

July 30, 2018

Report To: Mayor & Council

From: Travis Rob, Manager of Operations & Facilities

**SUBJECT: June 2018 Drinking Water Systems Monthly Summary Report**

Please find attached the June 2018 Summary Report on the drinking water systems, prepared by Randy White, Senior WTP Operator.

Your Administration recommends that Operations & Facilities Executive Committee accept the June 2018 report as presented.

Respectfully submitted,  
Operations & Facilities Division

Travis Rob, P. Eng.  
Manager of Operations & Facilities

<b>Council approval of this report will</b> accept the June 2018 report prior to it being made available to the general public.
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c.c. – Craig Miller, Environmental & Facilities Supt.  
Randy White, Senior WTP Operator

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**June 2018**

**Monthly Summary Report  
Water Systems**

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

**Dated: July 30, 2018**

### 1) **Introduction:**

This report contains the major maintenance activities and operational events that occurred during the month of June 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.

A NEW drinking water system at the Airport was put into service August 01, 2017. The system is classified as a Small Drinking Water System, System No. 849N7DGE0 which falls under the requirements of Ontario Regulation 319/08 – Small Drinking Water Systems. The old drinking water system, Airport Groundwater Well Water Works # 26002736 has been decommissioned.

### 2) **Flow Data:**

Water Treatment Plant: See attached spreadsheet.

Airport Groundwater Well :

June 4, 2018 Reading	72.5 m3
July 30, 2018 Reading	83.6 m3
Usage	11.1 m3
Days between readings	56
Average Daily Usage	0.198 m3
Estimated June Usage	5.9 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. 122 Scott St.      | 2. 1036 Victoria Ave. | 3. 901 Wright Ave.     | 4. W. Tower  |
| 5. 740 Scott St.      | 6. 1036 Victoria Ave. | 7. 901 Wright Ave.     | 8. W. Tower  |
| 9. 1111 First St E.   | 10. 1104 Church St.   | 11. 1103 Victoria Ave. | 12. W. Tower |
| 13. 1111 First St. E. | 14. 1104 Church St.   | 15. 1150 Portage Ave.  | 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:**

June 04th -Greased clarifiers chains bearing gears.

June 08th- Cleaned top and bottom tanks on poly unit.  
- Cleaned all four (4) check valves on poly unit.

June 10th- Ran generator for 5 hours during power outage.

June 13th- Took grab samples off the filters.  
- Calibrated distribution chlorine analyzer  
- Cleaned soda ash line

June 19th- Repair sewer break at Sunny Cove.

June 21rd- Cleaned Soda Ash line from tank to pump.

June 29th- Cleaned top and bottom tanks on poly unit.  
- Cleaned all four (4) check valves on the poly unit

8) **Water Complaints:**

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

9) **Other Miscellaneous Information:**

June 01st- Received a load of Alum.

June 04th- Routine micro sample collection.  
- Seasonal micro sample Legion Park

June 07th- Temporary main samples at Williams Ave.

June 11th- Routine micro sample collection.

June 12th- Valve replacement samples.

June 13th- Valve and hydrant replacement samples.  
- QMS meeting.

June 14<sup>th</sup> - Hydrant replacement samples.  
- Temporary main samples.

June 18<sup>th</sup> - Routine micro sample collection.  
- Hydrant replacement samples.

June 19th- Received a shipment of chlorine.  
- Hydrant replacement samples.

June 20th- Valve replacement samples.

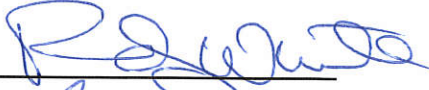

June 25<sup>th</sup> - Valve replacement samples.  
- Hydrant replacement samples.  
- Routine micro sample collection.

June 26th- Valve and hydrant replacement samples.

June 27th- Valve and hydrant replacement samples.

June 28th- Water main repair 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: 
- Doug Herr, Environmental & Facilities Supt.: 
- Travis Rob, Manager of Operations & Facilities: \_\_\_\_\_
- Doug Brown, CAO: \_\_\_\_\_
- Paul Ryan, Chair O& F Exec Committee: \_\_\_\_\_
- Roy Avis, Mayor: \_\_\_\_\_
- June Caul, Councillor: \_\_\_\_\_
- John Albanese, Councillor: \_\_\_\_\_
- Wendy Brunetta, Councillor: \_\_\_\_\_
- Doug Kitowski, Councillor: \_\_\_\_\_
- Ken Perry, 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.

Monthly Report June 2018

Flow Data	JUNE	Units	2016		2017		2018	
			Day of the Month		Day of the Month		Day of the Month	
Total Raw Water		m <sup>3</sup>		165710		197910		160740
Raw Maximum Day		m <sup>3</sup>	Saturday 11th	6210	Sunday 11th	6890	June 20	5660
Raw Minimum Day		m <sup>3</sup>	Friday 03rd	4620	Saturday 03rd	6270	June 25, June 28	5120
Raw Average Daily Consumption		m <sup>3</sup>		5330		6600		5360
Total Treated Water		m <sup>3</sup>		120190		114210		119760
Treated Water Maximim Day Consumption		m <sup>3</sup>	Thursday 09th	5970	Wednesday 07th	4860	June 20	5080
Treated Water Minimim Day Consumption		m <sup>3</sup>	Thursday 30th	3260	Sunday 18th	3150	June 10	2990
Treated Water Average Day Consumption		m <sup>3</sup>		3880		3810		3990
Daily Average Per Household Consumption Rate		m <sup>3</sup>		1.026		1.007		1.055
* Daily Average Per Person Consumption Rate		m <sup>3</sup>		0.486		0.477		0.500
Monthly Averages - Operating Parameters WTP:								
FAC Residual - Treated Water		mg/L		2.07		2.20		1.94
Total Chlorine Residual - Treated Water		mg/L		2.45		2.41		2.23
Aluminum Sulphate - Raw Water		mg/L		35.0		35.0		35.0
Aluminum Sulphate - Treated Water Residual		mg/L		0.03		0.02		0.02
Fluoride - Treated Water		mg/L		0.62		0.63		0.70
Soda Ash - Raw Water		mg/L		35.0		35.0		35.0
PH - Adjusted		mg/L		7.29		7.28		7.14
Temperature		C		16.8		16.2		18.9
Quantity of Chemical Used:		kg						
Aluminum Sulphate		kg		5799.9		6926.9		5625.9
Polyelectrolyte		kg		100.0		62.5		112.5
Chlorine Gas		kg		801.0		935.0		767.0
Soda Ash - Used for PH Adjustment		kg		5799.9		6926.9		5625.9
Fluoride		kg		493.0		651.0		489.0

\* The Canadian Average is 450 Litres (0.45 m<sup>3</sup>) per day.

\* Population is 7986

\* Number of Households is 3783