) - TW	2021/01/12	<mdl 1.0<="" td=""><td>5.00</td><td>No</td><td>No</td></mdl>	5.00	No	No
Trifluralin (ug/L) - TW	2021/01/12	<mdl 1.0<="" td=""><td>45.00</td><td>No</td><td>No</td></mdl>	45.00	No	No
Vinyl Chloride (ug/L) - TW	2021/01/12	<mdl 0.2<="" td=""><td>1.00</td><td>No</td><td>No</td></mdl>	1.00	No	No
Distribution Water					

	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Number of Exceedances	
	(уууу/ппп/аа)			MAC	1/2 MAC
Trihalomethane: Total (ug/L) Running Annual	2021	99.99	100.00	No	Yes
Average (RAA) - DW					
HAA: Total (ug/L) Running Annual Average (RAA) -	2021	62.03	80.0	No	Yes
DW					

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

## **Additional Legislated Samples**

Legislation	Sample	Parameter	Date	Range Results	MAC
MDWL	Backwash Effluent	Suspended Solids	2021	<2 mg/L - <9 mg/L	
			Annual Average	4.8 mg/L	25 mg/L

## **Major Maintenance Summary (Capital)**

WO #	Description
2363554	<ul> <li>Calibration of the flow meters at the booster pumping station and meter pit.</li> </ul>
2362002	Replacement for the clear well chlorinator.
2453805	Calibration of 3 flow meters at the water plant.
2130226	<ul> <li>Costs associated with an assessment and evaluation of alternatives to minimize the DBP formation based on CNL's current operating conditions and existing drinking water system.</li> </ul>
2091105	<ul> <li>Miscellaneous purchases of equipment and supplies for the O &amp; M of the water plant.</li> </ul>
2451259	<ul> <li>Removal of sand from the channel that feeds water to the filters from the actiflo's.</li> </ul>
2315436	<ul> <li>Purchase of CL17 preventative maintenance kits and reagents for the CNL waterline.</li> </ul>
2093445	Service work completed on the generator.
2581523	Water plant generator emergency service call by Galpower.
2177160	Replacement of the filter to clear well pipe and spool assembly by Harrington Mechanical.
2452033	Replacement of Prominent raw water caustic soda pump.
2094169	Replacement of the CNL reservoir effluent flow meter .
2542964	Cost for calibration of CNL flow meter.

<sup>\*</sup>BDL = Below the laboratory detection level

2501914	<ul> <li>Replacement of colorimeter assembly for the CL17 chlorine analyzer for the CNL section 2 replacement.</li> </ul>
2540895	<ul> <li>Costs for CNL section 2 chlorine analyzer reagents.</li> </ul>
2317108	<ul> <li>Costs for Capitol Controls to troubleshoot the communication problems between the CNL reservoir and booster pumping station, and the alarms also affected by this issue.</li> </ul>
2091108	Replacement of the Limitorque analog circuit board.
2130908	Replacement of three Swan turbidity meters.
2315443	Replacement of Limitorque actuator for filter #2.
2363346	Purchase of a spare filter actuator.
2174417	<ul> <li>Replacement of two Sigma Prominent metering actiflo polymer pumps.</li> </ul>
2174563	Purchase of two Prominent caustic soda metering pump repair kits.
2093279	Replacement of the PLC processor unit.
2174420	<ul> <li>Costs associated with Bell Canada's service work after the switch gear replacement caused by the fire.</li> </ul>
2361744	Costs for centrifuge troubleshooting and repairs.
2500636	Replacement of the decanter controller.
2503436/2542992	<ul> <li>Costs for Ranger Septic to remove sludge from centrifuge tank and deliver to sewage plant holding tank.</li> </ul>

## **Distribution Maintenance**

Date	Location Reference	Details
2021	Various Locations	Forty (40) Water Turn Off/On for Service Repairs
2021	Various Locations	Seasonal Flushing – Spring was completed between April 19- May 17; Fall was completed between Oct 18-Nov 10
2021	Various Locations	Winterized Hydrants – completed by Nov 16
2021	Six (6) Locations – Yacht Club, 55 Poplar, Faraday, 17 Lasalle, Troyes Avenue, JL Gray	Broken Water Mains – Feb 11, Feb 23, Mar 14, Nov 2, Nov 15, Dec 21
2021	Various Locations	Three (3) Emergency Shut Offs - Residential
2021	Newton Crescent	One (1) Community Complaint – discoloured water

# **Appendix A**

**WTRS Data and Submission Confirmation** 



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: 8528-9ECQPJ
Permit Holder: THE CORPORATION OF THE TOWN OF DEEP RIVER.

Received on: Feb 10, 2022 3:17 PM

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