

THE TOWN OF FORT FRANCES

July 25, 2014

Report To: Mayor & Council

From: Doug Brown, Manager of Operations & Facilities

SUBJECT: June 2014 Drinking Water Systems Monthly Summary Report



Please find attached the June 2014 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 2014 report as presented.

Respectfully submitted,
Operations & Facilities Division

Doug Brown

Doug Brown, P. Eng.
Manager of Operations & Facilities

Council approval of this report will accept the June 2014 Drinking Water Systems Monthly Summary Report and approve the report prior to it being made available to the general public.

c.c. – Doug Herr, Environmental & Facilities Supt.
Randy White, Senior WTP Operator

06Council Water ReportJune 2014.doc

RECOMMENDED
SEP 03 2014
DIV. MFG. *Doug*
EXECUTIVE COMM. *R. White*



June, 2014

**Monthly Summary Report
Water Systems**

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

Dated: July 29, 2014

1) **Introduction:**

This report contains the major maintenance activities and operational events that occurred during the month of June 2014 at the Water Treatment Plant - Water Works # 220000978 and the Airport Groundwater Well Water Works # 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.

2) **Flow Data:**

Water Treatment Plant: See attached spreadsheet. No flow data for Airport groundwater well.

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.

4) **Microbiological (Health Related) Water Analysis – Airport Groundwater Well No. 26002736:**

No samples taken.

The Airport has signs posted in the men's and women's washroom stating that the water has not been tested or treated for drinking purposes in accordance with the Health Protection and Promotion Act – Section 7 of the Small Drinking Water Systems Regulation, O. Reg. 318/08 (*Amended to Safe Drinking Water Act, 2002 - Section 6 of Ontario Regulation 252/05*). The operators do a visual inspection of the warning notices at a minimum of once per week to ensure that they are legible and comply with Ontario Regulation 318/08, Section 7(5).

**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. 26002736:**

Signs posted, exempt from testing.

7) Maintenance Activities at the WTP:

June 03rd - calibrated the Alum and Soda Ash feeders.

June 05th - calibrated distribution chlorine analyzer.
- cleaned the four (4) check valves on the poly unit.
- cleaned the top and bottom tank on the poly unit.
- greased all the plant equipment.

June 10th - calibrated filter turbidity meters.

June 25th - calibrated Filter No. 1 turbidity meter.
- calibrated Alum feeder.
- flushed the Alum system with hot water.

8) Water Complaints:


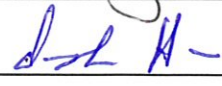


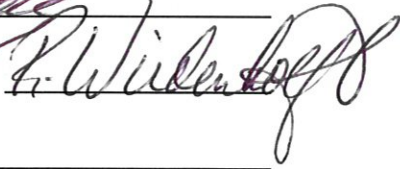

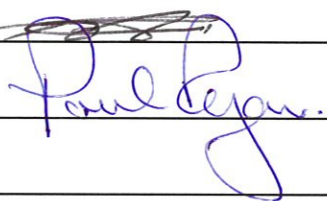

- Poor Pressure – 0 complaint.
- Water quality – 2 complaints:
 - 1) 622 Third Street East – discoloured water – due to construction in the area – the hydrant was flushed at Phair Avenue and Third Street East until water cleared.
 - 2) 230 Second Street East – discoloured water – due to flushing hydrants in that area – advised to run cold water and it would clear.

9) Other Miscellaneous Information:

June 02nd - took weekly routine bacti samples.

- June 03rd - samples taken on adverse, 362 Daniel Ave. – 1st set.
- water service repair samples at 320 Victoria Ave. – 1st set.
- June 04th - water service repair samples at 320 Victoria Ave. – 2nd set.
- June 05th - samples taken on adverse, 362 Daniel Ave. – 2nd set.
- June 09th - re-samples taken on adverse, 362 Daniel Ave. – 1st set.
- took weekly routine bacti samples.
- June 10th - re-samples taken on adverse, 362 Daniel Ave. – 2nd set.
- June 16th - took weekly routine bacti samples.
- June 18th - water main repair samples at Lillie Ave. (500 blk.) – 1st set.
- June 23rd - took weekly routine bacti samples.
- water main repair samples at Lillie Ave. (500 blk.) – 2nd set.
- June 24th - took micro samples at Sunny Cove.
- June 26th - temporary water main samples – Third St. E. – 1st set.
- June 27th - temporary water main samples – Third St. E. – 2nd set

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.: 
- Doug Brown, Manager of Operations & Facilities: 
- Mark McCaig, CAO: 
- Rick Wiedenhoef, Chair O& F Exec Committee: 
- Roy Avis, Mayor: 
- Paul Ryan, Councillor: 
- John Albanese, Councillor: _____
- Andrew Hallikas, 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.

Flow Data	JUNE	Units	2012		2013		2014	
			Day of the Month		Day of the Month		Day of the Month	
Total Raw Water		m ³		174480		144280		161770
Raw Maximum Day		m ³	Friday 29th	7830	Friday 26th	5590	Monday 02nd	6620
Raw Minimum Day		m ³	Friday 01st	5060	Monday 10th	3970	Saturday 21st	4750
Raw Average Daily Consumption		m ³		5820		4810		5390
Total Treated Water		m ³		141540		119730		123240
Treated Water Maximim Day Consumption		m ³	Friday 29th	6530	Friday 26th	5730	Tuesday 17th	6250
Treated Water Minimim Day Consumption		m ³	Friday 01st	3550	Monday 10th	3230	Sunday 29th	3330
Treated Water Average Day Consumption		m ³		4720		3990		4110
Daily Average Per Household Consumption Rate		m ³		1.248		1.055		1.086
* Daily Average Per Person Consumption Rate		m ³		0.591		0.500		0.515
Monthly Averages - Operating Parameters WTP:								
FAC Residual - Treated Water		mg/L		1.96		1.72		1.68
Total Chlorine Residual - Treated Water		mg/L		2.18		2.03		1.97
Aluminum Sulphate - Raw Water		mg/L		34.0		34.0		34.8
Aluminum Sulphate - Treated Water Residual		mg/L		0.05		0.06		0.04
Fluoride - Treated Water		mg/L		0.63		0.57		0.62
Soda Ash - Raw Water		mg/L		34.0		34.0		34.8
PH - Adjusted		mg/L		7.23		7.17		7.18
Temperature		C		17.5		15.8		15.2
Quantity of Chemical Used:								
Aluminum Sulphate		kg		5932.3		4905.5		5619.8
Polyelectrolyte		kg		50.0		62.5		75.0
Chlorine Gas		kg		722.0		545.0		686.0
Soda Ash - Used for PH Adjustment		kg		5932.3		4905.5		5633.6
Fluoride		kg		400.0		327.0		406.0

* The Canadian Average is 450 Litres (0.45 m³) per day.

* Population is 7986

* Number of Households is 3783

