

TOWN OF FORT FRANCES

Operations and Facilities Executive Committee

AGENDA - June 22, 2016, 8:30 AM

MEETING - Civic Centre

Session #012

	Page
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>	
3..1 Minutes from the meeting of this Committee on June 8, 2016.	2 - 3
4. <u>Non-agenda Items</u>	
5. <u>New Business</u>	
5..1 Purchase of Traffic Logix SafePace 450 Radar Speed Sign	4 - 12
5..2 Tender - Selection of Municipal Special or Hazardous Waste (MSHW) Service Provider to Host a Household Hazardous Waste Drop off Day Event in 2016	13 - 21
5..3 May 2016 Drinking Water Systems Monthly Summary Report	22 - 30
6. <u>Information</u>	
6..1 Fort Frances Wastewater Treatment Facility May 2016 Monthly Report	31 - 36
6..2 Sewer and Water Data for 2016 - updated May 31, 2016	37
6..3 Aircraft Landings 2016 - as of May 31, 2016	38 - 39
7. <u>Adjourn / Next Meeting Date</u>	

TOWN OF FORT FRANCES

MINUTES

SESSION NO. #011

June 8, 2016

The meeting of Operations & Facilities Executive Committee of the Town of Fort Frances was held in the Civic Centre on June 8, 2016 from 8:35 a.m. to 9:35 a.m.

PRESENT: Doug Kitowski, June Caul, and Doug Brown.

ALSO PRESENT:

1. Call to Order

The meeting was called to order at 8:35 a.m.

2. Disclosure of pecuniary interest and the general nature thereof

None

3. Approval of Previous Committee Minutes

- 3.1 Minutes from the meeting of this Committee on May 18, 2016 - the minutes were approved as circulated.

4. Non-agenda Items

In - camera item

- 4.1 Syncor Development at 625 Nelson Street

5. New Business

- 5.1 Tender No. 16-OF-11 - Three Year Contract for Asphalt Patching - the Operations and Facilities Manager handed out the missing spreadsheet. The administration report was reviewed and will be forwarded to Council for approval.
- 5.2 In-Kind Services and Financial Support for the 2016 Fort Frances Canadian Bass Championship - the memo was reviewed where clarification was required in regards to whether or not the Town's work force was required to assist with the set up and take down of the main event tent. The Operations and Facilities Manager will contact Wayne Allen to determine if assistance will be required and the memo will go to the Administration and Finance executive committee. The Operations and Facilities executive committee recommends that the Town keep providing support to set up and take down the main event tent. Also that the FFCBC Organization will make a formal request to set up and take down the tent in 2017 and going forward into the future.

6. NON-AGENDA ITEMS

- 6.1 Syncor Development at 625 Nelson Street - At 9:20 a.m. the meeting went in-camera to discuss the progress of the development of 625 Nelson Street. The motion to go in-camera was moved by Doug Kitowski and seconded by June Caul. The in-camera portion of the meeting ended at 9:34 a.m.

7. Information

- 7.1 Operations and Facilities Division - Public Works Area - Operations Statistics - March 2016 - the Monthly Operations Statistics for March 2016 were reviewed and will be forwarded to Council as information only. No action required.

- 7.2 Operations and Facilities Division - Public Works Area - Operations Statistics - April 2016 - the Monthly Operations Statistics for April 2016 were reviewed and will be forwarded to Council as information only. No Action required.

8. Adjourn / Next Meeting Date

The meeting adjourned at 9:35 a.m.

Executive Committee Chair

D. Brown, Manager of Operations & Facilities

June 15, 2016

Report To: Mayor & Council

From: Doug Brown, Manager of Operations & Facilities

SUBJECT: Purchase of Traffic Logix SafePace 450 Radar Speed Sign

There is a capital budget allocation of \$10,000 to purchase two radar speed signs for the community. After an extensive investigation into what different radar speed signs are available and serviced in the area, it appears that Traffic Logix signs are very commonly used in the province of Ontario, Manitoba, Saskatchewan & Alberta. Airmasters Signs are the local distributor of the Traffic Logix product line.

As a result of not being able to obtain three written quotes from three different suppliers for the Traffic Logix SafePace 450 Radar sign we are not purchasing these goods in accordance with the Town's procurement policy 1.12. At this time Council approval is requested.

The action plan going forward is to purchase one radar speed sign to be installed along King's Hwy 11-71 on the boulevard just west of the Holmes Avenue intersection for west bound traffic. Also an additional universal mounting plate will be purchased to allow the radar speed sign to be relocated to any other street within the Community for up to a week in duration. The OPP and the O & F division will assess the effectiveness, size, shape, data collection/downloading functionality to ensure it meets the needs of the Community prior to purchasing another sign.

The Operations & Facilities Executive Committee recommend the following:

- That administration be authorized to purchase one Traffic Logix SafePace 450 radar speed sign c/w all hardware at a net cost of \$4,784.25 from Airmaster Signs.
- If the Traffic Logix SafePace 450 radar speed sign meets the needs of the Community, Administration will be authorized to purchase the same traffic sign at the same net cost.

Respectfully submitted,
Operations & Facilities Division



Doug Brown, P. Eng.
Operations & Facilities Manager

Council approval of this report will ensure the following:

- 1) That administration be authorized to purchase one Traffic Logix SafePace 450 radar speed sign c/w all hardware at a net cost of \$4,784.25 from Airmaster Signs.
- 2) If the Traffic Logix SafePace 450 radar speed sign meets the needs of the Community, Administration will be authorized to purchase the same traffic sign at the same net cost.



QUOTATION

Company: Fort Frances
 Contact: Gerry
 Phone: 807 274 2036
 Fax:
 Email: gfwaley@fort-frances.com

August 26, 2015

Thank you for the opportunity to quote on your signage requirements.

As per your request for pricing:

QTY	SIZE	DESCRIPTION	UNIT PRICE	TOTAL PRICE
1		SP450 Solar Powered Speed Reader	\$3,999.99	\$3,999.99
1		Universal Bracket (C/W one pole plate)	\$175.00	\$175.00
1		Additional Pole Plate	\$79.00	\$79.00
1		Data Collection	\$450.00	\$450.00
			TOTAL	\$4,703.99

Specifications:

Substrate: 5052 H38 Sign Grade Aluminum (2mm Thickness)

NOTES:

Delivery time approx 10-15 working days

Taxes Extra

Prices in effect for 45 days.

If you have any questions please call me.

Ryan Montgomery
 Airmaster Sales Ltd.
 Phone (204) 944-SIGN (7446) Cell (204) 781 2966
 Toll Free 1 800 788 6805

400 Keewatin Street
 Winnipeg, MB R2X 2R9
 Fax (204) 632 9747
 Toll Free 1 877 632 9747
ryanm@airmastersales.com

Traffic Logix® SafePace® 450 Radar Speed Sign

Product Specifications



Dimensions

- Digit: 15.0"(h) x 8.0"(w), 112 LEDs per digit
- Text:
 - Full Size: Letters 6.0"(h) spell "YOUR SPEED" fixed message, 2 lines
 - Compact Size: Letters 4.0" (h) spell "YOUR SPEED" fixed message, 1 line
- Unit alone: 21.5"(h) x 26.0"(w) x 3.0"(d)
- Unit with "YOUR SPEED" sign mounted:
 - Full Size: 40.0"(h) x 30.0"(w) x 3.0"(d)
 - Compact Size: 28.0"(h) x 28.0"(w) x 3.0"(d)
- Sign Weight (unit alone without "YOUR SPEED" sign)
 - AC Powered Model: 18 lbs
 - 4 Cell Battery Powered Model: 22 lbs
 - Solar Powered Model: 20 lbs (does not include solar panel or solar panel bracket)
- Accessories
 - 4 Cell Lithium Ion Battery: 4 lbs
 - Universal Mounting Bracket System
 - Sign Bracket: 2 lbs
 - Pole Bracket: 5 lbs

*ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



Traffic Logix® Corp. | 3 Harriet Lane | Spring Valley, New York 10977
(866) 915-6449 F (866)995-6449 | www.trafficlogix.com | info@trafficlogix.com
©2013 Traffic Logix® Corporation

T

Ver. 1.0

Page 7 of 39

- Enclosure
 - 12 gauge aluminum, flat black powder coated front for reduced glare and maximum contrast; light gray powder coated body to minimize heat absorption
 - Weatherproof, NEMA 4X-12, IP65 level compliant
 - Non-sealed and ventilated
- Mounting Options
 - Banding brackets (standard)
 - Universal Mounting Bracket System
 - Universal mounting options: circular, square and telspar poles
 - Theft resistant
 - Promotes sign portability: sign locks into mounting bracket with a turn of a key

Communication

- Bluetooth 3.0
- Wi-Fi

Programming

- SafePace® Pro management software
- 24/7 365 day unlimited programming and scheduling
- Display Settings:
 - Display On/Stealth Modes (In Stealth Mode, speed is not displayed but data is collected)
 - Display Minimum Speed, Display Maximum Speed
 - Digit Flashing Speed Threshold (digits flash above selected speed)
 - Speed Violator Strobe (pulsing strobe flashes with digits or alone above Display Maximum Speed)

***ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE**



Traffic Logix® Corp. | 3 Harriet Lane | Spring Valley, New York 10977
 (866) 915-6449 F (866)995-6449 | www.trafficlogix.com | info@trafficlogix.com
 ©2013 Traffic Logix® Corporation

T

Ver. 1.0

Data Collection and Statistical Analysis & Reporting (optional feature)

- Traffic data collected and stored by location
- Stealth Mode (capture baseline traffic data with speed display off)
- Download through wireless connection
- Statistical Reporting & Charts
 - Summary Reports
 - Weekly Reports
 - Period Comparison Reports
 - Full custom reports and charts
 - Reporting Parameters:
 - Average Vehicle Count
 - Total Vehicle Count
 - Average Speed
 - Average Number of Speed Violations
 - Total Number of Speed Violations
 - Other Features:
 - Minimum and Maximum Speed
 - 85% Speed
 - Counters by Speed Bins
 - 5 MPH Bin Resolution
 - Reports print directly or can be exported into CSV format, MS Excel, Adobe Acrobat PDF and HTML
 - Charts may be printed directly or converted into Adobe Acrobat PDF and picture formats

***ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE**



Traffic Logix® Corp. | 3 Harriet Lane | Spring Valley, New York 10977
(866) 915-6449 F (866)995-6449 | www.trafficlogix.com | info@trafficlogix.com
©2013 Traffic Logix® Corporation

T

Ver. 1.0

Technical Specifications:

- Miles Per Hour (mph) or Kilometers Per Hour (km/h)
- Aluminum protective cover: 0.1875" (d)
- Yellow or white High-Intensity prismatic reflective sheeting on the sign face with black colored text
- MUTCD approved colors and format
- Operating Temperatures F (C): -40° (-40°) to 185° (85°)
- Conformal coating on all circuit boards
- Power
 - Power input:
 - AC 100~240 VAC
 - 12 VDC
 - Built in ambient light sensing and automatic brightness control
 - Wireless battery charge monitor
 - Power Options
 - AC power input: 100~240 VAC
 - DC power input: 12 VDC
 - Solar power: 20 W solar panel
- Radar
 - Internal Radar: Doppler (FCC approved)
 - Radar RF out: 5 mW maximum
 - Radar f-center: 24.125 GHz center +/-25 MHz
 - Pickup distance: Up to 1,200 feet (366 m)
 - Beam angle: 11° x 11°
 - Beam polarization: Linear
 - FCC ID (Radar): TIADR1500
- Display
 - LEDs 245:
 - Digits: 224 Amber, 23°, 5 mm, luminous Intensity (5680 – 8200 mcd/LED)
 - Speed Violator Strobe: 21 White, 15°, 5 mm , luminous intensity (28,150 mcd/LED)
 - Optical lenses: 245 lenses
 - Ambient light sensor and automatic brightness adjustment

***ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE**



Traffic Logix® Corp. | 3 Harriet Lane | Spring Valley, New York 10977
(866) 915-6449 F (866)995-6449 | www.trafficlogix.com | info@trafficlogix.com
©2013 Traffic Logix® Corporation

T

Ver. 1.0

Warranty

Subject to the following conditions, Traffic Logix® Corporation ("Traffic Logix®") warrants that the SafePace® 400/450/500/600 Speed sign sold by it (the "Product") is free from defects in materials and workmanship with normal use and service. This limited warranty extends for TWO (2) calendar year beginning on the invoice date of the Product on the radar sign and TEN (10) years on the LEDs.

This limited warranty extends only to the original purchaser of the Product when purchased either directly through Traffic Logix® or through an authorized Traffic Logix® distributor and is not assignable or transferable to any subsequent purchaser or end-user. Traffic Logix's® obligation and liability under this warranty are expressly limited to repairing or replacing, at Traffic Logix's® option, defective products. In no circumstances shall Traffic Logix's® liability, whether in contract or tort, under any warranty, in negligence, or otherwise, exceed the amount of the purchase price of the product. Traffic Logix® shall not be liable for special, indirect, or consequential damages of any kind. This warranty does not cover damages resulting from normal wear and tear, incorrect installation or operation, use other than for the product's intended purposes, vandalism, and extraordinary environmental circumstances. Traffic Logix® reserves the right to charge for these damages to the product at rates normally charged for repairing such products not covered under this warranty. Damages resulting from any physical changes or alterations made to the product other than Traffic Logix® will render this warranty **VOID**. Using any parts or accessories not supplied or approved by Traffic Logix®, such as battery chargers, will further render the warranty **VOID**.

Traffic Logix® neither assumes, nor authorizes any person to assume for it, any other liability in connection with the sale of the Product, and there are no agreements or warranties collateral to or affecting this limited warranty. **THE LIMITED WARRANTY SET FORTH IN THIS AGREEMENT IS THE EXCLUSIVE AND SOLE WARRANTY APPLICABLE TO THIS PURCHASE. ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO THE IMPLIED WARRANTY OF MERCHANTABILITY AND THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY DISCLAIMED.**

Traffic Logix® does not warrant that any of its products will meet or comply with the requirements of any applicable federal, state or local safety code, law, regulation or ordinance ("Applicable Safety Laws"). Buyer acknowledges that Traffic Logix's® products are to be used only in accordance with the attached Conditional Terms of Use and any Applicable Safety Laws. Buyer agrees that there shall be no coverage or benefits of any kind under this limited warranty if it is determined by Traffic Logix® that the Product was not installed or used in accordance with the Conditional Terms of Use or Applicable Safety Laws, or if the Product has been altered in any way by anyone other than Traffic Logix®, or if the Product has been subject to any misuse or accident. In addition, Buyer assumes and agrees to

***ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE**



Traffic Logix® Corp. | 3 Harriet Lane | Spring Valley, New York 10977
(866) 915-6449 F (866)995-6449 | www.trafficlogix.com | info@trafficlogix.com
©2013 Traffic Logix® Corporation

T

Ver. 1.0

indemnify Traffic Logix® for all risk, liability or expense that results from any installation or use of the Product that is not in accordance with the Conditional Terms of Use or any Applicable Safety Laws.

Warranty Replacement Procedure

In order to submit a claim for the repair or replacement of the Product under this limited warranty, you must do the following:

- 1) Obtain a Return Materials Authorization number by contacting Customer Support. Do not ship your defective product to Traffic Logix® prior to contacting Customer Support.
- 2) A Customer Support agent will evaluate the Product to determine if it is defective. If the product is defective, then you will need to submit your contact information, and proof of purchase (including the date of purchase), in order to obtain repair or replacement parts.
- 3) The Customer Service Agent will provide you with instructions on how to have defective parts repaired or replaced.

***ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE**



Traffic Logix® Corp. | 3 Harriet Lane | Spring Valley, New York 10977
(866) 915-6449 F (866)995-6449 | www.trafficlogix.com | info@trafficlogix.com
©2013 Traffic Logix® Corporation

T

Ver. 1.0

June 16, 2016

Report To: Mayor & Council

From: Doug Brown, Manager Operations & Facilities

SUBJECT: Tender – Selection of Municipal Special or Hazardous Waste (MSHW) Service Provider to Host a Household Hazardous Waste Drop-off Day Event in 2016

The Town has tendered with the community of Dryden for a common Municipal Special or Hazardous Waste (MSHW) service provider to host a one-day household hazardous waste drop-off event in each community in 2016. In 2016 the City of Dryden was responsible for preparing the tender documents and specifications.

The Town's MSHW event day is scheduled for Saturday, September 17, 2016 starting at 9:00 am and ending at 3:00 pm. All citizens living in the Rainy River District will be allowed to drop off household hazardous waste at the Public Works Yard located at 900 Wright Avenue.

There was one tender submitted;

MSHW Service Provider	Subtotal	HST	Total Price
Miller Environmental Corporation	\$20,889.85	\$2,716.98	\$23,616.83

The Miller Group, out of Winnipeg was the only tender submitted. See attached Miller's schedule of fees for the MSHW event day services. Each community will authorize The Miller Group to be their 2016 MSHW service provider. The 2016 total estimated cost to the Town of Fort Frances without any reimbursement from Stewardship Ontario is \$21,267.69 (Town's portion of HST included) based on the quantity of MSHW materials collected in 2015. The 2016 approved operating budget has a net operating cost of \$5,000 where the total operating expenditure is estimated at \$22,000 and the revenue received is \$17,000. The exact net cost is very dependant on the amount and types of MSHW materials dropped off on the event day.

The Operations & Facilities Executive Committee recommends the following:

- 1) That the Miller Group out of Winnipeg be designated the Town 's 2016 MSHW service provider at an estimated cost of \$23,616.83 (includes HST) in accordance with the tender documents.

- 2) That the Town 's MSHW event day is scheduled on Saturday September 17, 2016 from 9:00 am to 3:00 pm.

Respectfully submitted,
Operations & Facilities Division



Doug Brown, P. Eng.
Manager Operations & Facilities

Council approval of this report will ensure the following:

- 1) That the Miller Group out of Winnipeg be designated the Town's 2016 MSHW service provider at an estimated cost of \$23,616.83 (includes HST) in accordance with the tender documents.
- 2) That the Town's MSHW event day is scheduled on Saturday September 17, 2016 from 9:00 a.m. to 3:00 p.m.

Appendix C

Cost Allocation Tables

The proponent shall use the Price Proposal Forms in this RFT/FRP. The following definitions apply to the items in the forms:

- a. **Transport container:** is the UN-approved container used to transport MHSW from the Municipality's depots to a Ministry of the Environment-approved facility licensed to manage MHSW. e.g. 202 L drum or labpack, 1m³ tote, or other. The unit price is the cost of one transport container, plus label, liner and packing material.
- b. **Recycling Option:** It is the unit price for recycling one full transport container and includes the cost of the transport container, transporting (in addition to any transportation in Table 5 below) the container to a recycling facility, if applicable. It includes the cost for processing and recycling or disposing of the empty MHSW containers or packaging, unless the bidder chooses to price the processing, recycling or disposing of empty paint containers separately (refer to Recyclability Status table url below). In the case where the contents of a package is recycled but the package itself is disposed the waste is still deemed to be recycled. See **Disposal Option:** is defined as the unit price for processing and disposing of one full transport container and includes the cost of the transport container, transporting (in addition to any transportation in Table 5 below) the container to a disposal facility, if applicable. It includes the cost for processing and recycling or disposing of the empty MHSW containers or packaging. In the case where the contents of a package are disposed but the package itself is recycled, (such as steel aerosol cans) the waste product is still deemed to be disposed.
- c. **Estimated Quantities:** are based on estimates and do not necessarily reflect actual quantities that may be received during the collection event.

Table 3- Activity-based Costs for the event day – Town of Fort Frances

Instruction to bidder

Mobilization costs includes the cost for the contractor's travel time to and from the event site, loading and unloading times, complying with reporting requirements and trucking costs.

Collection costs is the total cost for all activities related to receiving, sorting, packing and manifesting MHSW materials

Activity	Unit	Total Price
Travel Time to & from event	11_Hrs Lump Sum	\$6500.00
Loading & Unloading Times**	_3__Hrs Lump Sum	\$660.00
Collection Cost	Lump Sum	\$2900.00
Total	Lump Sum	\$10060.00

** this shall include the time required to load empty containers at the contractor's facility prior to event, unloading containers and setup at event, loading full containers after event, and unloading full containers at the contractor's facility after the event.

Table 4: MHSW costs – Town of Fort Frances

Consolidated Materials	Transport Container	Recycling Option [A]	Disposal Option [A]	Unit Price [B]	Estimated Quantity [C]	Total Price [B x C]
Paint						
145L	42.00/GL	\$728/GL		\$0.770/kg	5500kg	\$4235.00
Empty Paint Containers	42.00/GL	\$728/GL		\$0.770/kg	0	\$0.00
Flammables/Misc. Organics						
213I Solvents	42.00/GL	\$504/GL	\$	\$0.546/kg	1150kg	\$627.90
241I Halogenated Solvents	47.00/DM	\$	\$150/DM	\$0.96/kg	10kg	\$9.60
263B Lab Chemicals	47.00/DM	\$	\$225/DM	\$1.10/kg	20kg	\$22.00
Aerosols						
331I	47.00/DM	\$118/DM		\$0.80/kg	450kg	\$360.00
Single Use Dry Cell Batteries						
122C	47.00/DM	\$2.65/kg		\$2.88/kg	340kg	\$979.20
Rechargeable Batteries						

121C	47.00/DM	\$2.65/kg		\$2.88/kg	25 kg	\$72.00
Pressurised Containers						
331I	42.00/GL	\$365/GL		\$ 0.399	700kg	\$279.30
Pesticides						
242A	47.00/DM	\$	\$2.60/kg	\$2.83/kg	200kg	\$566.00
Pathological Waste (Sharps)						
312P	27.00/PT		\$120/PT	\$6.75/Kg	5 kg	\$33.75
Pharmaceuticals						
261A	47.00/DM		\$2.35/kg	\$2.58/kg	24kg	\$61.92
Fluorescent Lights						
146	26.00/BX	\$0.25/LFT		\$0.37/LFT	1500 lft	\$555.00
Corrosives						
148C Basic Inorganic	47.00/DM	\$	\$118/DM	\$0.80/kg	380kg	\$304.00
144C Acid	47.00/DM	\$	\$118/DM	\$0.80/kg	76kg	\$60.80
148C Acid Inorganic	47.00/DM	\$	\$118/DM	\$0.80/kg	160kg	\$128.00
Fertilizers						
147A	47.00/DM	\$	\$270/DM	\$1.55/kg	10kg	\$15.50
Oxidisers						
148	47.00/DM		\$433/DM	\$2.34/kg	100 kg	\$243.00
Fire Extinguishers (portable)						
	47.00/DM	\$	\$118/DM	\$0.80/kg	40 kg	\$32.00
Leachates						
149T	47.00/DM	\$	\$128/DM	\$0.85/kg	0	\$0.00
Mercury Devices						
148T	47.00/DM	\$	\$90.00	\$95.00	5 kg	\$475.00
Bulked Fuel						
221I	47.00/DM	\$	\$152/DM	\$0.97/kg	300 kg	\$291.00
Toxics						
148T Waste Lab Chemicals	47.00/DM	\$	\$178/DM	\$1.10/kg	25 kg	\$27.50
263I Adhesives	47.00/DM	\$	\$265/DM	\$1.52/kg	500kg	\$760.00

212L Antifreeze	47.00/DM	\$	\$0.27/Kg	\$0.50/kg	500 kg	\$250.00
252L Oil Filters	47.00/DM	\$	\$0.27/kg	\$0.50/kg	65 kg	\$32.50
Empty Oil Containers	47.00/DM	\$	0.27/kg	\$0.31/kg	348 kg	\$107.88
Bulked Oil	47.00/DM	\$	\$0.27/kg	\$0.50/kg	1750 kg	\$875.00
TOTAL (excluding flr. Lights):					12683 kg	\$10839.98

Table 5 : Summary Table – Total Cost (Tables 3 & 4) – Town of Fort Frances

Item	Table	Total
(De)Mobilization/Collection Costs:	3	\$10,060.00
MHSW Costs:	4	\$10,839.85
HST		\$2,716.98
Grand Total		\$23,616.83

20,899.85

Table 6- Activity-based Costs for the event day – City of Dryden

Instruction to bidder

Mobilization costs includes the cost for the contractor's travel time to and from the event site, loading and unloading times, complying with reporting requirements and trucking costs.

Collection costs is the total cost for all activities related to receiving, sorting, packing and manifesting MHSW materials

Activity	Unit	Total Price
Travel Time to & from event	8_Hrs Lump Sum	\$4700.00
Loading & Unloading Times**	3_Hrs Lump Sum	\$660.00
Collection Cost	Lump Sum	\$3340.00
Total	Lump Sum	\$8700.00

** this shall include the time required to load empty containers at the contractor's facility prior to event, unloading containers and setup at event, loading full containers after event, and unloading full containers at the contractor's facility after the event.

Table 7: MHSW costs - City of Dryden

(Municipalities to add or delete materials and codes for approved wastes to be received to ensure these match the site or event C of A.)

Consolidated Materials	Transport Container	Recycling Option [A]	Disposal Option [A]	Unit Price [B]	Estimated Quantity [C]	Total Price [B x C]
Paint						
145L	42.00/GL	\$728/GL		\$0.770/KG	8350kg	\$6429.50
Empty Paint Containers	42.00/GL	\$728/GL		\$0.770/KG	0	\$0.00
Flammables/Misc. Organics						
212I Aliphatic Solvents	42.00/GL	\$504/GL	\$	\$0.546	300kg	\$163.80
263A	47.00/DM	\$	\$178/DM	\$1.10/kg	940kg	\$1034.00
Aerosols						
331I	47.00/DM	\$118/DM	\$	\$0.80/kg	0	\$0.00
Single use Dry Cell Batteries						
122C	47.00/DM	\$2.65/DM		\$2.88/kg	400kg	\$1152.00
Rechargeable Batteries						
121C	47.00/DM	\$2.65/kg		\$2.88/kg	0	\$0.00
Pressurized Containers						
331I	42.00/GL	\$357/GL		\$0.399	560kg	\$223.44
Pesticides						
242A	47.00/DM	\$	\$2.60/kg	\$2.83/kg	240kg	\$679.20
Pathological Waste (Sharps)						
312P	27.00/PT		\$120/PT	\$6.75/kg	0	\$0.00
Pharmaceuticals						
261A	47.00/DM		\$2.35/kg	\$2.58/kg	5kg	\$12.90
Fluorescent Lights						
148T	26.00/BX	\$0.25/LFT		\$0.37/LF	2540 ft	\$939.80
Corrosives						
148A	47.00/DM	\$	\$118/DM	\$0.80/kg	2400kg	\$1920.00
Fertilizers						

147A	47.00/DM	\$	\$270/DM	\$1.55/kg	0	\$0.00
Fire Extinguishers (portable)						
	47.00/DM	\$	\$118/DM	\$0.80/kg	0	\$0.00
Leachates						
149T	47.00/DM	\$	\$128/DM	\$0.85/kg	0	\$0.00
Mercury Devices						
148T	47.00/DM	\$	\$90.00	\$95.00	5kg	\$475.00
Bulked Fuel						
221I	47.00/DM	\$	\$152/DM	\$0.97/kg	1200kg	\$1164.00
Toxics						
148C Inorganic Lab Chemicals	47.00/DM	\$	\$178/DM	\$1.10	1kg	\$1.10
212L Antifreeze	47.00/DM	\$	\$0.27/kg	\$0.50/kg	500 kg	\$250.00
252L Oil Filters	47.00/DM	\$	\$0.27/kg	\$0.50/kg	100 kg	\$50.00
Empty Oil Containers	42.00 GL	\$	0.27/kg	0.31/kg	348 kg	\$107.88
Bulked Oil	47.00/DM	\$	\$0.27/kg	\$0.50/Kg	1000 kg	\$500.00
TOTAL:					16489kg	\$15102.62

Table 8: Summary Table – Total Cost (Tables 6 & 7) – City of Dryden

Item	Table	Total
(De)Mobilization/Collection Costs:	6	\$8,700.00
MHSW Costs:	7	\$15,102.62
HST		\$3094.34
Grand Total		\$26,896.96

June 17, 2016

Report To: Mayor & Council

From: Doug Brown, Manager of Operations & Facilities

SUBJECT: May 2016 Drinking Water Systems Monthly Summary Report

Please find attached the May 2016 Summary Report on the drinking water systems, prepared by Randy White, Senior WTP Operator.

Your Administration recommends that Operations & Facilities Executive Committee accept the May 2016 report as presented.

Respectfully submitted,
Operations & Facilities Division



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

<p>Council approval of this report will accept the May 2016 Drinking Water Systems Monthly Summary Report and approve the report prior to it being made available to the general public.</p>

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

03CouncilwaterreportMarch 2015

May, 2016

**Monthly Summary Report
Water Systems**

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

Dated: June 16, 2016

1) **Introduction:**

This report contains the major maintenance activities and operational events that occurred during the month of May 2016 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 # 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. 1036 Victoria Ave.	2. 740 Sixth St. W.	3. 810 King's Hwy.	4. W. Tower
5. 740 Scott St.	6. 1150 Portage Ave.	7. 901 Wright Ave.	8. W. Tower
9. 1111 First St. E.	10. 1036 Victoria Ave.	11. 810 King's Hwy.	12. W. Tower
13. 401 Nelson St.	14. 901 Wright Ave.	15. 810 King's Hwy.	16. W. Tower

4) **Microbiological (Health Related) Water Analysis - Airport Groundwater Well # 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 purpose 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 -
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
26002736:**

Signs posted, exempt from testing.

7) Maintenance Activities at the WTP:

- May 03rd - calibrated distributor chlorine analyzer
 - calibrated Fluoride analyzer
- May 4th - set up analyzers so the each have their own power supply.
- May 5th - worked on Clear Well No. 2.
- May 7th - calibrated distribution chlorine analyzer
- May 10th - ran generator for 1 hour.
- May 16th - filled Clear Well No. 2 and sent samples to lab. - 1st set
- May 17th - left Clear Well No. 2 isolated and sent samples to lab. - 2nd set
- May 19th - calibrated distribution chlorine analyzer
- May 21st - put Clear Well No. 2 back on line after micros cleared.
- May 25th - worked on tower chlorine system.
- May 26th - Clear Tech here doing calibrations.
- May 27th - cleaned top and bottom tanks on poly unit.
 - cleaned all 4 checks valves on poly pumps

8) **Water Complaints:**

- Poor Pressure – 0 complaints
- Water Quality – 5 complaints

May 16, 2016 - 1312 Emo Rd. - Chlorine residual: 0.91 mg/L. Took water sample for bacti testing – clear.

May 24, 2016 – 944, 930, 936 and 900 Crowe Ave. – Discoloured water. Flushed hydrant (HYD235) in front of 920 Crowe Ave. until clear.

9) **Other Miscellaneous Information:**

- May 02nd - setting up Sunny Cove Water System.
 - took weekly routine bacti samples.
- May 03rd - took grab samples off the filters.
 - water main break repair - water samples - First St. W. (700 blk.) - 1st set.
- May 04th - water main break repair - water samples - First St. W. (700 blk.) - 2nd set.
- May 05th - water main break repair - water samples - Colonization Rd. W. at Armstrong Pl. - 1st set.
- May 09th - took the D.W.S.P. samples at plant.
 - took weekly routine bacti samples.
 - water main break repair - water samples –Colonization Rd. W at Armstrong Pl. - 2nd set.
- May 10th - water samples taken at Sunny Cove - 1st set.
 - seasonal samples at Point Park, Legion Park, and ball fields
- May 11th - water samples taken at Sunny Cove 2nd - set.
 - Q.M.S. internal audit.
 - took micro samples at 1312 Emo Rd. - customer complaint
- May 12th - seasonal samples at Vanjura and Sorting Gap.
- May 16th - took weekly routine bacti samples.
- May 18th - seasonal samples at point Park showers
 - temporary water main samples (Bay City) - Phair Ave.
 - did quarterly samples at the Plant and Tower
 - seasonal samples at Point Washroom and Lions Park.

- May 24th - took weekly routine bacti samples.
- May 25th - Q.M.S. meeting
- May 26th - new water main samples (Makkinga) - Lillie Ave. - 1st set.
- May 27th - new Water main samples (Makkinga) - Lillie Ave. - 2nd set.
- May 30th - took weekly routine bacti samples.
- temporary water main samples (Makkinga) - 1217 Scott St. and Harbourage

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: _____
- 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 May 2016

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	31	Total	Average		
		or Range																																			
Flow rates																																					
Raw Water	10³ M³	17	5.28	5.35	5.20	5.19	5.16	5.20	5.26	5.21	5.09	5.23	5.23	5.25	5.23	5.26	5.32	5.28	5.30	5.34	5.18	5.18	5.48	5.13	5.50	5.26	5.36	5.32	5.52	5.28	5.27	5.38	163.49	5.27			
Peak Instantaneous - Raw Water	L/s	n/a	60.54	60.6	61.07	60.55	60.64	60.80	60.54	60.60	60.60	61.20	61.30	61.14	61.54	61.74	61.46	61.63	61.80	61.82	62.05	62.00	62.05	62.22	62.18	61.81	62.05	62.12	62.39	62.59	62.68	62.82	63.08	1909.61	61.60		
Treated Water	10³ M³	17	3.63	4.03	4.01	3.55	4.15	4.15	3.73	3.87	3.77	3.72	3.64	3.57	3.76	4.10	3.25	3.38	3.24	3.49	3.73	4.02	4.05	4.18	3.92	3.86	4.26	4.32	3.94	4.00	3.34	3.58	4.34	118.58	3.83		
Peak Instantaneous - Treated Water	L/s	n/a	68.91	67.28	86.66	67.99	72.69	78.52	70.73	66.33	67.47	72.66	68.29	73.90	69.72	108.40	62.92	64.63	71.09	67.34	69.00	76.36	73.76	67.35	69.86	62.64	74.60	102.75	80.93	85.90	81.01	79.72	83.73	2313.14	74.62		
BackWash Water	10³ M³	n/a	0.267	0.225	0.240	0.264	0.223	0.236		0.265	0.229	0.238	0.257	0.238	0.234	0.260	0.230	0.247	0.260	0.230	0.228	0.244	0.249	0.228	0.244	0.251	0.226	0.245	0.213	0.226	0.242	0.159	0.226	7.124	0.237		
Fluoride Information																																					
Fluoride Residual - Treated Water	mg/l	0.5 to 0.8	0.64	0.78	0.80	0.63	0.70	0.60	0.62	0.65	0.51	0.65	0.56	0.59	0.54	0.61	0.63	0.63	0.58	0.73	0.77	0.72	0.70	0.72	0.69	0.59	0.69	0.70	0.53	0.71	0.70	0.61	0.68	20.26	0.65		
Turbidity Information																																					
Raw Water	NTU	n/a	0.77	0.75	0.82	0.78	0.81	0.86	0.89	0.88	1.11	1.13	1.02	1.09	0.98	1.10	1.07	1.13	1.11	1.13	1.16	0.92	0.99	1.02	1.19	1.17	1.21	1.29	1.10	1.15	1.12	1.17	1.15	32.07	1.03		
Settled Water	NTU	n/a	0.19	0.22	0.31	0.27	0.26	0.23	0.19	0.15	0.15	0.18	0.17	0.20	0.23	0.21	0.26	0.21	0.18	0.23	0.27	0.31	0.20	0.18	0.16	0.19	0.17	0.16	0.13	0.12	0.12	0.12	0.15	6.12	0.20		
Treated Water	NTU	1	0.11	0.09	0.12	0.09	0.09	0.11	0.10	0.09	0.08	0.08	0.10	0.08	0.09	0.08	0.11	0.10	0.11	0.09	0.09	0.11	0.09	0.08	0.08	0.09	0.08	0.08	0.10	0.08	0.07	0.08	0.07	2.82	0.09		
Other Operating Parameters																																					
pH - Treated Water	no units	6.5 to 8.5	7.39	7.49	7.49	7.50	7.50	7.4	7.37	7.25	7.41	7.46	7.55	7.56	7.59	7.49	7.48	7.48	7.63	7.57	7.66	7.65	7.41	7.46	7.4	7.51	7.53	7.15	7.50	7.41	7.40	7.34	7.40	231.43	7.47		
pH - Settled water	no units	n/a	6.26	5.99	6.17	6.35	6.34	6.41	6.35	6.41	6.45	6.52	6.53	6.63	6.68	6.62	6.62	6.63	6.60	6.73	6.69	6.59	6.29	6.34	6.37	6.66	6.50	6.31	5.97	5.91	5.95	5.96	5.93	197.76	6.38		
pH - Raw Water	no units	n/a	7.29	7.44	7.42	7.41	7.42	7.41	7.40	7.45	7.49	7.42	7.45	7.43	7.47	7.49	7.47	7.47	7.47	7.43	7.46	7.49	7.41	7.40	7.33	7.45	7.44	7.17	7.26	7.19	7.21	7.16	7.15	228.95	7.39		
FAC - Treated Water	mg/l	0.2 to 4	2.24	2.22	2.24	2.19	2.10	2.15	1.92	2.05	2.05	1.95	2.00	1.99	2.00	2.08	2.00	1.95	2.05	2.04	2.05	1.97	2.05	2.11	2.10	2.08	2.08	2.02	1.99	2.01	2.00	2.01	1.97	63.66	2.05		
Total Chlorine Residual Treated	mg/l	0.3 to 7	2.64	2.72	2.58	2.34	2.46	2.42	2.17	2.20	2.34	2.24	2.36	2.32	2.34	2.48	2.52	2.46	2.36	2.28	2.36	2.42	2.44	2.48	2.52	2.32	2.48	2.30	2.44	2.20	2.21	2.28	2.34	74.02	2.39		
Temperature	C	15	7.0	7.0	7.0	7.0	7.0	7.0	7.0	8.0	9.0	10.0	10.0	10.0	10.0	9.0	9.0	9.0	9.0	10.0	11.0	10.0	12.0	14.0	15.0	10.0	12.0	14.0	14.0	14.0	15.0	15.0	16.0	324.0	10.5		
Fluoride used (Total Daily Consumption)	kg	n/a	20.0	19.0	19.0	19.0	19.0	19.0	18.0	18.0	18.0	17.0	18.0	18.0	17.0	17.0	17.0	18.0	17.0	16.0	17.0	16.0	18.0	19.0	18.0	20.0	18.0	18.0	18.0	16.0	15.0	14.0	16.0	547.0	17.6		
Chlorine used (Total Daily Consumption)	kg	n/a	22.0	22.0	21.0	21.0	22.0	21.0	22.0	22.0	21.0	21.0	22.0	22.0	22.0	22.0	22.0	22.0	23.0	22.0	22.0	22.0	22.0	24.0	22.0	23.0	23.0	23.0	24.0	23.0	23.0	22.0	688.0	22.2			
Soda ash (Total Daily Consumption)	kg	n/a	184.8	187.3	182.0	181.7	180.6	182.0	184.1	182.4	178.2	183.1	183.1	183.8	183.8	183.1	184.1	186.2	184.8	185.5	186.9	181.3	181.3	191.8	179.6	192.5	184.1	187.6	186.2	193.2	184.8	184.5	188.3	5722.2	184.6		
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	35.0	1085.0	35.0		
Alum residual - (Total Daily Consumption)	kg	n/a	184.8	187.3	182.0	181.7	180.6	182.0	184.1	182.4	178.2	183.1	183.1	183.8	183.8	183.1	184.1	186.2	184.8	185.5	186.9	181.3	181.3	191.8	179.6	192.5	184.1	187.6	186.2	193.2	184.8	184.5	188.3	5722.2	184.6		
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	35.0	1085.0	35.0		
Alum residual - Treated Water	mg/l	0.1	0.04	0.08	0.07	0.09	0.05	0.04	0.02	0.03	0.02	0.03	0.03	0.03	0.02	0.02	0.02	0.03	0.02	0.03	0.04	0.03	0.03	0.04	0.06	0.06	0.03	0.04	0.06	0.02	0.02	0.03	0.03	0.02	0.02	1.15	0.04
Poly bags added (25 kg bags)	kg				0.5							0.5		0.5					0.5		0.5					0.5		0.5						87.5			

Flow Data MAY	Units	2014		2015		2016	
		Day of the Month		Day of the Month		Day of the Month	
Total Raw Water	m ³		167920		175810		163490
Raw Maximum Day	m ³	Tuesday 27th	6440	Saturday 02nd	5940	Saturday 28th	5520
Raw Minimum Day	m ³	Sunday 25th	4590	Friday 01st	5260	Monday 09th	5090
Raw Average Daily Consumption	m ³		5420		5670		5270
Total Treated Water	m ³		142970		12010		118580
Treated Water Maximum Day Consumption	m ³	Monday 26th	5390	Sunday 03rd	4380	Tuesday 31st	4340
Treated Water Minimum Day Consumption	m ³	Saturday 17th	4030	Monday 18th	3450	Tuesday 17th	3240
Treated Water Average Day Consumption	m ³		4610		3870		3830
Daily Average Per Household Consumption Rate	m ³		1.22		1.02		1.01
* Daily Average Per Person Consumption Rate	m ³		0.58		0.48		0.48
Monthly Averages - Operating Parameters WTP:							
FAC Residual - Treated Water	mg/L		1.48		2.05		2.05
Total Chlorine Residual - Treated Water	mg/L		1.76		2.28		2.39
Aluminum Sulphate - Raw Water	mg/L		34.5		35.1		35.0
Aluminum Sulphate - Treated Water Residual	mg/L		0.04		0.05		0.04
Fluoride - Treated Water	mg/L		0.59		0.62		0.65
Soda Ash - Raw Water	mg/L		34.9		35.5		35.0
PH - Adjusted	mg/L		7.18		7.17		7.47
Temperature	C		6.5		10.4		10.5
Quantity of Chemical Used:	kg						
Aluminum Sulphate	kg		5793.2		6182.4		5722.1
Polyelectrolyte	kg		62.5		50.0		87.5
Chlorine Gas	kg		520		709		688
Soda Ash - Used for PH Adjustment	kg		5860.3		6255.1		5722.1
Fluoride	kg		358		427		547

- * 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

June 17, 2016

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

Attention: Mr. Doug Herr
Environmental and Facilities Superintendent

Dear Doug:

**Re: Fort Frances Wastewater Treatment Facility
May 2016 Monthly Report**

As per the operating agreement, the attached document is the May 2016 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. Larry Wachter – Operations Manager.

Yours truly,

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

Kelly Cunningham
Senior Operator

For Larry Wachter
Operations Manager

**The Corporation of the Town of Fort Frances
Wastewater Treatment Plant
(Sewage Plant)
May 2016 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 May 2016; 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 received and operates its operation under *Certificate of Approval Number 3-0049-96-006*, in accordance with Section 53 of the Ontario Water Resources Act. The Certificate of Approval 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.

MAY 2016 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	2.5 mg/L	25 mg/L	15 mg/L	17.2 kg/d	225 kg/d	135 kg/d
Total Suspended Solids	4.1 mg/L	25 mg/L	15 mg/L	27.8 kg/d	225 kg/d	135 kg/d
Total Phosphorus	0.15 mg/L	1.0 mg/L	0.9 mg/L	3.2 kg/d	9 kg/d	8.1 kg/d
Total Nitrogen Nitrate Nitrogen	9.96 mg/L 3.29 mg/L					
Total Cl ₂ Residual		<0.01 mg/L (when in use)				
E-Coli		14.4 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 7.5 to 7.8; average pH was 7.6		
Temperature degrees C				Temperatures ranged from 8.0 to 11.5; average temperature of effluent was 9.8 C		

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

WASTEWATER LIQUID PROCESS

The average daily flow for May was 6785.5 m³/day. This represents 75% of the design average flow. Total treated flow for the month was 210352 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 objective levels as outlined in the Certificate of Approval.

INVENTORY

Chemical	End of Month Status	Units
Hypochlorite	1140 +/-@ 7.0% + 410 @ 12%	Litres
Alum	12.2 +/- @ 60 %	Cubic meters
Polymer	7 Bags (175 kg)	Bags (25 kg/bag)

MAINTENANCE

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

Treatment Plant:

- Alternated lead/lag pumps
- Adjusted fluidizing water to head cell and grit snail as needed
- Greased GBT, mechanical bar screen and grit snail. Lubricated drive chain on grit snail and bar screen
- Regular cleaning of head works EW basket strainer
- Regular cleaning of seal water strainer TFP 9-5
- Greased all blowers
- Replaced belt head works exhaust fan EF 01
- Checked head works gas heads for accuracy and response
- Hot water flushed alum lines and pumps
- Removed debris from grit pump 1 outlet reducer
- Cleaned DO probes and spot checked both aeration cells with YSI portable
- Drained and cleaned Teacup and Snail
- Calibrated both automatic samplers
- Cleaned polymer mix tank

Pump Stations:

- Ran gensets
- Changed seal water strainers
- Cleaned bar screens

OPERATIONAL ISSUES

There were no operational issues in the report period.

SLUDGE SUMMARY

Asselin Transportation and Storage Limited hauled a total of 241.2 m³ of thickened digested sludge (12.1 m³/load average) to the Town of Fort Frances landfill site.

COMPLAINTS

There were no complaints during the report period.

BY-PASS REPORT(S)

There were no bypass events in the report period.

COMMENTS

Plant power consumption for the month was 616 (x 180 multiplier) kWh.
Kingdom Construction Limited was on site May 31 to begin the Sludge Thickener and Screen Upgrade Project.

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)

Month	Sewage Flows Year 2016					Usage	Sludge	Removal Efficiency		
	Avg. Day Flow	Max Day Flow	Total Treated	Total ByPass	Total Volume			CBOD5	Suspended Solids	Total Phosphorus
	m3	m3	Volume ML	Volume ML	ML					
January	5668.1	5900	175712		175712	63%	249.9			
February	5417.8	5665	157117		157117	60%	251.7			
March	7463.4	12988	231365		231365	83%	212.7			
April	8462.4	10027	253871		253871	94%	228.3			
May	6785.5	8276	210352		210352	75%	241.2			
June						0%				
July						0%				
August						0%				
September						0%				
October						0%				
November						0%				
December						0%				
Sum				0	1028417		1183.8			
Average	6759		205683		205683	75%	236.8			
Max		12988	253871		253871					
C of A	9000	18000								

	CBOD5				Suspended Solids			Total Phosphorus			Nitrogen		E. Coli
	Avg. Raw BOD	Avg. Eff. CBOD	Avg. Load CBOD	Avg. Raw S.S	Avg. Eff. S.S	Avg. Load S.S	Avg. Raw T.P	Avg. Eff. T.P	Avg. Load T.P	Avg. Raw TKN	Avg. Eff. Total N	Geo Mean Counts	
	(mg/L)	(mg/L)	(kg/day)	(mg/L)	(mg/L)	(kg/day)	(mg/L)	(mg/L)	(kg/day)	(mg/L)	(mg/L)	/100ml	
January	87.0	2.4	13.5	142.4	6.0	34.7	2.41	0.15	0.83			23.7	
February	74.3	3.5	18.5	132.5	4.3	23.2	2.12	0.11	0.57	17.3	8.9	19.3	
March	65.2	2.3	16.1	112.4	5.7	47.7	1.87	0.11	0.94	15.1	9.7	21.4	
April	57.5	2.4	20.2	110.8	5.6	47.1	1.54	0.13	1.11	12.0	9.7	9.3	
May	68.8	2.5	17.2	125.8	4.1	27.8	2.0	0.15	3.19	14.9	10	14.4	
June													
July													
August													
September													
October													
November													
December													
Average	70.6	2.6	17.1	124.8	5.1	36.1	2.0	0.13	1.33	14.8	9.6	17.6	
Max	87	3.5	20.2	142.4	6	47.7	2.4	0.15	3.19	17.3	10	23.7	
C of A		25	225		25	225		0.9	9	200	6.0	200	

up-dated May 31, 2016

Month	Days per month	2016	2016	2016	2016	2016	2015	2016	2016	2016	2016	2016	2015	2015	2016-2015	2016-2015	2016	2016	
		Total	daily	Couch.	Couch.	Couch.	Total	Total	daily	Couch.	Couch.	Couch.	Total	daily	Diff	Diff	Difference	Infiltration	
		Sewage	Sewage	Sewage	Sewage	Sewage	Sewage	Treated	Treated	2 Water	2 Water	Water	Treated	Treated	Treated	Wastewater	STP-WTP	daily average	
		STP	STP	Meters	Meters	%	STP	WTP	WTP	Meters	Meters	%	WTP	WTP	WTP	STP			
		cu. meters monthly	cu. meters daily	cu. meters monthly	cu. meters daily		cu. meters monthly	cu. meters monthly	cu. meters daily	cu. meters monthly	cu. meters daily		cu. meters monthly	cu. meters daily					
January	31	176710	5700.32	7600	245.16	4.30%	161362		118110.0	3810.0	16818.5	542.5	14.24%	121570	3922	-3460.0	15348.0	58600.0	1890.3
February	29	157117	5417.83	7638	263.38	4.86%	140237		110250.0	3801.7	16818.5	579.9	15.25%	107690	3713	2560.0	16880.0	46867.0	1616.1
March	31	231365	7463.39	9648	311.23	4.17%	173865		118060.0	3808.4	15056.0	485.7	12.75%	126450	4079	-8390.0	57500.0	113305.0	3655.0
April	30	253871	8462.37	10565	352.17	4.16%	168865		106740.0	3558.0	15056.0	501.9	14.11%	112830	3761	-6090.0	85006.0	147131.0	4904.4
May	31	210253	6782.35	9803	316.23	4.66%	242869		118580.0	3825.2		0.0		120100	3874	-1520.0	-32616.0	91673.0	2957.2
June	30		0.00		0.00		218773			0.0		0.0		116430	3881	-116430.0	-218773.0	0.0	0.0
July	31		0.00		0.00		179969			0.0		0.0		134840	4350	-134840.0	-179969.0	0.0	0.0
August	31		0.00		0.00		183529			0.0		0.0		129900	4190	-129900.0	-183529.0	0.0	0.0
September	30		0.00		0.00		163113			0.0		0.0		121920	4064	-121920.0	-163113.0	0.0	0.0
October	31		0.00		0.00		159808			0.0		0.0		123450	3982	-123450.0	-159808.0	0.0	0.0
November	30		0.00		0.00		188990			0.0		0.0		102560	3419	-102560.0	-188990.0	0.0	0.0
December	31		0.00		0.00		189403			0.0		0.0		107110	3455	-107110.0	-189403.0	0.0	0.0
Total	366	1029316		45254			2170783		571740		63749			1424850	46690	-853110.0	-1141467.0	457576.0	1250.2
Monthly Average							180898.6							118737.5	3890.9	-71092.5	-95122.3	38131.3	1251.9
daily Average														3868.77					

Aircraft Landings 2016
As of May 31, 2016 Statistics - Page 1/2

Month	Bearskin Flights			Bearskin- Passengers			Government			Private			Med-I-vacs			International			Commercial			Totals			Variance
	2016	2015	2014	2016	2015	2014	2016	2015	2014	2016	2015	2014	2016	2015	2014	2016	2015	2014	2016	2015	2014	2016	2015	2014	2016-2015
January	70	76	79	261	256	311	1	6	0	3	6	5	30	43	41	3	4	2	36	42	67	143	177	194	-34
February	69	67	74	233	241	308	1	2	0	1	7	5	35	36	22	1	3	5	49	40	50	156	155	156	1
March	69	78	82	199	341	346		5	3	17	30	10	34	36	40	3	5	0	55	38	52	178	192	187	-14
1/4 Total	208	221	235	693	838	965	2	13	3	21	43	20	99	115	103	7	12	7	140	120	169	477	524	537	-47
April	81	81	74	288	330	276	7	1	2	8	23	18	47	41	22	3	2	1	40	53	47	186	201	164	-15
May	88	82	81	309	365	308	4	1	6	9	28	24	37	37	23	32	34	30	59	77	76	229	259	240	-30
June		80	77		322	292		11	7		36	37		31	35		74	89		96	69	0	328	314	-328
1/2 Total	377	464	467	1290	1855	1841	13	26	18	38	130	99	183	224	183	42	122	127	239	346	361	892	1312	1255	-420
July		81	75		297	230		8	7		40	35		35	18		83	59		77	59	0	324	253	-324
August		79	71		297	241		4	3		39	37		31	26		73	65		87	57	0	313	259	-313
September		76	73		328	254		0	1		17	22		36	37		44	32		76	65	0	249	230	-249
3/4 Total	377	700	686	1290	2777	2566	13	38	29	38	226	193	183	326	264	42	322	283	239	586	542	892	2198	1997	-1306
October		83	76		309	309		4	3		20	24		47	42		9	12		51	51	0	214	208	-214
November		68	80		260	286		0	3		9	8		30	28		1	3		38	39	0	146	161	-146
December		68	52		200	203		0	0		4	4		31	25		2	1		34	29	0	139	111	-139
Total	377	919	894	1290	3546	3364	13	42	35	38	259	229	183	434	359	42	334	299	239	709	661	892	2697	2477	-1805

Fort Frances Airport- Page 2/2 - Fuel Sales - As of May 31, 2016

Fuel Sales Recap - 2016									2015	2014	2013	2012	2011	2010	2009	2008	2007	9 year	Variance 2016-
Month	100LL		Jet Trk		Jet Cab		Month	Year	per	per	per	per	per	per	per	per	per	Average	per month
	Liters	Total	Liters	Total	Liters	Total	Total	Total	month	month	month	month	month	month	month	month	month	2015 to 2007	month
January	126	126	7,402	7,402	0	0	7,528	7,528	8,692	11,543	7,216	10,252	7,308	10,971	15,989	29,926	16,283	13,131	-1,164
February	509	635	11,395	18,797	0	0	11,904	19,432	11,231	12,304	6,197	6,918	3,687	5,782	13,135	21,134	11,782	10,241	673
March	342	977	12,913	31,710	0	0	13,255	32,687	17,795	10,508	12,077	9,329	10,390	15,539	9,612	27,435	19,969	14,739	-4,540
April	744	1,721	7,848	39,558	0	0	8,592	41,279	13,219	8,377	4,453	8,251	5,294	24,825	10,676	22,466	28,609	14,019	-4,627
May	1,905	3,626	22,776	62,334	0	0	24,681	65,960	16,161	29,753	18,350	21,891	19,790	25,375	24,033	30,287	47,258	25,878	8,520
June		3,626		62,334		0	0	65,960	45,698	30,789	22,786	23,537	25,723	27,768	22,395	35,995	40,736	30,603	-45,698
July		3,626		62,334		0	0	65,960	28,150	14,441	19,232	32,650	19,124	30,455	24,925	33,390	44,875	27,471	-28,150
August		3,626		62,334		0	0	65,960	36,638	20,450	20,075	30,783	21,467	33,139	28,250	40,177	41,630	30,290	-36,638
September		3,626		62,334		0	0	65,960	24,238	21,837	18,005	19,431	22,511	23,363	18,937	28,822	30,341	23,054	-24,238
October		3,626		62,334		0	0	65,960	8,216	15,472	13,109	11,325	13,677	15,033	21,304	16,631	28,020	15,865	-8,216
November		3,626		62,334		0	0	65,960	11,616	7,238	6,398	8,170	6,785	17,747	10,754	16,951	16,842	11,389	-11,616
December		3,626		62,334		0	0	65,960	7,592	6,849	2,028	8,179	2,446	7,641	7,596	13,083	14,733	7,794	-7,592
Total	3,626		62,334		0		65,960		229,246	189,561	149,926	190,716	158,202	237,638	207,606	316,297	341,078	224,474	-163,286
								Jan to May	67,098	72,485	48,293	56,641	46,469	82,492	73,445	131,248	123,901	78,008	1,138

Lowest month in last 9 years
Highest month in last 9 years
Highest month
lowest month