



TOWN OF FORT FRANCES

Operations and Facilities Executive Committee

AGENDA - March 23, 2022, 8:30 AM

MEETING - Civic Centre

Session #006

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Or call in (audio only)

[+1 807-701-5975,,852156176#](#) Canada, Thunder Bay

Phone Conference ID: 852 156 176#

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| 1 | |
| <u>Call to Order/Roll Call</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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| <u>New Business</u> | |
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| <u>Adjourn / Next Meeting Date</u> | |



TOWN OF FORT FRANCES

MINUTES

SESSION NO. #005

March 9, 2022

A meeting of the Operations & Facilities Executive Committee of the Town of Fort Frances was held in the Committee Room and via Microsoft Teams (virtual meeting resources) on Wednesday March 9, 2022 from 8:30 a.m. to 8:52 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, Craig Miller (8:30 a.m. - 8:52 a.m.) and Cody Vangel (8:30 a.m. to 8:45 a.m.)

1 Call to Order/Roll Call

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 February 23, 2022 - the minutes from the previous meeting were approved as circulated.

4 New Business

4.1 Award of Tender 22-OF-02 - Three (3) Year Equipment/Vehicle Rental - the administration report was approved as presented.

4.2 2021 Drinking Water System Annual Report - Schedule 22 - the annual report was approved as presented.

5 Information

5.1 2022 Tonnage at the Landfill Site - the Landfill data was received and will be forwarded on to Council as information only. No action required.

6 Adjourn / Next Meeting Date

6.1 The meeting was adjourned at 8:52 a.m.

Next meeting March 23, 2022

Executive Committee Chair

T. Rob, Manager of Operations & Facilities

March 23, 2022

Report To: Mayor and Council

From: Travis Rob, Manager of Operations and Facilities

RE: 2022 Sorting Gap Dock Purchase

In October 2020 the Town awarded the supply of phase one replacement of the Sorting Gap Marina docks to NorCol EZ Dock. Nor Col at the time of tendering guaranteed their pricing for a term of 5 years including a 24% commercial discount. In 2021/22 the Town has been working again with NorCol to supply the phase 2 docks for the Sorting Gap. In accordance with Section 4.0 (D)(iii) this purchase is in excess of \$35,000 however there is not more than one provider of these docks therefore a tender was not utilized to secure pricing.

In 2022 NorCol is holding to their 2020 unit pricing, however will not honor the 24% Commercial Discount received, instead they will offer an 8% discount. This works out to an increase in cost to the project of \$58,600.44 over the budgeted amount. There is an opportunity to seek additional funding through FedNOR and Administration is working on the submission of those forms to recuperate some of these costs. Failing that, it is the recommendation of Administration that the budget shortfall be funded through the year end process with any surplus or through the Corporate Projects reserve. At this point in time, we need to secure these docks if we hope to have them installed and ready for the start of the 2022 boating season.

It is the recommendation of the Operations and Facilities Executive Committee that:

1. Administration applies to FedNOR for additional funds to cover cost overages related to the Phase 2 Sorting Gap Dock replacement project.
2. Failing Funding, budget shortfalls related to this project be funded through year end surplus or the Corporate Projects Reserve Fund.

Respectfully Submitted



Travis Rob, P.Eng

Council approval of this report will agree with the recommendation of the Operations and Facilities Executive Committee that:

- 1. Administration applies to FedNOR for additional funds to cover cost overages related to the Phase 2 Sorting Gap Dock replacement project.**
- 2. Failing Funding, budget shortfalls related to this project be funded through year end surplus or the Corporate Projects Reserve Fund.**

Manager of Operations and Facilities

March 23, 2022

Report To: Mayor and Council

From: Travis Rob, Manager of Operations and Facilities

RE: Request to operate the Point Park Canteen

At the March 14th meeting of Council, a report from administration informing Council of the correspondence from the individual who originally requested to operate a canteen from the Point Park Office Building was received and direction was given to Administration to review next steps.

At this point we have no other entities who have expressed interest in running the canteen so the next possible step would be to develop and issue an RFP looking for a proposal from a local entity to operate the canteen, evaluate the proposals, if any were received, negotiate a lease agreement, complete the repairs required before early June so that the entity would be in a position to be operational at the start of the beach season.

In 2022 the Operations and Facilities Division is responsible for the procurement and management of 82 of the 103 capital projects totalling \$15,106,844.00 of the \$17,570,975.00 total Capital Budget primarily shared across four management members. Staff are focused on trying to get all of the procurement for this work completed by the end of April so that construction can start as soon as the weather permits. At this time, staff don't have time to devote to the development of a comprehensive request for proposal document and negotiating the works while trying to rush to get it complete by the start of the summer season.

It is the recommendation of Administration that, if council is supportive of seeing this operate, an RFP be issued in late fall 2022 or early in 2023 for someone to be able to operate a canteen at the Point Park for summer 2023. In addition, staff can plan for and prepare budget numbers for the required repairs to the building to get into a position to be occupied.

It is the recommendation of the Operations and Facilities Executive Committee that:

1. Administration prepares an RFP for an operator of a canteen at the Point Park Office Building fall of 2022, starting summer 2023.
2. That administration prepare capital budget cost estimates for repairs to the Point Park office in fall 2022 for operation as a canteen summer 2023.

Respectfully Submitted



Travis Rob, P.Eng
Manager of Operations and Facilities

Council approval of this report will agree with the recommendation of the Operations and Facilities Executive Committee that:

- 1. Administration prepares an RFP for an operator of a canteen at the Point Park Office Building fall of 2022, starting summer 2023.**
- 2. That administration prepare capital budget cost estimates for repairs to the Point Park office in fall 2022 for operation as a canteen summer 2023**

March 23, 2022

Report To: Mayor and Council

From: Travis Rob, Manager of Operations and Facilities

RE: Honeywell Energy Performance Contract Annual Energy Report

In 2012 the Town of Fort Frances engaged Honeywell Building Solutions to undertake a large energy and facility upgrade project in 13 Town owned buildings. As part of that project, Honeywell guaranteed the Town savings as a result of their retrofits and we provide them utility consumption information and they use that information in their model of our facilities, normalized against weather data and compared against a base year to determine the savings. In 2019 the final piece of the project was completed at the Wastewater Treatment Plant starting the guarantee period.

In 2020 the Town received the first energy savings report, and we worked with Honeywell to adjust the model to take into account facility vacancies related to COVID shutdowns. This initial report, however, failed to take into consideration the impacts from projects undertaken by the Town since 2012 to improve the efficiency of some of our facilities, particularly some of the work undertaken at the Civic Centre. Staff provided Honeywell with a listing of works completed including dates of completion and all related technical information to make the required adjustments.

In 2021 our file was passed to another analyst at Honeywell and we worked closely with him to make the necessary adjustments to the report to account for the changes and finalize a complete report. Attached to this report is the 2021 Annual Energy and Operational Savings Report for Council's information.

It is the recommendation of the Operations and Facilities Executive Committee that the Annual Energy and Operational Savings Report be received by Council as Information.

Respectfully Submitted



Travis Rob, P.Eng

Council approval of this report will agree with the recommendation of the Operations and Facilities Executive Committee that the Annual Energy and Operational Savings Report be received by Council as Information.

Manager of Operations and Facilities



Revised Annual Energy and Operational Savings Report for Guarantee Year 2 October 2020 – September 2021

Prepared For:
Town of Fort Frances
March 17, 2022

Prepared By:
Americas Measurement & Verification Services
Honeywell Building Solution
85 Enterprise Boulevard
Markham, ON L6G 0B5
Phone: (289) 333-1375
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Acceptance Sheet

By

Town of Fort Frances

This Energy and Operational Savings Report dated March 17, 2022, covering the Year 2 Savings, October 2020 – September 2021 satisfies the requirements of the Energy Performance Contract.

This report will be considered by Honeywell Limited to be accepted in full, unless Town of Fort Frances advises the undersigned otherwise in writing by April 30, 2022.

Thank you for your continued support.

Sincerely,



Kenneth Menezes, C.E.T., C.E.M., C.M.V.P.
Sr. Measurement & Verification Professional

Honeywell Limited
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Markham, Ontario
Phone: (289) 333-1359
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E-mail: ken.menezes@honeywell.com

1. Overview

Honeywell has completed a comprehensive energy retrofit and facility renewal upgrade project for Town of Fort Frances as per the Energy & Facility Renewal (EFR) Report dated June 7, 2012. The installation and upgrades have maintained comfort conditions within the buildings while permanently reducing the facility's utility and operating costs.

| | |
|-----------------------|--|
| Program Year: | Guarantee Year 2 |
| Report Date: | March 17, 2022 |
| Construction Period: | January 2013 to September 2019 |
| Current Report Period | October 1, 2020 to September 30, 2021 |
| Commencement Date: | October 1, 2019 |
| Type of Utility: | Electricity and Natural Gas |
| Prepared By: | Kenneth Menezes, Measurement & Verification Specialist |
| Account Manager: | Michael Pringle |
| Project Manager: | Wayne Sunohara |

Honeywell utilized both Retrofit Isolation (RI) method and Whole Building (WB) method to measure and verify the proposed savings. The results of measured savings and collected data are summarized below and detailed in Section 5.

1.1 Achieved Savings Year 2

The achieved savings for the Year 2 reporting period are summarized below:

Table 1 – Total Savings for year 2

| | Year 2 | |
|--|--------------------------|-----------------------|
| | Achieved Utility Savings | Achieved Cost Savings |
| Verified Whole Building Savings | | |
| Electricity | 1,040,877 kWh | \$150,416 |
| Natural Gas | (23,296) m ³ | -\$22,945 |
| Sub-total | - | \$137,356 |
| Verified Retrofit Isolation Savings | | |
| Electricity | 1,160,718 kWh | \$167,366 |
| Deemed Savings | | |
| Electricity | 109,921 kWh | \$10,904 |
| Natural Gas | 5,546 m ³ | \$2,041 |
| Sub-total | - | \$12,945 |
| Operational Savings | - | \$67,639 |
| Total Savings for year 2 | | \$375,421 |
| Total Savings Guarantee* | | \$243,551 |
| % on Plan | | 154% |

*The savings guarantee has been reduced to reflect of the removal of Daycare facility from the Town's portfolio.

Guaranteed Utility and Operational Cost Savings were presented in section 2 of the EFR report. Due to the removal of scope, **Table 2** below is the updated savings guarantee table.

Table 2 – Total Guaranteed Project Cost Savings

| Guarantee year | | Utility Savings Guarantee (\$) | Operational Savings (\$) | Total Savings Guarantee (\$) | Cumulative Savings Guarantee (\$) | Achieved Savings (\$) | Cumulative Excess (Shortfall) (\$) | CO2 eq [tonnes] Reduction |
|------------------|----------------------|--------------------------------|--------------------------|------------------------------|-----------------------------------|-----------------------|------------------------------------|---------------------------|
| CP | Jan 2013 to Sep 2019 | n/a | n/a | n/a | n/a | 993,612 | | 596 |
| Year 1 | Oct 2019 to Sep 2020 | 170,869 | 67,639 | 238,508 | 238,508 | 351,960 | 1,107,064 | 110 |
| Year 2 | Oct 2020 to Sep 2021 | 175,912 | 67,639 | 243,551 | 482,060 | 375,421 | 1,238,933 | 36 |
| Year 3 | Oct 2021 to Sep 2022 | 180,955 | 67,639 | 248,594 | 730,654 | | | |
| Year 4 | Oct 2022 to Sep 2023 | 185,998 | 67,639 | 253,637 | 984,291 | | | |
| Year 5 | Oct 2023 to Sep 2024 | 191,041 | 67,639 | 258,680 | 1,242,972 | | | |
| Year 6 | Oct 2024 to Sep 2025 | 196,084 | 67,639 | 263,723 | 1,506,695 | | | |
| Year 7 | Oct 2025 to Sep 2026 | 201,127 | 67,639 | 268,767 | 1,775,462 | | | |
| Year 8 | Oct 2026 to Sep 2027 | 206,170 | 67,639 | 273,810 | 2,049,272 | | | |
| Year 9 | Oct 2027 to Sep 2028 | 211,213 | 67,639 | 278,853 | 2,328,124 | | | |
| Year 10 | Oct 2028 to Sep 2029 | 216,256 | 67,639 | 283,896 | 2,612,020 | | | |
| Year 11 | Oct 2029 to Sep 2030 | 221,299 | 67,639 | 288,939 | 2,900,958 | | | |
| Year 12 | Oct 2030 to Sep 2031 | 226,342 | 67,639 | 293,982 | 3,194,940 | | | |
| Year 13 | Oct 2031 to Sep 2032 | 231,386 | 67,639 | 299,025 | 3,493,965 | | | |
| Year 14 | Oct 2032 to Sep 2033 | 236,429 | 67,639 | 304,068 | 3,798,033 | | | |
| Year 15 | Oct 2033 to Sep 2034 | 241,472 | 67,639 | 309,111 | 4,107,144 | | | |
| Cumulative Total | | | | | | 1,720,993 | | |

The graphical representation of the guaranteed term is shown in **Figure 1** below.

Figure 1 – Comparison of Achieved vs. Guaranteed Cost Savings



Honeywell's Home & Building Control provides an array of products, services, and programs to conserve energy and increase the operating efficiency of your building. When Honeywell applies advanced control and maintenance techniques to your existing environmental control or mechanical systems, substantial savings result. We are delighted to contribute to your conservation efforts.

THANK YOU FOR CHOOSING HONEYWELL.

1.2 Environmental Impact

It is well-known that CO₂, CH₄ and N₂O gases are emitted as by-products of power generation and fossil fuel burning. These gases are classified by the United Nations Framework Convention on Climate Change and Kyoto Protocol as greenhouse gases (GHG). GHGs cause long-term weather pattern changes leading to rising temperatures and sea levels, and extreme weather events. Given the environmental impact of GHGs, Canada tracks emissions via the National GHG Emissions Inventory Report.

The Town, their staff and the surrounding communities will all benefit from GHG reductions generated through the implemented facility improvements. **Table 3** shows the average emission rates used for the current year reporting per unit of energy. These rates are based on Environment Canada data for electricity generation and fossil fuel burning in Ontario.

Table 3 – Year 2 GHG Emission Rates

| | Electricity | Natural Gas |
|--|-------------|-------------|
| CO ₂ equivalent ¹ (Kg) | 0.03 | 1.90 |

The upgrades at the Town facilities have had a positive effect on both the internal and external environments. Project measures have reduced CO₂ emission by 38.12 tonnes in the current reporting year. A summary of GHG reductions is shown in **Table 4**.

Table 4 – Year 2 GHG Reduction

| | Electricity (kWh) | Natural Gas (m3) | Total |
|-------------------------------------|-------------------|------------------|-------|
| CO ₂ equivalent (tonnes) | 69.35 | -33.71 | 35.63 |

2. Retrofit Highlights

Honeywell implemented specific measures for upgrading and sustaining the Town's facility systems. Numerous opportunities for cost reductions through carefully integrated equipment and modernization upgrades have been installed and commissioned. The following is a list of the measures Honeywell implemented at your facilities:

Lighting Systems Upgrades and Controls

- Replaced incandescent, PL-lamp or non-LED existing exit signs with new LED EXIT signs
- Replaced incandescent light with compact fluorescent light
- Replaced electromagnetic ballast with high efficiency electronic ballast
- Installed Occupancy sensors
- Group re-lamping for the fluorescent fixtures

Fine Bubble Aeration System

- Replaced existing jet aeration system with a fine bubble system

Control System Upgrades and Scheduling

- Installed new DDC control system
- Implemented control strategy and schedule for equipment
- Implemented demand control ventilation

Heating Plant Upgrades

- Replaced existing boilers with Dietrich thermique eutectic cast iron boilers

Ice Refrigeration Plant Upgrades

- Installed new central automation system
- Modified sequence of operation

Install New VFDs and HE Motors on High Lift Pumps

- Replaced existing motors with high efficiency motors and drives

Car Plug Controls

- Upgraded manually controlled duplex car plugs with IPLC duplex programmable outlets

Building Envelope

- Weather stripping
- Sealed plumbing, electrical and duct penetration

Street Lighting Upgrade

- Replaced high intensity discharge high pressure sodium with new energy efficient light emitting diode (LED) type.

HVAC Upgrades

- Replaced existing furnaces with packaged gas-fired heat/cool unit

3. M&V Methodology

3.1 Option A: Retrofit Isolation (RI) Method with Key Parameters Measured

In the Retrofit Isolation Method (RIM), the subsystem on which each CSM operates is isolated, and its utility use before and after implementation of the CSM is evaluated by physical measurement, whenever possible. Subsystem utility use is determined by observation of physical variables such as current, voltage, power, volume, temperature and time.

Energy consumed by most building subsystems can be isolated - analyzed independently from other facility systems. Examples include temperature setback, ventilation reduction, boiler plant replacements and lighting controls. Although they interact with other subsystems, utility usage can be determined by direct measurement of physical variables.

Subsystem utility usage before and after implementing CSMs is obtained by analyzing physical data collected using varied tools and procedures including:

- Building Automation System data acquisition feature
- Portable data acquisition equipment
- Metering and recording equipment
- Maintenance logs

The engineering formulae commonly accepted by the HVAC industry are applied to determine pre and post implementation utility usage and savings.

In each case, the sample points, measured variables, measurement methods and engineering analyses are selected to accurately reflect subsystem operation.

3.2 Option C: Whole Building Approach (WBA)

In WB method, utility bills before and after the measure installation are compared using **Metrix Utility Accounting System** software. Metrix is a utility management program customized to track, analyze, and print reports on energy usage. Utility billing data is entered, tuned and translated into a linear regression model, correlating the load and peak variation with the key parameters. The regression model is then applied to the current conditions to account for the difference in the key parameters between the base year period and the current period, that affect utility consumption. Examples of these parameters are number of days, heating degree days, cooling degree days and base load. The linear regression model is then applied against the current conditions of each reporting period and compared to post installation usage pattern. The difference is avoided cost, or savings, due entirely to the performance of the installed CSMs.

Honeywell has implemented specific measures for upgrading and sustaining the facilities' building systems. The following **Table 5** lists all the CSMs along M&V method used for validating the savings for each utility.

Refer to **Section 6** of the EFR Report for the detailed M&V Plan.

Table 5 – List of Selected M&V Method by CSM

| Site Name - Measure ID | ECM | Electricity | Gas |
|-------------------------------|---|-------------|--------|
| Airport | | | |
| IIM-1 | Lighting Systems Upgrade & Controls - Airport | Deemed | - |
| IIM-10 | Building Envelope - Airport | Deemed | - |
| Civic Centre | | | |
| IIM-1 | Lighting Systems Upgrade & Controls - Civic Centre | C | C |
| IIM-4 | Control System Upgrades & Scheduling - Civic Centre | C | C |
| IIM-8 | Car Plug Controls - Civic Centre | C | - |
| IIM-5 | Heating Plant Upgrades - Civic Centre | - | C |
| IIM-10 | Building Envelope - Civic Centre | - | C |
| Daycare | | | |
| IIM-1 | Lighting Systems Upgrade & Controls - Daycare | Deemed | Deemed |
| IIM-10 | Building Envelope - Daycare | Deemed | - |
| East End Hall | | | |
| IIM-1 | Lighting Systems Upgrade & Controls - East End Hall | Deemed | Deemed |
| IIM-11 | Improve Building Insulation - East End Hall | - | Deemed |
| IIM-10 | Building Envelope - East End Hall | Deemed | - |
| | FF Cemetery | | |
| Memorial Sports Centre | | | |
| IIM-1 | Lighting Systems Upgrade & Controls - Memorial Sports Centre | C | C |
| IIM-4 | Control System Upgrades & Scheduling - Memorial Sports Centre | C | C |
| IIM-6 | Ice Refrigeration Plant Upgrades - Memorial Sports Centre | C | - |
| IIM-10 | Building Envelope - Memorial Sports Centre | - | C |
| IIM-8 | Pool Dry-O-Tron Upgrade - Memorial Sports Centre | - | C |
| Museum | | | |
| IIM-1 | Lighting Systems Upgrade & Controls - Museum | Deemed | Deemed |
| IIM-4 | Control System Upgrades & Scheduling - Museum | - | - |
| IIM-10 | Building Envelope - Museum | Deemed | - |
| Public Works Garage | | | |
| IIM-1 | Lighting Systems Upgrade & Controls - Public Works Garage | C | Deemed |
| IIM-8 | Car Plug Controls - Public Works Garage | C | - |
| IIM-10 | Building Envelope - Public Works Garage | - | Deemed |

| Site Name - Measure ID | ECM | Electricity | Gas |
|----------------------------------|--|-------------|--------|
| RV Cemetery | | | |
| IIM-1 | Lighting Systems Upgrade & Controls - RV Cemetery | Deemed | - |
| IIM-10 | Building Envelope - RV Cemetery | Deemed | - |
| Sister Kennedy Centre | | | |
| IIM-1 | Lighting Systems Upgrade & Controls - Sister Kennedy Centre | Deemed | Deemed |
| IIM-10 | Building Envelope - Sister Kennedy Centre | Deemed | - |
| Sorting Gap Marina | | | |
| IIM-1 | Lighting Systems Upgrade & Controls - Sorting Gap Marina | Deemed | - |
| IIM-10 | Building Envelope - Sorting Gap Marina | Deemed | - |
| WWTP | | | |
| IIM-1 | Lighting Systems Upgrade & Controls - WWTP | Deemed | Deemed |
| IIM-2A | Install Fine Bubble Aeration System (No Blower Replacement) - WWTP | A | - |
| IIM-10 | Building Envelope - WWTP | - | Deemed |
| WTP | | | |
| IIM-1 | Lighting Systems Upgrade & Controls - WTP | Deemed | Deemed |
| IIM-5 | Heating Plant Upgrades - WTP | - | Deemed |
| IIM-7B | Install New High Lift Pumps - WTP | A | - |
| IIM-10 | Building Envelope - WTP | - | Deemed |
| City Wide | | | |
| IIM-12 | Streetlighting Upgrade (LED) | A | - |
| Facility Renewal Measures | | | |
| IIM-10 | HVAC Upgrade - Daycare | Deemed | - |

A – Option A: Retrofit Isolation, Key Parameter Measurement

C – Option C: Whole Building

4. Adjustments

4.1 Base Year Adjustments

Adjustments are made to accommodate changes in operation of the facility between the base year and the current reporting period. Such changes may include changes to the floor area or schedules of the facility, and addition or removal of equipment that affect building loads and energy consumption. The utility consumption effects of such changes are normally calculated by standard engineering formulae using equipment size, building load, energy cost and hours of operation. Refer Appendix B for Base Year Adjustment details.

Table 6 – Base Year Adjustments Summary

| Building | Meter Code | Utility | Description | KWh | KW |
|--------------|------------|----------|---|-----------------|-------------|
| Civic Centre | CIC E1 | Electric | Lighting Retrofit done by Customer (Town) | (82,915) | (16) |
| Total | | | | (82,915) | (16) |

Note- Previous Adjustments identified in Yr-1 has been removed. In Yr-2 only Lighting is considered in Metrix software as negative Base Year Adjustment.

4.2 Utility Rates

Energy cost savings are determined by multiplying the energy savings by the greater of the current utility rates or the escalated base year utility rates. The base year, current year utility rates & applied rates are listed below in **Table 7, Table 8 & Table 9**.

Table 7 – Base Year Rates

| Building | Year 2 Rate | | |
|-----------------------------------|--------------------|-------------------|-------------------------------|
| | Electricity \$/kWh | Electricity \$/kW | Natural Gas \$/m ³ |
| Airport Terminal & Garage | \$0.125 | - | - |
| Civic Centre | \$0.070 | \$6.636 | \$0.367 |
| Daycare Centre* | - | - | - |
| East End Hall | \$0.082 | - | \$0.395 |
| Fort Frances Cemetery | \$0.082 | - | - |
| Memorial Sport Centre (primary) | \$0.068 | \$6.636 | \$0.367 |
| Memorial Sport Centre (secondary) | \$0.069 | \$6.017 | \$0.395 |
| Museum | \$0.082 | - | \$0.398 |
| Public Works Shop | \$0.082 | - | \$0.395 |
| Riverview Cemetery | \$0.082 | - | - |
| Sorting Gap Marina | \$0.082 | - | - |
| Sister Kennedy 1 | \$0.082 | - | \$0.395 |
| Sister Kennedy 2 | \$0.082 | - | \$0.402 |
| Sew age Treatment Plant | \$0.072 | \$6.636 | \$0.395 |
| Water Treatment Plant | \$0.070 | \$6.636 | \$0.367 |
| Street Lighting | \$0.068 | \$5.363 | - |

*The Daycare facility is no longer owned by the Town and has been removed from the guarantee as per the request from Travis Rob. Future reporting will remove the reference to this building.

Table 8 – Current Utility Rates

| Building | Year 2 Rate | | |
|-----------------------------------|--------------------|-------------------|-------------------------------|
| | Electricity \$/kWh | Electricity \$/kW | Natural Gas \$/m ³ |
| Airport Terminal & Garage | - | - | - |
| Civic Centre | \$0.118 | \$8.481 | \$0.391 |
| Daycare Centre* | - | - | - |
| East End Hall | - | - | - |
| Fort Frances Cemetery | - | - | - |
| Memorial Sport Centre (primary) | \$0.123 | \$7.412 | \$0.359 |
| Memorial Sport Centre (secondary) | \$0.120 | \$8.199 | \$0.380 |
| Museum | - | - | - |
| Public Works Shop | \$0.124 | - | - |
| Riverview Cemetery | - | - | - |
| Sorting Gap Marina | - | - | - |
| Sister Kennedy 1 | - | - | - |
| Sister Kennedy 2 | - | - | - |
| Sew age Treatment Plant | \$0.118 | \$8.940 | - |
| Water Treatment Plant | \$0.118 | \$8.192 | - |
| Street Lighting | \$0.112 | \$13.463 | - |

*The Daycare facility is no longer owned by the Town and has been removed from the guarantee as per the request from Travis Rob. Future reporting will remove the reference to this building.

Table 9 – Selected Rates

| Building | Year 2 Rate | | |
|-----------------------------------|--------------------|-------------------|-------------------------------|
| | Electricity \$/kWh | Electricity \$/kW | Natural Gas \$/m ³ |
| Airport Terminal & Garage | \$0.125 | - | - |
| Civic Centre | \$0.118 | \$8.481 | \$0.391 |
| Daycare Centre* | - | - | - |
| East End Hall | \$0.082 | - | \$0.395 |
| Fort Frances Cemetery | \$0.082 | - | - |
| Memorial Sport Centre (primary) | \$0.123 | \$7.412 | \$0.367 |
| Memorial Sport Centre (secondary) | \$0.120 | \$8.199 | \$0.395 |
| Museum | \$0.082 | - | \$0.398 |
| Public Works Shop | \$0.124 | - | \$0.395 |
| Riverview Cemetery | \$0.082 | - | - |
| Sorting Gap Marina | \$0.082 | - | - |
| Sister Kennedy 1 | \$0.082 | - | \$0.395 |
| Sister Kennedy 2 | \$0.082 | - | \$0.402 |
| Sew age Treatment Plant | \$0.118 | \$8.940 | \$0.395 |
| Water Treatment Plant | \$0.118 | \$8.192 | \$0.367 |
| Street Lighting | \$0.112 | \$13.463 | - |

*The Daycare facility is no longer owned by the Town and has been removed from the guarantee as per the request from Travis Rob. Future reporting will remove the reference to this building.

5. Utility and Operational Cost Savings Summary

5.1 Verified Utility Savings – Retrofit Isolation

With Retrofit Isolation, the project savings are determined by isolating facility sub-systems associated with the measures and quantifying pre-and post-implementation utility consumption. Whenever possible, physical measurements such as current, voltage, power, demand and time are used to determine utility usage. Some operating parameters have been stipulated based on observations during facility audits and interviews with facilities staff and building occupants. Stipulated parameters have previously been approved by the Town of Fort Frances.

Facilities where Retrofit Isolation is being used are:

- Wastewater Treatment Plant
- Water Treatment Plant
- Street Lighting (Town wide)

Measures that will be verified using Retrofit Isolation methodology include:

- IIM-2A - Install Fine Bubble Aeration System (No Blower Replacement) – WWTP
- IIM-7B - Install New High Lift Pumps – WTP
- IIM-12 - Streetlighting Upgrade (LED) – Town wide

Utility savings have been applied at the applicable utility rates to determine the Annual Savings at the end of each Guaranteed Year starting at Year 2. **Table 10** is a cumulative summary of Option A savings.

Table 10 – Option A Savings

IIM-12 - Streetlighting Upgrade (LED) - City Wide

| | Elec (kW/Month) | Elec (kWh) | Utility (\$) | Operational (\$) | Total (\$) |
|-----------------|-----------------|------------|--------------|------------------|------------|
| Achieved total | 161 | 690,180 | \$103,518 | \$54,500 | \$158,019 |
| Original target | 160 | 686,916 | \$55,462 | \$54,500 | \$109,963 |
| % of Plan | 100% | 100% | 187% | 100% | 144% |

IIM-2A - Install Fine Bubble Aeration System (No Blower Replacement) - WWTP

| Annual Savings | Elec (kW/Month) | Elec (kWh) | Utility (\$) | Operational (\$) | Total (\$) |
|-----------------|-----------------|------------|--------------|------------------|------------|
| Achieved total | 77 | 376,221 | \$52,715 | \$(4,000) | \$48,715 |
| Original target | 41 | 263,518 | \$21,598 | \$(4,000) | \$17,598 |
| % of Plan | 190% | 143% | 244% | 100% | 277% |

IIM-7B - Install New High Lift Pumps - WTP

| Annual Savings | Elec (kW/Month) | Elec (kWh) | Utility (\$) | Operational (\$) | Total (\$) |
|-----------------|-----------------|------------|--------------|------------------|------------|
| Achieved total | - | 94,318 | \$11,132 | \$1,200 | \$12,332 |
| Original target | - | 66,588 | \$5,327 | \$1,200 | \$6,527 |
| % of Plan | - | 142% | 209% | 100% | 189% |

5.2 Deemed Utility Savings

Deemed utility savings refers to measures where savings represent <10% of the annual bills. Once installation of the measure is complete, the savings will be considered achieved (deemed) for the term of the guarantee with no further validation required.

The following list identifies all the deemed utility accounts:

- Airport Terminal and Garage: electricity
- Daycare Centre: electricity and natural gas
- East End Hall: electricity and natural gas
- Fort Frances Cemetery: electricity and natural gas
- Museum: electricity and natural gas
- Public Works Shop: natural gas
- Riverview Cemetery: electricity and natural gas
- Sister Kennedy: electricity and natural gas
- Sorting Gap Marina: electricity
- Street lighting: electricity
- Water Treatment Plant: electricity and natural gas
- Waste Water Treatment Plant: electricity and natural gas

Table 11, Table 12 & Table 13 below are a summary of the Deemed savings.

Table 11 – Deemed savings - Lighting Systems

IIM-1 - Lighting Systems Upgrade & Controls

| Building | Elec (kW/Month) | Elec (kWh) | Gas (m ³) | Utility (\$) | Operational (\$) | Total (\$) |
|------------------------|-----------------|---------------|-----------------------|----------------|------------------|----------------|
| Airport | 0 | 17,437 | 0 | \$2,179 | \$176 | \$2,355 |
| Daycare* | 0 | 0 | 0 | \$0 | \$0 | \$0 |
| East End Hall | 0 | 1,014 | 2 | \$73 | \$70 | \$142 |
| Museum | 0 | 15,181 | (135) | \$1,190 | \$0 | \$1,190 |
| Public Works Garage | - | - | (1,482) | -\$586 | \$0 | -\$586 |
| RV Cemetery | 0 | 2,079 | 0 | \$170 | \$80 | \$250 |
| Sister Kennedy Centre | 0 | 13,223 | (316) | \$959 | \$307 | \$1,266 |
| Sorting Gap Marina | 0 | 1,382 | 0 | \$113 | \$137 | \$250 |
| WTP | 5 | 13,814 | (355) | \$1,611 | \$405 | \$2,016 |
| WWTP | 3 | 5,985 | (154) | \$572 | \$23 | \$595 |
| Achieved total | 8 | 70,115 | (2,440) | \$6,281 | \$1,198 | \$7,478 |
| Original target | 8 | 70,115 | (2,440) | \$6,281 | \$1,198 | \$7,478 |
| % of Plan | 100% | 100% | 100% | 100% | 100% | 100% |

*The Daycare facility is no longer owned by the Town and therefore has been removed from the guarantee as per the request from Travis Rob.

Table 12 – Deemed savings - Building Envelope

| IIM-10 - Building Envelope | | | | | | |
|-----------------------------------|-----------------|---------------|-----------------------|----------------|------------------|----------------|
| Building | Elec (kW/Month) | Elec (kWh) | Gas (m ³) | Utility (\$) | Operational (\$) | Total (\$) |
| Airport | - | 9,333 | 0 | \$1,166 | - | \$1,166 |
| Daycare* | - | 0 | 0 | \$0 | - | \$0 |
| East End Hall | - | 4,200 | 0 | \$344 | - | \$344 |
| Museum | - | 6,300 | 0 | \$516 | - | \$516 |
| Public Works Garage | - | - | 3,412 | \$1,349 | - | \$1,349 |
| RV Cemetery | - | 10,500 | 0 | 860 | - | \$860 |
| Sister Kennedy Centre | - | 4,667 | 0 | 382 | - | \$382 |
| Sorting Gap Marina | - | 4,806 | 0 | 394 | - | \$394 |
| WTP | - | 0 | 1,465 | 513 | - | \$513 |
| WWTP | - | 0 | 477 | 189 | - | \$189 |
| Achieved total | - | 39,806 | 5,354 | \$5,714 | - | \$5,714 |
| Original target | - | 39,806 | 5,354 | \$5,714 | - | \$5,714 |
| % of Plan | - | 100% | 100% | 100% | - | 100% |

*The Daycare facility is no longer owned by the Town and therefore has been removed from the guarantee as per the request from Travis Rob.

Table 13 – Deemed savings- Natural Gas

| IIM-11 - Improve Building Insulation - East End Hall | | | | |
|---|-----------------------|--------------|------------------|------------|
| | Gas (m ³) | Utility (\$) | Operational (\$) | Total (\$) |
| Achieved total | 648 | \$256 | \$0 | \$256 |
| Original target | 648 | \$256 | \$0 | \$256 |
| % of Plan | 100% | 100% | | 100% |

| IIM-5 - Heating Plant Upgrades - WTP | | | | |
|---|-----------------------|--------------|------------------|------------|
| | Gas (m ³) | Utility (\$) | Operational (\$) | Total (\$) |
| Achieved total | 1,983 | \$694 | \$1,388 | \$2,082 |
| Original target | 1,983 | \$694 | \$1,388 | \$2,082 |
| % of Plan | 100% | 100% | 100% | 100% |

5.3 Verified Utility Savings – Whole Building

5.3.1 Monitored Utility Accounts

Table 14 below gives a summary of all the monitored utility accounts for the Town of Fort Frances that follow the Whole Building Approach. This list has also been outlined on EFF Report Section 6.10.1

Table 14 – List of Monitored Utility Accounts

| Building Name | Utility Type | Meter Code | Account number | Service address | Utility name |
|-----------------------|--------------|------------|-------------------|--------------------|--------------------------|
| Civic Centre | Electricity | CIC E1 | 757187-856990 | 320 Portage Ave. | Fort Frances Power Corp. |
| Civic Centre | Natural gas | CIC G1 | 142-9884 104-6549 | 320 Portage Ave. | Union Gas |
| Memorial Sport Centre | Electricity | MSC E1 | 752921-857660 | 720 Scott St. | Fort Frances Power Corp. |
| Memorial Sport Centre | Electricity | MSC E2 | 752933-857664 | 720 A Scott St. | Fort Frances Power Corp. |
| Memorial Sport Centre | Natural gas | MSC G1 | 142-9884 104-6550 | 720 Gillon St | Union Gas |
| Memorial Sport Centre | Natural gas | MSC G2 | 142-9884 104-6551 | 730 Gillon St | Union Gas |
| Public Works Shop | Electricity | PWS E1 | 756319-857570 | 900 Wright Ave. N. | Fort Frances Power Corp. |

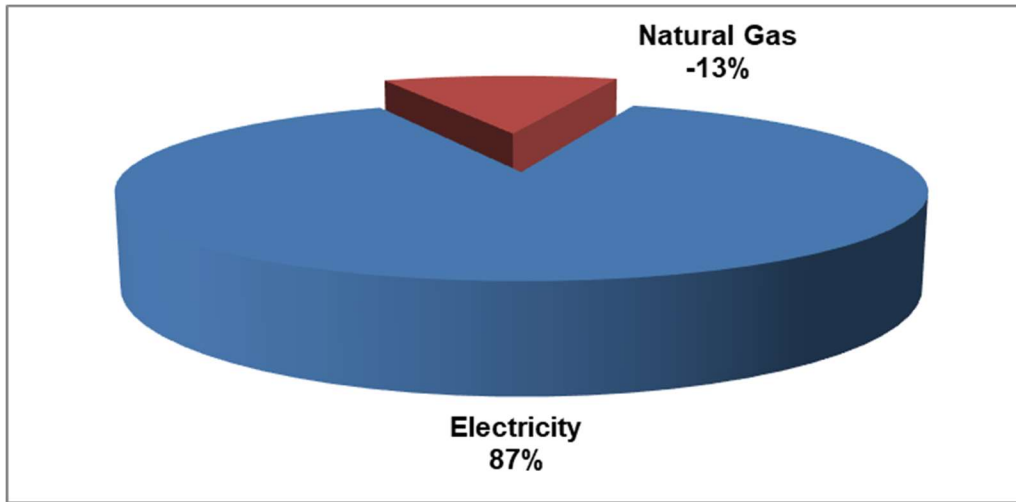
5.3.2 Verified Whole Building savings

Table 15 below, summarizes the verified whole building utility cost savings for the year 2. The detailed consumption and cost savings reports are presented in **Appendix A**.

Table 15 – Whole Building – Utility Cost Savings Summary

| Facility | Electricity | Natural Gas | Total |
|-----------------------|------------------|------------------|------------------|
| Civic Centre | \$25,509 | -\$225 | \$25,284 |
| Memorial Sport Centre | \$115,674 | -\$22,721 | \$92,953 |
| Public Works Shop | \$9,223 | - | \$9,223 |
| Total | \$150,416 | -\$22,945 | \$127,470 |

Figure 2 Utility Savings Distribution for Monitored Meters



5.3.3 Whole Building – Achieved Electricity Cost Savings

The Baseline and Actual Electricity Cost is shown in Figure 3 below. **Table 16** shows the cumulative Electricity Cost Savings for October 2020 to September 2021 is **\$ 150,416**.

Figure 3 Comparison of Baseline vs. Actual Electricity Costs

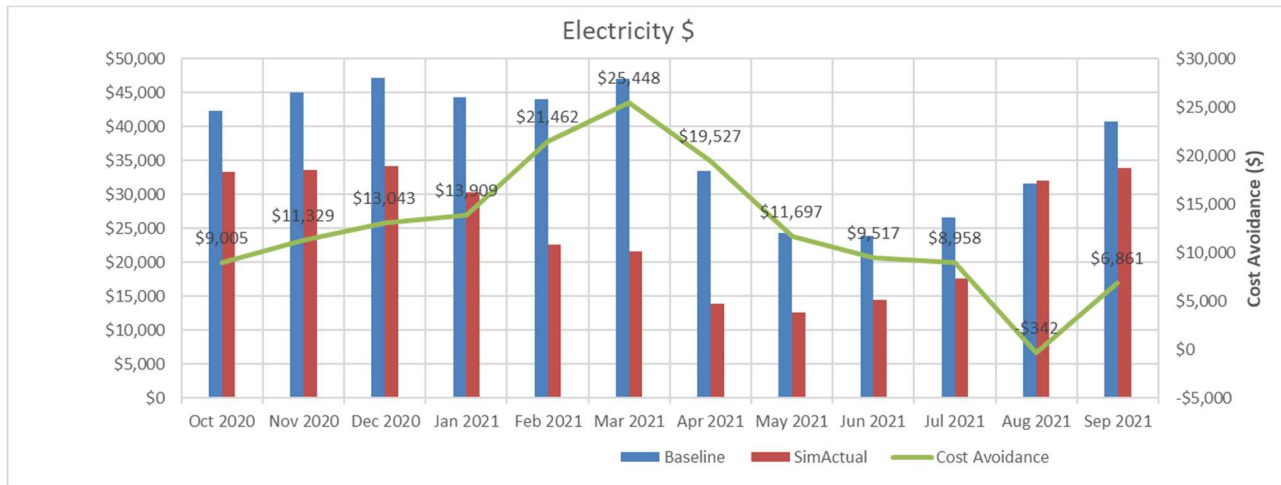


Table 16 – Electricity Cost Saving Summary

| Scenario | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Total |
|----------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-----------|
| Baseline | \$42,371 | \$44,983 | \$47,240 | \$44,295 | \$44,100 | \$47,013 | \$33,479 | \$24,287 | \$23,927 | \$26,623 | \$31,652 | \$40,791 | \$450,761 |
| SimActual | \$33,366 | \$33,654 | \$34,197 | \$30,386 | \$22,638 | \$21,565 | \$13,952 | \$12,590 | \$14,411 | \$17,665 | \$31,993 | \$33,930 | \$300,346 |
| Cost Avoidance | \$9,005 | \$11,329 | \$13,043 | \$13,909 | \$21,462 | \$25,448 | \$19,527 | \$11,697 | \$9,517 | \$8,958 | -\$342 | \$6,861 | \$150,416 |

5.3.4 Whole Building – Achieved Natural Gas Cost Savings

The Baseline and Actual Natural Gas Cost is shown in **Figure 4** below. **Table 17** shows that the cumulative Natural Gas Cost Savings for October 2020 to September 2021 is **-\$ 22,945**.

Figure 4 Comparison of Baseline vs. Actual Natural Gas Costs

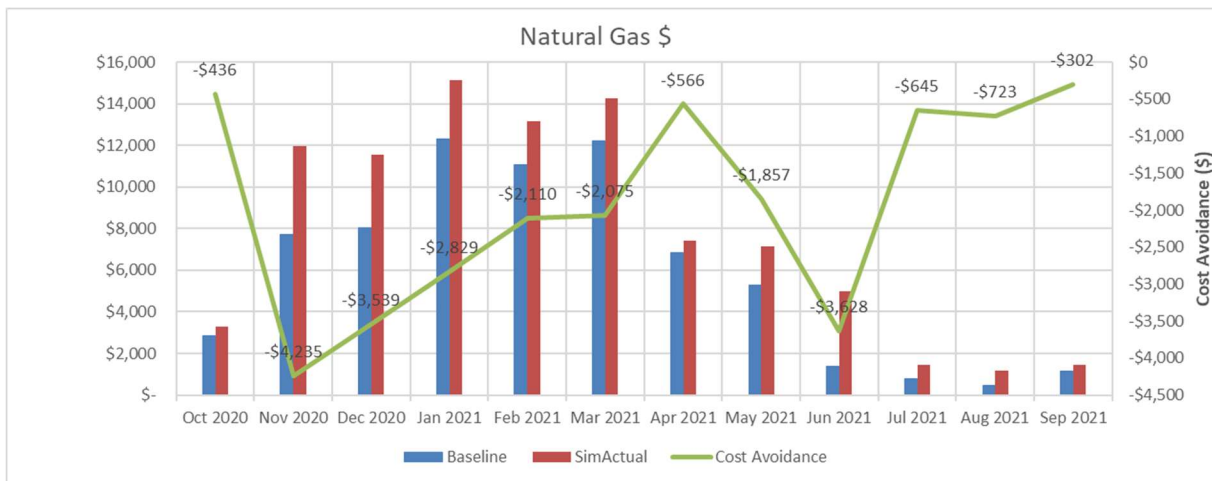


Table 17 – Natural Gas Cost Saving Summary

| Scenario | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Total |
|----------------|---------|----------|----------|----------|----------|----------|---------|----------|----------|---------|---------|---------|-----------|
| Baseline | \$2,853 | \$7,717 | \$8,023 | \$12,321 | \$11,067 | \$12,196 | \$6,830 | \$5,283 | \$1,378 | \$793 | \$463 | \$1,169 | \$70,092 |
| SimActual | \$3,288 | \$11,951 | \$11,562 | \$15,149 | \$13,177 | \$14,272 | \$7,396 | \$7,140 | \$5,007 | \$1,438 | \$1,186 | \$1,471 | \$93,037 |
| Cost Avoidance | -\$436 | -\$4,235 | -\$3,539 | -\$2,829 | -\$2,110 | -\$2,075 | -\$566 | -\$1,857 | -\$3,628 | -\$645 | -\$723 | -\$302 | -\$22,945 |

5.4 Operational Cost Savings

Given the level of granularity required, operational savings are difficult to measure cost effectively. Once installation of the related measure is complete, the operational savings will be considered achieved (deemed) for the term of the guarantee with no further validation required. The deemed operational Savings are summarized and shown in **Table 18** below.

Table 18 – Annual Operational Cost Savings

| Building | Operational Saving (\$) |
|---------------------------|-------------------------|
| Airport | \$176 |
| Civic Centre | \$7,151 |
| Daycare* | - |
| East End Hall | \$70 |
| Memorial Sports Centre | \$5,015 |
| Public Works Garage | \$286 |
| RV Cemetery | \$80 |
| Sister Kennedy Centre | \$307 |
| Sorting Gap Marina | \$137 |
| WWTP | \$(3,977) |
| WTP | \$2,994 |
| City Wide | \$54,500 |
| Facility Renewal Measures | \$1,700 |
| Total | \$67,639 |

5.5 Metrix Analysis and Reports

5.5.1 Metrix Utility Accounting Software

The first step in reducing building energy consumption and cutting operating expenses is to accurately summarize building energy use by tracking and analyzing utility consumption and cost. *METRIX* Utility Accounting Software is an industry recognized utility management program customized to track, analyze, and print reports on energy usage. Utility billing data is entered in METRIX allowing the Energy Analyst to “tune” the data, in order to best simulate building performance over the specific billing period. This data “tuning” generates energy coefficients that will be used to compare future energy use against the energy used during the Base Year. This data is “tuned” using *METRIX*, in order to identify **Base Load** versus **Weather Sensitive** (or production sensitive) energy usage.

Base Load includes lighting, fans, pumps, elevators, domestic hot water, and office equipment (plug load).

Weather Sensitive loads include space heating and humidification, space cooling and de-humidification, condenser use, and additional winter lighting due to shorter sunlight hours.

Tuning also includes varying the building Balance Point Temperature (BPT) - selecting the outside air temperature when neither heating nor cooling is required in the building. Determination of the BPT requires understanding of basic building parameters, such as heating and cooling loads, types and operation of HVAC systems, building function and occupancy, as well as other similar buildings. Proper selection of the base temperature improves the accuracy of the tuning required to determine energy coefficients used in cost avoidance calculations.

5.6 Meter Tuning – Regression Analysis Results

The *METRIX* Meter Tuning tabulates basic meter information, but is used primarily to show the direct results of the Linear Regression Analysis on the Base Year energy values to derive the Baseline energy use. Each of the actual monthly utility bills is tabulated, with the corresponding heating and cooling degree days.

The Multiplier and Offset columns indicate the factors applied to the baseline value used in the calculation of the monthly Baseline energy use. Modifications to the Linear Regression formula are based on actual deviations in building energy use that cannot be accounted for in the regression formula. The Modification capabilities of METRIX allow the Energy Analyst to more accurately tune the meter to represent actual building operation.

The result of the energy analysis is to develop energy coefficients that will be used when comparing the pre-retrofit and post retrofit energy use. These values, in energy units per day, and units per heating and/or cooling degree days are derived from the Linear Regression model.

5.7 Verified Whole Building – Utility and Cost Savings Report

The detailed utility and cost savings for the individual building are presented in **Appendix A**. This report tabulates for each month of the current analysis period, the costs for both the Baseline energy use, and the Current or SimActual energy costs. Cost calculations are based on the Base Year utility rates. The difference in costs is the cost savings.

Appendix A – Meter Performance Report

Meter Detail Report for Town of Fort Frances Project

Reference: Actual usage and costs for past Year.

Baseline: Current usage and costs based upon historic patterns of Unit use.

SimActual: Actual usage and calculated costs for current Year.

Meter: CIC E1

Reference

| | Oct 2010 | Nov 2010 | Dec 2010 | Jan 2011 | Feb 2011 | Mar 2011 | Apr 2011 | May 2011 | Jun 2011 | Jul 2011 | Aug 2011 | Sep 2011 |
|--------------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Month Use | 46,827 | 48,575 | 52,946 | 65,808 | 51,073 | 61,812 | 48,076 | 45,329 | 43,705 | 50,573 | 53,195 | 66,307 |
| YTD Use | 46,827 | 95,402 | 148,348 | 214,155 | 265,228 | 327,040 | 375,116 | 420,444 | 464,149 | 514,722 | 567,918 | 634,225 |
| Meter Demand | 98 | 107 | 109 | 113 | 106 | 102 | 94 | 106 | 97 | 123 | 131 | 123 |
| Month CAD | CAD 4,094 | CAD 4,711 | CAD 5,239 | CAD 5,766 | CAD 5,156 | CAD 6,046 | CAD 4,838 | CAD 4,435 | CAD 4,672 | CAD 5,587 | CAD 5,880 | CAD 6,081 |
| YTD CAD | CAD 4,094 | CAD 8,806 | CAD 14,045 | CAD 19,811 | CAD 24,967 | CAD 31,013 | CAD 35,851 | CAD 40,286 | CAD 44,958 | CAD 50,545 | CAD 56,425 | CAD 62,506 |
| BP Length | 28 | 30 | 27 | 34 | 25 | 32 | 27 | 28 | 28 | 30 | 28 | 35 |
| HDD | 3 | 79 | 474 | 667 | 569 | 469 | 166 | 48 | - | - | - | - |
| CDD | 6 | - | - | - | - | - | - | - | 22 | 78 | 162 | 118 |
| Month Rate | CAD 0.087 | CAD 0.097 | CAD 0.099 | CAD 0.088 | CAD 0.101 | CAD 0.098 | CAD 0.101 | CAD 0.098 | CAD 0.107 | CAD 0.110 | CAD 0.111 | CAD 0.092 |
| YTD Rate | CAD 0.087 | CAD 0.092 | CAD 0.095 | CAD 0.093 | CAD 0.094 | CAD 0.095 | CAD 0.096 | CAD 0.096 | CAD 0.097 | CAD 0.098 | CAD 0.099 | CAD 0.099 |

Baseline

| | Oct 2020 | Nov 2020 | Dec 2020 | Jan 2021 | Feb 2021 | Mar 2021 | Apr 2021 | May 2021 | Jun 2021 | Jul 2021 | Aug 2021 | Sep 2021 |
|------------------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Month Use | 45,459 | 44,990 | 50,833 | 51,786 | 49,655 | 45,971 | 42,381 | 45,818 | 48,906 | 53,601 | 52,701 | 43,907 |
| YTD Use | 45,459 | 90,449 | 141,282 | 193,068 | 242,723 | 288,694 | 331,074 | 376,892 | 425,798 | 479,399 | 532,100 | 576,007 |
| Meter Demand | 100 | 101 | 105 | 106 | 108 | 103 | 100 | 116 | 120 | 129 | 133 | 113 |
| YTD Meter Demand | 100 | 201 | 306 | 412 | 519 | 622 | 723 | 838 | 959 | 1,088 | 1,221 | 1,334 |
| Bill Demand | - | - | - | - | - | - | - | - | - | - | - | - |
| YTD Bill Demand | - | - | - | - | - | - | - | - | - | - | - | - |
| Month CAD | CAD 6,212 | CAD 6,165 | CAD 6,889 | CAD 7,010 | CAD 6,775 | CAD 6,298 | CAD 5,849 | CAD 6,390 | CAD 6,789 | CAD 7,419 | CAD 7,347 | CAD 6,139 |
| YTD CAD | CAD 6,212 | CAD 12,378 | CAD 19,266 | CAD 26,276 | CAD 33,051 | CAD 39,349 | CAD 45,199 | CAD 51,589 | CAD 58,377 | CAD 65,796 | CAD 73,143 | CAD 79,282 |
| BP Length | 31 | 30 | 31 | 31 | 28 | 31 | 30 | 31 | 30 | 31 | 31 | 30 |
| HDD | 136 | 187 | 411 | 459 | 596 | 163 | 61 | 7 | - | - | - | - |
| CDD | - | 3 | - | - | - | - | - | 52 | 139 | 194 | 178 | 49 |
| Month Rate | CAD 0.137 | CAD 0.137 | CAD 0.136 | CAD 0.135 | CAD 0.136 | CAD 0.137 | CAD 0.138 | CAD 0.139 | CAD 0.139 | CAD 0.138 | CAD 0.139 | CAD 0.140 |
| YTD Rate | CAD 0.137 | CAD 0.137 | CAD 0.136 | CAD 0.136 | CAD 0.136 | CAD 0.136 | CAD 0.137 | CAD 0.137 | CAD 0.137 | CAD 0.137 | CAD 0.137 | CAD 0.138 |

SimActual

| | Oct 2020 | Nov 2020 | Dec 2020 | Jan 2021 | Feb 2021 | Mar 2021 | Apr 2021 | May 2021 | Jun 2021 | Jul 2021 | Aug 2021 | Sep 2021 |
|--------------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Month Use | 31,787 | 30,907 | 32,038 | 32,415 | 31,787 | 31,787 | 27,892 | 29,525 | 36,813 | 41,210 | 37,943 | 30,656 |
| YTD Use | 31,787 | 62,694 | 94,732 | 127,147 | 158,934 | 190,721 | 218,613 | 248,138 | 284,951 | 326,161 | 364,104 | 394,760 |
| Meter Demand | 76 | 64 | 63 | 63 | 63 | 65 | 61 | 75 | 79 | 82 | 82 | 75 |
| Month CAD | CAD 4,395 | CAD 4,190 | CAD 4,315 | CAD 4,359 | CAD 4,285 | CAD 4,302 | CAD 3,809 | CAD 4,120 | CAD 5,014 | CAD 5,558 | CAD 5,173 | CAD 4,253 |
| YTD CAD | CAD 4,395 | CAD 8,585 | CAD 12,900 | CAD 17,259 | CAD 21,544 | CAD 25,847 | CAD 29,655 | CAD 33,775 | CAD 38,789 | CAD 44,347 | CAD 49,520 | CAD 53,774 |
| BP Length | 31 | 30 | 31 | 31 | 28 | 31 | 30 | 31 | 30 | 31 | 31 | 30 |
| HDD | 136 | 187 | 411 | 459 | 596 | 163 | 61 | 7 | - | - | - | - |
| CDD | - | 3 | - | - | - | - | - | 52 | 139 | 194 | 178 | 49 |
| Month Rate | CAD 0.138 | CAD 0.136 | CAD 0.135 | CAD 0.134 | CAD 0.135 | CAD 0.135 | CAD 0.137 | CAD 0.140 | CAD 0.136 | CAD 0.135 | CAD 0.136 | CAD 0.139 |
| YTD Rate | CAD 0.138 | CAD 0.137 | CAD 0.136 | CAD 0.136 | CAD 0.136 | CAD 0.136 | CAD 0.136 | CAD 0.136 | CAD 0.136 | CAD 0.136 | CAD 0.136 | CAD 0.136 |

SimActual vs. Baseline

| | Oct 2020 | Nov 2020 | Dec 2020 | Jan 2021 | Feb 2021 | Mar 2021 | Apr 2021 | May 2021 | Jun 2021 | Jul 2021 | Aug 2021 | Sep 2021 |
|------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Month Use | -30.1% | -31.3% | -37.0% | -37.4% | -36.0% | -30.9% | -34.2% | -35.6% | -24.7% | -23.1% | -28.0% | -30.2% |
| YTD Use | -30.1% | -30.7% | -32.9% | -34.1% | -34.5% | -33.9% | -34.0% | -34.2% | -33.1% | -32.0% | -31.6% | -31.5% |
| Meter Demand | -24.3% | -36.3% | -40.1% | -40.3% | -41.4% | -36.9% | -39.2% | -35.3% | -34.2% | -36.5% | -38.4% | -33.5% |
| YTD Meter Demand | -24.3% | -30.3% | -33.7% | -35.4% | -36.6% | -36.7% | -37.0% | -36.8% | -36.5% | -36.5% | -36.7% | -36.4% |
| Month CAD | -29.2% | -32.0% | -37.4% | -37.8% | -36.8% | -31.7% | -34.9% | -35.5% | -26.1% | -25.1% | -29.6% | -30.7% |
| YTD CAD | -29.2% | -30.6% | -33.0% | -34.3% | -34.8% | -34.3% | -34.4% | -34.5% | -33.6% | -32.6% | -32.3% | -32.2% |
| BP Length | - | - | - | - | - | - | - | - | - | - | - | - |
| HDD | - | - | - | - | - | - | - | - | - | - | - | - |
| CDD | - | - | - | - | - | - | - | - | - | - | - | - |

Use Avoidance

| | | | | | | | | | | | | |
|-----------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|
| Month Use | 13,672 | 14,083 | 18,795 | 19,371 | 17,868 | 14,184 | 14,489 | 16,293 | 12,093 | 12,391 | 14,758 | 13,251 |
| YTD Use | 13,672 | 27,755 | 46,550 | 65,921 | 83,789 | 97,973 | 112,461 | 128,754 | 140,847 | 153,238 | 167,996 | 181,247 |

Demand Avoidance

| | | | | | | | | | | | | |
|--------------|----|----|----|----|----|----|----|----|----|----|----|----|
| Meter Demand | 24 | 37 | 42 | 43 | 45 | 38 | 39 | 41 | 41 | 47 | 51 | 38 |
|--------------|----|----|----|----|----|----|----|----|----|----|----|----|

Cost Avoidance

| | | | | | | | | | | | | |
|---------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|
| Month Use CAD | CAD 1,817 | CAD 1,976 | CAD 2,574 | CAD 2,650 | CAD 2,490 | CAD 1,996 | CAD 2,040 | CAD 2,270 | CAD 1,775 | CAD 1,861 | CAD 2,174 | CAD 1,886 |
| YTD CAD | CAD 1,817 | CAD 3,792 | CAD 6,366 | CAD 9,017 | CAD 11,507 | CAD 13,503 | CAD 15,543 | CAD 17,814 | CAD 19,588 | CAD 21,449 | CAD 23,623 | CAD 25,509 |

Meter Detail Report for Town of Fort Frances Project

Reference: Actual usage and costs for past Year.

Baseline: Current usage and costs based upon historic patterns of Unit use.

SimActual: Actual usage and calculated costs for current Year.

Meter: CIC G1

Reference

| | | Oct 2010 | | Nov 2010 | | Dec 2010 | | Jan 2011 | | Feb 2011 | | Mar 2011 | | Apr 2011 | | May 2011 | | Jun 2011 | | Jul 2011 | | Aug 2011 | | Sep 2011 |
|------------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|
| Month Use | | 1,383 | | 4,685 | | 8,095 | | 10,151 | | 10,479 | | 9,258 | | 6,468 | | 3,833 | | - | | - | | 3 | | 47 |
| YTD Use | | 1,383 | | 6,067 | | 14,162 | | 24,313 | | 34,792 | | 44,049 | | 50,517 | | 54,350 | | 54,350 | | 54,350 | | 54,353 | | 54,401 |
| Month CAD | CAD | 687 | CAD | 1,977 | CAD | 3,119 | CAD | 3,881 | CAD | 3,988 | CAD | 3,538 | CAD | 2,549 | CAD | 1,691 | CAD | 79 | CAD | 79 | CAD | 80 | CAD | 100 |
| YTD CAD | CAD | 687 | CAD | 2,664 | CAD | 5,783 | CAD | 9,663 | CAD | 13,651 | CAD | 17,189 | CAD | 19,738 | CAD | 21,430 | CAD | 21,509 | CAD | 21,588 | CAD | 21,668 | CAD | 21,769 |
| BP Length | | 29 | | 32 | | 29 | | 31 | | 31 | | 29 | | 29 | | 30 | | 32 | | 30 | | 33 | | 29 |
| HDD | | 126 | | 253 | | 592 | | 903 | | 959 | | 787 | | 473 | | 276 | | 106 | | 17 | | 1 | | 31 |
| CDD | | - | | - | | - | | - | | - | | - | | - | | - | | 1 | | 19 | | 68 | | 37 |
| Month Rate | CAD | 0.497 | CAD | 0.422 | CAD | 0.385 | CAD | 0.382 | CAD | 0.381 | CAD | 0.382 | CAD | 0.394 | CAD | 0.441 | CAD | - | CAD | - | CAD | 28.861 | CAD | 2.122 |
| YTD Rate | CAD | 0.497 | CAD | 0.439 | CAD | 0.408 | CAD | 0.397 | CAD | 0.392 | CAD | 0.390 | CAD | 0.391 | CAD | 0.394 | CAD | 0.396 | CAD | 0.397 | CAD | 0.399 | CAD | 0.400 |

Baseline

| | | Oct 2020 | | Nov 2020 | | Dec 2020 | | Jan 2021 | | Feb 2021 | | Mar 2021 | | Apr 2021 | | May 2021 | | Jun 2021 | | Jul 2021 | | Aug 2021 | | Sep 2021 |
|------------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|
| Month Use | | 1,500 | | 5,037 | | 5,946 | | 9,055 | | 8,552 | | 9,328 | | 4,659 | | 3,322 | | 704 | | 194 | | 104 | | 265 |
| YTD Use | | 1,500 | | 6,537 | | 12,483 | | 21,538 | | 30,089 | | 39,417 | | 44,077 | | 47,399 | | 48,103 | | 48,297 | | 48,401 | | 48,666 |
| Month CAD | CAD | 587 | CAD | 1,969 | CAD | 2,325 | CAD | 3,541 | CAD | 3,344 | CAD | 3,647 | CAD | 1,822 | CAD | 1,299 | CAD | 275 | CAD | 76 | CAD | 41 | CAD | 104 |
| YTD CAD | CAD | 587 | CAD | 2,556 | CAD | 4,881 | CAD | 8,421 | CAD | 11,765 | CAD | 15,412 | CAD | 17,234 | CAD | 18,533 | CAD | 18,808 | CAD | 18,884 | CAD | 18,925 | CAD | 19,028 |
| BP Length | | 28 | | 34 | | 28 | | 34 | | 27 | | 29 | | 34 | | 29 | | 29 | | 35 | | 30 | | 33 |
| HDD | | 119 | | 419 | | 498 | | 761 | | 720 | | 785 | | 387 | | 274 | | 51 | | 6 | | - | | 13 |
| CDD | | 1 | | - | | - | | - | | - | | - | | - | | - | | 34 | | 59 | | 65 | | 50 |
| Month Rate | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 |
| YTD Rate | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 |

SimActual

| | | Oct 2020 | | Nov 2020 | | Dec 2020 | | Jan 2021 | | Feb 2021 | | Mar 2021 | | Apr 2021 | | May 2021 | | Jun 2021 | | Jul 2021 | | Aug 2021 | | Sep 2021 |
|------------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|
| Month Use | | 515 | | 5,077 | | 5,589 | | 8,854 | | 8,039 | | 8,354 | | 5,408 | | 3,978 | | 1,004 | | 765 | | 373 | | 1,285 |
| YTD Use | | 515 | | 5,592 | | 11,181 | | 20,035 | | 28,074 | | 36,428 | | 41,836 | | 45,814 | | 46,818 | | 47,583 | | 47,956 | | 49,241 |
| Month CAD | CAD | 201 | CAD | 1,985 | CAD | 2,185 | CAD | 3,462 | CAD | 3,143 | CAD | 3,266 | CAD | 2,115 | CAD | 1,555 | CAD | 393 | CAD | 299 | CAD | 146 | CAD | 502 |
| YTD CAD | CAD | 201 | CAD | 2,186 | CAD | 4,372 | CAD | 7,834 | CAD | 10,977 | CAD | 14,243 | CAD | 16,358 | CAD | 17,913 | CAD | 18,306 | CAD | 18,605 | CAD | 18,751 | CAD | 19,253 |
| BP Length | | 28 | | 34 | | 28 | | 34 | | 27 | | 29 | | 34 | | 29 | | 29 | | 35 | | 30 | | 33 |
| HDD | | 119 | | 419 | | 498 | | 761 | | 720 | | 785 | | 387 | | 274 | | 51 | | 6 | | - | | 13 |
| CDD | | 1 | | - | | - | | - | | - | | - | | - | | - | | 34 | | 59 | | 65 | | 50 |
| Month Rate | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 |
| YTD Rate | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 | CAD | 0.391 |

SimActual vs. Baseline

| | | Oct 2020 | | Nov 2020 | | Dec 2020 | | Jan 2021 | | Feb 2021 | | Mar 2021 | | Apr 2021 | | May 2021 | | Jun 2021 | | Jul 2021 | | Aug 2021 | | Sep 2021 |
|-----------|--|----------|--|----------|--|----------|--|----------|--|----------|--|----------|--|----------|--|----------|--|----------|--|----------|--|----------|--|----------|
| Month Use | | -65.7% | | 0.8% | | -6.0% | | -2.2% | | -6.0% | | -10.4% | | 16.1% | | 19.7% | | 42.7% | | 294.4% | | 258.1% | | 384.3% |
| YTD Use | | -65.7% | | -14.5% | | -10.4% | | -7.0% | | -6.7% | | -7.6% | | -5.1% | | -3.3% | | -2.7% | | -1.5% | | -0.9% | | 1.2% |
| Month CAD | | -65.7% | | 0.8% | | -6.0% | | -2.2% | | -6.0% | | -10.4% | | 16.1% | | 19.7% | | 42.7% | | 294.4% | | 258.1% | | 384.3% |
| YTD CAD | | -65.7% | | -14.5% | | -10.4% | | -7.0% | | -6.7% | | -7.6% | | -5.1% | | -3.3% | | -2.7% | | -1.5% | | -0.9% | | 1.2% |
| BP Length | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - |
| HDD | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - |
| CDD | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - |

Use Avoidance

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|--|-----|--|------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|-------|--|---------|
| Month Use | | 985 | | (40) | | 357 | | 201 | | 513 | | 974 | | (749) | | (656) | | (300) | | (571) | | (269) | | (1,020) |
| YTD Use | | 985 | | 945 | | 1,302 | | 1,503 | | 2,015 | | 2,989 | | 2,241 | | 1,585 | | 1,285 | | 714 | | 445 | | (575) |

Cost Avoidance

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|
| Month Use CAD | CAD | 385 | CAD | (16) | CAD | 139 | CAD | 79 | CAD | 200 | CAD | 381 | CAD | (293) | CAD | (256) | CAD | (117) | CAD | (223) | CAD | (105) | CAD | (399) |
| YTD CAD | CAD | 385 | CAD | 369 | CAD | 509 | CAD | 588 | CAD | 788 | CAD | 1,169 | CAD | 876 | CAD | 620 | CAD | 502 | CAD | 279 | CAD | 174 | CAD | (225) |

Meter Detail Report for Town of Fort Frances Project

Reference: Actual usage and costs for past Year.

Baseline: Current usage and costs based upon historic patterns of Unit use.

SimActual: Actual usage and calculated costs for current Year.

Meter: MSC E1

Reference

| | Oct 2010 | Nov 2010 | Dec 2010 | Jan 2011 | Feb 2011 | Mar 2011 | Apr 2011 | May 2011 | Jun 2011 | Jul 2011 | Aug 2011 | Sep 2010 |
|--------------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Month Use | 67,684 | 74,174 | 64,594 | 76,029 | 66,448 | 72,011 | 53,158 | 15,453 | 11,435 | 14,217 | 20,398 | 14,526 |
| YTD Use | 67,684 | 141,858 | 206,452 | 282,481 | 348,929 | 420,940 | 474,098 | 489,551 | 500,986 | 515,203 | 535,601 | 550,127 |
| Meter Demand | 211 | 215 | 198 | 153 | 160 | 191 | 184 | 55 | 71 | 58 | 81 | 81 |
| Month CAD | CAD 5,704 | CAD 7,151 | CAD 6,717 | CAD 6,799 | CAD 6,398 | CAD 7,460 | CAD 5,678 | CAD 1,798 | CAD 1,680 | CAD 1,949 | CAD 2,617 | CAD 1,545 |
| YTD CAD | CAD 5,704 | CAD 12,856 | CAD 19,572 | CAD 26,371 | CAD 32,769 | CAD 40,229 | CAD 45,907 | CAD 47,704 | CAD 49,384 | CAD 51,333 | CAD 53,951 | CAD 55,496 |
| BP Length | 28 | 30 | 27 | 34 | 27 | 30 | 27 | 28 | 28 | 34 | 28 | 30 |
| HDD | 241 | 416 | 750 | 1,167 | 974 | 931 | 572 | 399 | 238 | 120 | 28 | 159 |
| CDD | - | - | - | - | - | - | - | - | - | 10 | 35 | 18 |
| Month Rate | CAD 0.084 | CAD 0.096 | CAD 0.104 | CAD 0.089 | CAD 0.096 | CAD 0.104 | CAD 0.107 | CAD 0.116 | CAD 0.147 | CAD 0.137 | CAD 0.128 | CAD 0.106 |
| YTD Rate | CAD 0.084 | CAD 0.091 | CAD 0.095 | CAD 0.093 | CAD 0.094 | CAD 0.096 | CAD 0.097 | CAD 0.097 | CAD 0.099 | CAD 0.100 | CAD 0.101 | CAD 0.101 |

Baseline

| | Oct 2020 | Nov 2020 | Dec 2020 | Jan 2021 | Feb 2021 | Mar 2021 | Apr 2021 | May 2021 | Jun 2021 | Jul 2021 | Aug 2021 | Sep 2021 |
|--------------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Month Use | 63,124 | 69,244 | 72,123 | 64,257 | 65,067 | 73,844 | 42,195 | 17,351 | 16,014 | 21,544 | 62,389 | 70,157 |
| YTD Use | 63,124 | 132,367 | 204,490 | 268,748 | 333,814 | 407,658 | 449,853 | 467,204 | 483,218 | 504,762 | 567,151 | 637,308 |
| Meter Demand | 172 | 207 | 176 | 155 | 180 | 200 | 124 | 74 | 75 | 93 | 204 | 221 |
| Month CAD | CAD 9,039 | CAD 10,051 | CAD 10,176 | CAD 9,053 | CAD 9,337 | CAD 10,565 | CAD 6,109 | CAD 2,683 | CAD 2,526 | CAD 3,339 | CAD 9,186 | CAD 10,267 |
| YTD CAD | CAD 9,039 | CAD 19,090 | CAD 29,266 | CAD 38,318 | CAD 47,656 | CAD 58,221 | CAD 64,330 | CAD 67,013 | CAD 69,538 | CAD 72,878 | CAD 82,063 | CAD 92,331 |
| BP Length | 31 | 30 | 31 | 31 | 28 | 31 | 30 | 31 | 30 | 31 | 31 | 30 |
| HDD | 533 | 573 | 841 | 890 | 985 | 576 | 450 | 249 | 48 | 21 | 45 | 126 |
| CDD | - | - | - | - | - | - | - | 7 | 19 | 43 | 52 | 3 |
| Month Rate | CAD 0.143 | CAD 0.145 | CAD 0.141 | CAD 0.141 | CAD 0.144 | CAD 0.143 | CAD 0.145 | CAD 0.155 | CAD 0.158 | CAD 0.155 | CAD 0.147 | CAD 0.146 |
| YTD Rate | CAD 0.143 | CAD 0.144 | CAD 0.143 | CAD 0.143 | CAD 0.143 | CAD 0.143 | CAD 0.143 | CAD 0.143 | CAD 0.144 | CAD 0.144 | CAD 0.145 | CAD 0.145 |

SimActual

| | Oct 2020 | Nov 2020 | Dec 2020 | Jan 2021 | Feb 2021 | Mar 2021 | Apr 2021 | May 2021 | Jun 2021 | Jul 2021 | Aug 2021 | Sep 2021 |
|--------------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Month Use | 53,483 | 54,416 | 54,416 | 44,155 | 50,996 | 44,777 | 15,858 | 9,329 | 8,085 | 7,463 | 12,749 | 32,961 |
| YTD Use | 53,483 | 107,899 | 162,315 | 206,470 | 257,466 | 302,243 | 318,101 | 327,430 | 335,515 | 342,978 | 355,727 | 388,688 |
| Meter Demand | 146 | 146 | 155 | 153 | 162 | 156 | 37 | 27 | 23 | 25 | 37 | 143 |
| Month CAD | CAD 7,661 | CAD 7,775 | CAD 7,842 | CAD 6,565 | CAD 7,473 | CAD 6,664 | CAD 2,225 | CAD 1,348 | CAD 1,165 | CAD 1,103 | CAD 1,842 | CAD 5,114 |
| YTD CAD | CAD 7,661 | CAD 15,436 | CAD 23,278 | CAD 29,843 | CAD 37,316 | CAD 43,980 | CAD 46,205 | CAD 47,552 | CAD 48,717 | CAD 49,821 | CAD 51,663 | CAD 56,777 |
| BP Length | 31 | 30 | 31 | 31 | 28 | 31 | 30 | 31 | 30 | 31 | 31 | 30 |
| HDD | 533 | 573 | 841 | 890 | 985 | 576 | 450 | 249 | 48 | 21 | 45 | 126 |
| CDD | - | - | - | - | - | - | - | 7 | 19 | 43 | 52 | 3 |
| Month Rate | CAD 0.143 | CAD 0.143 | CAD 0.144 | CAD 0.149 | CAD 0.147 | CAD 0.149 | CAD 0.140 | CAD 0.144 | CAD 0.144 | CAD 0.148 | CAD 0.145 | CAD 0.155 |
| YTD Rate | CAD 0.143 | CAD 0.143 | CAD 0.143 | CAD 0.145 | CAD 0.145 | CAD 0.146 | CAD 0.145 | CAD 0.145 | CAD 0.145 | CAD 0.145 | CAD 0.145 | CAD 0.146 |

SimActual vs. Baseline

| | Oct 2020 | Nov 2020 | Dec 2020 | Jan 2021 | Feb 2021 | Mar 2021 | Apr 2021 | May 2021 | Jun 2021 | Jul 2021 | Aug 2021 | Sep 2021 |
|------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Month Use | -15.3% | -21.4% | -24.6% | -31.3% | -21.6% | -39.4% | -62.4% | -46.2% | -49.5% | -65.4% | -79.6% | -53.0% |
| YTD Use | -15.3% | -18.5% | -20.6% | -23.2% | -22.9% | -25.9% | -29.3% | -29.9% | -30.6% | -32.1% | -37.3% | -39.0% |
| Meter Demand | -15.1% | -29.5% | -12.1% | -1.1% | -10.0% | -21.8% | -70.1% | -63.4% | -69.3% | -73.2% | -81.9% | -35.2% |
| YTD Meter Demand | -15.1% | -23.0% | -19.5% | -15.5% | -14.4% | -15.8% | -21.3% | -23.7% | -26.2% | -29.2% | -35.7% | -35.7% |
| Month CAD | -15.3% | -22.6% | -22.9% | -27.5% | -20.0% | -36.9% | -63.6% | -49.8% | -53.9% | -67.0% | -79.9% | -50.2% |
| YTD CAD | -15.3% | -19.1% | -20.5% | -22.1% | -21.7% | -24.5% | -28.2% | -29.0% | -29.9% | -31.6% | -37.0% | -38.5% |
| BP Length | - | - | - | - | - | - | - | - | - | - | - | - |
| HDD | - | - | - | - | - | - | - | - | - | - | - | - |
| CDD | - | - | - | - | - | - | - | - | - | - | - | - |

Use Avoidance

| | | | | | | | | | | | | |
|-----------|-------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| Month Use | 9,641 | 14,828 | 17,707 | 20,102 | 14,071 | 29,067 | 26,337 | 8,022 | 7,929 | 14,081 | 49,640 | 37,196 |
| YTD Use | 9,641 | 24,468 | 42,175 | 62,278 | 76,348 | 105,415 | 131,752 | 139,774 | 147,703 | 161,784 | 211,424 | 248,620 |

Demand Avoidance

| | | | | | | | | | | | | |
|--------------|----|----|----|---|----|----|----|----|----|----|-----|----|
| Meter Demand | 26 | 61 | 21 | 2 | 18 | 44 | 87 | 47 | 52 | 68 | 167 | 78 |
|--------------|----|----|----|---|----|----|----|----|----|----|-----|----|

Cost Avoidance

| | | | | | | | | | | | | |
|---------------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|
| Month Use CAD | CAD 1,379 | CAD 2,276 | CAD 2,334 | CAD 2,487 | CAD 1,864 | CAD 3,901 | CAD 3,884 | CAD 1,335 | CAD 1,361 | CAD 2,236 | CAD 7,344 | CAD 5,153 |
| YTD CAD | CAD 1,379 | CAD 3,654 | CAD 5,988 | CAD 8,475 | CAD 10,340 | CAD 14,241 | CAD 18,125 | CAD 19,460 | CAD 20,821 | CAD 23,057 | CAD 30,400 | CAD 35,554 |

Meter Detail Report for Town of Fort Frances Project

Reference: Actual usage and costs for past Year.

Baseline: Current usage and costs based upon historic patterns of Unit use.

SimActual: Actual usage and calculated costs for current Year.

Meter: MSC E2

Reference

| | Oct 2010 | Nov 2010 | Dec 2010 | Jan 2011 | Feb 2011 | Mar 2011 | Apr 2011 | May 2011 | Jun 2011 | Jul 2011 | Aug 2011 | Sep 2010 |
|--------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Month Use | 182,313 | 196,299 | 178,317 | 214,780 | 185,310 | 203,292 | 175,820 | 128,368 | 79,918 | 95,402 | 95,402 | 193,302 |
| YTD Use | 182,313 | 378,612 | 556,929 | 771,709 | 957,019 | 1,160,311 | 1,336,130 | 1,464,499 | 1,544,417 | 1,639,819 | 1,735,221 | 1,928,523 |
| Meter Demand | 411 | 411 | 419 | 425 | 432 | 426 | 420 | 401 | 289 | 226 | 406 | 456 |
| Month CAD | CAD 13,638 | CAD 17,284 | CAD 17,003 | CAD 18,439 | CAD 17,031 | CAD 19,663 | CAD 16,786 | CAD 12,381 | CAD 8,439 | CAD 10,315 | CAD 11,167 | CAD 13,218 |
| YTD CAD | CAD 13,638 | CAD 30,922 | CAD 47,926 | CAD 66,365 | CAD 83,395 | CAD 103,058 | CAD 119,844 | CAD 132,225 | CAD 140,664 | CAD 150,979 | CAD 162,146 | CAD 175,363 |
| BP Length | 28 | 30 | 27 | 34 | 27 | 30 | 27 | 28 | 28 | 34 | 28 | 30 |
| HDD | 216 | 389 | 726 | 1,137 | 950 | 905 | 548 | 374 | 213 | 97 | 18 | 139 |
| CDD | - | - | - | - | - | - | - | - | - | 22 | 68 | 30 |
| Month Rate | CAD 0.075 | CAD 0.088 | CAD 0.095 | CAD 0.086 | CAD 0.092 | CAD 0.097 | CAD 0.095 | CAD 0.096 | CAD 0.106 | CAD 0.108 | CAD 0.117 | CAD 0.068 |
| YTD Rate | CAD 0.075 | CAD 0.082 | CAD 0.086 | CAD 0.086 | CAD 0.087 | CAD 0.089 | CAD 0.090 | CAD 0.090 | CAD 0.091 | CAD 0.092 | CAD 0.093 | CAD 0.091 |

Baseline

| | Oct 2020 | Nov 2020 | Dec 2020 | Jan 2021 | Feb 2021 | Mar 2021 | Apr 2021 | May 2021 | Jun 2021 | Jul 2021 | Aug 2021 | Sep 2021 |
|--------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Month Use | 184,896 | 196,575 | 204,259 | 188,679 | 184,340 | 207,668 | 142,999 | 96,053 | 92,009 | 95,662 | 95,662 | 166,469 |
| YTD Use | 184,896 | 381,472 | 585,731 | 774,410 | 958,751 | 1,166,418 | 1,309,417 | 1,405,470 | 1,497,479 | 1,593,141 | 1,688,803 | 1,855,271 |
| Meter Demand | 404 | 427 | 429 | 409 | 428 | 433 | 357 | 284 | 279 | 373 | 282 | 381 |
| Month CAD | CAD 25,500 | CAD 27,090 | CAD 28,028 | CAD 25,995 | CAD 25,630 | CAD 28,470 | CAD 20,087 | CAD 13,855 | CAD 13,329 | CAD 14,538 | CAD 13,792 | CAD 23,100 |
| YTD CAD | CAD 25,500 | CAD 52,590 | CAD 80,618 | CAD 106,613 | CAD 132,243 | CAD 160,714 | CAD 180,801 | CAD 194,655 | CAD 207,984 | CAD 222,522 | CAD 236,313 | CAD 259,413 |
| BP Length | 31 | 30 | 31 | 31 | 28 | 31 | 30 | 31 | 30 | 31 | 31 | 30 |
| HDD | 506 | 547 | 814 | 862 | 960 | 549 | 423 | 226 | 36 | 12 | 31 | 102 |
| CDD | - | - | - | - | - | - | - | 16 | 48 | 82 | 82 | 7 |
| Month Rate | CAD 0.138 | CAD 0.138 | CAD 0.137 | CAD 0.138 | CAD 0.139 | CAD 0.137 | CAD 0.140 | CAD 0.144 | CAD 0.145 | CAD 0.152 | CAD 0.144 | CAD 0.139 |
| YTD Rate | CAD 0.138 | CAD 0.138 | CAD 0.138 | CAD 0.138 | CAD 0.138 | CAD 0.138 | CAD 0.138 | CAD 0.138 | CAD 0.139 | CAD 0.140 | CAD 0.140 | CAD 0.140 |

SimActual

| | Oct 2020 | Nov 2020 | Dec 2020 | Jan 2021 | Feb 2021 | Mar 2021 | Apr 2021 | May 2021 | Jun 2021 | Jul 2021 | Aug 2021 | Sep 2021 |
|--------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Month Use | 152,276 | 154,286 | 155,794 | 133,681 | 70,861 | 71,866 | 51,764 | 46,738 | 54,276 | 71,866 | 177,906 | 177,404 |
| YTD Use | 152,276 | 306,562 | 462,356 | 596,037 | 666,898 | 738,764 | 790,528 | 837,266 | 891,542 | 963,408 | 1,141,314 | 1,318,718 |
| Meter Demand | 284 | 288 | 286 | 264 | 142 | 126 | 114 | 96 | 116 | 193 | 342 | 316 |
| Month CAD | CAD 20,602 | CAD 20,876 | CAD 21,040 | CAD 18,206 | CAD 9,668 | CAD 9,657 | CAD 7,146 | CAD 6,396 | CAD 7,464 | CAD 10,206 | CAD 24,153 | CAD 23,879 |
| YTD CAD | CAD 20,602 | CAD 41,477 | CAD 62,517 | CAD 80,724 | CAD 90,391 | CAD 100,048 | CAD 107,195 | CAD 113,590 | CAD 121,055 | CAD 131,261 | CAD 155,414 | CAD 179,293 |
| BP Length | 31 | 30 | 31 | 31 | 28 | 31 | 30 | 31 | 30 | 31 | 31 | 30 |
| HDD | 506 | 547 | 814 | 862 | 960 | 549 | 423 | 226 | 36 | 12 | 31 | 102 |
| CDD | - | - | - | - | - | - | - | 16 | 48 | 82 | 82 | 7 |
| Month Rate | CAD 0.135 | CAD 0.135 | CAD 0.135 | CAD 0.136 | CAD 0.136 | CAD 0.134 | CAD 0.138 | CAD 0.137 | CAD 0.138 | CAD 0.142 | CAD 0.136 | CAD 0.135 |
| YTD Rate | CAD 0.135 | CAD 0.135 | CAD 0.135 | CAD 0.135 | CAD 0.136 | CAD 0.135 | CAD 0.136 | CAD 0.136 | CAD 0.136 | CAD 0.136 | CAD 0.136 | CAD 0.136 |

SimActual vs. Baseline

| | Oct 2020 | Nov 2020 | Dec 2020 | Jan 2021 | Feb 2021 | Mar 2021 | Apr 2021 | May 2021 | Jun 2021 | Jul 2021 | Aug 2021 | Sep 2021 |
|------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Month Use | -17.6% | -21.5% | -23.7% | -29.1% | -61.6% | -65.4% | -63.8% | -51.3% | -41.0% | -24.9% | 86.0% | 6.6% |
| YTD Use | -17.6% | -19.6% | -21.1% | -23.0% | -30.4% | -36.7% | -39.6% | -40.4% | -40.5% | -39.5% | -32.4% | -28.9% |
| Meter Demand | -29.7% | -32.6% | -33.3% | -35.4% | -66.9% | -70.9% | -68.0% | -66.2% | -58.5% | -48.3% | 21.4% | -17.1% |
| YTD Meter Demand | -29.7% | -31.2% | -31.9% | -32.8% | -39.7% | -45.1% | -47.9% | -49.5% | -50.3% | -50.1% | -45.2% | -42.8% |
| Month CAD | -19.2% | -22.9% | -24.9% | -30.0% | -62.3% | -66.1% | -64.4% | -53.8% | -44.0% | -29.8% | 75.1% | 3.4% |
| YTD CAD | -19.2% | -21.1% | -22.5% | -24.3% | -31.6% | -37.7% | -40.7% | -41.6% | -41.8% | -41.0% | -34.2% | -30.9% |
| BP Length | - | - | - | - | - | - | - | - | - | - | - | - |
| HDD | - | - | - | - | - | - | - | - | - | - | - | - |
| CDD | - | - | - | - | - | - | - | - | - | - | - | - |

Use Avoidance

| | | | | | | | | | | | | |
|-----------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|----------|----------|
| Month Use | 32,620 | 42,289 | 48,465 | 54,998 | 113,479 | 135,802 | 91,235 | 49,315 | 37,733 | 23,796 | (82,244) | (10,935) |
| YTD Use | 32,620 | 74,910 | 123,375 | 178,373 | 291,853 | 427,654 | 518,889 | 568,204 | 605,937 | 629,733 | 547,489 | 536,553 |

Demand Avoidance

| | | | | | | | | | | | | |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|----|
| Meter Demand | 120 | 139 | 143 | 145 | 286 | 307 | 243 | 188 | 163 | 180 | (60) | 65 |
|--------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|----|

Cost Avoidance

| | | | | | | | | | | | | |
|---------------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------|------------|
| Month Use CAD | CAD 4,898 | CAD 6,214 | CAD 6,988 | CAD 7,789 | CAD 15,962 | CAD 18,813 | CAD 12,941 | CAD 7,459 | CAD 5,864 | CAD 4,331 | CAD (10,361) | CAD (779) |
| YTD CAD | CAD 4,898 | CAD 11,113 | CAD 18,101 | CAD 25,890 | CAD 41,852 | CAD 60,665 | CAD 73,606 | CAD 81,065 | CAD 86,929 | CAD 91,261 | CAD 80,900 | CAD 80,120 |

Meter Detail Report for Town of Fort Frances Project

Reference: Actual usage and costs for past Year.

Baseline: Current usage and costs based upon historic patterns of Unit use.

SimActual: Actual usage and calculated costs for current Year.

Meter: MSC G1

Reference

| | | Oct 2010 | | Nov 2010 | | Dec 2010 | | Jan 2011 | | Feb 2011 | | Mar 2011 | | Apr 2011 | | May 2011 | | Jun 2011 | | Jul 2011 | | Aug 2011 | | Sep 2011 |
|------------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|
| Month Use | | 6,225 | | 9,381 | | 13,457 | | 17,467 | | 19,634 | | 9,714 | | 10,967 | | 3,988 | | 1,110 | | 884 | | 858 | | 2,577 |
| YTD Use | | 6,225 | | 15,606 | | 29,063 | | 46,530 | | 66,164 | | 75,877 | | 86,845 | | 90,832 | | 91,942 | | 92,826 | | 93,684 | | 96,261 |
| Month CAD | CAD | 2,742 | CAD | 3,837 | CAD | 5,088 | CAD | 6,536 | CAD | 7,309 | CAD | 3,708 | CAD | 4,294 | CAD | 1,756 | CAD | 557 | CAD | 462 | CAD | 453 | CAD | 1,211 |
| YTD CAD | CAD | 2,742 | CAD | 6,579 | CAD | 11,666 | CAD | 18,202 | CAD | 25,512 | CAD | 29,219 | CAD | 33,513 | CAD | 35,269 | CAD | 35,826 | CAD | 36,288 | CAD | 36,741 | CAD | 37,952 |
| BP Length | | 32 | | 29 | | 33 | | 30 | | 29 | | 28 | | 32 | | 29 | | 30 | | 32 | | 30 | | 29 |
| HDD | | 246 | | 370 | | 918 | | 976 | | 1,033 | | 822 | | 604 | | 361 | | 210 | | 58 | | 26 | | 106 |
| CDD | | - | | - | | - | | - | | - | | - | | - | | - | | 1 | | 24 | | 63 | | 31 |
| Month Rate | CAD | 0.440 | CAD | 0.409 | CAD | 0.378 | CAD | 0.374 | CAD | 0.372 | CAD | 0.382 | CAD | 0.392 | CAD | 0.440 | CAD | 0.502 | CAD | 0.522 | CAD | 0.528 | CAD | 0.470 |
| YTD Rate | CAD | 0.440 | CAD | 0.422 | CAD | 0.401 | CAD | 0.391 | CAD | 0.386 | CAD | 0.385 | CAD | 0.386 | CAD | 0.388 | CAD | 0.390 | CAD | 0.391 | CAD | 0.392 | CAD | 0.394 |

Baseline

| | | Oct 2020 | | Nov 2020 | | Dec 2020 | | Jan 2021 | | Feb 2021 | | Mar 2021 | | Apr 2021 | | May 2021 | | Jun 2021 | | Jul 2021 | | Aug 2021 | | Sep 2021 |
|------------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|
| Month Use | | 4,003 | | 10,331 | | 10,288 | | 16,278 | | 13,814 | | 16,325 | | 8,782 | | 7,211 | | 1,523 | | 658 | | 172 | | 1,388 |
| YTD Use | | 4,003 | | 14,334 | | 24,623 | | 40,901 | | 54,714 | | 71,040 | | 79,822 | | 87,033 | | 88,556 | | 89,214 | | 89,387 | | 90,775 |
| Month CAD | CAD | 1,469 | CAD | 3,792 | CAD | 3,776 | CAD | 5,974 | CAD | 5,070 | CAD | 5,991 | CAD | 3,223 | CAD | 2,647 | CAD | 559 | CAD | 241 | CAD | 63 | CAD | 509 |
| YTD CAD | CAD | 1,469 | CAD | 5,261 | CAD | 9,036 | CAD | 15,011 | CAD | 20,080 | CAD | 26,072 | CAD | 29,295 | CAD | 31,941 | CAD | 32,500 | CAD | 32,742 | CAD | 32,805 | CAD | 33,314 |
| BP Length | | 29 | | 35 | | 27 | | 35 | | 25 | | 31 | | 32 | | 31 | | 28 | | 36 | | 32 | | 31 |
| HDD | | 227 | | 586 | | 584 | | 923 | | 784 | | 926 | | 498 | | 409 | | 86 | | 37 | | 9 | | 78 |
| CDD | | 1 | | - | | - | | - | | - | | - | | - | | - | | 40 | | 53 | | 78 | | 36 |
| Month Rate | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 |
| YTD Rate | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 |

SimActual

| | | Oct 2020 | | Nov 2020 | | Dec 2020 | | Jan 2021 | | Feb 2021 | | Mar 2021 | | Apr 2021 | | May 2021 | | Jun 2021 | | Jul 2021 | | Aug 2021 | | Sep 2021 |
|------------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|
| Month Use | | 6,947 | | 22,581 | | 20,935 | | 25,130 | | 20,876 | | 24,116 | | 10,155 | | 11,808 | | 10,917 | | 1,089 | | 996 | | 740 |
| YTD Use | | 6,947 | | 29,528 | | 50,463 | | 75,593 | | 96,469 | | 120,585 | | 130,740 | | 142,548 | | 153,465 | | 154,554 | | 155,550 | | 156,290 |
| Month CAD | CAD | 2,550 | CAD | 8,287 | CAD | 7,683 | CAD | 9,223 | CAD | 7,661 | CAD | 8,851 | CAD | 3,727 | CAD | 4,334 | CAD | 4,007 | CAD | 400 | CAD | 366 | CAD | 272 |
| YTD CAD | CAD | 2,550 | CAD | 10,837 | CAD | 18,520 | CAD | 27,743 | CAD | 35,404 | CAD | 44,255 | CAD | 47,982 | CAD | 52,315 | CAD | 56,322 | CAD | 56,721 | CAD | 57,087 | CAD | 57,359 |
| BP Length | | 29 | | 35 | | 27 | | 35 | | 25 | | 31 | | 32 | | 31 | | 28 | | 36 | | 32 | | 31 |
| HDD | | 227 | | 586 | | 584 | | 923 | | 784 | | 926 | | 498 | | 409 | | 86 | | 37 | | 9 | | 78 |
| CDD | | 1 | | - | | - | | - | | - | | - | | - | | - | | 40 | | 53 | | 78 | | 36 |
| Month Rate | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 |
| YTD Rate | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 | CAD | 0.367 |

SimActual vs. Baseline

| | | Oct 2020 | | Nov 2020 | | Dec 2020 | | Jan 2021 | | Feb 2021 | | Mar 2021 | | Apr 2021 | | May 2021 | | Jun 2021 | | Jul 2021 | | Aug 2021 | | Sep 2021 |
|-----------|--|----------|--|----------|--|----------|--|----------|--|----------|--|----------|--|----------|--|----------|--|----------|--|----------|--|----------|--|----------|
| Month Use | | 73.6% | | 118.6% | | 103.5% | | 54.4% | | 51.1% | | 47.7% | | 15.6% | | 63.7% | | 616.7% | | 65.5% | | 477.8% | | -46.7% |
| YTD Use | | 73.6% | | 106.0% | | 104.9% | | 84.8% | | 76.3% | | 69.7% | | 63.8% | | 63.8% | | 73.3% | | 73.2% | | 74.0% | | 72.2% |
| Month CAD | | 73.6% | | 118.6% | | 103.5% | | 54.4% | | 51.1% | | 47.7% | | 15.6% | | 63.7% | | 616.7% | | 65.5% | | 477.8% | | -46.7% |
| YTD CAD | | 73.6% | | 106.0% | | 104.9% | | 84.8% | | 76.3% | | 69.7% | | 63.8% | | 63.8% | | 73.3% | | 73.2% | | 74.0% | | 72.2% |
| BP Length | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - |
| HDD | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - |
| CDD | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - |

Use Avoidance

| | | | | | | | | | | | | |
|-----------|---------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Month Use | (2,944) | (12,250) | (10,647) | (8,852) | (7,062) | (7,791) | (1,373) | (4,597) | (9,394) | (431) | (824) | 648 |
| YTD Use | (2,944) | (15,194) | (25,841) | (34,693) | (41,755) | (49,546) | (50,919) | (55,515) | (64,909) | (65,340) | (66,164) | (65,516) |

Cost Avoidance

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|-----|---------|-----|---------|-----|---------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|
| Month Use CAD | CAD | (1,081) | CAD | (4,496) | CAD | (3,907) | CAD | (3,249) | CAD | (2,592) | CAD | (2,859) | CAD | (504) | CAD | (1,687) | CAD | (3,448) | CAD | (158) | CAD | (302) | CAD | 238 |
| YTD CAD | CAD | (1,081) | CAD | (5,576) | CAD | (9,484) | CAD | (12,732) | CAD | (15,324) | CAD | (18,183) | CAD | (18,687) | CAD | (20,374) | CAD | (23,822) | CAD | (23,980) | CAD | (24,282) | CAD | (24,044) |

Meter Detail Report for Town of Fort Frances Project

Reference: Actual usage and costs for past Year.

Baseline: Current usage and costs based upon historic patterns of Unit use.

SimActual: Actual usage and calculated costs for current Year.

Meter: MSC G2

Reference

| | | Oct 2010 | | Nov 2010 | | Dec 2010 | | Jan 2011 | | Feb 2011 | | Mar 2011 | | Apr 2011 | | May 2011 | | Jun 2011 | | Jul 2011 | | Aug 2011 | | Sep 2011 |
|------------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|
| Month Use | | 2,056 | | 3,438 | | 6,393 | | 6,885 | | 6,935 | | 7,992 | | 5,661 | | 4,409 | | 2,348 | | 804 | | 476 | | 1,586 |
| YTD Use | | 2,056 | | 5,494 | | 11,887 | | 18,771 | | 25,706 | | 33,698 | | 39,359 | | 43,769 | | 46,116 | | 46,920 | | 47,396 | | 48,982 |
| Month CAD | CAD | 958 | CAD | 1,512 | CAD | 2,624 | CAD | 2,816 | CAD | 2,825 | CAD | 3,252 | CAD | 2,366 | CAD | 1,966 | CAD | 1,061 | CAD | 382 | CAD | 238 | CAD | 752 |
| YTD CAD | CAD | 958 | CAD | 2,470 | CAD | 5,094 | CAD | 7,910 | CAD | 10,735 | CAD | 13,987 | CAD | 16,352 | CAD | 18,318 | CAD | 19,379 | CAD | 19,762 | CAD | 20,000 | CAD | 20,752 |
| BP Length | | 32 | | 29 | | 33 | | 30 | | 29 | | 28 | | 32 | | 29 | | 30 | | 32 | | 30 | | 29 |
| HDD | | 246 | | 370 | | 918 | | 976 | | 1,033 | | 822 | | 604 | | 361 | | 210 | | 58 | | 26 | | 106 |
| CDD | | - | | - | | - | | - | | - | | - | | - | | - | | 1 | | 24 | | 63 | | 31 |
| Month Rate | CAD | 0.466 | CAD | 0.440 | CAD | 0.411 | CAD | 0.409 | CAD | 0.407 | CAD | 0.407 | CAD | 0.418 | CAD | 0.446 | CAD | 0.452 | CAD | 0.476 | CAD | 0.501 | CAD | 0.474 |
| YTD Rate | CAD | 0.466 | CAD | 0.450 | CAD | 0.429 | CAD | 0.421 | CAD | 0.418 | CAD | 0.415 | CAD | 0.415 | CAD | 0.419 | CAD | 0.420 | CAD | 0.421 | CAD | 0.422 | CAD | 0.424 |

Baseline

| | | Oct 2020 | | Nov 2020 | | Dec 2020 | | Jan 2021 | | Feb 2021 | | Mar 2021 | | Apr 2021 | | May 2021 | | Jun 2021 | | Jul 2021 | | Aug 2021 | | Sep 2021 |
|------------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|
| Month Use | | 2,018 | | 4,951 | | 4,868 | | 7,105 | | 6,718 | | 6,475 | | 4,519 | | 3,385 | | 1,377 | | 1,205 | | 908 | | 1,406 |
| YTD Use | | 2,018 | | 6,969 | | 11,837 | | 18,941 | | 25,659 | | 32,134 | | 36,653 | | 40,038 | | 41,416 | | 42,620 | | 43,528 | | 44,934 |
| Month CAD | CAD | 797 | CAD | 1,956 | CAD | 1,923 | CAD | 2,806 | CAD | 2,653 | CAD | 2,558 | CAD | 1,785 | CAD | 1,337 | CAD | 544 | CAD | 476 | CAD | 359 | CAD | 555 |
| YTD CAD | CAD | 797 | CAD | 2,753 | CAD | 4,675 | CAD | 7,482 | CAD | 10,135 | CAD | 12,693 | CAD | 14,478 | CAD | 15,815 | CAD | 16,359 | CAD | 16,835 | CAD | 17,194 | CAD | 17,749 |
| BP Length | | 25 | | 35 | | 28 | | 34 | | 27 | | 29 | | 34 | | 29 | | 29 | | 35 | | 31 | | 32 |
| HDD | | 196 | | 586 | | 602 | | 905 | | 877 | | 833 | | 526 | | 380 | | 86 | | 37 | | 9 | | 78 |
| CDD | | 1 | | - | | - | | - | | - | | - | | - | | - | | 42 | | 51 | | 70 | | 44 |
| Month Rate | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 |
| YTD Rate | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 |

SimActual

| | | Oct 2020 | | Nov 2020 | | Dec 2020 | | Jan 2021 | | Feb 2021 | | Mar 2021 | | Apr 2021 | | May 2021 | | Jun 2021 | | Jul 2021 | | Aug 2021 | | Sep 2021 |
|------------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|
| Month Use | | 1,360 | | 4,251 | | 4,287 | | 6,240 | | 6,006 | | 5,455 | | 3,936 | | 3,166 | | 1,538 | | 1,872 | | 1,708 | | 1,764 |
| YTD Use | | 1,360 | | 5,611 | | 9,898 | | 16,138 | | 22,144 | | 27,599 | | 31,535 | | 34,701 | | 36,239 | | 38,111 | | 39,819 | | 41,583 |
| Month CAD | CAD | 537 | CAD | 1,679 | CAD | 1,693 | CAD | 2,465 | CAD | 2,372 | CAD | 2,155 | CAD | 1,555 | CAD | 1,251 | CAD | 608 | CAD | 739 | CAD | 675 | CAD | 697 |
| YTD CAD | CAD | 537 | CAD | 2,216 | CAD | 3,910 | CAD | 6,375 | CAD | 8,747 | CAD | 10,902 | CAD | 12,456 | CAD | 13,707 | CAD | 14,315 | CAD | 15,054 | CAD | 15,729 | CAD | 16,425 |
| BP Length | | 25 | | 35 | | 28 | | 34 | | 27 | | 29 | | 34 | | 29 | | 29 | | 35 | | 31 | | 32 |
| HDD | | 196 | | 586 | | 602 | | 905 | | 877 | | 833 | | 526 | | 380 | | 86 | | 37 | | 9 | | 78 |
| CDD | | 1 | | - | | - | | - | | - | | - | | - | | - | | 42 | | 51 | | 70 | | 44 |
| Month Rate | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 |
| YTD Rate | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 | CAD | 0.395 |

SimActual vs. Baseline

| | | Oct 2020 | | Nov 2020 | | Dec 2020 | | Jan 2021 | | Feb 2021 | | Mar 2021 | | Apr 2021 | | May 2021 | | Jun 2021 | | Jul 2021 | | Aug 2021 | | Sep 2021 |
|-----------|--|----------|--|----------|--|----------|--|----------|--|----------|--|----------|--|----------|--|----------|--|----------|--|----------|--|----------|--|----------|
| Month Use | | -32.6% | | -14.1% | | -11.9% | | -12.2% | | -10.6% | | -15.8% | | -12.9% | | -6.5% | | 11.7% | | 55.4% | | 88.1% | | 25.5% |
| YTD Use | | -32.6% | | -19.5% | | -16.4% | | -14.8% | | -13.7% | | -14.1% | | -14.0% | | -13.3% | | -12.5% | | -10.6% | | -8.5% | | -7.5% |
| Month CAD | | -32.6% | | -14.1% | | -11.9% | | -12.2% | | -10.6% | | -15.8% | | -12.9% | | -6.5% | | 11.7% | | 55.4% | | 88.1% | | 25.5% |
| YTD CAD | | -32.6% | | -19.5% | | -16.4% | | -14.8% | | -13.7% | | -14.1% | | -14.0% | | -13.3% | | -12.5% | | -10.6% | | -8.5% | | -7.5% |
| BP Length | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - |
| HDD | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - |
| CDD | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - |

Use Avoidance

| | | | | | | | | | | | | |
|-----------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Month Use | 657 | 700 | 581 | 865 | 712 | 1,020 | 583 | 219 | (161) | (667) | (800) | (358) |
| YTD Use | 657 | 1,358 | 1,938 | 2,803 | 3,514 | 4,535 | 5,118 | 5,337 | 5,176 | 4,509 | 3,709 | 3,351 |

Cost Avoidance

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|-----|-----|-----|-----|-----|-----|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|
| Month Use CAD | CAD | 260 | CAD | 277 | CAD | 229 | CAD | 342 | CAD | 281 | CAD | 403 | CAD | 230 | CAD | 87 | CAD | (64) | CAD | (264) | CAD | (316) | CAD | (141) |
| YTD CAD | CAD | 260 | CAD | 536 | CAD | 766 | CAD | 1,107 | CAD | 1,388 | CAD | 1,791 | CAD | 2,021 | CAD | 2,108 | CAD | 2,045 | CAD | 1,781 | CAD | 1,465 | CAD | 1,324 |

Meter Detail Report for Town of Fort Frances Project

Reference: Actual usage and costs for past Year.

Baseline: Current usage and costs based upon historic patterns of Unit use.

SimActual: Actual usage and calculated costs for current Year.

Meter: PWS E1

Reference

| | | Oct 2010 | | Nov 2010 | | Dec 2010 | | Jan 2011 | | Feb 2011 | | Mar 2011 | | Apr 2011 | | May 2011 | | Jun 2011 | | Jul 2011 | | Aug 2010 | | Sep 2010 |
|--------------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|
| Month Use | | 7,600 | | 26,057 | | 21,062 | | 19,314 | | 18,315 | | 14,735 | | 11,988 | | 10,073 | | 10,406 | | 9,740 | | 9,490 | | 9,324 |
| YTD Use | | 7,600 | | 33,657 | | 54,718 | | 74,032 | | 92,346 | | 107,081 | | 119,069 | | 129,142 | | 139,548 | | 149,288 | | 158,778 | | 168,102 |
| Meter Demand | | 29 | | 42 | | 45 | | 48 | | 44 | | 40 | | 37 | | 38 | | - | | - | | 37 | | 36 |
| Month CAD | CAD | 817 | CAD | 2,636 | CAD | 2,008 | CAD | 1,722 | CAD | 1,634 | CAD | 1,319 | CAD | 1,099 | CAD | 973 | CAD | 1,004 | CAD | 941 | CAD | 976 | CAD | 959 |
| YTD CAD | CAD | 817 | CAD | 3,454 | CAD | 5,461 | CAD | 7,183 | CAD | 8,817 | CAD | 10,136 | CAD | 11,236 | CAD | 12,208 | CAD | 13,212 | CAD | 14,153 | CAD | 15,129 | CAD | 16,088 |
| BP Length | | 28 | | 59 | | 32 | | 27 | | 32 | | 25 | | 31 | | 28 | | 30 | | 28 | | 28 | | 30 |
| HDD | | 2 | | 574 | | 651 | | 649 | | 523 | | 189 | | 61 | | 0 | | - | | - | | - | | - |
| CDD | | - | | - | | - | | - | | - | | - | | - | | 1 | | 18 | | 62 | | 46 | | 28 |
| Month Rate | CAD | 0.108 | CAD | 0.101 | CAD | 0.095 | CAD | 0.089 | CAD | 0.089 | CAD | 0.090 | CAD | 0.092 | CAD | 0.097 | CAD | 0.096 | CAD | 0.097 | CAD | 0.103 | CAD | 0.103 |
| YTD Rate | CAD | 0.108 | CAD | 0.103 | CAD | 0.100 | CAD | 0.097 | CAD | 0.095 | CAD | 0.095 | CAD | 0.094 | CAD | 0.095 | CAD | 0.095 | CAD | 0.095 | CAD | 0.095 | CAD | 0.096 |

Baseline

| | | Oct 2020 | | Nov 2020 | | Dec 2020 | | Jan 2021 | | Feb 2021 | | Mar 2021 | | Apr 2021 | | May 2021 | | Jun 2021 | | Jul 2021 | | Aug 2021 | | Sep 2021 |
|--------------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|
| Month Use | | 13,062 | | 13,521 | | 17,316 | | 18,044 | | 19,009 | | 13,543 | | 11,567 | | 10,959 | | 10,360 | | 10,706 | | 10,706 | | 10,360 |
| YTD Use | | 13,062 | | 26,583 | | 43,899 | | 61,942 | | 80,951 | | 94,493 | | 106,060 | | 117,020 | | 127,380 | | 138,086 | | 148,792 | | 159,152 |
| Meter Demand | | 39 | | 39 | | 44 | | 44 | | 46 | | 42 | | 39 | | 37 | | 36 | | 36 | | 36 | | 36 |
| Month CAD | CAD | 1,620 | CAD | 1,677 | CAD | 2,147 | CAD | 2,237 | CAD | 2,357 | CAD | 1,679 | CAD | 1,434 | CAD | 1,359 | CAD | 1,285 | CAD | 1,328 | CAD | 1,328 | CAD | 1,285 |
| YTD CAD | CAD | 1,620 | CAD | 3,296 | CAD | 5,443 | CAD | 7,681 | CAD | 10,038 | CAD | 11,717 | CAD | 13,151 | CAD | 14,510 | CAD | 15,795 | CAD | 17,123 | CAD | 18,450 | CAD | 19,735 |
| BP Length | | 31 | | 30 | | 31 | | 31 | | 28 | | 31 | | 30 | | 31 | | 30 | | 31 | | 31 | | 30 |
| HDD | | 157 | | 211 | | 442 | | 490 | | 624 | | 190 | | 81 | | 17 | | - | | - | | - | | - |
| CDD | | - | | - | | - | | - | | - | | - | | - | | 14 | | 43 | | 75 | | 77 | | 6 |
| Month Rate | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 |
| YTD Rate | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 |

SimActual

| | | Oct 2020 | | Nov 2020 | | Dec 2020 | | Jan 2021 | | Feb 2021 | | Mar 2021 | | Apr 2021 | | May 2021 | | Jun 2021 | | Jul 2021 | | Aug 2021 | | Sep 2021 |
|--------------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|-----|----------|
| Month Use | | 5,709 | | 6,561 | | 8,067 | | 10,123 | | 9,773 | | 7,593 | | 6,229 | | 5,857 | | 6,190 | | 6,428 | | 6,657 | | 5,508 |
| YTD Use | | 5,709 | | 12,270 | | 20,337 | | 30,460 | | 40,233 | | 47,826 | | 54,055 | | 59,912 | | 66,102 | | 72,530 | | 79,187 | | 84,695 |
| Meter Demand | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - |
| Month CAD | CAD | 708 | CAD | 814 | CAD | 1,000 | CAD | 1,255 | CAD | 1,212 | CAD | 942 | CAD | 772 | CAD | 726 | CAD | 768 | CAD | 797 | CAD | 825 | CAD | 683 |
| YTD CAD | CAD | 708 | CAD | 1,521 | CAD | 2,522 | CAD | 3,777 | CAD | 4,989 | CAD | 5,930 | CAD | 6,703 | CAD | 7,429 | CAD | 8,197 | CAD | 8,994 | CAD | 9,819 | CAD | 10,502 |
| BP Length | | 31 | | 30 | | 31 | | 31 | | 28 | | 31 | | 30 | | 31 | | 30 | | 31 | | 31 | | 30 |
| HDD | | 157 | | 211 | | 442 | | 490 | | 624 | | 190 | | 81 | | 17 | | - | | - | | - | | - |
| CDD | | - | | - | | - | | - | | - | | - | | - | | 14 | | 43 | | 75 | | 77 | | 6 |
| Month Rate | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 |
| YTD Rate | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 | CAD | 0.124 |

SimActual vs. Baseline

| | | Oct 2020 | | Nov 2020 | | Dec 2020 | | Jan 2021 | | Feb 2021 | | Mar 2021 | | Apr 2021 | | May 2021 | | Jun 2021 | | Jul 2021 | | Aug 2021 | | Sep 2021 |
|------------------|--|----------|--|----------|--|----------|--|----------|--|----------|--|----------|--|----------|--|----------|--|----------|--|----------|--|----------|--|----------|
| Month Use | | -56.3% | | -51.5% | | -53.4% | | -43.9% | | -48.6% | | -43.9% | | -46.1% | | -46.6% | | -40.3% | | -40.0% | | -37.8% | | -46.8% |
| YTD Use | | -56.3% | | -53.8% | | -53.7% | | -50.8% | | -50.3% | | -49.4% | | -49.0% | | -48.8% | | -48.1% | | -47.5% | | -46.8% | | -46.8% |
| Meter Demand | | -100.0% | | -100.0% | | -100.0% | | -100.0% | | -100.0% | | -100.0% | | -100.0% | | -100.0% | | -100.0% | | -100.0% | | -100.0% | | -100.0% |
| YTD Meter Demand | | -100.0% | | -100.0% | | -100.0% | | -100.0% | | -100.0% | | -100.0% | | -100.0% | | -100.0% | | -100.0% | | -100.0% | | -100.0% | | -100.0% |
| Month CAD | | -56.3% | | -51.5% | | -53.4% | | -43.9% | | -48.6% | | -43.9% | | -46.1% | | -46.6% | | -40.3% | | -40.0% | | -37.8% | | -46.8% |
| YTD CAD | | -56.3% | | -53.8% | | -53.7% | | -50.8% | | -50.3% | | -49.4% | | -49.0% | | -48.8% | | -48.1% | | -47.5% | | -46.8% | | -46.8% |
| BP Length | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - |
| HDD | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - |
| CDD | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - | | - |

Use Avoidance

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------|--|-------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|
| Month Use | | 7,353 | | 6,960 | | 9,249 | | 7,921 | | 9,236 | | 5,950 | | 5,338 | | 5,102 | | 4,170 | | 4,278 | | 4,049 | | 4,852 |
| YTD Use | | 7,353 | | 14,313 | | 23,562 | | 31,482 | | 40,718 | | 46,667 | | 52,005 | | 57,108 | | 61,278 | | 65,556 | | 69,605 | | 74,457 |

Demand Avoidance

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|
| Meter Demand | | 39 | | 39 | | 44 | | 44 | | 46 | | 42 | | 39 | | 37 | | 36 | | 36 | | 36 | | 36 |
|--------------|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|--|----|

Cost Avoidance

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|-----|-----|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|
| Month Use CAD | CAD | 912 | CAD | 863 | CAD | 1,147 | CAD | 982 | CAD | 1,145 | CAD | 738 | CAD | 662 | CAD | 633 | CAD | 517 | CAD | 530 | CAD | 502 | CAD | 602 |
| YTD CAD | CAD | 912 | CAD | 1,775 | CAD | 2,922 | CAD | 3,904 | CAD | 5,049 | CAD | 5,787 | CAD | 6,449 | CAD | 7,081 | CAD | 7,598 | CAD | 8,129 | CAD | 8,631 | CAD | 9,233 |

Appendix B – Base Year Adjustments

| Fixture Description | Fixture Count | Lamp Count per Fixture | Pre-Retrofit Wattage per | Post-Retrofit Wattage per | Connected Wattage Reduction (kW) | Daily Hours | Operating Days per Year | Annual Hours | Annual Energy Savings (kWh) | Annual Energy Cost Savings |
|----------------------------------|---------------|------------------------|--------------------------|---------------------------|----------------------------------|-------------|-------------------------|--------------|-----------------------------|----------------------------|
| 4' T8's 4bulb 25w (10hrs) | 143 | 4 | 25 | 15 | 5.72 | 10 | 260 | 2,600 | 14,872 | \$2,337 |
| 4' T8's 4bulb 25w (24hrs) | 90 | 4 | 25 | 15 | 3.60 | 24 | 365 | 8,760 | 31,536 | \$4,088 |
| 4' T8's 2bulb 25w (10hrs) | 94 | 2 | 25 | 15 | 1.88 | 10 | 260 | 2,600 | 4,888 | \$768 |
| 4' T8's 2bulb 25w (24hrs) | 64 | 2 | 25 | 15 | 1.28 | 24 | 365 | 8,760 | 11,213 | \$1,453 |
| 4' T8's 1bulb 25w (10hrs) | 18 | 1 | 25 | 15 | 0.18 | 10 | 260 | 2,600 | 468 | \$74 |
| 4' T8's 1bulb 25w (24hrs) | 3 | 1 | 25 | 15 | 0.03 | 24 | 365 | 8,760 | 263 | \$34 |
| 4' T5's 2bulb 28w (24hrs) | 12 | 2 | 28 | 18 | 0.24 | 24 | 365 | 8,760 | 2,102 | \$273 |
| 2' T8's 4bulb (10hrs) | 26 | 4 | 17 | 9 | 0.83 | 10 | 260 | 2,600 | 2,163 | \$340 |
| 2' T8's 4bulb (24hrs) | 16 | 4 | 17 | 9 | 0.51 | 24 | 365 | 8,760 | 4,485 | \$581 |
| 2' T8's 2bulb (10hrs) | 0 | 2 | 17 | 9 | 0.00 | 10 | | | 0 | \$0 |
| 2' T8's 2bulb (24hrs) | 5 | 2 | 17 | 9 | 0.08 | 24 | 365 | 8,760 | 701 | \$91 |
| Potlights 60 watt floods (10hrs) | 18 | 1 | 60 | 10 | 0.90 | 10 | 260 | 2,600 | 2,340 | \$368 |
| Potlights 60 watt floods (24hrs) | 18 | 1 | 60 | 10 | 0.90 | 24 | 365 | 8,760 | 7,884 | \$1,022 |
| Double T8's (17w) | 0 | 2 | 17 | 9 | 0.00 | 12 | | | 0 | |
| CFL (7w) | 0 | 1 | 7 | 4 | 0.00 | 24 | | | 0 | |
| Tracklights (3 bulb 60w incand.) | 0 | 3 | 60 | 10 | 0.00 | 12 | | | 0 | |
| Double T12's | 0 | 2 | 34 | 15 | 0.00 | 12 | | | 0 | |
| 4 Tube T8's (32w) | 0 | 4 | 32 | 15 | 0.00 | 12 | | | 0 | |
| Incand. Spots (65w) | 0 | 1 | 65 | 8.5 | 0.00 | 10 | | | 0 | |
| Incand. Wall lights (60w) | 0 | 1 | 60 | 10 | 0.00 | 24 | | | 0 | |

Year 2 Unit Cost

\$0.118 per kWh

\$8.48 per kW-month

End of Report

TRANSPORTATION REPORT

February 2022

STAFFING*

The following table is a breakdown of lost man shifts during the month:

| | 2021 | 2022 |
|---------------------|--------------|--------------|
| WSIB | 0.00 | 0.00 |
| WI/LTD | 19.00 | 0.00 |
| SICK DAYS | 2.75 | 4.81 |
| COMPASSIONATE LEAVE | 0.00 | 3.00 |
| FLOATERS | 5.00 | 5.50 |
| VACATION | 14.50 | 11.00 |
| BANKED TIME USED | 6.25 | 7.88 |
| OFF | 0.00 | 0.00 |
| STATUTORY HOLIDAYS | 30.00 | 18.00 |
| TOTAL | 77.50 | 50.19 |

* Water, sewer and WTP not included

OVERTIME HOURS

Equivalent Straight Time Hours:

| | 2021 | 2022 | 2021 | 2022 |
|-----------------------|---------------|---------------|---------------|---------------|
| | Feb | Feb | Year To | Year To |
| | | | Date | Date |
| ADMINISTRATION | 0.00 | 0.00 | 0.00 | 0.00 |
| TRAVEL | 0.00 | 0.00 | 0.00 | 0.00 |
| ENGINEERING | 0.00 | 0.00 | 0.00 | 0.00 |
| INTERDEPARTMENTAL | 0.00 | 0.00 | 4.00 | 0.00 |
| PRIVATE WORK | 20.00 | 0.00 | 21.50 | 0.00 |
| RECYCLE/GARBAGE | 1.50 | 1.50 | 1.50 | 1.50 |
| ROADS | 3.00 | 277.25 | 127.00 | 344.25 |
| SEWER COLLECTION | 12.00 | 17.25 | 12.00 | 42.00 |
| SIDEWALKS | 0.00 | 96.00 | 0.00 | 122.25 |
| STORES | 0.00 | 1.50 | 37.00 | 38.50 |
| VEHICLE & EQUIPMENT | 0.00 | 19.00 | 0.00 | 19.00 |
| WATER TREATMENT PLANT | 32.50 | 28.50 | 64.50 | 32.50 |
| WATER DISTRIBUTION | 84.75 | 118.00 | 93.00 | 120.25 |
| WATER TOWER (STP) | 0.00 | 0.00 | 0.00 | 2.25 |
| TOTAL | 153.75 | 559.00 | 360.50 | 722.50 |

Holder Sidewalk Plow – On-site operator training for new sidewalk plow held February 1-2, 2022.

Snowfall Events – significant snowfall events occurred on February 10, 18, 19 and 20 as well as multiple smaller snow fall events, leading to additional overtime necessary to meet minimum maintenance standards.

Snow Accumulation – Environment Canada data shows a total approximate accumulation of 24.1cm for February 2022

Snow Removal – Snow removal operations conducted in between snowfall events on priority routes, and Kiss 'n Ride areas and intersections to assist in maintaining site lines.

Water & Sewer Digs – Water dig Feb 16/17, 2022 @ 300 block Church Street
 Sewer dig Feb 18, 2022 @ 900 block Smith Avenue
 Sewer dig Feb 15, 2022 @ 1224 Second St E

Maintenance (pressing issues outside of daily maintenance):

- John Deere Grader: Down from February 22 to February 28 awaiting throttle position sensor components
- Holder Sidewalk Plow: various dates awaiting components from Holder

Cody Vangel
Superintendent of Transportation