

November 2018

**Monthly Summary Report
Water Systems**

**Prepared by: Randy White, ORO
Senior Water Treatment Plant Operator**

Dated: December 6, 2018

1) **Introduction:**

This report contains the major maintenance activities and operational events that occurred during the month of November 2018 at the Water Treatment Plant - Water Works # 220000978 and the Airport Groundwater Well Water Works No. 849N7DGE0 (Precedes Airport Groundwater Well Water Works No. 26002736). This information report has been prepared for Council to better understand how the water systems they own and operate are maintained on a monthly basis. Also, this report will assist Council as Directors of the Corporation in exercising its obligation to meet a reasonable Standard of Care as outlined in Section 19 of the Safe Drinking Water Act. The water treatment plant falls under the requirements of Ontario Regulation 170/03 – Drinking Water Systems.

The Airport Small Drinking Water System, System No. 849N7DGE0, was put into service August 01, 2017. The system falls under the requirements of Ontario Regulation 319/08 – Small Drinking Water Systems.

2) **Flow Data:**

Water Treatment Plant: See attached spreadsheet.

Airport Groundwater Well :

Estimated Daily Usage	0.21 m3
Estimated November Usage	6.3 m3

3) **Microbiological (Health Related) Water Analysis - Main Water System No. 220000978:**

Water Treatment Plant (treated): 4 samples taken no adverse results

Water Treatment Plant (raw): 4 samples taken no adverse results

Water Distribution System: 16 samples taken where 25% of samples were tested for heterotrophic plate count (HPC) - no adverse results.

We take microbiological samples on a weekly basis, which includes 1 raw sample, 1 treated sample and 4 distribution samples. The 4 distribution samples are taken at different locations throughout the distribution system.

Water distribution samples taken at the following locations:

1. 1111 First St. E.	2. 1104 Church St	3. 901 Wright Ave.	4. W. Tower
5. 740 Scott St.	6. 1036 Victoria Ave.	7. 901 Wright Ave.	8. W. Tower
9. 740 Scott St.	10. 320 Portage Ave.	11. 901 Wright Ave.	12. W. Tower
13. 1111 First St. E.	14. 1104 Church St.	15. 740 Scott St.	16. W. Tower

4) Microbiological (Health Related) Water Analysis - Airport Groundwater Well No. 849N7DGE0:

New drinking water system put on line August 01, 2017. No treatment required as the Airport groundwater tested negative for bacteria.

The Airport drinking water system is to be sampled and tested for bacteria once every three (3) months in accordance with Section 25 – Microbiological Sampling and Testing of the Small Drinking Water Systems Regulation, O. Reg. 319/08.

Water distribution sample taken April 10, 2018 – no adverse results.

5) Free Available Chlorine Residual (FAC) - Main Water System No. 220000978:

FAC residuals are taken at a minimum daily at both the Water Treatment Plant and within the Water Distribution System.

6) Free Available Chlorine Residual (FAC) - Airport Groundwater Well System No. 849N7DGE0:

New drinking water system put on line August 01, 2017. No treatment required as the Airport groundwater well tested negative for bacteria.

7) Maintenance Activities at the WTP:

Nov 1st Cleaned top and bottom tanks on poly unit
 Cleaned all 4 check valves on the poly unit

Nov 2nd Ran a new poly line to clarifier No. 1

Nov 6th Calibrated distribution chlorine analyzer

Nov 8th Installed a recirculating pump on the boiler

Nov 9th Worked on getting heat in the building

Nov 22nd Calibrated the distribution chlorine analyzer

Nov 23rd Contractors worked on heating system

Nov 27th Greased both clarifier's chains, bearings and gears

Nov 27th Installed new filtered water sample pump

Nov 27th Repaired compressor No. 1

Nov 28th Flush poly lines to the clarifiers

Nov 28th Ran standby generator for 1 hour

Nov 28th Painted pipe stands in the lower level

Nov 29th Cleaned top and bottom tanks on the poly unit

Nov 29th Cleaned all 4 check valves on the poly unit

Nov 29th Rebuilt 2 sample pumps

Nov 30th Flushed the Alum line

Nov 30th Flushed the poly lines to the clarifier

8) **Water Complaints:**

- Poor Pressure – 0 complaints.
- Water quality – 0 complaints.

9) **Other Miscellaneous Information:**

Nov 5th Routine micro samples collection

Nov 9th Took grab samples off the filters

Nov 13th Routine micro sample collection

Nov 19th Routine micro sample collection

Nov 20th External QMS audit

Nov 21st ESA Inspection (Electrical Safety Authority)

Nov 21st New mayor and council tour

Nov 22nd Landfill site samples taken

Nov 26th Routine micro sample collection

Oct 30th took DWSP samples

10) In order to acknowledge that all levels of responsibility within the Corporation of the Town of Fort Frances have received and reviewed this monthly report, it is necessary to sign-off in the appropriate location below:

- Randy White, ORO, Senior WTP Operator: _____
- Craig Miller, Environmental Superintendent: _____
- Travis Rob, Manager of Operations & Facilities: _____
- Doug Brown, CAO: _____
- Rick Wiedenhoeft, Chair O & F Exec Committee: _____
- June Caul, Mayor: _____
- John McTaggart, Councillor: _____
- Mike Behan, Councillor: _____
- Wendy Brunetta, Councillor: _____
- Doug Judson, Councillor: _____
- Andrew Hallikas, Councillor: _____

Note: Once all signatures have been obtained, the report will be distributed and made available to the public. If you have any questions, please feel free to contact myself or Randy White, Senior WTP Operator at 274-2325.