

SYSTEM OVERVIEW

July 1st to September 30th , 2023

OPERATIONAL HIGHLIGHTS

Drinking Water System

- The water treatment system operated well during the third quarter.
- Well house flow meters inspection/verifications completed.
- Reservoir annual flow meter inspection/verification completed.
- Fall distribution system flushing completed.
- Storm damaged Pribusin radios sent to manufacturer for repair.

Wastewater Treatment

- The wastewater treatment system performed well during the third quarter.
- Lagoon treatment completed on September 20, 2023. North Cell treated with 1500 imperial gallons (IMPG) and Old Cell treated with 450 IMPG.
- Sewage lift station cleaned.

CAPITAL PLAN PROGRESS

Drinking Water System

- Repaired a hydrant and provided training on hydrants for the fire department.
- Electrical storm damaged communications equipment causing operational issues. Changed out damaged radios with spare Pribusin radios.

Wastewater Treatment

- N/A

ASSET MANAGEMENT

See Appendix A - Work Order summary for water treatment plant (WTP)

See Appendix B - Work Order summary for wastewater treatment lagoon (WWTL)

CALL-OUT SUMMARY

See Appendix C – Call-out Report for WTP
 See Appendix D – Call-out Report for WWTL

REGULATORY

- All drinking water samples required under O. Regulation 170/03 were collected and tested in the third quarter of 2023 and all results fell within regulatory limits.
- Incidents of Non-Compliance: Failure to monitor POE Chlorine residuals while the facility was producing water to the distribution system & Failure to alarm / lock out well pumps when analyzer failed. Operator Arrived at Well House July 17, 2023 at 12:30 to complete 72 Hr. compliance review via online data logger. Chlorine POE analyzer was off, and no residuals were being displayed on the data logger. The chlorine analyzer was plugged into a GFCI outlet that was tripped. The GFCI outlet was reset and The Analyzer was restored immediately. Trending shows the analyzer lost power on July 17, 2023 at 12:50 pm and was restored July 17, 2023 at 12:35 pm. No alarms were triggered and four pumping cycles occurred during the time the analyzer was without power. Resolution: Round sheet completed upon arrival indicating chlorine dosage calculated from Friday is consistent (slightly higher) than previous dosage calculations, online trending at the in-ground Reservoir is consistent with the previous trending, low chlorine alarm / lockout test is conducted monthly (last test was June 20, 2023), RAW, POE and Distribution bacti samples and residuals were collected today and residuals are consistent with normal operations (see attached chain of custody and weekly residual sampling sheets). An instrument technician will be contacted to help identify the failure of the analyzer to alarm out on power failure. MECP notified verbally and send non-compliance form via email.
- No Ministry of the Environment, Conservation and Parks (MECP) or Ministry of Labour (MOL) inspections conducted this quarter.
- Quarterly trihalomethanes (THM), haloacetic acids (HAA), Nitrate and Nitrite sampling completed July 11, 2023.
- All required sewage samples required under the system’s ECA collected and tested in the third quarter of 2023.
- An MECP inspection took place for the wastewater treatment system on September 29, 2023. Inspection report is pending at the time of this report.

INCIDENTS AND COMPLAINTS

Powassan Drinking Water System

Incident	N/A
Date	
Details	

Powassan Wastewater System

Incident	N/A
Date	
Details	

HEALTH AND SAFETY

- Staff training completed on FEP Binder.
- Staff training completed on SDS/MSDS.
- Staff training completed on Lone Worker Protection.
- Replaced emergency lighting at the well house and Clark St. Sewage Lift Station (SLS).

POWASSAN DRINKING WATER SYSTEM PERFORMANCE

See Appendix E – Performance Assessment Report Water

POWASSAN WASTEWATER TREATMENT LAGOON – WASTEWATER FLOW SUMMARY

See Appendix F – Performance Assessment Report Wastewater



Appendix A - Work Order Summary for WTP

Workorder Summary Report

 Report Start Date: Jul 1, 2023 12:00 AM
 Report End Date: Sep 30, 2023 11:59 PM
 Location: 6033*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3436853	0000235294	PANEL ALARM/ DIALER 01 POWASSAN GROUND WATER WELL	6033, Powassan WTP, Process, Lowlift, Well System	PM	Inspection	1	MONTHS	Critical Building Intrusion Alarm Testing (1m) 6033	COMP	7/1/23 12:00 AM	7/26/23 10:27 AM	7/26/23 10:27 AM	
3446364	0000296004	GENERATOR NATURAL GAS GENSET McRae Road Reservoir	6033, Powassan WTP, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	MONTHS	Reservoir Natural Gas Generator Inspection/Functional Test (1m) 6033	COMP	7/1/23 12:00 AM	7/26/23 10:32 AM	7/26/23 10:32 AM	Reservoir Natural Gas Generator Inspection/Functional Test (1m) 6033 -July 25, 2023 by Dan Finnigan. The oil level was checked and found to be "full", and the air filter was checked and was clean. The main power to the building was disconnected and the generator started without any issues. Power was transferred to the generator a moment later, and all building functionality was returned. After the test period the power to the building was re-instated, and after a cool- down period the generator shut down.

Workorder Summary Report

 Report Start Date: Jul 1, 2023 12:00 AM
 Report End Date: Sep 30, 2023 11:59 PM
 Location: 6033*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3453375	0000235294	PANEL ALARM/ DIALER 01 POWASSAN GROUND WATER WELL	6033, Powassan WTP, Process, Lowlift, Well System	PM	Inspection	1	MONTHS	Critical Alarm/Dialer Testing (1m) 6033	COMP	7/1/23 12:00 AM	7/26/23 10:24 AM	7/26/23 10:24 AM	Critical Alarm/Dialer Testing (1m) 6033 -Critical Alarm/Dialer Testing (1m) 6033 was completed by Dan Finnigan on July 25, 2023. The Cl2 probe was pulled out of the sample cells to perform a monthly inspection and cleaning and to force an alarm condition for the monthly testing of the low chlorine alarm, the alarm dialer and the well pump interlock lockout. True Steel called to advise they had received an alarm notification re the low chlorine alarm. The Cl2 probe was placed back into the flow thru sample cell after it was inspected, cleaned and the electrolyte topped up. A new membrane cap was installed. After the low chlorine alarm cleared, the well pump lockout was reset to resume normal operation of the well house. These actions verified proper operation of the low Cl2/instrument alarm, alarm dialer and well pump interlock.

Workorder Summary Report

 Report Start Date: Jul 1, 2023 12:00 AM
 Report End Date: Sep 30, 2023 11:59 PM
 Location: 6033*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3453909			6033, Powassan WTP	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 6033	COMP	7/1/23 12:00 AM	7/26/23 10:19 AM	7/26/23 10:19 AM	Health And Safety Inspection (1m) 6033 - The monthly H&S Inspection was conducted on June 25, 2023 and consisted of checking/verifying the following items: 1. Chemical Apron 2. Face Shield 3. Spill Kit(s) X 2: all items were available 4. Chemical secondary containment (intact) 5. Safety Signage (all intact and visible) 6. First aid kit 7. Hearing protection earmuffs 8. Emergency lighting (failed: a work order will be created) 9. Emergency Eyewash (tested and working)
3454011			6033, Powassan WTP, Process, Process Control & Monitoring	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 6033	COMP	7/1/23 12:00 AM	7/26/23 10:22 AM	7/26/23 10:22 AM	Analyzer Chlorine Inspection/ Service (1m) 6033 - July 25, 2023 by Dan Finnigan. During the monthly low chlorine critical alarm / lockout test the analyzer housing was flushed and inspected for damage and wear, and the electrolyte solution level was checked and topped up. The probe was re-inserted into the housing and a single point verification was conducted with the following results: Online analyzer: 2.23 mg/L Free Cl2 Handheld analyzer: 1.55 mg/L Free Cl2 The online analyzer required adjustment. The new slope after calibration was 2.87 mA/ppm (within spec).

Workorder Summary Report

 Report Start Date: Jul 1, 2023 12:00 AM
 Report End Date: Sep 30, 2023 11:59 PM
 Location: 6033*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3455494			6033, Powassan WTP	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 6033	COMP	7/1/23 12:00 AM	7/26/23 10:25 AM	7/26/23 10:25 AM	TPM Inspection/Maintenance (1m) 6033 -July 25, 2023. Reviewed trending to ensure both submersible well pump is operating within normal parameters. Started exhaust fan and observed motorized louvers operating properly. Verified chlorine pump on hand, as well as duty chlorine pump operating satisfactorily.
3455551	0000209142	GENERATOR DIESEL POWASSAN GROUND WATER WELL:	6033, Powassan WTP, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	MONTHS	Wellhouse Diesel Generator Inspection/Functional Test (1m) 6033	COMP	7/1/23 12:00 AM	7/26/23 10:30 AM	7/26/23 10:30 AM	Wellhouse Diesel Generator Inspection/Functional Test (1m) 6033 -July 25, 2023 by Dan Finnigan. All fluid levels were checked, belts inspected, battery charging system, etc. The generator was started and the electrical load was transferred to generator power successfully, and transferred back to shore power properly when the test was completed. While running, the system was observed for leaks or any other deficiencies. Electrical volts and amps were recorded, along with the following generator values: RPM's = 1791 Exhaust Temp = 590 Deg. F. Oil Level = Full Coolant Temp=179 Deg.F Battery Voltage= 13.6V Oil Pressure 58 psi Fuel level = approximately 7.5 inches Hrs at start: 6633 hr 15 min Hrs at stop: 6636 hr 58 min

Workorder Summary Report

 Report Start Date: Jul 1, 2023 12:00 AM
 Report End Date: Sep 30, 2023 11:59 PM
 Location: 6033*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3456765			6033, Powassan WTP	OPER	Compliance	1	MONTHS	WISKI Review (1m) 6033	CLOSE	7/1/23 12:00 AM	7/13/23 04:02 PM	7/13/23 04:02 PM	WISKI Review (1m) 6033 -WISKI Review (1m) for the month of June 2023 was completed on July 13, 2023 by Dan Finnigan. All values were checked and entered, lab data entries were reviewed, WISKI Graphs corrected, and this Work Order closed off.
3466232	0000258571	ANALYZER CHLORINE AIT-601 RESERVOIR	6033, Powassan WTP, Process, Storage, Elevated Reservoir	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 6033	COMP	7/1/23 12:00 AM	7/26/23 10:34 AM	7/26/23 10:34 AM	Analyzer Chlorine Inspection/ Service (1m) 6033 -Analyzer Chlorine Inspection/ Service (1m) at the Reservoir was performed by Dan Finnigan on July 25, 2023. Electrolyte levels were checked and filled, air was flushed from the analyzer housing, and readings checked against a pocket colorimeter. A single point calibration was conducted after placing the analyzer probe online. The online analyzer did not need calibration. Online = 1.26 mg/L Tested = 1.27 mg/L
3481511			Powassan Ground Water Well System	CORR	Refurbish/ Replace/Repair	0		hydrant repair Powassan Main and Memorial	CLOSE		7/12/23 01:54 PM	7/12/23 01:54 PM	hydrant repair powassan 6033 main and memorial - Repaired hydrant with fire department. over tightened and broke break away coupler. replaced breakaway coupler. TF July 10/23

Workorder Summary Report

 Report Start Date: Jul 1, 2023 12:00 AM
 Report End Date: Sep 30, 2023 11:59 PM
 Location: 6033*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3484991	0000235294	PANEL ALARM/ DIALER 01 POWASSAN GROUND WATER WELL	6033, Powassan WTP, Process, Lowlift, Well System	PM	Inspection	1	MONTHS	Critical Building Intrusion Alarm Testing (1m) 6033	COMP	8/1/23 12:00 AM	8/29/23 02:20 PM	8/29/23 02:20 PM	Critical Building Intrusion Alarm Testing (1m) 6033 -August 29, 2023. Dan Finnigan performed a test of the well supply building entrance door intrusion alarm by not disarming the alarm when entering the building. This caused an intrusion alarm, which True Steel Alarm Monitoring Service received and notified the on- call operator. This confirms that the building door intrusion alarm is working. DF
3493584	0000296004	GENERATOR NATURAL GAS GENSET McRae Road Reservoir	6033, Powassan WTP, Facility, Power Generation Reservoir	PM	Refurbish/ Replace/Repair	1	MONTHS	Reservoir Natural Gas Generator Inspection/Functional Test (1m) 6033	COMP	8/1/23 12:00 AM	8/29/23 02:35 PM	8/29/23 02:35 PM	Reservoir Natural Gas Generator Inspection/Functional Test (1m) 6033 -August 11, 2023 by Dan Finnigan. The oil level was checked and found to be "full", and the air filter was checked and was clean. The main power to the building was disconnected and the generator started without any issues. Power was transferred to the generator a moment later, and all building functionality was returned. After the test period the power to the building was re-instated, and after a cool- down period the generator shut down.

Workorder Summary Report

 Report Start Date: Jul 1, 2023 12:00 AM
 Report End Date: Sep 30, 2023 11:59 PM
 Location: 6033*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3499740	0000235294	PANEL ALARM/ DIALER 01 POWASSAN GROUND WATER WELL	6033, Powassan WTP, Process, Lowlift, Well System	PM	Inspection	1	MONTHS	Critical Alarm/Dialer Testing (1m) 6033	COMP	8/1/23 12:00 AM	8/29/23 02:22 PM	8/29/23 02:22 PM	Critical Alarm/Dialer Testing (1m) 6033 -Critical Alarm/Dialer Testing (1m) 6033 was completed by Dan Finnigan on August 29, 2023. The Cl2 probe was pulled out of the sample cells to perform a monthly inspection and cleaning and to force an alarm condition for the monthly testing of the low chlorine alarm, the alarm dialer and the well pump interlock lockout. True Steel called to advise they had received an alarm notification re the low chlorine alarm. The Cl2 probe was placed back into the flow thru sample cell after it was inspected, cleaned and the electrolyte topped up. After the low chlorine alarm cleared, the well pump lockout was reset to resume normal operation of the well house. These actions verified proper operation of the low Cl2/instrument alarm, alarm dialer and well pump interlock.

Workorder Summary Report

 Report Start Date: Jul 1, 2023 12:00 AM
 Report End Date: Sep 30, 2023 11:59 PM
 Location: 6033*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3500032			6033, Powassan WTP	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 6033	COMP	8/1/23 12:00 AM	8/29/23 02:24 PM	8/29/23 02:24 PM	Health And Safety Inspection (1m) 6033 - The monthly H&S Inspection was conducted on August 29, 2023 and consisted of checking/verifying the following items: 1. Chemical Apron 2. Face Shield 3. Spill Kit(s) X 2: all items were available 4. Chemical secondary containment (intact) 5. Safety Signage (all intact and visible) 6. First aid kit 7. Hearing protection earmuffs 8. Emergency lighting (failed: a new unit was ordered) 9. Emergency Eyewash (tested and working)
3500157			6033, Powassan WTP, Process, Process Control & Monitoring	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 6033	COMP	8/1/23 12:00 AM	8/29/23 02:30 PM	8/29/23 02:30 PM	Analyzer Chlorine Inspection/ Service (1m) 6033 -August 29, 2023 by Dan Finnigan. During the monthly low chlorine critical alarm / lockout test the analyzer housing was flushed and inspected for damage and wear, and the electrolyte solution level was checked and topped up. The probe was re-inserted into the housing and a single point verification was conducted with the following results: Online analyzer: 1.65 mg/L Free Cl2 Handheld analyzer: 1.30 mg/L Free Cl2 The online analyzer required adjustment. The new slope after calibration was 2.55 mA/ppm (within spec).

Workorder Summary Report

 Report Start Date: Jul 1, 2023 12:00 AM
 Report End Date: Sep 30, 2023 11:59 PM
 Location: 6033*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3501414			6033, Powassan WTP	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 6033	COMP	8/1/23 12:00 AM	8/29/23 02:31 PM	8/29/23 02:31 PM	TPM Inspection/Maintenance (1m) 6033 -August 29, 2023. Reviewed trending to ensure both submersible well pump is operating within normal parameters. Started exhaust fan and observed motorized louvers operating properly. Verified chlorine pump on hand, as well as duty chlorine pump operating satisfactorily.
3501419	0000209142	GENERATOR DIESEL POWASSAN GROUND WATER WELL:	6033, Powassan WTP, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	MONTHS	Wellhouse Diesel Generator Inspection/Functional Test (1m) 6033	COMP	8/1/23 12:00 AM	8/29/23 02:34 PM	8/29/23 02:34 PM	Wellhouse Diesel Generator Inspection/Functional Test (1m) 6033 - August 29, 2023 by Dan Finnigan. All fluid levels were checked, belts inspected, battery charging system, etc. The generator was started and the electrical load was transferred to generator power successfully, and transferred back to shore power properly when the test was completed. While running, the system was observed for leaks or any other deficiencies. Electrical volts and amps were recorded, along with the following generator values: RPM's = 1788 Exhaust Temp = 600 Deg. F. Oil Level = Full Coolant Temp=165 Deg.F Battery Voltage= 13.7V Oil Pressure 63 psi Fuel level = approximately 7.5 inches Hrs at start: 6816 hr 31 min Hrs at stop: 6819 hr 22 min

Workorder Summary Report

 Report Start Date: Jul 1, 2023 12:00 AM
 Report End Date: Sep 30, 2023 11:59 PM
 Location: 6033*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3502437			6033, Powassan WTP	OPER	Compliance	1	MONTHS	WISKI Review (1m) 6033	COMP	8/1/23 12:00 AM	8/31/23 08:13 PM	8/31/23 08:13 PM	WISKI Review (1m) 6033 -WISKI Review (1m) for the month of July 2023 was completed on August 31, 2023 by Dan Finnigan. All values were checked and entered, lab data entries were reviewed, WISKI Graphs corrected, and this Work Order closed off.
3510909	0000258571	ANALYZER CHLORINE AIT-601 RESERVOIR	6033, Powassan WTP, Process, Storage, Elevated Reservoir	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 6033	COMP	8/1/23 12:00 AM	8/29/23 02:38 PM	8/29/23 02:38 PM	Analyzer Chlorine Inspection/ Service (1m) 6033 - Analyzer Chlorine Inspection/ Service (1m) at the Reservoir was performed by Dan Finnigan on August 11, 2023. Electrolyte levels were checked and filled, air was flushed from the analyzer housing, and readings checked against a pocket colorimeter. A single point calibration was conducted after placing the analyzer probe online. The new slope after calibration was 2.60 mA/ppm (within spec). Online = 1.56 mg/L Tested = 1.45 mg/L The new slope after calibration was 2.60 mA/ppm (within spec).

Workorder Summary Report

 Report Start Date: Jul 1, 2023 12:00 AM
 Report End Date: Sep 30, 2023 11:59 PM
 Location: 6033*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

WO #	Asset ID	Asset Description	Location Description	WorkOrder		PM Schedule		Workorder Details					
				Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3524777			6033, Powassan WTP, Process, Storage, Elevated Reservoir	CAP	Refurbish/ Replace/Repair	0		Powassan Reservoir: Storm Damage to Communications Equipment	COMP		8/18/23 10:07 AM	8/18/23 10:07 AM	Troubleshooting Storm Damage to Communication Equipment - Storm on August 10 with lightning caused damage to equipment. Troubleshooting is required to return the system to normal operations. Repair Communication System - Changed out 2 radios with good spares (at wellhouse and reservoir). Made changes to level spanning. Powassan Reservoir: Storm Damage to Communications Equipment - Changed radio at reservoir, made changes to scaling issues in the well house PLC.
3526085	0000258541	METER FLOW FIT104 POWASSAN GROUND WATER WELL 2	6033, Powassan WTP, Process, Lowlift, Well System	PM	Calibration	1	YEARS	Meter Flow FIT-104 Powassan Ground Calibration (1y) 6033	COMP	8/21/23 12:00 AM	9/26/23 09:03 AM	9/26/23 09:03 AM	Flowmeter Verification - Completed August 17, 2023
3526092	0000258542	METER FLOW FIT103 WELL 1 POWASSAN GROUND WATER WELL	6033, Powassan WTP, Process, Lowlift, Well System	PM	Calibration	1	YEARS	Meter Flow FIT-103 Well 1 Powassan Grd Calibration (1y) 6033	COMP	8/21/23 12:00 AM	9/26/23 09:05 AM	9/26/23 09:05 AM	Flowmeter Verification - Completed August 17, 2023
3526098	0000258570	METER FLOW RESERVOIR	6033, Powassan WTP, Process, Storage, Elevated Reservoir	PM	Calibration	1	YEARS	Meter Flow Reservoir Calibration (1y) 6033	COMP	8/21/23 12:00 AM	9/26/23 09:06 AM	9/26/23 09:06 AM	Flowmeter Verification - Completed August 17, 2023
3528497	0000235294	PANEL ALARM/DIALER 01 POWASSAN GROUND WATER WELL	6033, Powassan WTP, Process, Lowlift, Well System	PM	Inspection	1	MONTHS	Critical Building Intrusion Alarm Testing (1m) 6033	COMP	9/1/23 12:00 AM	9/26/23 09:25 AM	9/26/23 09:25 AM	Critical Building Intrusion Alarm Testing (1m) 6033 -September 21, 2023. Dan Finnigan performed a test of the well supply building entrance door intrusion alarm by not disarming the alarm when entering the building. This caused an intrusion alarm, which True Steel Alarm Monitoring Service received and notified the on-call operator. This confirms that the building door intrusion alarm is working. DF

Workorder Summary Report

 Report Start Date: Jul 1, 2023 12:00 AM
 Report End Date: Sep 30, 2023 11:59 PM
 Location: 6033*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3538066	0000296004	GENERATOR NATURAL GAS GENSET McRae Road Reservoir	6033, Powassan WTP, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	MONTHS	Reservoir Natural Gas Generator Inspection/Functional Test (1m) 6033	COMP	9/1/23 12:00 AM	9/26/23 09:32 AM	9/26/23 09:32 AM	Reservoir Natural Gas Generator Inspection/Functional Test (1m) 6033 -September 21, 2023 by Dan Finnigan. The oil level was checked and found to be "full", and the air filter was checked and was clean. The main power to the building was disconnected and the generator started without any issues. Power was transferred to the generator a moment later, and all building functionality was returned. After the test period the power to the building was re-instated, and after a cool-down period the generator shut down.
3544569	0000235294	PANEL ALARM/ DIALER 01 POWASSAN GROUND WATER WELL	6033, Powassan WTP, Process, Lowlift, Well System	PM	Inspection	1	MONTHS	Critical Alarm/Dialer Testing (1m) 6033	COMP	9/1/23 12:00 AM	10/12/23 09:44 AM	10/12/23 09:44 AM	Critical Alarm/Dialer Testing (1m) 6033 -Critical Alarm/Dialer Testing (1m) 6033 was completed by Dan Finnigan on September 28, 2023. The Cl2 probe was pulled out of the sample cells to perform a monthly inspection and cleaning and to force an alarm condition for the monthly testing of the low chlorine alarm, the alarm dialer and the well pump interlock lockout. True Steel called to advise they had received an alarm notification re the low chlorine alarm. The Cl2 probe was placed back into the flow thru sample cell after it was inspected, cleaned and the electrolyte topped up. After the low chlorine alarm cleared, the well pump lockout was reset to resume normal operation of the well house. These actions verified proper operation of the low Cl2/instrument alarm, alarm dialer and well pump interlock.

Workorder Summary Report

 Report Start Date: Jul 1, 2023 12:00 AM
 Report End Date: Sep 30, 2023 11:59 PM
 Location: 6033*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3544846			6033, Powassan WTP	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 6033	COMP	9/1/23 12:00 AM	9/26/23 09:23 AM	9/26/23 09:23 AM	Health And Safety Inspection (1m) 6033 -The monthly H&S Inspection was conducted on September 21, 2023 and consisted of checking/verifying the following items: 1. Chemical Apron 2. Face Shield 3. Spill Kit(s) X 2: all items were available 4. Chemical secondary containment (intact) 5. Safety Signage (all intact and visible) 6. First aid kit 7. Hearing protection earmuffs 8. Emergency lighting (a new unit was picked up and installed: tested and working) 9. Emergency Eyewash (tested and working)
3544948			6033, Powassan WTP, Process, Process Control & Monitoring	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 6033	COMP	9/1/23 12:00 AM	10/12/23 09:47 AM	10/12/23 09:47 AM	Analyzer Chlorine Inspection/ Service (1m) 6033 - Sept 28, 2023 by Dan Finnigan. During the monthly low chlorine critical alarm / lockout test the analyzer housing was flushed and inspected for damage and wear, and the electrolyte solution level was checked and topped up. The probe was re-inserted into the housing and a single point verification was conducted with the following results: Online analyzer: 1.71 mg/L Free Cl2 Handheld analyzer: 1.70 mg/L Free Cl2 The online analyzer was within 0.01 mg/L Free Cl2 and therefore did not required adjustment.

Workorder Summary Report

 Report Start Date: Jul 1, 2023 12:00 AM
 Report End Date: Sep 30, 2023 11:59 PM
 Location: 6033*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3546225			6033, Powassan WTP	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 6033	COMP	9/1/23 12:00 AM	9/26/23 09:24 AM	9/26/23 09:24 AM	TPM Inspection/Maintenance (1m) 6033 -September 21, 2023. Reviewed trending to ensure both submersible well pump is operating within normal parameters. Started exhaust fan and observed motorized louvers operating properly. Verified chlorine pump on hand, as well as duty chlorine pump operating satisfactorily.
3546230	0000209142	GENERATOR DIESEL POWASSAN GROUND WATER WELL:	6033, Powassan WTP, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	MONTHS	Wellhouse Diesel Generator Inspection/Functional Test (1m) 6033	COMP	9/1/23 12:00 AM	10/12/23 10:07 AM	10/12/23 10:07 AM	Wellhouse Diesel Generator Inspection/Functional Test (1m) 6033 - The generator was automatically started and power was transferred successfully during a Hydro One planned maintenance power outage on Sunday September 24, 2023. The generator ran for approximately 7.50 hrs during the planned outage and successfully transferred power back to normal hydro and shut down properly once Hydro One restored the power supply.
3547487			6033, Powassan WTP	OPER	Compliance	1	MONTHS	WISKI Review (1m) 6033	COMP	9/1/23 12:00 AM	9/13/23 10:11 AM	9/13/23 10:11 AM	WISKI Review (1m) 6033 -Entered 90% of WISKI data for September 2023 WISKI Review (1m) 6033 - September 13, 2023 Finished entering missing data, corrected graphs and confrimed lab results have been entered correctly into WISKI

Workorder Summary Report

 Report Start Date: Jul 1, 2023 12:00 AM
 Report End Date: Sep 30, 2023 11:59 PM
 Location: 6033*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3557287	0000258571	ANALYZER CHLORINE AIT-601 RESERVOIR	6033, Powassan WTP, Process, Storage, Elevated Reservoir	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 6033	COMP	9/1/23 12:00 AM	9/26/23 09:28 AM	9/26/23 09:28 AM	Analyzer Chlorine Inspection/ Service (1m) 6033 - Analyzer Chlorine Inspection/ Service (1m) at the Reservoir was performed by Dan Finnigan on September 21, 2023. Electrolyte levels were checked and filled, air was flushed from the analyzer housing, and readings checked against a pocket colorimeter. A single point calibration was conducted after placing the analyzer probe online. Online = 1.31 mg/L Tested = 1.08 mg/L The new slope after calibration was 2.28 mA/ppm (within spec).



Appendix B - Work Order Summary for WWTL

Workorder Summary Report

 Report Start Date: Jul 1, 2023 12:00 AM
 Report End Date: Sep 30, 2023 11:59 PM
 Location: 5747*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3446348	0000296003	GENERATOR NATURAL GAS GENSET Clark Street	5747, Clark SPS, Facility	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test (1m) 5747	COMP	7/1/23 12:00 AM	8/31/23 10:13 AM	8/31/23 10:13 AM	Diesel Generator Inspection/ Functional Test (1m) 5747 - July 17, 2023. Dan Finnigan performed the monthly Generator/ Functional test.. All fluid levels were checked, belts inspected, battery charging system, etc. The generator transfer button was pressed and the start command to the generator was initiated. While running, the system was observed for leaks or any other deficiencies.
3453118	0000126968	LAGOON CELL 01 SOUTH POWASSAN	5747, Powassan WWTL, Process	PM	Inspection	1	MONTHS	Lagoon Cell 01South Powassan Insp/Service (1m/6m/1y) 5747	CLOSE	7/1/23 12:00 AM	7/18/23 11:16 AM	7/18/23 11:16 AM	Lagoon Cell 01South Powassan Insp/ Service (1m/6m/1y) 5747 -Dan Finnigan inspected the associated lagoon during the monthly RAW sewage sample collection on July 17, 2023. The lagoon berm was inspected and found to be in good condition, the level was checked and found to be below the overflow level, and there were no other unusual observations.
3453128	0000126967	LAGOON CELL 02 NORTH POWASSAN	5747, Powassan WWTL, Process	PM	Inspection	1	MONTHS	Lagoon Cell 02 North Powassan Insp/Service (1m/6m/1y) 5747	CLOSE	7/1/23 12:00 AM	7/18/23 11:17 AM	7/18/23 11:17 AM	Lagoon Cell 02 North Powassan Insp/Service (1m/6m/1y) 5747 -Dan Finnigan inspected the associated lagoon during the monthly RAW sewage sample collection on July 17, 2023. The lagoon berm was inspected and found to be in good condition, the level was checked and found to be below the overflow level, and there were no other unusual observations.

Workorder Summary Report

 Report Start Date: Jul 1, 2023 12:00 AM
 Report End Date: Sep 30, 2023 11:59 PM
 Location: 5747*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3453162	0000126969	LAGOON CELL 03 POWASSAN	5747, Powassan WWTL, Process	PM	Inspection	1	MONTHS	Lagoon Cell 03 Powassan Inspection/Service (1m/6m/1y) 5747	CLOSE	7/1/23 12:00 AM	7/18/23 11:17 AM	7/18/23 11:17 AM	Lagoon Cell 03 Powassan Inspection/Service (1m/6m/1y) 5747 -Dan Finnigan inspected the associated lagoon during the monthly RAW sewage sample collection on July 17, 2023. The lagoon berm was inspected and found to be in good condition, the level was checked and found to be below the overflow level, and there were no other unusual observations.
3453274			5747, Powassan WWTL	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 5747	COMP	7/1/23 12:00 AM	8/31/23 10:11 AM	8/31/23 10:11 AM	Health And Safety Inspection (1m) 5747 -Dan Finnigan conducted the monthly H&S Inspection on July 17, 2023 which consisted of checking/ verifying the following items: 1. Spill Kit: all items were available 2. Safety Signage (all intact and visible) 3. First aid kit 4. Hearing protection earmuffs 5. Emergency lighting (removed for repair / replacement) 6. Emergency Eyewash (bottles are within use before date) 7. Fire Extinguisher 8. CO Monitor

Workorder Summary Report

 Report Start Date: Jul 1, 2023 12:00 AM
 Report End Date: Sep 30, 2023 11:59 PM
 Location: 5747*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3453313			5747, Powassan WWTL	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 5747	COMP	7/1/23 12:00 AM	8/31/23 10:12 AM	8/31/23 10:12 AM	TPM Inspection/Maintenance (1m) 5747 - Completed by Dan Finnigan on July 17, 2023. The operation of all sewage station lift pumps were visually and audibly observed at both St. Gregory's Lift Station and the Clark Street Lift station. Pump #1 at St. Gregory SLS seemed a little noisy but pump output was normal. The control panels were also checked for functionality with nothing unusual noted. Ventilation screens at the Clark Station were in good condition, and there was nothing else to report.
3453318			5747, Powassan WWTL	PM	Inspection	1	MONTHS	Critical Alarm/Dialer Testing (1m) 5747	COMP	7/1/23 12:00 AM	8/31/23 10:16 AM	8/31/23 10:16 AM	Critical Alarm/Dialer Testing (1m) 5747 -Conducted by Dan Finnigan on July 17, 2023. Both sewage pumps were turned off in "hand" and the wet well level was allowed to rise until the High Level alarm setpoint was reached (via WIN911 and True Steel). Both True Steel and the WIN911 Autodialer were triggered and messaged the operator and both pumps were turned back on to pump down the level. Both sewage pumps shut off in Auto when the level returned to normal settings in less than 10 minutes of pumping.
3456772			5747, Powassan WWTL	OPER	Compliance	1	MONTHS	WISKI Review (1m) 5747	CLOSE	7/1/23 12:00 AM	7/20/23 02:54 PM	7/20/23 02:54 PM	WISKI Review (1m) 5747 -July 13, 2023: entered WISKI flow data and checked lab entries, etc. WISKI Review (1m) 5747 -July 20, 2023--Completed Spring Release report and entered data into WISKI

Workorder Summary Report

 Report Start Date: Jul 1, 2023 12:00 AM
 Report End Date: Sep 30, 2023 11:59 PM
 Location: 5747*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3479933			5747, Clark SPS	CAP	Predictive Maintenance	0		Powassan Clark Street Lift Station HydroVac Cleaning	COMP		9/29/23 11:22 AM	9/29/23 11:22 AM	Powassan Clark Street Lift Station HydroVac Cleaning -July 06, 2023: Created new W/O in order to schedule Muskoka Hydro Vac for Clark Street Station cleaning Powassan Clark Street Lift Station HydroVac Cleaning - Completed Sep 27, 2023
3493568	0000296003	GENERATOR NATURAL GAS GENSET Clark Street	5747, Clark SPS, Facility	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test (1m) 5747	COMP	8/1/23 12:00 AM	8/9/23 09:51 AM	8/9/23 09:51 AM	Diesel Generator Inspection/ Functional Test (1m) 5747 - August 04, 2023. Dan Finnigan performed the monthly Generator/ Functional test.. All fluid levels were checked, belts inspected, battery charging system, etc. The generator transfer button was pressed and the start command to the generator was initiated. While running, the system was observed for leaks or any other deficiencies. The following generator values were recorded while running: RPM's= 1820 Oil Level = Full Coolant Temp=175 Deg.F Battery Voltage= 11.9 V Oil Pressure 58 psi Hrs at start: 506.6
3499559	0000126968	LAGOON CELL 01 SOUTH POWASSAN	5747, Powassan WWTL, Process	PM	Inspection	1	MONTHS	Lagoon Cell 01South Powassan Insp/Service (1m/6m/1y) 5747	COMP	8/1/23 12:00 AM	8/9/23 09:52 AM	8/9/23 09:52 AM	Lagoon Cell 01South Powassan Insp/Service (1m/6m/1y) 5747 -Dan Finnigan inspected the associated lagoon during the monthly RAW sewage sample collection on August 02, 2023. The lagoon berm was inspected and found to be in good condition, the level was checked and found to be below the overflow level, and there were no other unusual observations.

Workorder Summary Report

 Report Start Date: Jul 1, 2023 12:00 AM
 Report End Date: Sep 30, 2023 11:59 PM
 Location: 5747*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3499569	0000126967	LAGOON CELL 02 NORTH POWASSAN	5747, Powassan WWTL, Process	PM	Inspection	1	MONTHS	Lagoon Cell 02 North Powassan Insp/Service (1m/6m/1y) 5747	COMP	8/1/23 12:00 AM	8/9/23 09:53 AM	8/9/23 09:53 AM	Lagoon Cell 02 North Powassan Insp/Service (1m/6m/1y) 5747 -Dan Finnigan inspected the associated lagoon during the monthly RAW sewage sample collection on August 02, 2023. The lagoon berm was inspected and found to be in good condition, the level was checked and found to be below the overflow level, and there were no other unusual observations.
3499613	0000126969	LAGOON CELL 03 POWASSAN	5747, Powassan WWTL, Process	PM	Inspection	1	MONTHS	Lagoon Cell 03 Powassan Inspection/Service (1m/6m/1y) 5747	COMP	8/1/23 12:00 AM	8/9/23 09:54 AM	8/9/23 09:54 AM	Lagoon Cell 03 Powassan Inspection/Service (1m/6m/1y) 5747 -Dan Finnigan inspected the associated lagoon during the monthly RAW sewage sample collection on August 02, 2023. The lagoon berm was inspected and found to be in good condition, the level was checked and found to be below the overflow level, and there were no other unusual observations.
3499675			5747, Powassan WWTL	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 5747	COMP	8/1/23 12:00 AM	8/9/23 09:56 AM	8/9/23 09:56 AM	Health And Safety Inspection (1m) 5747 -Dan Finnigan conducted the monthly H&S Inspection on August 04, 2023, which consisted of checking/verifying the following items: 1. Spill Kit: all items were available 2. Safety Signage (all intact and visible) 3. First aid kit 4. Hearing protection earmuffs 5. Emergency lighting (removed for repair / replacement) 6. Emergency Eyewash (bottles are within use before date) 7. Fire Extinguisher 8. CO Monitor

Workorder Summary Report

 Report Start Date: Jul 1, 2023 12:00 AM
 Report End Date: Sep 30, 2023 11:59 PM
 Location: 5747*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3499686			5747, Powassan WWTL	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 5747	COMP	8/1/23 12:00 AM	8/9/23 09:57 AM	8/9/23 09:57 AM	TPM Inspection/Maintenance (1m) 5747 - Completed by Dan Finnigan on August 04, 2023. The operation of all sewage station lift pumps were visually and audibly observed at both St. Gregory's Lift Station and the Clark Street Lift station. Pump #1 at St. Gregory SLS seemed a little noisy but pump output was normal. The control panels were also checked for functionality with nothing unusual noted. Ventilation screens at the Clark Station were in good condition, and there was nothing else to report.
3499691			5747, Powassan WWTL	PM	Inspection	1	MONTHS	Critical Alarm/Dialer Testing (1m) 5747	COMP	8/1/23 12:00 AM	8/9/23 10:00 AM	8/9/23 10:00 AM	Critical Alarm/Dialer Testing (1m) 5747 - Conducted by Dan Finnigan on August 04, 2023. Both sewage pumps were turned off in "hand" and the wet well level was allowed to rise until the High Level alarm setpoint was reached (via WIN911 and True Steel). Both True Steel and the WIN911 Autodialer was triggered and messaged the operator and both pumps were turned back on to pump down the level. Both sewage pumps were shut off in Auto when the level returned to normal settings in less than 10 minutes of pumping.
3502442			5747, Powassan WWTL	OPER	Compliance	1	MONTHS	WISKI Review (1m) 5747	COMP	8/1/23 12:00 AM	9/13/23 03:07 PM	9/13/23 03:07 PM	WISKI Review (1m) 5747 -WISKI Review (1m) for the month of July 2023 was completed on September 13, 2023 by Dan Finnigan. All values were checked and entered, lab data entries were reviewed, and this Work Order closed off.

Workorder Summary Report

 Report Start Date: Jul 1, 2023 12:00 AM
 Report End Date: Sep 30, 2023 11:59 PM
 Location: 5747*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3538050	0000296003	GENERATOR NATURAL GAS GENSET Clark Street	5747, Clark SPS, Facility	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test (1m) 5747	COMP	9/1/23 12:00 AM	10/26/23 09:46 AM	10/26/23 09:46 AM	Diesel Generator Inspection/ Functional Test (1m) 5747 - Generator was test run and serviced by Val's Equipment on September 11, 2023 All fluid levels were checked, belts inspected, battery charging system, etc. The generator transfer button was pressed and the start command to the generator was initiated. While running, the system was observed for leaks or any other deficiencies. The following generator values were recorded while running: RPM's= 1800 Oil Level = Full Coolant Temp=160 Deg.F Battery Voltage= 12 V Oil Pressure 55 psi Hrs at start: 507.8 Hrs at end: 508.4
3544437	0000126968	LAGOON CELL 01 SOUTH POWASSAN	5747, Powassan WWTL, Process	PM	Inspection	1	MONTHS	Lagoon Cell 01South Powassan Insp/Service (1m/6m/1y) 5747	COMP	9/1/23 12:00 AM	9/13/23 08:52 AM	9/13/23 08:52 AM	Lagoon Cell 01South Powassan Insp/ Service (1m/6m/1y) 5747 -Dan Finnigan inspected the associated lagoon during the monthly RAW sewage sample collection on September 06, 2023. The lagoon berm was inspected and found to be in good condition, the level was checked and found to be below the overflow level, and there were no other unusual observations.

Workorder Summary Report

 Report Start Date: Jul 1, 2023 12:00 AM
 Report End Date: Sep 30, 2023 11:59 PM
 Location: 5747*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3544470	0000126967	LAGOON CELL 02 NORTH POWASSAN	5747, Powassan WWTL, Process	PM	Inspection	1	MONTHS	Lagoon Cell 02 North Powassan Insp/Service (1m/6m/1y) 5747	COMP	9/1/23 12:00 AM	9/13/23 08:53 AM	9/13/23 08:53 AM	Lagoon Cell 02 North Powassan Insp/Service (1m/6m/1y) 5747 -Dan Finnigan inspected the associated lagoon during the monthly RAW sewage sample collection on September 06, 2023. The lagoon berm was inspected and found to be in good condition, the level was checked and found to be below the overflow level, and there were no other unusual observations.
3544489	0000126969	LAGOON CELL 03 POWASSAN	5747, Powassan WWTL, Process	PM	Inspection	1	MONTHS	Lagoon Cell 03 Powassan Inspection/Service (1m/6m/1y) 5747	COMP	9/1/23 12:00 AM	9/13/23 08:54 AM	9/13/23 08:54 AM	Lagoon Cell 02 North Powassan Insp/Service (1m/6m/1y) 5747 -Dan Finnigan inspected the associated lagoon during the monthly RAW sewage sample collection on September 06, 2023. The lagoon berm was inspected and found to be in good condition, the level was checked and found to be below the overflow level, and there were no other unusual observations.
3544504			5747, Powassan WWTL	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 5747	COMP	9/1/23 12:00 AM	10/26/23 09:48 AM	10/26/23 09:48 AM	Health And Safety Inspection (1m) 5747 - Dan Finnigan conducted the monthly H&S Inspection on September 29, 2023 which consisted of checking/verifying the following items: 1. Spill Kit: all items were available 2. Safety Signage (all intact and visible) 3. First aid kit 4. Hearing protection earmuffs 5. Emergency lighting (a new unit was picked up and installed: tested and working) 6. Emergency Eyewash (bottles are within use before date) 7. Fire Extinguisher 8. CO Monitor

Workorder Summary Report

 Report Start Date: Jul 1, 2023 12:00 AM
 Report End Date: Sep 30, 2023 11:59 PM
 Location: 5747*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3544515			5747, Powassan WWTL	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 5747	COMP	9/1/23 12:00 AM	10/26/23 09:51 AM	10/26/23 09:51 AM	TPM Inspection/Maintenance (1m) 5747 -Completed by Dan Finnigan on September 29, 2023. The operation of all sewage station lift pumps were visually and audibly observed at both St. Gregory's Lift Station and the Clark Street Lift station. Pump #1 at St. Gregory SLS seemed a little noisy but pump output was normal. The control panels were also checked for functionality with nothing unusual noted. Ventilation screens at the Clark Station were in good condition, and there was nothing else to report. Completed by Dan Finnigan on September 29, 2023. The operation of all sewage station lift pumps were visually and audibly observed at both St. Gregory's Lift Station and the Clark Street Lift station. Pump #1 at St. Gregory SLS seemed a little noisy but pump output was normal. The control panels were also checked for functionality with nothing unusual noted. Ventilation screens at the Clark Station were in good condition, and there was nothing else to report.

Workorder Summary Report

 Report Start Date: Jul 1, 2023 12:00 AM
 Report End Date: Sep 30, 2023 11:59 PM
 Location: 5747*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3544520			5747, Powassan WWTL	PM	Inspection	1	MONTHS	Critical Alarm/Dialer Testing (1m) 5747	COMP	9/1/23 12:00 AM	10/26/23 09:56 AM	10/26/23 09:56 AM	Critical Alarm/Dialer Testing (1m) 5747 -The critical alarm was tested during a True Event on September 24 at 10:05 AM. During an area wide power outage the backup generator failed to start after multiple attempts. The wet well level rose to the WIN911 and Telus Alarm monitoring levels and notified the on-call operator. The operator arrived to find the level several feet below the overflow level. He started the backup generator and the pumps began to pump down the wet well level until all alarms were restored.
3547492			5747, Powassan WWTL	OPER	Compliance	1	MONTHS	WISKI Review (1m) 5747	COMP	9/1/23 12:00 AM	9/13/23 03:08 PM	9/13/23 03:08 PM	WISKI Review (1m) 5747 -WISKI Review (1m) for the month of August 2023 was completed on September 13, 2023 by Dan Finnigan. All values were checked and entered, lab data entries were reviewed, and this Work Order closed off.
3573445			Powassan Wastewater Treatment Lagoon	OPER	Predictive Maintenance	0		Powassan Fall 2023 Lagoon Treatment	COMP		9/25/23 08:41 AM	9/25/23 08:41 AM	Order Details - KEMIRA PIX-312 BULK 1,815.30 Dry Kg 5.7900 CAD/DKG CAD 10,510.59 CN code: 2833290000 Net weight: 14,675.000 KG Gross weight: 14,675.000 KG 12.37 % Fe Delivery no / Date:85990643 / 09/19/2023 UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Ferric sulfate), 8, PGIII, RQ Country of Origin: CA 16,200.000 KG



Appendix C - Call-out Report for WTP

Workorder Summary Report

 Report Start Date: Jul 1, 2023 12:00 AM
 Report End Date: Sep 30, 2023 11:59 PM
 Location: 6033*
 Work Order Type: CALL,EMER
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3525274			6033, Powassan WTP, Process, Storage	CALL	Inspection	0		6033 Powassan Well House Auxiliary 1 High Reservoir Level Alarm	COMP		8/13/23 12:00 AM	8/13/23 01:15 AM	Powassan Well House Auxiliary 1 High Reservoir Level Alarm - Received Auxiliary 1 High Reservoir Level Alarm. Reviewed HMI with Reservoir Level @ 4.39 metres following Well Pump 2 operating sequence. Adjusted HMI High Reservoir Level Alarm Setpoint to 4.4 metres and High Reservoir Level Alarm Setpoint to 4.45 metres. Adjusted HMI High Reservoir Level Alarm Setpoint to 4.45 metres and High Reservoir Level Alarm Setpoint to 4.5 metres.
3525279			6033, Powassan WTP, Process, Storage	CALL	Inspection	0		6033 Powassan Well House Auxiliary 1 High Reservoir Level Alarm	COMP		8/13/23 07:30 PM	8/13/23 09:30 PM	Powassan Well House Auxiliary 1 High Reservoir Level Alarm - Received Auxiliary 1 High Reservoir Level Alarm. Reviewed HMI with Reservoir Level @ 4.48 metres following Well Pump 2 operating sequence. Adjusted HMI High Reservoir Level Alarm Setpoint to 4.5 metres and High Reservoir Level Alarm Setpoint to 4.55 metres. Reservoir Level Transducer reading displayed @ 4.48 metres corresponding to Well House RF transmission value.

Workorder Summary Report

 Report Start Date: Jul 1, 2023 12:00 AM
 Report End Date: Sep 30, 2023 11:59 PM
 Location: 6033*
 Work Order Type: CALL,EMER
 Work Order Class:

WO #	Asset ID	Asset Description	Location Description	WorkOrder		PM Schedule		Workorder Details				WorkLog Detail	
				Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start		Actual Finsh
3572846			6033, Powassan WTP, Process, Storage	CALL	Refurbish/ Replace/Repair	0		6033 Powassan Well House Auxiliary 1 Low Reservoir Level Alarm	COMP		9/6/23 05:00 PM	9/6/23 08:15 PM	Powassan Well House Auxiliary 1 Low Reservoir Level Alarm - Received Auxiliary 1 Reservoir Level Alarm. Reviewed HMI with no Reservoir communication. Cycled power to Well House Pribusin Radio Control Signal Interface. Cycled power to Reservoir Pribusin Radio Control Signal Interface. Reservoir Level @ 4.33 metres. Installation replacement RCSI at Reservoir. Level 1 Transducer selected. Well House now communicating with Reservoir. Reset HMI Low Reservoir Level Alarm with Automatic activation Well Pump.
3574559			6033, Powassan WTP, Process, Process Control & Monitoring	EMER	Refurbish/ Replace/Repair	0		Powassan Pribusin Radio Repair	COMP		9/26/23 03:44 PM	9/26/23 03:44 PM	Powassan Pribusin Radio Repair - PO to repair storm damaged radios: 1 Host needs a Communication Chip 1 Remote needs an Analog Board – lightening 2 units need an updated Processor from Version ‘K’ to ‘M’ – so that all units are running on the same Version.



Appendix D - Call-out Report for WWTL

Workorder Summary Report

 Report Start Date: Jul 1, 2023 12:00 AM
 Report End Date: Sep 30, 2023 11:59 PM
 Location: 5747*
 Work Order Type: CALL,EMER
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3575086			5747, Clark SPS	CALL	Inspection	0		5747 Powassan Clark Street SPS High Level Alarm	COMP		9/24/23 09:00 AM	9/24/23 10:45 AM	Powassan Clark Street SPS High Level Alarm - Received Power Failure Alarm following utility area outage. Station Inspection with Generator Fail to Start on power failure. Inspection of Wetwell with level approximately 6 feet below overflow. Following repeat attempts resetting Generator after failed Automatic starts successful activation with Station Pump displacement to Lagoon. Received WIN911 and monitoring station High Wetwell Level Alarm.



Appendix E - Performance Assessment Report Water

**Powassan Drinking Water System
Performance Assessment Report Water
From: 01/07/2023 to 30/09/2023**

Report extracted 10/31/2023 12:08

Facility: [6033] POWASSAN DRINKING WATER SYSTEM

Works: [220000576]

	07/2023	08/2023	09/2023	<--Total-->	<--Avg-->	<--Max-->	<--Min-->
Flows:							
Raw Flow: Monthly Total - Raw Well 1 (m³)	6493.02	7050.01	6884.88	20427.91			
Raw Flow: Monthly Total - Raw Well 2 (m³)	6407.88	6156.7	6541.75	19106.33			
Raw Flow: Monthly Avg - Raw Well 1 (m³/d)	209.45	227.42	229.5		222.12		
Raw Flow: Monthly Avg - Raw Well 2 (m³/d)	206.71	198.6	218.06		207.79		
Raw Flow: Monthly Max - Raw Well 1 (m³/d)	303.5	586.92	353.04			586.92	
Raw Flow: Monthly Max - Raw Well 2 (m³/d)	254.06	419.17	394.35			419.17	
Raw Flow: Monthly Total - Raw Water - Total (m³)	12900.9	13206.71	13426.63	39534.24			
Raw Flow: Monthly Avg - Raw Water - Total (m³/d)	416.16	426.02	447.55		429.91		
Raw Flow: Monthly Max - Raw Water - Total (m³/d)	475.09	702.33	546.88			702.33	
Turbidity:							
Raw: Max Turbidity - Raw Well 1 (NTU)	0.12	0.14	0.09			0.14	
Raw: Max Turbidity - Raw Well 2 (NTU)	0.14	0.14	0.12			0.14	
Chemical Parameters:							
Treated: Max Nitrite - TW1 (mg/L)	< 0.003				<	0.003	
Treated: Max Nitrate - TW1 (mg/L)	0.845					0.845	
Distribution: Max THM - Distribution (µg/l)	1.8					1.8	
Chlorine Residuals:							
Treated: Min Free Cl2 Resid - Treated Water (mg/L)	1.017	0.929	0.948				0.929
Treated: Max Free Cl2 Resid - Treated Water (mg/L)	2.253	2.101	1.894			2.253	
Dist: Min Free Cl2 Resid - Distribution (mg/L)	1.44	1.09	0.97				0.97
Dist: Max Free Cl2 Resid - Distribution (mg/L)	1.78	1.57	1.42			1.78	
Bacti Samples Collected:							
Raw Bacti: # of samples - Raw Well 1	5	4	4	13			
Raw Bacti: # of samples - Raw Well 2	5	4	4	13			
Treated Bacti: # of samples - TW1	3	1	2	6			
Treated Bacti: # of samples - TW2	2	3	2	7			
Dist Bacti: # of samples - Distribution	15	12	12	39			
Treated Bacti: # of TC exceedances - TW1	0	0	0	0			
Treated Bacti: # of TC exceedances - TW2	0	0	0	0			
Treated Bacti: # of EC exceedances - TW1	0	0	0	0			
Treated Bacti: # of EC exceedances - TW2	0	0	0	0			
Dist Bacti: # of TC exceedances - Distribution	0	0	0	0			
Dist Bacti: # of EC exceedances - Distribution	0	0	0	0			



Appendix F – Performance Assessment Report Wastewater

Performance Assessment Report

From: 01/07/2023 to 30/09/2023

5747 POWASSAN WASTEWATER TREATMENT LAGOON 11000613

7 / 2023 8 / 2023 9 / 2023 <--Total--> <--Avg--> <--Max-->

Flows

Raw Flow: Total - Raw m ³ /d	12,012.18	13,729.20	12,137.98	37,879.36		
Raw Flow: Total - St Gregory m ³ /d	358.18	366.00	393.30	1,117.48		
Raw Flow: Total - Clark Street m ³ /d	11,654.00	13,363.20	11,744.68	36,761.88		
Raw Flow: Avg - Raw m ³ /d	387.49	442.88	404.60		411.73	
Raw Flow: Avg - St Gregory m ³ /d	11.55	11.81	13.11		12.15	
Raw Flow: Avg - Clark Street m ³ /d	375.94	431.07	391.49		399.59	
Raw Flow: Max - Raw m ³ /d	488.70	640.80	511.30			640.80
Raw Flow: Max - St Gregory m ³ /d	15.10	20.80	18.20			20.80
Raw Flow: Max - Clark Street m ³ /d	474.90	628.10	496.70			628.10
Raw Flow: Count - Raw m ³ /d	31.00	31.00	30.00	92.00		
Raw Flow: Count - St Gregory m ³ /d	31.00	31.00	30.00	92.00		
Raw Flow: Count - Clark Street m ³ /d	31.00	31.00	30.00	92.00		

Biochemical Oxygen Demand: BOD5

Raw: Avg BOD5 - Raw mg/L	232.00	187.00	201.00		206.67	232.00
Raw: # of samples of BOD5 - Raw	1.00	1.00	1.00	3.00		

Total Suspended Solids: TSS

Raw: Avg TSS - Raw mg/L	226.00	168.00	171.00		188.33	226.00
Raw: # of samples of TSS - Raw	1.00	1.00	1.00	3.00		

Total Phosphorus: TP

Raw: Avg TP - Raw mg/L	4.22	4.12	5.08		4.47	5.08
Raw: # of samples of TP - Raw	1.00	1.00	1.00	3.00		

Nitrogen Series

Raw: Avg TKN - Raw mg/L	31.90	30.70	45.10		35.90	45.10
Raw: # of samples of TKN - Raw	1.00	1.00	1.00	3.00		