

TOWN OF FORT FRANCES

Operations and Facilities Executive Committee

AGENDA - August 5, 2020, 8:30 AM

MEETING - Civic Centre

Session #012

Join Microsoft Teams Meeting

+1 807 701 5975 Canada, Thunder Bay (Toll)

Conference ID: 834 797 269#

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1. <u>Call to Order</u>	
2. <u>Disclosure of pecuniary interest and the general nature thereof</u>	
3. <u>Approval of Previous Committee Minutes</u>	
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TOWN OF FORT FRANCES

MINUTES

SESSION NO. #011

July 8, 2020

The meeting of Operations & Facilities Executive Committee of the Town of Fort Frances was held in the Committee Room and via Skype (virtual meeting resources) on July 8, 2020 from 8:30 a.m. to 9:14 a.m.

PRESENT: Chairperson R. Wiedenhoeft - Councillor, M. Behan - Councillor, J. McTaggart - Councillor, Mayor J. Caul (ex-officio)

ALSO PRESENT: T. Rob, Manager of Operations & Facilities, D. Brown, CAO and Adam Mitchell (8:30 a.m. to 9:14 a.m.)

1 Call to Order

1.1 The meeting was called to order at 8:30 a.m.

2 Disclosure of pecuniary interest and the general nature thereof

2.1 None

3 Approval of Previous Committee Minutes

3.1 Minutes from the previous meeting on June 17, 2020 - the minutes were approved as amended.

4 Non-agenda Items

4.1 None

5 New Business

5.1 Master Stormwater Management Plan - the administration report was approved as amended.

5.2 Capital Asset Registry Policy - the administration report was approved as presented.

6 Information

6.1 Operations and Facilities Division - Public Works Area - Operations Statistics - March 202 - the Public Works Area stats for March were received and will be forwarded to Council as information only. No action required.

- 6.2 Operations and Facilities Division - Public Works Area - Operations Statistics - April 2020 - the Public Works Area stats for April were received and will be forwarded to Council as information only. No action required.
- 6.3 Sewer and Water Data for 2020 - was received and will be forwarded to Council as information only. No action required.

7 Adjourn / Next Meeting Date

- 7.1 Meeting Adjourned at 9:14 a.m.

Next meeting August 5, 2020

Executive Committee Chair

T. Rob, Manager of Operations & Facilities

August 5, 2020

Report To: Mayor and Council

From: Travis Rob, Manager of Operations and Facilities

RE: Award of Tender 20-OF-09 – 2020 Zoom Camera Inspection of Storm Sewers

The Town of Fort Frances included funds in its operating budget in 2020 to continue a storm sewer inspection program to determine the condition of some of the storm sewer system within the Town of Fort Frances as part of the ongoing Asset Management Program.

Attached you will find a report from Adam Mitchell, Asset Management Coordinator recommending the award of Tender 20-OF-09 to Infratech Services for inspection services at a total cost of \$20,057.50 including HST. To remain under the Town's budget allocation of \$14,000.00 including HST, Administration will work with the contractor to adjust the units such that the inspection areas conform within the Town's budget allocation.

It is the recommendation of the Operations and Facilities Executive Committee to award Tender 20-OF-09 to Infratech Services and further that an authorizing by-law be prepared authorizing Mayor and Clerk to execute the agreement on behalf of the corporation.

Respectfully Submitted



Travis Rob, P.Eng

Council approval of this report will agree with the recommendation of the Operations and Facilities Executive Committee to award Tender 20-OF-09 to Infratech Services and further that an authorizing by-law be prepared authorizing Mayor and Clerk to execute the agreement on behalf of the corporation.

Manager of Operations and Facilities

July 24, 2020

Report To: Travis Rob, Manager of O&F

From: Adam Mitchell, Asset Management Coordinator

RE: Award of Tender 19-OF-07 – 2019 Storm Sewer Zoom Camera Inspection Project.

The Operations and Facilities department at The Town of Fort Frances plans to continue its initiative to provide condition assessments on its infrastructure. With some of the Towns storm sewer infrastructure exceeding its useful life (age based determined) monies were allocated to investigate areas of concerns within the 2020 budget. In June, a tender was released looking for viable firms that offered Zoom Camera Inspections. On July 15th all submitted proposals were opened publicly at the Town of Fort Frances Civic Centre where only one firm submitted a proposal.

The Proposal was submitted by Infratech Services of Sudbury Ontario. Following receipt of the proposal I reviewed all documents within the package to ensure that the service Infratech was proposing to provide meant the requirements of the tender. The results of my findings show that Infratech Services understand the requirements of the tender and have vast knowledge and experience in conducting zoom camera inspections of city storm sewers.

Infratech cost breakdown is shown in the table below.

Item	Total
(De)Mobilization/Collection Costs:	\$ 5,000.00
Zoom Camera Inspection Costs:	\$ 12,750.00
HST	\$ 2,307.50
Grand Total	\$ 20,057.50

This price exceeds the amount allocated in the budget for this year's project. As outlined in the tender document, we will be reducing the scope of the project to remain on budget.

Infratech Services did not specify a schedule in the fax copy of the proposal I received however I have no concerns about having the work completed within the construction season.

It is important to note that this was a joint tender project with the Town of Sioux Lookout. They have reviewed the submitted proposal and will be moving forward.

I recommend that the contract for the 2020 Zoom Camera Inspection of Storm Sewer be awarded to Infratech Services.

Respectfully Submitted



Adam Mitchell, P.Eng
Asset Management Coordinator

August 5, 2020

Report To: Mayor and Council

From: Travis Rob, Manager of Operations and Facilities

RE: Award of Tender 20-OF-11 – 2020 Kings Highway Reconstruction

During the week of November 18, 2019, the Town advertised for a Tender Call for the reconstruction of Kings Highway from Pit Road #1 to Pit Road #2 with the tender closing on Tuesday, July 28, 2020. Advertisements were placed in the Fort Frances Times, Chronicle Journal, Thunder Bay Construction Association, Winnipeg Construction Association and on the Town of Fort Frances website.

Five (5) tender packages were distributed to construction contractors and/or suppliers with two (4) Contractors submitting tender bids;

Contractor	Price (HST Included plus \$150,000.00 Contingency Allowance)
1876118 Ontario Ltd.	\$2,788,336.02
PNI Contracting	\$2,511,103.93
Tom Veert Contracting	\$2,308,205.79
George Armstrong Company	\$2,034,823.21

The works tendered consisted of one (1) project to be completed in 2022. The project is as follows:

2020/2021 Construction Program

1. Reconstruction of Kings Highway from Pit Road #1 to Pit Road #2

Full reconstruction and widening of Kings Highway including the installation of new water services, new stormsewer, landscaping and base and surface coarse asphalt.

Given the late tendering of this project, there was no requirement to start any works in 2020, however if work was to begin, the roadway would not be allowed to be gravel through the winter. Given those stipulations, each bidder would have planned their work based on their schedule this year.

In accordance with the Town's procurement policy, Administration has an obligation to point out to Council any tender irregularities. All tenders submitted were complete and compliant. **See Spreadsheet No. 1**, which outlines details on the four (4) tender bids received and the associated costs for each individual project. Also, highlighted in "green" indicates the lowest unit bid price and "red" indicates the highest unit bid price.

The low tender bid was George Armstrong Company with a total cost of \$2,034,823.21 which includes a \$150,000 contingency allowance spread over the two years and HST. Please review the attached **Spreadsheet No. 2** - outlining the funding allocations vs. the lowest tender bid from George Armstrong Company plus Hatch Engineering costs (10%). The entire phase 1 works were included in the 2020 budget anticipating a funding award in March as usual. In speaking with George Armstrong Company, they plan to complete the stormsewer and water works along the sought portion of the roadway in 2020, with the remaining stormsewer and water works as well as roadway reconstruction works in 2021, with construction work set to be complete August 15, 2021.

Please find attached a letter report from Hatch recommending that George Armstrong Company be awarded this tender as they are the low tender and, in the past, have performed well on similar projects in our community.

It is recommended by Administration that the following be approved:

- That Tender 20-OF-11 – Kings Highway Reconstruction be awarded to George Armstrong Company at an estimated cost of \$2,034,823.21 which includes HST and a contingency allowance of \$150,000.00.
- That prior to construction start, an open house public meeting is scheduled to ensure all property owners abutting the construction projects obtain first-hand knowledge of these projects and have the opportunity to ask any questions. The exact date of the meeting is unknown at the time of writing this report.
- That the Mayor and Clerk be authorized to execute the contract documents on behalf of the Corporation of the Town of Fort Frances.

Respectfully Submitted



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

Council approval of this report will ensure:

- **That Tender 20-OF-11 – Kings Highway Reconstruction be awarded to George Armstrong Company at an estimated cost of \$2,034,823.21 which includes HST and a contingency allowance of \$150,000.00.**
- **That prior to construction start, an open house public meeting is scheduled to ensure all property owners abutting the construction projects obtain first-hand knowledge of these projects and have the opportunity to ask any questions. The exact date of the meeting is unknown at the time of writing this report.**
- **That the Mayor and Clerk be authorized to execute the contract documents on behalf of the Corporation of the Town of Fort Frances.**

Spreadsheet #1 - Kings Highway Reconstruction							Makkinga Contracting		PNI Contracting		Tom Veert Contracting		George Armstrong Company	
ITEM NO.	OPS SPEC.	DESCRIPTION	EST. QTY	UNIT	UNIT BID PRICE	TOTAL BID PRICE	Unit Price	Total Bid Price	Unit Price	Total Bid Price	Unit Price	Total Bid Price	Unit Price	Total Bid Price
KINGS HIGHWAY (from Pit Road #1 to Pit Road #2)														
Section A - Grading														
A.001	206, SP	Earth Excavation (Grading)	10,878	m³(P)	\$ 18.00	\$ 195,804.00	\$15.00	\$163,170.00	\$10.53	\$114,545.34	\$9.06	\$98,554.68	\$7.00	\$76,146.00
A.002	310, SP	Hot Mix Asphalt (70mm Binder Course)	890	t	\$ 275.00	\$ 244,750.00	\$264.00	\$234,960.00	\$252.72	\$224,920.80	\$282.06	\$251,033.40	\$240.00	\$213,600.00
A.003	310, SP	Hot Mix Asphalt (50mm Surface Course)	630	t	\$ 250.00	\$ 157,500.00	\$251.00	\$158,130.00	\$237.60	\$149,688.00	\$268.30	\$169,029.00	\$230.00	\$144,900.00
A.004	314, SP	Granular 'A' Roadway (200mm)	3,825	t	\$ 28.00	\$ 107,100.00	\$28.00	\$107,100.00	\$23.22	\$88,816.50	\$23.70	\$90,652.50	\$22.00	\$84,150.00
A.005	314, SP	Granular 'A' Entrances (100mm)	33	t	\$ 25.00	\$ 825.00	\$28.00	\$924.00	\$65.34	\$2,156.22	\$23.20	\$765.60	\$22.00	\$726.00
A.006	314, SP	Granular 'B' Type II Roadway	10,800	t	\$ 25.00	\$ 270,000.00	\$28.00	\$302,400.00	\$26.46	\$285,768.00	\$21.43	\$231,444.00	\$21.00	\$226,800.00
A.007	510, SP	Removal of Asphalt Pavement (Full Depth)	3,713	m²(P)	\$ 5.00	\$ 18,565.00	\$7.00	\$25,991.00	\$3.78	\$14,035.14	\$5.68	\$21,089.84	\$3.00	\$11,139.00
A.008	353, SP	Curb and Gutter	686	m	\$ 180.00	\$ 123,480.00	\$232.00	\$159,152.00	\$206.28	\$141,508.08	\$208.33	\$142,914.38	\$181.00	\$124,166.00
A.009	351, SP	Concrete Driveway Aprons	136	m2	\$ 250.00	\$ 34,000.00	\$207.00	\$28,152.00	\$199.80	\$27,172.80	\$258.30	\$35,128.80	\$220.00	\$29,920.00
A.010	Section 02930	100 mm Topsoil and Sod	1,150	m²	\$ 20.00	\$ 23,000.00	\$22.00	\$25,300.00	\$13.99	\$16,088.50	\$15.93	\$18,319.50	\$20.00	\$23,000.00
A.011	510, SP	Removal of Existing Boulevard Trees	9	ea	\$ 1,000.00	\$ 9,000.00	\$1,000.00	\$9,000.00	\$216.00	\$1,944.00	\$969.78	\$8,728.02	\$200.00	\$1,800.00
A.012	SP	Relocation of Existing Signage	1	LS	\$ 5,000.00	\$ 5,000.00	\$7,500.00	\$7,500.00	\$2,700.00	\$2,700.00	\$7,813.97	\$7,813.97	\$500.00	\$500.00
A.013	1860,SP	Geogrid	7,230	m2	\$ 8.00	\$ 57,840.00	\$8.00	\$57,840.00	\$4.43	\$32,028.90	\$5.73	\$41,427.90	\$4.30	\$31,089.00
A.014	1860,SP	Geotextile	8,235	m2	\$ 5.00	\$ 41,175.00	\$8.00	\$65,880.00	\$3.13	\$25,775.55	\$5.73	\$47,186.55	\$2.50	\$20,587.50
A.015	710, SP	Pavement Markings	1	LS	\$ 16,000.00	\$ 16,000.00	\$20,000.00	\$20,000.00	\$22,140.00	\$22,140.00	\$21,776.22	\$21,776.22	\$17,000.00	\$17,000.00
Total Section A - Grading						\$ 1,304,039.00		\$1,365,499.00		\$1,149,287.83		\$1,185,864.36		\$1,005,523.50
Section B - Storm Sewers														
B.001	407, SP	Catchbasin Storm Manholes	8	ea	\$ 10,000.00	\$ 80,000.00	\$15,000.00	\$120,000.00	\$11,178.00	\$89,424.00	\$10,039.56	\$80,316.48	\$10,000.00	\$80,000.00
B.002	407, SP	Catchbasins	8	ea	\$ 6,000.00	\$ 48,000.00	\$4,000.00	\$32,000.00	\$4,104.00	\$32,832.00	\$6,263.74	\$50,109.92	\$6,000.00	\$48,000.00
B.003	407, SP	Ditch Inlet (Type A, precast concrete c/w grate)	1	ea	\$ 8,000.00	\$ 8,000.00	\$8,750.00	\$8,750.00	\$11,880.00	\$11,880.00	\$7,645.98	\$7,645.98	\$7,500.00	\$7,500.00
B.004	410	Catchbasin Leads 250 mm (PVC SDR 35)	40	m	\$ 300.00	\$ 12,000.00	\$325.00	\$13,000.00	\$207.36	\$8,294.40	\$206.18	\$8,247.20	\$225.00	\$9,000.00
B.005	410	900mm Storm Sewer	383	m	\$ 750.00	\$ 287,250.00	\$1,160.00	\$444,280.00	\$1,236.60	\$473,617.80	\$1,102.17	\$422,131.11	\$835.00	\$319,805.00
B.006	410	450mm Storm Sewer	52	m	\$ 500.00	\$ 26,000.00	\$525.00	\$27,300.00	\$636.12	\$33,078.24	\$707.81	\$36,806.12	\$600.00	\$31,200.00
B.007	405	Subdrain	1,005	m	\$ 50.00	\$ 50,250.00	\$45.00	\$45,225.00	\$25.92	\$26,049.60	\$16.11	\$16,190.55	\$40.00	\$40,200.00
B.008*	SP	50 mm Rigid Styrofoam Insulation	50	m2	\$ 50.00	\$ 2,500.00	\$70.00	\$3,500.00	\$63.72	\$3,186.00	\$46.02	\$2,301.00	\$60.00	\$3,000.00
Total Section B - Storm Sewers						\$ 514,000.00		\$694,055.00		\$678,362.04		\$623,748.36		\$538,705.00
Section C - Watermain														
C.001	441, SP	50mm Water Service	3	ea	\$ 7,500.00	\$ 22,500.00	\$19,000.00	\$57,000.00	\$12,960.00	\$38,880.00	\$9,058.35	\$27,175.05	\$6,000.00	\$18,000.00
C.002	441, SP	Temporary Water Service	1	LS	\$ 5,000.00	\$ 5,000.00	\$14,000.00	\$14,000.00	\$10,260.00	\$10,260.00	\$7,127.49	\$7,127.49	\$10,000.00	\$10,000.00
C.003*	441, SP	50mm Rigid Styrofoam Insulation	50	m²	\$ 50.00	\$ 2,500.00	\$70.00	\$3,500.00	\$63.72	\$3,186.00	\$46.02	\$2,301.00	\$60.00	\$3,000.00
Total Section C - Watermain						\$ 30,000.00		\$74,500.00		\$52,326.00		\$36,603.54		\$31,000.00

ITEM NO.	OPS SPEC.	DESCRIPTION	EST. QTY	UNIT	UNIT BID PRICE	TOTAL BID PRICE	Unit Price	Total Bid Price	Unit Price	Total Bid Price	Unit Price	Total Bid Price	Unit Price	Total Bid Price
Section D - General														
D.001	SP	Bonds & Insurance	1	LS	\$ 50,000.00	\$ 50,000.00	\$35,000.00	\$35,000.00	\$55,080.00	\$55,080.00	\$31,288.28	\$31,288.28	\$22,000.00	\$22,000.00
D.002	SP	Mobilization & Demobilization	1	LS	\$ 100,000.00	\$ 100,000.00	\$140,000.00	\$140,000.00	\$111,240.00	\$111,240.00	\$5,501.97	\$5,501.97	\$50,000.00	\$50,000.00
D.003	SP	Project Sign	1	LS	\$ 5,000.00	\$ 5,000.00	\$1,000.00	\$1,000.00	\$12,960.00	\$12,960.00	\$3,503.48	\$3,503.48	\$2,500.00	\$2,500.00
D.004*	Section 01000	Consultant Site Office	1	LS	\$ 15,000.00	\$ 15,000.00	\$7,500.00	\$7,500.00	\$12,960.00	\$12,960.00	\$6,150.00	\$6,150.00	\$1,000.00	\$1,000.00
D.005	SP	Contingency Allowance	1	LS	\$ 150,000.00	\$ 150,000.00	\$150,000.00	\$150,000.00	\$150,000.00	\$150,000.00	\$150,000.00	\$150,000.00	\$150,000.00	\$150,000.00
Total Section D - GENERAL						\$ 320,000.00		\$333,500.00		\$342,240.00		\$196,443.73		\$225,500.00
SUMMARY OF TENDER PRICES														
Section A - Grading						\$ 1,304,039.00								
Section B - Storm Sewers						\$ 514,000.00								
Section C - Watermain						\$ 30,000.00								
Section D - General						\$ 320,000.00								
SUB-TOTAL TENDER PRICE						\$ 2,168,039.00								
13% H.S.T						\$ 281,845.07								
TOTAL TENDER PRICE						\$ 2,449,884.07								

* Provisional Tender Items - Tender Items identified as Provisional may be deleted prior to/after Contract Award without affecting any other Tender Item prices, and without penalty or recourse.

Spreadsheet #2 - Kings Highway Reconstuction

2020/2021 Connecting Link Kings Highway Reconstruction

	<u>Total Tender Price</u>	<u>Portion of Bonds & Insurance</u>	<u>Portion of Contingency</u>	<u>Engineering (10%)</u>	<u>Total Cost</u>	<u>Total Cost With Town's Portion HST</u>	<u>Funding Allocation</u>	<u>Town Contribution</u>
SUMMARY OF TENDER								
Section A - Grading	\$1,005,523.50	\$48,194.29	\$95,750.25	\$114,946.80	\$1,264,414.85	\$1,286,668.55	\$1,137,973.36	\$148,695.19
Section B - Storm Sewers	\$538,705.00	\$25,819.89	\$51,297.80	\$61,582.27	\$677,404.96	\$689,327.28	\$609,664.46	\$79,662.82
Section C - Watermain	\$31,000.00	\$1,485.82	\$2,951.95	\$3,543.78	\$38,981.55	\$39,667.62	\$0.00	\$39,667.62
Section D - General	\$225,500.00							
	\$1,800,728.50	\$75,500.00	\$150,000.00	\$180,072.85	\$1,980,801.35	\$2,015,663.45	\$1,747,637.82	\$268,025.63

July 30, 2020

360871-P

Town of Fort Frances
320 Portage Avenue
Fort Frances, Ontario
P9A 3P9

Attention: Travis Rob, P.Eng.

**Re: 2020 Kings Highway Widening & Storm Sewer Improvements
Tender No.20-OF-11
Tender Recommendation**

Tenders for the above project were received by the Town of Fort Frances, via fax transmittal (with the exception of the George Armstrong Co. Limited tender was submitted in hard copy), on or before 2:00 pm (CDT) on Tuesday, July 28th, 2020. Four (4) tenders were received, and are listed below in ascending order:

<u>Tenderer</u>	<u>Tender Price</u>
1) George Armstrong Co. Limited (GACL)	\$2,034,823.21
2) Tom Veert Contracting Limited (TVCL)	\$2,301,622.46
3) PNI Contracting	\$2,511,103.93
4) Makkinga Contractors & Equipment Rental	\$2,788,336.02

The above tender prices include H.S.T. The Tenders were checked arithmetically and were all found to be correct.

TENDER IRREGULARITIES

A review of the tenders was undertaken. All of the four (4) tenderers submitted a Bid Bond in the amount of 10% of the Tender Price and an Agreement to Bond and/or Consent of Surety. All tenderers included completed Forms A, B, C, D, E and F of the Tender documents.

REVIEW OF TENDER PRICES

A review of the tender prices submitted by the tenderers was undertaken. GACL tender pricing was generally overall lower than the other tenderers. Items relating to asphalt, granulars, concrete, storm sewer and mobilization/demobilization, account for a significant price difference between the other tenderers.

Overall, the low tenderer has indicated they are comfortable with the price submitted.

The engineers estimate for this project was approximately 20% higher than the lowest submitted tender and the lowest bidder was approximately 12% lower than the 2nd lowest bidder.

LOW TENDERER'S QUALIFICATIONS

GACL is a reputable local general contractor that has been delivering expertise to both public and private sector clients throughout Northwestern Ontario. They have completed numerous road reconstruction/underground infrastructure projects for various clients including the Town of Fort Frances in the recent past.

GACL is proposing to carry out the majority of the work with their own forces which includes all the excavation, grading, pipe works and landscaping. GACL has stated that all asphalt works will be completed by Pioneer Construction and concrete works will be completed by NST Construction.

PROPOSED PROJECT SCHEDULE

This Contract includes a completion date of August 15, 2021.

GACL has indicated that they intend on installing the storm sewer main and catch basins on the south side of the project this year, with all other items commencing in the spring of 2021. GACL stated that they will have dedicated crews working onsite throughout the Contract and do not anticipate any issues meeting the specified completion date of August 15, 2021.

RECOMMENDATION

We therefore recommend that the Contract be awarded to George Armstrong Co. Limited in the amount of \$2,034,823.21 (including H.S.T). This amount includes a contingency amounts for \$150,000 that will not be spent without authorization from the Town of Fort Frances.

With this report we are enclosing a spreadsheet showing a comparison of the tender prices and the engineer's estimate.

Yours very truly,



Joseph De Luca, P. Eng.
Senior Project Engineer
Encl.

July 29, 2020

Report To: Mayor & Council

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

SUBJECT: April 2020 Drinking Water Systems Monthly Summary Report

Please find attached the April 2020 Summary Report on the drinking water systems, prepared by Brad Webb, Senior WTP Operator.

Your Administration recommends that Operations & Facilities Executive Committee accept the April 2020 report as presented.

Respectfully submitted,
Operations & Facilities Division

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

Council approval of this report will accept the April 2020 report prior to it being made available to the general public.
--

c.c. – Craig Miller, P.Eng., Environmental Superintendent
Brad Webb, ORO, Senior WTP Operator

April 2020

**Monthly Summary Report
Water Systems**

**Prepared By: Brad Webb, ORO
Senior Water Treatment Plant Operator**

Dated: May 13, 2020

1) **Introduction:**

This report contains the major maintenance activities and operational events that occurred during the month of April 2020 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 April Usage	6.30 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. 401 King's Hwy.	3. 1319 Colonization W.	4. W. Tower
5. 1036 Victoria Ave.	6. 401 King's Hwy	7. 1319 Colonization W.	8. W. Tower
9. 1017 Cornwall Ave.	10. 401 King's Hwy.	11. 1319 Colonization W.	12. W. Tower
13. 940 Third ST.E.	14. 401 King's Hwy.	15. 1319 Colonization W.	16. W. Tower

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

New drinking water system put online 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 February 5, 2020 – 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 online August 01, 2017. No treatment required as the Airport groundwater well tested negative for bacteria.

7) Maintenance Activities at the WTP:

April 02nd Cleaned top and bottom tanks on the poly unit.
Cleaned all 4 Check Valves on the poly unit.

April 9th Cleaned top and bottom tanks on the poly unit.
Cleaned all 4 Check Valves on the poly unit.

April 16th Cleaned top and bottom tanks on the poly unit.
Cleaned all 4 Check Valves on the poly unit.

April 17th Did Calibration Check on Dist. Cl2 Analyzer

April 21st Changed positioner on filter #3.

April 23rd Cleaned top and bottom tanks on the poly unit
Cleaned all 4 Check Valves on the poly unit

April 28th Ran the Standby Generator for 1 hour
Shut down low lift pumps and cleaned raw water well.
Took grab samples off filters

8) **Water Complaints:**

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

9) **Other Miscellaneous Information:**

April 1 st	Painted floor by Poly unit. Installed automatic towel dispenser in lunchroom.
April 2 nd	Finished painting upstairs hallway. Installed new fire hose reel by clarifiers.
April 3 rd	installed new bins in blower room and filled with parts.
April 6 th	Installed automatic towel dispenser at poly unit. Routine Micro samples. Samples on Colonization Road West water main repair 1 st set.
April 7 th	Samples on Colonization Road West water main repair 2 nd set.
April 13 th	Routine Micro samples.
April 20 th	Routine Micro samples.
April 27 th	Routine Micro 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:

- Brad Webb, ORO, Senior WTP Operator: _____
- Craig Miller, P.Eng. Environmental Superintendent: _____
- Travis Rob, P.Eng. Manager of Operations & Facilities: _____
- Doug Brown, P.Eng. 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 Brad Webb, Senior WTP Operator at 274-2325.

Flow and Operating Data

Flow Data APRIL	Units	2018		2019		2020	
Total Raw Water	m ³	153240	146840	149220			
Raw Maximum Day	m ³	7070	6220	5770			
Raw Minimum Day	m ³	4940	4060	3820			
Raw Average Daily Consumption	m ³	5280	5060	5150			
Total Treated Water	m ³	117850	106270	96350			
Treated Water Maximim Day Consumption	m ³	6460	4330	3640			
Treated Water Minimim Day Consumption	m ³	3230	2910	2730			
Treated Water Average Day Consumption	m ³	3930	3540	3210			
Daily Average Per Household Consumption Rate	m ³	1.04	0.94	0.85			
* Daily Average Per Person Consumption Rate	m ³	0.49	0.44	0.40			
Monthly Averages - Operating Parameters WTP:							
FAC Residual - Treated Water	mg/L	2.14	2.13	2.20			
Total Chlorine Residual - Treated Water	mg/L	2.37	2.36	2.28			
Aluminum Sulphate - Raw Water	mg/L	35.00	35.00	35.00			
Aluminum Sulphate - Treated Water Residual	mg/L	0.03	0.03				
Fluoride - Treated Water	mg/L	0.66	0.63	0.72			
Soda Ash - Raw Water	mg/L	35.00	35.00	35.00			
pH - Adjusted		7.08	6.99	6.94			
Temperature	°C	3.20	4.10	5.40			
Quantity of Chemical Used:	kg						
Aluminum Sulphate	kg	5544.7	5312.3	53988.8			
Polyelectrolyte	kg	87.5	75.0	62.5			
Chlorine Gas	kg	609	579	605			
Soda Ash - Used for pH Adjustment	kg	5544.7	5312.3	53988.8			
Fluoride	kg	645	442	736			

- * The Canadian Average is 450 Litres (0.45 m³) per day.
- * Population is 7986
- * Number of Households is 3783

Town of Fort Frances - Water treatment Plant - Water Works # 220000978
Monitoring Record
April 2020

Operating Data	Units	*MAC	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Total	Average	
		or Range																																	
Flow rates																																			
Raw Water	10^3 M^3	17	5.06	5.05	5.16	5.30	5.17	5.05	5.18	5.21	5.19	5.08	5.19	5.20	5.30	5.17	5.22	5.19	4.99	5.08	4.94	5.77	5.18	5.23	5.18	5.23	5.30	5.11	5.19	5.20	3.82	5.34	149.22	5.15	
Peak Instantaneous - Raw Water	L/s	n/a	59.16	59.20	60.55	60.59	60.59	60.36	60.51	60.54	60.69	60.64	60.64	60.66	60.66	60.71	60.68	60.69	60.77	60.84	60.80	60.84	60.86	60.89	60.93	60.94	60.95	60.89	60.94	63.62	62.17	1822.82	60.76		
Treated Water	10^3 M^3	17	3.13	3.12	3.24	3.63	2.90	3.19	3.63	3.40	3.14	3.12	2.89	3.26	3.03	3.26	3.19	3.01	2.73	3.35	3.10	3.64	3.13	3.22	3.30	2.96	3.41	3.27	3.40	3.22	3.08	3.40	96.35	3.21	
Peak Instantaneous - Treated Water	L/s	5	62.94	62.40	62.33	61.86	63.07	62.14	62.39	64.04	62.41	62.16	62.46	62.88	63.14	63.17	63.38	62.75	62.69	62.42	63.28	62.28	61.97	63.06	61.85	63.27	63.54	62.98	62.19	62.42	62.83	62.89	1881.19	62.71	
BackWash Water	10^3 M^3	n/a	0.260	0.244	0.278	0.259	0.243	0.297	0.263	0.243	0.279	0.263	0.248	0.279	0.261	0.248	0.278	0.261	0.246	0.279	0.238	0.238	0.278	0.263	0.249	0.279	0.260	0.237	0.279	0.262	0.000	0.249	7.561	0.252	
Fluoride Information																																			
Fluoride Residual - Treated Water	mg/l	0.5 to 0.8	0.71	0.73	0.69	0.71	0.69	0.68	0.68	0.68	0.69	0.70	0.70	0.71	0.74	0.71	0.71	0.71	0.72	0.72	0.72	0.73	0.72	0.72	0.72	0.70	0.71	0.73	0.75	0.76	0.76	0.77	0.76	21.51	0.72
Turbidity Information																																			
Raw Water	NTU	n/a	0.55	0.57	0.59	0.61	0.66	0.59	0.63	0.61	0.55	0.58	0.63	0.64	0.59	0.74	0.98	0.77	0.81	0.83	0.83	0.98	0.88	0.84	0.97	0.89	0.94	0.83	0.78	0.79	0.96	1.08	22.70	0.76	
Settled Water	NTU	n/a	0.19	0.17	0.16	0.15	0.14	0.16	0.14	0.14	0.15	0.16	0.15	0.15	0.14	0.30	0.27	0.24	0.23	0.21	0.19	0.19	0.26	0.23	.15	17.00	0.23	0.23	0.28	0.28	0.26	0.29	22.69	0.78	
Treated Water	NTU	1	0.15	0.12	0.12	0.11	0.12	0.11	0.11	0.10	0.10	0.11	0.10	0.10	0.11	0.16	0.19	0.17	0.21	0.13	0.19	0.20	0.26	0.28	0.26	0.32	0.32	0.25	0.25	0.29	0.59	0.36	5.89	0.20	
Other Operating Parameters																																			
pH - Treated Water	no units	6.5 to 8.5	7.00	7.04	7.07	7.09	7.05	7.01	7.03	7.03	7.06	7.05	7.01	7.02	7.03	7.03	6.79	6.76	6.74	6.77	6.76	6.93	6.77	6.83	6.82	6.98	6.85	6.75	6.84	7.07	7.12	7.04	208.34	6.94	
pH - Settled water	no units	n/a	6.45	6.44	6.45	6.41	6.49	6.44	6.44	6.40	6.43	6.45	6.41	6.44	6.41	6.22	6.28	6.10	6.26	6.27	6.20	6.25	6.12	6.06	6.20	6.20	6.15	6.27	6.20	6.25	6.19	6.25	189.13	6.30	
pH - Raw Water	no units	n/a	6.91	6.99	7.01	7.00	7.01	7.00	7.02	7.00	6.99	6.98	7.01	7.00	7.01	6.77	6.74	6.73	6.73	6.73	6.80	6.71	6.61	6.59	6.61	6.84	6.65	6.75	6.82	6.83	6.78	7.09	205.71	6.86	
FAC - Treated Water	mg/l	0.2 to 4	2.00	2.02	2.01	2.10	2.11	2.10	6.16	2.08	2.00	2.15	2.14	2.13	2.11	1.98	2.01	2.01	2.03	1.96	1.99	2.12	2.02	2.06	2.09	2.02	2.07	2.00	2.06	2.00	2.12	2.22	65.87	2.20	
Total Chlorine Residual Treated	mg/l	0.3 to 7	2.15	2.19	2.17	2.22	2.20	2.22	2.30	2.28	2.32	2.30	2.28	2.32	2.36	2.34	2.36	2.30	2.38	2.28	2.18	2.28	2.20	2.26	2.20	2.36	2.17	2.46	2.19	2.2	2.58	2.42	68.47	2.28	
Temperature	C	15	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.0	3.0	3.0	3.0	3.0	4.0	3.0	4.0	4.0	4.0	5.0	7.0	7.0	7.0	8.0	7.0	7.0	10.0	11.0	10.0	9.0	9.0	9.0	162.0	5.4	
Fluoride used (Total Daily Consumption)	kg	n/a	23.0	25.0	25.0	26.0	25.0	24.0	25.0	23.0	24.0	23.0	23.0	23.0	23.0	22.0	22.0	21.0	25.0	25.0	29.0	26.0	24.0	26.0	25.0	25.0	24.0	24.0	24.0	35.0	24.0	736.0	24.5		
Chlorine used (Total Daily Consumption)	kg	n/a	19.0	20.0	19.0	21.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	21.0	20.0	22.0	19.0	20.0	20.0	20.0	19.0	23.0	20.0	20.0	21.0	21.0	20.0	21.0	20.0	21.0	17.0	21.0	605.0	20.2	
Soda ash (Total Daily Consumption)	kg	n/a	177.1	176.8	180.6	185.5	181.0	176.8	181.3	182.4	181.7	177.8	181.7	182.0	185.5	181.0	182.7	181.7	174.7	177.8	172.9	202.0	181.3	183.1	181.3	183.1	185.5	178.9	181.7	182.0	133.7	186.9	5399.8	180.0	
Soda Ash - Dosage	mg/l	n/a	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	1050.0	35.0	
Alum residual - (Total Daily Consumption)	kg	n/a	177.1	176.8	180.6	185.5	181.0	176.8	181.3	182.4	181.7	177.8	181.7	182.0	185.5	181.0	182.7	181.7	174.7	177.8	172.9	202.0	181.3	183.1	181.3	183.1	185.5	178.9	181.7	182.0	133.7	186.9	5399.8	180.0	
Alum residual - Dosage	mg/l	n/a	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	1050.0	35.0	
Alum residual - Treated Water	mg/l	0.1		0.03	0.05	0.03	0.04	0.05	0.04	0.04	0.04	0.03	0.04	0.04	0.04	0.04	0.05	0.06	0.07	0.09	0.06	0.06	0.06	0.06	0.07	0.05	0.05	0.06	0.05	0.05	0.09	0.05	1.49	0.05	
Poly bags added (25 kg bags)	kg			0.5								0.5				0.5											0.5							62.5	

July 29, 2020

Report To: Mayor & Council

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

SUBJECT: May 2020 Drinking Water Systems Monthly Summary Report

Please find attached the May 2020 Summary Report on the drinking water systems, prepared by Brad Webb, Senior WTP Operator.

Your Administration recommends that Operations & Facilities Executive Committee accept the May 2020 report as presented.

Respectfully submitted,
Operations & Facilities Division

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

Council approval of this report will accept the May 2020 report prior to it being made available to the general public.
--

c.c. – Craig Miller, P.Eng., Environmental Superintendent
Brad Webb, ORO, Senior WTP Operator

May 2020

**Monthly Summary Report
Water Systems**

**Prepared by: Brad Webb, ORO
Senior Water Treatment Plant Operator**

Dated: June 16, 2020

1) **Introduction:**

This report contains the major maintenance activities and operational events that occurred during the month of May 2020 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 .21m3

May Usage 6.51 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. 943 Third St. E.	2. 401 Kings Hwy.	3. 1319 Col Rd. W.	4. W. Tower
5. 1111 First St. E.	6. 1319 Col Rd. W.	7. 901 Wright Ave.	8. W. Tower
9. 1017 Cornwall Ave.	10. 401 Kings Hwy.	11. 1319 Col Rd. W.	12. W. Tower
13. 1017 Cornwall Ave.	14. 401 Kings Hwy.	15. 1319 Col Rd. W.	16. W. Tower

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

New drinking water system put online 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 February 5, 2020 – 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:

May 05th worked on settled water sample pump.

May 7th - cleaned top and bottom tanks on the poly unit.
- cleaned all four (4) check valves on the poly unit.
-replaced settled water sample pump.
-replaced in-line mixer gaskets.

May 11th - calibrated the Distribution Chlorine Analyzer.
-took grab samples off filters.

May 14th - cleaned top and bottom tanks on the poly unit.
- cleaned all four (4) check valves on the poly unit

May 20th -repaired impeller on clarifier # 1.
-flushed poly line to clarifier # 1.

May 21st - cleaned top and bottom tanks on the poly unit.
- cleaned all four (4) check valves on the poly unit.

May 28th - cleaned top and bottom tanks on the poly unit.
- cleaned all four (4) check valves on the poly unit.
-calibrated fluoride analyzer.
-took grab sample off filters.

May 29th -ran generator for 1 hour.
-calibrated fluoride analyzer.

8) **Water Complaints:**

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

9) **Other Miscellaneous Information:**

May 4th - took weekly routine micro samples.
-received a load of alum.

May 7th -ordered calcium hypochlorite.
-ordered cl₂ reagents.

May 11th - took weekly routine micro samples.
-took samples at Rainy Lake Square.
-took samples on Scott St. construction. 1st set.
-painted at plant.

May 12th -took samples on Scott St. construction. 2nd set.
-painted at plant.

May 13th -painted at plant.

May 14th - painted at plant.

May 15th - painted at plant.

May 19th - took weekly routine micro samples.

May 25th - took weekly routine micro 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:

- Brad Webb, ORO, Senior WTP Operator: _____
- Craig Miller, P.Eng. Environmental Superintendent: _____
- Travis Rob, P.Eng. Manager of Operations & Facilities: _____
- Doug Brown, P.Eng. 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 Brad Webb, Senior WTP Operator at 274-2325.

Monthly Report May 2020

Flow and Operating Data

Flow Data MAY	Units	2017	2018	2019	2020
Total Raw Water	m ³	196210	191512	162710	162350
Raw Maximum Day	m ³	7080	6780	6180	5410
Raw Minimum Day	m ³	5830	4970	4760	4910
Raw Average Daily Consumption	m ³	6330	5310	5250	5240
Total Treated Water	m ³	116990	112970	105850	111690
Treated Water Maximim Day Consumption	m ³	5040	4130	4180	4960
Treated Water Minimim Day Consumption	m ³	2820	3060	2760	2840
Treated Water Average Day Consumption	m ³	3770	3640	3410	3600
Daily Average Per Household Consumption Rate	m ³	1.00	0.96	0.90	
* Daily Average Per Person Consumption Rate	m ³	0.47	0.46	0.43	0.45
Monthly Averages - Operating Parameters WTP:					
FAC Residual - Treated Water	mg/L	2.23	2.07	2.15	1.94
Total Chlorine Residual - Treated Water	mg/L	2.45	2.30	2.38	2.22
Aluminum Sulphate - Raw Water	mg/L	35.00	35.00	35.00	34.13
Aluminum Sulphate - Treated Water Residual	mg/L	0.03	0.03	0.03	0.04
Fluoride - Treated Water	mg/L	0.59	0.71	0.73	0.72
Soda Ash - Raw Water	mg/L	35.00	35.00	35.00	36.74
pH - Adjusted		7.19	7.11	7.03	6.71
Temperature	°C	9.90	9.50	8.84	10.77
Quantity of Chemical Used:					
Aluminum Sulphate	kg	6867.35	7416.50	5694.90	5964.61
Polyelectrolyte	kg	87.5	112.5	87.5	62.5
Chlorine Gas	kg	811	671	676	666
Soda Ash - Used for pH Adjustment	kg	6867.35	7416.50	5694.90	5541.07
Fluoride	kg	547	583	478	734

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

* Population is 7986

* Number of Households is 3783

Operating Data		Units	*MAC or Range	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total	Average	Maximum	Minimum	
Flow rates																																							
Raw Water		10³ M³	17	5.30	5.29	5.38	5.30	5.31	5.33	5.36	5.07	5.31	5.19	5.09	5.22	5.20	5.10	5.31	5.11	5.21	5.21	5.33	5.20	5.21	5.24	4.91	5.22	5.34	5.39	5.23	5.17	5.33	5.41	5.18	162.45	5.24	5.41	4.91	
Peak Instantaneous - Raw Water		L/s	n/a																															#DIV/0!	0.00	0.00			
Treated Water		10³ M³	17	3.35	3.74	2.54	3.20	3.51	3.34	3.74	3.07	3.40	3.36	3.16	3.73	3.97	3.13	3.32	3.20	3.35	3.43	4.07	4.19	4.38	4.98	3.30	3.57	3.95	4.12	4.04	3.53	3.95	3.45	3.34	128.69		4.98	2.84	
Peak Instantaneous - Treated Water		L/s	n/a																															#DIV/0!	0.00	0.00			
BackWash Water		10³ M³	n/a	0.279	0.162	0.251	0.278	0.263	0.250	0.279	0.000	0.262	0.251	0.277	0.263	0.247	0.277	0.263	0.252	0.280	0.262	0.255	0.279	0.261	0.252	0.279	0.261	0.253	0.280	0.262	0.247	0.279	0.262	0.247	7.81	0.25	0.28	0.00	
Fluoride Information																																							
Fluoride Residual - Treated Water		mg/l	0.5 to 0.8	0.78	0.79	0.78	0.76	0.78	0.79	0.86	0.68	0.69	0.67	0.67	0.68	0.68	0.69	0.69	0.69	0.69	0.69	0.75	0.76	0.74	0.75	0.75	0.74	0.74	0.74	0.75	0.77	0.88	0.63	0.62	22.26	0.72			
Turbidity Information																																							
Raw Water		NTU	n/a	1.02	0.97	1.10	1.29	1.38	1.43	1.67	1.49	1.41	1.44	1.47	1.43	1.51	1.46	1.55	1.48	1.44	1.50	1.49	1.40	1.04	1.26	0.91	1.05	1.06	1.22	1.07	1.22	1.31	1.35	1.22	40.64	1.31			
Settled Water		NTU	n/a	0.59	0.56	0.52	0.48	0.41	0.32	0.19	0.15	0.14	0.12	0.28	0.20	0.19	0.20	0.17	0.37	0.28	0.22	0.33	0.31	0.28	0.30	0.23	0.25	0.22	0.28	0.27	0.36	0.25	0.33	0.32	9.10	0.29			
Treated Water		NTU	1	0.31	0.28	0.20	0.24	0.25	0.37	0.21	0.20	0.14	0.10	0.20	0.11	0.13	0.11	0.11	0.12	0.11	0.10	0.12	0.13	0.18	0.19	0.01	0.04	0.17	0.17	0.16	0.19	0.17	0.19	0.21	5.22	0.17			
Other Operating Parameters																																							
pH - Treated Water		no units	6.5 to 8.5	6.94	7.13	6.96	6.99	6.77	6.78	6.79	6.91	7.00	7.05	7.01	7.00	7.03	7.00	7.02	7.01	7.00	7.02	6.81	6.82	6.78	6.81	6.82	6.77	6.75	6.84	6.85	6.90	6.84	6.85	6.83	214.08	6.91			
pH - Settled water		no units	n/a	6.26	6.28	6.31	6.27	6.40	6.38	6.32	6.24	6.31	6.35	6.19	6.28	6.34	6.36	6.41	6.39	6.29	6.34	6.21	6.08	6.22	6.27	6.25	6.33	6.20	6.12	6.21	6.20	6.24	6.20	6.28	194.53	6.28			
pH - Raw Water		no units	n/a	6.85	6.80	6.88	6.79	6.60	6.80	6.75	6.78	6.77	6.75	6.77	6.68	6.66	6.71	6.70	6.73	6.79	6.83	6.80	6.78	6.78	6.79	6.77	6.77	6.73	6.73	6.66	6.71	6.69	6.66	6.70	6.73	208.14	6.75		
FAC - Treated Water		mg/l	0.2 to 4	2.18	2.11	2.04	2.13	2.15	2.07	1.82	1.85	1.92	1.96	1.90	1.92	1.98	1.90	1.87	1.92	1.94	1.87	1.98	1.88	1.94	2.02	1.96	1.87	2.04	1.83	1.80	1.70	1.76	1.70	2.04	60.15	1.94			
Total Chlorine Residual Treated		mg/l	0.3 to 7	2.40	2.32	2.22	2.36	2.42	2.36	2.26	2.04	2.07	2.17	2.22	2.24	2.32	2.34	2.26	2.17	2.24	2.26	2.20	2.20	2.42	2.18	2.22	2.20	2.20	2.15	2.09	1.90	2.06	1.99	2.40	68.88	2.22			
Temperature		C	15	9.0	9.0	9.0	9.0	9.0	9.0	9.0	10.0	11.0	12.0	9.0	8.0	7.0	8.0	9.0	10.0	11.0	12.0	13.0	14.0	13.0	13.0	13.0	13.0	12.0	13.0	12.0	12.0	11.0	11.0	12.0	332.00	10.71			
Fluoride used (Total Daily Consumption)		kg	n/a	23.0	23.0	24.0	22.0	23.0	23.0	24.0	28.0	26.0	25.0	25.0	25.0	24.0	24.0	23.0	24.0	23.0	24.0	23.0	21.0	22.0	21.0	24.0	25.0	24.0	23.0	23.0	23.0	24.0	23.0	24.0	734.00	23.68			
Chlorine used (Total Daily Consumption)		kg	n/a	22.0	21.0	22.0	21.0	21.0	22.0	22.0	20.0	20.0	20.0	20.0	21.0	21.0	20.0	21.0	20.0	20.0	21.0	23.0	22.0	22.0	22.0	21.0	22.0	22.0	22.0	23.0	22.0	22.0	21.0	25.0	666.00	21.48			
Soda ash (Total Daily Consumption)		kg	n/a	185.5	185.2	188.3	185.5	186.5	197.2	198.3	187.6	196.5	192	188.3	193.1	192.4	188.7	196.5	189.1	192.8	192.8	197.2	192.4	192.8	193.9	181.7	193.1	197.6	199.4	193.5	191.3	197.2	200.2	191.7	1058.00				
Soda Ash - Dosage		mg/l	n/a	35.0	35.0	35.0	35.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	1139.00	36.74			
Alum residual - (Total Daily Consumption)		kg	n/a	185.5	185.2	188.3	185.5	180.5	181.2	182.2	172.4	180.5	176.5	173.1	177.5	176.8	173.4	180.5	173.7	177.1	177.1	181.2	176.8	177.1	178.2	166.9	177.5	181.0	183.3	177.8	175.8	181.2	183.9	176.1	4675.78				
Alum residual - Dosage		mg/l	n/a	35.0	35.0	35.0	35.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	#REF!	34.13		
Alum residual - Treated Water		mg/l	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.0	#REF!	#REF!			
Poly bags added (25 kg bags)		kg																																0.00	#DIV/0!				

4.91
0.00
2.84
0.00
0.000

July 28, 2020

Report To: Mayor & Council

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

SUBJECT: June 2020 Drinking Water Systems Monthly Summary Report

Please find attached the June 2020 Summary Report on the drinking water systems, prepared by Brad Webb, Senior WTP Operator.

Your Administration recommends that Operations & Facilities Executive Committee accept the June 2020 report as presented.

Respectfully submitted,
Operations & Facilities Division

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

Council approval of this report will accept the June 2020 report prior to it being made available to the general public.

c.c. – Craig Miller, P.Eng., Environmental Superintendent
Brad Webb, ORO, Senior WTP Operator

June 2020

**Monthly Summary Report
Water Systems**

**Prepared by: Brad Webb, ORO
Senior Water Treatment Plant Operator**

Dated: July 15, 2020

1) **Introduction:**

This report contains the major maintenance activities and operational events that occurred during the month of June 2020 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 June 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.

1 Adverse Sample from Point Park Camprground – reopening sample
Re-sampled per MECP requirements and tested okay.

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. 940 Third St. E.	2. 401 King's Hwy.	3. 901 Wright Ave.	4. W. Tower
5. 943 Third St. E.	6. 401 King's Hwy.	7. 901 Wright Ave.	8. W. Tower
9. 1111 First St E.	10. 1324 Kings Hwy.	11. 901 Wright Ave.	12. W. Tower
13. 1017 Cornwall Ave.	14. 401 King's Hwy.	15. 901 Wright Ave.	16. W. Tower

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

New drinking water system put online 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 June 23, 2020 – 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 01st -Changed membrane on Chlorine analyzer.

June 03rd -Calibrated chlorine analyzer.

June 04th - Cleaned top and bottom tanks on poly unit.
- Cleaned all four (4) check valves on poly unit.

June 09th - Calibrated distribution chlorine analyzer.

June 11th -pulled motor off back wash pump and replaced it with spare motor.
- Cleaned top and bottom tanks on poly unit.
- Cleaned all four (4) check valves on poly unit.

June 12th - Took grab samples off the filters.
-Calibrated fluoride analyzer.

June 17th - Calibrated fluoride analyzer.

June 24th -Took grab samples off the filters.

June 25th - Cleaned all four (4) check valves on the poly unit.

June 26th - Cleaned top and bottom tanks on poly unit.

8) **Water Complaints:**

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

9) **Other Miscellaneous Information:**

June 01st - Routine micro sample collection.

June 03rd -first set of bacti samples on Colonization Rd. West.

June 04th -first set of bacti samples on Scott St from Reid Ave. to Mini Ave.
- second set of bacti samples on Colonization Rd. West.

June 05th -second set of bacti samples on Scott St from Reid Ave. to Mini Ave.

June 08th - Routine micro sample collection.

June 09th – resampled on Scott St from Reid Ave. to Mini Ave. first set never got to lab on time.

June 10th -Backwash pump blew up took off line.

June 15th - Routine micro sample collection.
-took seasonal samples at Point Park.
-took samples at Colonization Road West Temp Main. 1st set.

June 16th -took samples at Colonization Road West Temp Main. 2nd set.
-took samples for tie in at Reid Ave. and Scott St. 1st set.

June 17th -Adverse Sample at Point Park seasonal line.
-Called all the appropriate people.
-Resampled Point Park.
-took samples for tie in at Reid Ave. and Scott St. 2nd set.

June 18th -took samples for tie in at Mini Ave. and Scott St. 1st set.

June 22nd - Routine micro sample collection.

- took samples for tie in at Mini Ave. and Scott St. 2nd set.
- took seasonal samples at Sorting Gap Marina.

June 23rd -Did Quarterly samples.

June 24th-Changed chlorine tank.

- Took samples for Church St. watermain repair. 1st set.

June 25th - Took samples for Church St. watermain repair. 2nd set.

June 29th - Routine micro sample collection.

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:

- Brad Webb, ORO, Senior WTP Operator: _____
- Craig Miller, P.Eng. Environmental Superintendent: _____
- Travis Rob, P.Eng. Manager of Operations & Facilities: _____
- Doug Brown, P.Eng. 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 Brad Webb, Senior WTP Operator at 274-2325.

Flow and Operating Data

Flow Data JUNE	Units	2018		2019		2020	
Total Raw Water	m ³		160740		161220		169000
Raw Maximum Day	m ³		5660		6910		6060
Raw Minimum Day	m ³		5120		5060		5110
Raw Average Daily Consumption	m ³		5360		5370		5630
Total Treated Water	m ³		119760		110860		115660
Treated Water Maximim Day Consumption	m ³		5080		4760		5380
Treated Water Minimim Day Consumption	m ³		2990		3060		2960
Treated Water Average Day Consumption	m ³		3990		3700		3860
Daily Average Per Household Consumption Rate	m ³		1.055		0.978		1.020
* Daily Average Per Person Consumption Rate	m ³		0.500		0.463		0.483
Monthly Averages - Operating Parameters WTP:							
FAC Residual - Treated Water	mg/L		1.94		2.11		1.96
Total Chlorine Residual - Treated Water	mg/L		2.23		2.40		2.21
Aluminum Sulphate - Raw Water	mg/L		35.00		35.00		37.00
Aluminum Sulphate - Treated Water Residual	mg/L		0.02		0.02		0.04
Fluoride - Treated Water	mg/L		0.70		0.73		0.68
Soda Ash - Raw Water	mg/L		35.00		35.00		34.00
pH - Adjusted			7.14		7.30		6.97
Temperature	°C		18.87		15.60		16.20
Quantity of Chemical Used:							
Aluminum Sulphate	kg		5625.90		5642.70		6253.00
Polyelectrolyte	kg		112.50		62.50		62.50
Chlorine Gas	kg		767.00		765.00		799.00
Soda Ash - Used for pH Adjustment	kg		5625.90		5642.70		5746.00
Fluoride	kg		489.00		681.00		751.00

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

* Population is 7986

* Number of Households is 3783



Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Fort Frances WPCP
200 McIrvine Rd
Fort Frances, Ontario
P9A 3S3
Tel: 807-274-3121
Fax: 807-274-8381

July 13, 2020

Town of Fort Frances
320 Portage Avenue
Fort Frances Ontario
P9A 3M5

Attention: Mr. Craig Miller
Environmental Superintendent

Dear Craig:

**Re: Fort Frances Wastewater Treatment Facility
June 2020 Monthly Report**

As per the operating agreement, the attached document is the June 2020 monthly report for the Fort Frances Wastewater Treatment Facility.

The report highlights the influent and effluent quality and the process parameters. Additionally, the routine operation and maintenance activities conducted by the operators are summarized.

If you have any questions regarding this report do not hesitate to contact Mr. Brad McMahon, Senior Operations Manager.

Yours truly,

A handwritten signature in black ink, appearing to read 'Kelly CTD'.

Kelly Cunningham
Team Lead

For Brad J. McMahon
Senior Operations Manager

**The Corporation of the Town of Fort Frances
Wastewater Treatment Plant
(Sewage Plant)
June 2020 Monthly Operations Report**

INTRODUCTION

In accordance with the Agreement between the Ontario Clean Water Agency (Operating Authority) and the Town of Fort Frances, the Fort Frances Sewage Treatment Plant is required to prepare a monthly report. This document covers the reporting month of June 2020; the facility performance report summarizes important information regarding the quality of the effluent, wastewater, analytical test results, maintenance operations, and relevant activities of the WWTP.

DESCRIPTION OF WORKS

Capacity of Works	9000 m ³ /day (average flow)
Service Area	Town of Fort Frances and Couchiching Reserve
Service Population	9000
Effluent Receiver	Rainy River
Major Process	Secondary treatment facility complete with a phosphorus removal system; ultra violet disinfection; aerobic sludge stabilization and dewatering

The Fort Frances Sewage Treatment Plant operates under *Environmental Compliance Approval Number 6786-A44PWG*. The ECA outlines the terms and conditions, and the report captures these terms and conditions in the following sections.

LABORATORY

ALS Laboratory Group – Thunder Bay is contracted to conduct the required analytical tests of the influent (raw) and effluent samples; weekly requirement.

JUNE 2020 EFFLUENT QUALITY

<i>Parameters</i>	<i>Monthly Actual Concentration mg/L</i>	<i>Compliance Criteria Concentration mg/L</i>	<i>Performance Objective Concentration mg/L</i>	<i>Monthly Actual Loading, kg/d</i>	<i>Compliance Criteria Loading kg/d</i>	<i>Performance Objective Loading kg/d</i>
CBOD ₅	2.3 mg/L	25 mg/L	15 mg/L	13.7 kg/d	225 kg/d	135 kg/d
Total Suspended Solids	3.8 mg/L	25 mg/L	15 mg/L	23.7 kg/d	225 kg/d	135 kg/d
Total Phosphorus	0.13 mg/L	1.0 mg/L	0.9 mg/L	0.81 kg/d	9 kg/d	8.1 kg/d
Total Nitrogen Nitrate Nitrogen	12.48 mg/L 5.46 mg/L					
Total Cl ₂ Residual		<0.01 mg/L (when in use)				
E-Coli		15.2 count/100 ml (geometric mean)		200 count/100ml (geometric mean)		E-coli not to exceed 150 organisms/100ml (monthly geometric mean density)
pH				pH range 6.9 to 7.2; average pH was 7.1		
Temperature degrees C				Temperatures ranged from 10.5 to 14.0 C; average temperature of effluent was 12.0 C		

Compliance criteria are mandatory requirements of the ECA and performance objectives are a goal to be achieved using best reasonable efforts.

WASTEWATER LIQUID PROCESS

The average daily flow for June was 6308.4 m³/day. This represents 70% of the design average flow. Total treated flow for the month was 189252 m³.

The Fort Frances WWTP met all effluent compliance criteria for the parameters listed above and additionally was well within the recommended more stringent monthly performance objectives as outlined in the Environmental Compliance Approval.

MAINTENANCE

The operators performed the routine operations and maintenance at the treatment plant and pumping stations. The activities are highlighted as follows and a summary will be included:

Treatment Plant:

- Alternated lead/lag pumps
- Adjusted fluidizing water to head cell and grit snail as needed
- Greased all blowers
- Regular cleaning of head works EW basket strainer
- Greased Grit Snail and lubricated drive chain
- Monthly inspection of spiral screen access hatch, removed wrapped debris
- Weekly manifold wash and restrictor cleaning on the Fournier press
- Drained and inspected teacup, hosed snail
- Flushed digester level sensor
- Cleaned DO probes
- Calibrated both DO probes to saturated DO reference

Pump Stations:

- Ran gensets
- Changed seal water strainers

PROCESS AND OPTIMIZATION ISSUES

SLUDGE SUMMARY

Dennis Robinson Limited hauled a calculated total of 131.0 m³ (13 bins) of thickened digested sludge to the Town of Fort Frances landfill site. The hauled sludge averaged 17.9% TS for the month but slump test results from the landfill site have not been provided. The Fournier press ran for 149.6 hours in the past month.

COMPLAINTS

There were no complaints during the report period.

BYPASS/OVERFLOW REPORT(S)

There were no bypass events in the reporting period.

COMMENTS

Plant power consumption for the month was 446 (x 180 multiplier) kWh.
The Fournier press has been operated 822.4 hours in 2020.

REPORTS

ALS – Environmental Analytical Reports (on-file at plant)
Fort Frances WPCP Equipment Run Time Report (on-file at plant)
Bypass Report (on-file at plant as per occurrence)
Incident Report (on-file at plant as per occurrence)

2020 Fort Frances Wastewater

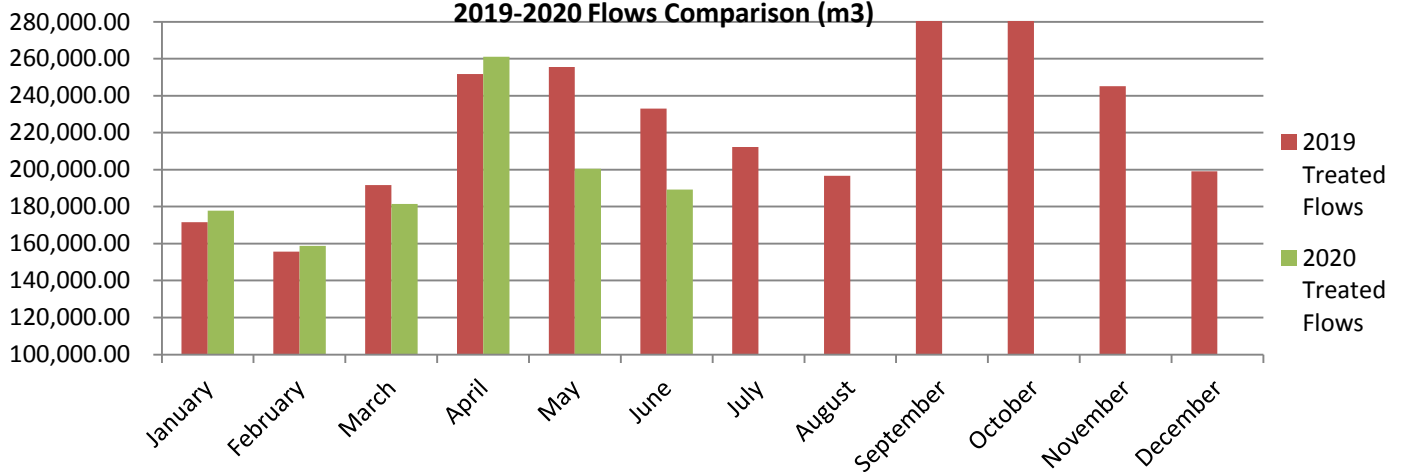
Month	Sewage Flows Year 2020						Usage		Calculated		Sludge		Removal Efficiency		
	Avg. Day	Max Day	Total	Total	Total	% Plant	Volume	Volume	Bins			CBOD5	Suspended Solids	Total Phosphorus	
	Flow	Flow	Treated	ByPass	Volume	Capacity	Hauled	Hauled							
	m3	m3	Volume ML	Volume ML	ML		M3								
January	5733.8	6060	177747		177747	64%	113.2		12						
February	5477.0	5861	158832		158832	61%	108.2		11						
March	5852.1	8845	181415		181415	65%	117.1		12						
April	8705.3	12162	261159		261159	97%	149.3		15						
May	6468.6	7612	200528		200528	72%	124.4		12						
June	6308.4	10580	189252		189252	70%	131		13						
July						0%									
August						0%									
September						0%									
October						0%									
November						0%									
December						0%									
Sum				0	1168933		743.2		75						
Average	6424		194822		194822	67%	123.9		12.5						
Max		12162	261159		261159				15						
ECA	9000	18000													

Month	BOD5/CBOD5			Suspended Solids			Total Phosphorus			Nitrogen		E. Coli Counts /100ml	pH	
	Avg. Raw BOD (mg/L)	Avg. Eff. CBOD (mg/L)	Avg. Load CBOD (kg/day)	Avg. Raw S.S (mg/L)	Avg. Eff. S.S (mg/L)	Avg. Load S.S (kg/day)	Avg. Raw T.P (mg/L)	Avg. Eff. T.P (mg/L)	Avg. Load T.P (kg/day)	Avg. Raw TKN (mg/L)	Avg. Eff. Total N (mg/L)		Monthly Minimum	Monthly Maximum
January	92.6	2.9	16.4	167.8	4.9	28.2	2.59	0.14	0.82	16.2	12.5	44.6	6.3	6.6
February	112.0	9.0	15.9	163.1	5.0	27.2	3.38	0.12	0.67	16.4	13.0	22.1	6.4	7.5
March	99.2	2.6	16.2	149.8	5.3	31.4	2.68	0.11	0.68	21.9	12.4	33.1	7.0	7.6
April	69.8	2.9	24.2	106.4	5.1	45.8	1.88	0.11	0.96	14.5	10.1	49.0	7.0	7.4
May	75.8	2.2	14.2	133.1	3.9	25.2	1.90	0.10	0.63	16.2	12.3	14.1	7.0	7.3
June	79.6	2.3	13.7	154.9	3.8	23.7	1.59	0.13	0.81	17.5	12.5	15.2	6.9	7.2
July														
August														
September														
October														
November														
December														
Average	88.2	3.7	16.8	145.9	4.7	30.3	2.3	0.12	0.76	17.1	12.1	29.7	6.8	7.3
Max	112	9	24.2	167.8	5.3	45.8	3.4	0.14	0.96	21.9	13	49	7	7.6
ECA		25	225		25	225		1.0	9.0			200	6.0	9.5

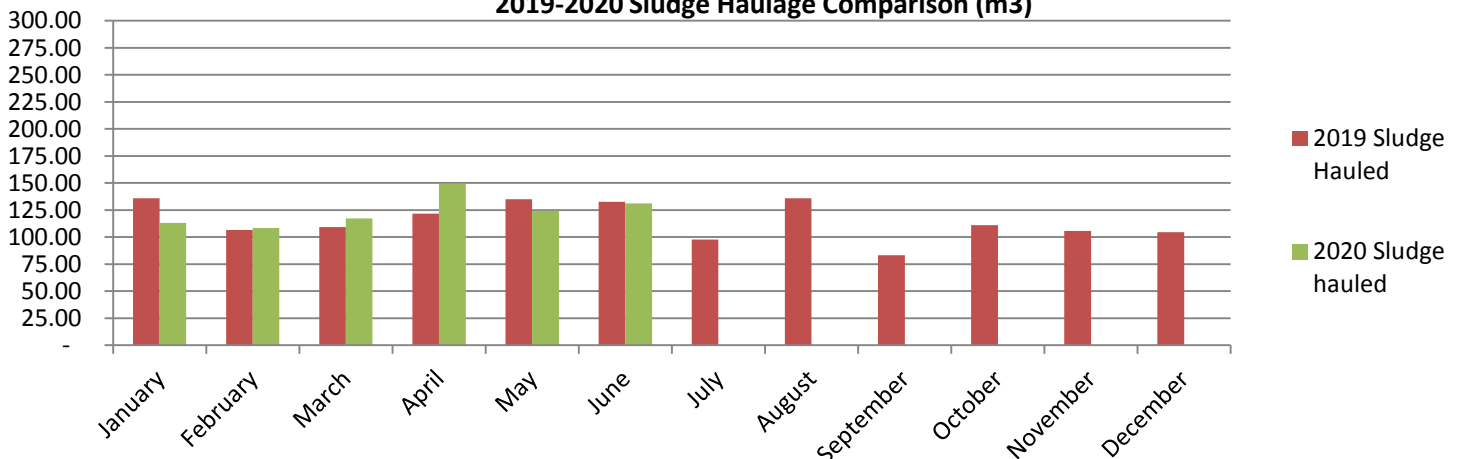
2019-2020 Comparison Chart

Month	2019 Treated Sewage	2020 Treated Sewage	% Variance 2019 to 2020	2019 Hauled Sludge	2020 Hauled Sludge	% Variance 2019 to 2020
	m3	m3	m3	m3 (calculated)	m3 (calculated)	m3
January	171,621.00	177,747.00	3%	136.00	113.20	-17%
February	155,707.00	158,832.00	2%	106.70	108.20	1%
March	191,603.00	181,415.00	-6%	109.20	117.10	7%
April	251,711.00	261,159.00	4%	121.60	149.30	23%
May	255,574.00	200,528.00	-27%	135.00	124.40	-8%
June	233,001.00	189,252.00	-23%	132.60	131.00	-1%
July	212,351.00		#DIV/0!	97.70		-100%
August	196,772.00		#DIV/0!	136.00		-100%
September	315,918.00		#DIV/0!	83.10		-100%
October	441,076.00		#DIV/0!	111.10		-100%
November	245,097.00		#DIV/0!	105.70		-100%
December	199,047.00		#DIV/0!	104.50		-100%
Totals	2,869,478.00	1,168,933.00	-145%	1,379.20	743.20	-46%

2019-2020 Flows Comparison (m3)



2019-2020 Sludge Haulage Comparison (m3)



Workorder Summary Report

Report Start Date: Jun 1, 2020 12:00 AM

Report End Date: Jun 30, 2020 11:59 PM

Location: 1103*

Work Order Type: ADMIN,CALL,CAP,CORR,EMER,OPER,PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
1793861	0000246428	PUMP CENT BOUNDARY P1	1103, Boundary Pumping Station, Process	CALL	Refurbish/ Replace/Repair	0		Boundary LS High Level Alarm 1103	COMP		6/22/20 02:02 PM	6/22/20 02:07 PM	Boundary Lift Station High Level Alarm -I arrived at the plant to find the lift station to be acting normal so I reset the alarm and monitored , No further issues.
1790876	0000246436	PANEL CONTROL PCL	1103, Boundary Pumping Station, Facility	CALL	Refurbish/ Replace/Repair	0		Boundary Rd fire alarm call in 1103	COMP		6/2/20 04:00 AM	6/2/20 06:00 AM	Boundary Rd fire alarm call in 1103 -I was called for a Boundary Rd. fire alarm at 0400 hours. After driving to the plant I found that there were several alarms for Boundary road lift station visible on the SCADA screens. They all cleared and the station was functioning properly so this was just a PLC glitch.
1764373			1103, Fort Frances WPCP, Facility, Safety Equipment	PM	Health and Safety	1	YEARS	Fire extinguishers annual inspections (1y)	COMP	6/1/20 12:00 AM	6/3/20 09:08 AM	6/3/20 09:08 AM	Fire extinguishers annual inspections (1y) -SPI completed the annual inspections on May 21st
1787168	0000227376	PANEL ALARM/ DIALER	1103, Fort Frances WPCP, Process, Process Control & Monitoring	PM	Inspection	1	MONTHS	Critical Alarm/Dialer Testing (1m) 1103	COMP	6/1/20 12:00 AM	6/22/20 02:11 PM	6/22/20 02:11 PM	Dialer -We test everyday. Dale Hughes
1787172			1103, Fort Frances WPCP	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Gensets Inspection/ Functional Tests (1m) 1103	COMP	6/1/20 12:00 AM	6/14/20 02:53 PM	6/14/20 02:53 PM	Diesel Gensets Inspection/ Functional Tests (1m) 1103 -Exercised all generators 1 hour
1787188			1103, Fort Frances WPCP	PM	Health and Safety	1	YEARS	Fire Protection System Inspection (1y) 1103	COMP	6/1/20 12:00 AM	6/28/20 02:19 PM	6/28/20 02:19 PM	
1787191			1103, Fort Frances WPCP	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1103	COMP	6/1/20 12:00 AM	6/19/20 07:00 AM	6/19/20 08:00 AM	Monthly H&S -No Issues this month.
1787202			1103, Fort Frances WPCP	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 1103	COMP	6/1/20 12:00 AM	7/1/20 12:59 PM	7/1/20 12:59 PM	
1787525			1103, Fort Frances WPCP	PM	Inspection	1	MONTHS	Blowers/Motors Inspection/Service (1m/3m) 1103	COMP	6/1/20 12:00 AM	6/22/20 02:14 PM	6/22/20 02:14 PM	Monthly Blowers -I greased all blowers. Dale Hughes
1787535	0000246402	CENTRIFUGE GS2-2-1 TEACUP/ GRIT SNAIL	1103, Fort Frances WPCP, Process, Primary Treatment, Primary Sludge Degritting	PM	Inspection	1	MONTHS	Teacup Centrifuge Inspection/ Service (1m/3m/1y) 1103	COMP	6/1/20 12:00 AM	6/21/20 01:00 PM	6/21/20 02:00 PM	Teacup -I checked for debris and found very little.

TOWN OF FORT FRANCES
Operations and Facilities Division - Environmental Area - Operations Statistics
April-20

STAFFING:

See Operations Statistics prepared by M. Strachan, Superintendent of Transportation

OVERTIME HOURS - Equivalent Straight Time Hours

See Operations Statistics prepared by M. Strachan, Superintendent of Transportation

WATER DISTRIBUTION & WASTE WATER COLLECTION:

See Monthly Summary (Attached)
Repaired water main break at 1322 Colonization Road West
Replaced HYD201 body
Adjusted multiple curbstops and valve boxes
Flushing and valve turning program started
Makkinga mobilized at end of April for Scott Street construction
All training cancelled due to Covid-19
1 external plugged sewer
Pulled sewer mains as required.

WATER TREATMENT PLANT:

April 2020 - In receipt of the Water Treatment Plant Monthly Report
All training cancelled due to Covid-19
J. Bruyere completed winter cross-training at WTP.

WASTE-WATER TREATMENT FACILITY:

April 2020 - In receipt of the Wastewater Treatment Facility Monthly Report.
In receipt of Annual WWTP report by OCWA

WASTE MANAGEMENT:

Garbage Collection:

Garbage not picked up - 13 houses

Sanitary Landfill (Waste Disposal Site):

Landfill Scales functioning during this period.

Amount of residential waste (kg) delivered to the landfill:
284,220

Amount of ICI waste (kg) delivered to the landfill:
315,970

Recycling:

Recycle not picked up - 36 houses

Amount of recycled waste (Metric Tonnes) diverted from the landfill:
No Data (Emterra)

Prepared By: Craig Miller, P.Eng.



Environmental Superintendent

Date: 7/31/2020

TOWN OF FORT FRANCES
Operations and Facilities Division - Environmental Area - Operations Statistics
May-20

STAFFING:

See Operations Statistics prepared by M. Strachan, Superintendent of Transportation

OVERTIME HOURS - Equivalent Straight Time Hours

See Operations Statistics prepared by M. Strachan, Superintendent of Transportation

WATER DISTRIBUTION & WASTE WATER COLLECTION:

See Monthly Summary (Attached)
Turned on water at point park campground
Veert mobilized at end of May for Col. Rd. West project
Adjusted multiple curbstops and valve boxes
Flushing and valve turning program continues
Support Makkinga with valve turning, flushing and water sample testing.
All training cancelled due to Covid-19

WATER TREATMENT PLANT:

In receipt of the Water Treatment Plant Monthly Report
All training cancelled due to Covid-19

WASTE-WATER TREATMENT FACILITY:

In receipt of the Wastewater Treatment Facility Monthly Report.

WASTE MANAGEMENT:

Garbage Collection:

Garbage not picked up - 29 houses

Sanitary Landfill (Waste Disposal Site):

Landfill Scales functioning during this period.

Amount of residential waste (kg) delivered to the landfill:
384,700

Amount of ICI waste (kg) delivered to the landfill:
386,030

Recycling:

Recycle not picked up - 43 houses

Amount of recycled waste (Metric Tonnes) diverted from the landfill:
No Data (Emterra)

Prepared By: Craig Miller, P.Eng.



Environmental Superintendent

Date: 7/31/2020

TOWN OF FORT FRANCES
Operations and Facilities Division - Environmental Area - Operations Statistics
June-20

STAFFING:

See Operations Statistics prepared by M. Strachan, Superintendent of Transportation

OVERTIME HOURS - Equivalent Straight Time Hours

See Operations Statistics prepared by M. Strachan, Superintendent of Transportation

WATER DISTRIBUTION & WASTE WATER COLLECTION:

See Monthly Summary (Attached)
Turned on water at Sorting Gap Marina
Adjusted multiple curbstops and valve boxes
Flushing and valve turning program continues
Support Makkinga and Veert with valve turning, flushing and water sample testing.
All training cancelled due to Covid-19
Wessuc pulled sewers and CCTV in west end per year 2 of contract
Repaired water main valve at Church / Minnie
Sink holes discovered at York between 8th and 6th and Crowe / Scott. Both
due to sanitary sewer. Crowe/Scott repaired. York in July.

WATER TREATMENT PLANT:

In receipt of the Water Treatment Plant Monthly Report
All training cancelled due to Covid-19

WASTE-WATER TREATMENT FACILITY:

In receipt of the Wastewater Treatment Facility Monthly Report.

WASTE MANAGEMENT:

Garbage Collection:

Garbage not picked up - 23 houses

Sanitary Landfill (Waste Disposal Site):

Landfill Scales were down for approximately 3 weeks due to lightning strike and
waiting on parts to arrive. Repairs complete at end of June.

Amount of residential waste (kg) delivered to the landfill:
277,790

Amount of ICI waste (kg) delivered to the landfill:
317,210

Recycling:

Recycle not picked up - 31 houses

Amount of recycled waste (Metric Tonnes) diverted from the landfill:
No Data (Emterra)

Prepared By: Craig Miller, P.Eng.



Environmental Superintendent

Date: 7/31/2020

Water Works		Years			
DATE	WORK	2018	2019	2020	
Jan	THAW FROZEN WL	1	6	1	
	TURN WATER OFF	1	6		
	TURN WATER OFF/ON		4	5	
	TURN WATER ON	5			
Jan Total		11	17	1	
Feb	THAW FROZEN WL	27	11		
	TURN WATER OFF	3	3	1	
	TURN WATER OFF/ON		5	1	
	TURN WATER ON	3		5	
Feb Total		33	19	7	
Mar	THAW FROZEN WL	3	27		
	TURN WATER OFF		2		
	TURN WATER OFF/ON	3	3	1	
	TURN WATER ON	12	7	2	
Mar Total		18	39	3	
Apr	SET UP HYDRANT		1		
	THAW FROZEN WL		5		
	TURN WATER OFF	3	2	2	
	TURN WATER OFF/ON	1	1	1	
	TURN WATER ON	16	24	4	
Apr Total		20	33	7	
May	CHECK WATER SERVICE		1		
	CONNECTION INSPECTION	1	1		
	TRACE SERVICES		1		
	TURN WATER OFF	3	3		
	TURN WATER OFF/ON	1	3	1	
	TURN WATER ON	15	14	4	
	TURN WATER ON	1			
May Total		21	23	5	
Jun	RAISE CS TO GRADE	1			
	TRACE SERVICES		1	1	
	TURN WATER OFF	4	3		
	TURN WATER OFF/ON	3	3		
	TURN WATER ON	4	6	1	
Jun Total		12	13	2	
Grand Total		115	144	25	

Sewer Works		Years			
DATE	WORK	2018	2019	2020	
Jan	CCTV SEWER SERVICE	1	1	3	
	UNPLUG SANITARY SEWER	20	21	7	
Jan Total		21	22	10	
Feb	CCTV SEWER SERVICE	2	2	1	
	THAW FROZEN SEWER	1			
	UNPLUG SANITARY SEWER	20	10	6	
Feb Total		23	12	7	
Mar	CCTV SEWER SERVICE	1	1		
	CONNECTION INSPECTION		1		
	UNPLUG SANITARY SEWER	12	9	3	
Mar Total		13	11	3	
Apr	CCTV SEWER SERVICE	3	6		
	UNPLUG SANITARY SEWER	15	7	1	
Apr Total		18	13	1	
May	CCTV SEWER SERVICE	1			
	CONNECTION INSPECTION	1	1	1	
	THAW FROZEN SEWER	1			
	UNPLUG SANITARY SEWER	15	10	2	
May Total		18	11	3	
Jun	CCTV SEWER SERVICE		4	1	
	CONNECTION INSPECTION		1	1	
	TRACE SERVICES		2		
	UNPLUG SANITARY SEWER	14	3	1	
	INSTALL SEWER PUMP			1	
Jun Total		14	10	4	
Grand Total		107	79	28	

System Repairs		Years			
DATE	TYPE	2018	2019	2020	
Jan	CURBSTOP		1		
	SEWER SERVICE			2	
	WATERMAIN	1	1		
Jan Total		1	2	2	
Feb	CLEANOUT			2	
	CURBSTOP		8		
	SEWER SERVICE		1		
	WATER SERVICE	2			
Feb Total			13		
Mar	CLEANOUT		2		
	CURBSTOP		2		
	WATER SERVICE	2		1	
	WATERMAIN			1	
	SAN MANHOLE			1	
Mar Total		2	4	3	
Apr	CLEANOUT		1		
	CLEANOUT/CURBSTOP			1	
	CURBSTOP	1	9	13	
	MANHOLE		2		
	SEWER MAIN		1		
	WATER MAIN	1			
	WATER SERVICE	1			
Apr Total		4	13	13	
May	CLEANOUT		3	4	
	CLEANOUT/CURBSTOP		1		
	CURBSTOP	4	8		
	MANHOLE		1		
	SEWER SERVICE		2		
	WATER SERVICE		1		
	WATERMAIN	4	1		
May Total		12	17		
Jun	CURBSTOP		5		
	MANHOLE	1			
	WATER SERVICE		2		
	WATERMAIN	1	1		
Jun Total		2	8		
Grand Total		21	57	18	