

SYSTEM OVERVIEW

January 1st to March 31st, 2023

OPERATIONAL HIGHLIGHTS

Drinking Water System

- The water treatment system operated well during the first quarter.

Wastewater Treatment

- The wastewater treatment system performed well during the first quarter.

CAPITAL PLAN PROGRESS

Drinking Water System

- N/A

Wastewater Treatment System

- 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

No Call-out Reports for WTP

See Appendix C – Call-out Report for WWTL

REGULATORY

- All drinking water samples required under O. Regulation 170/03 were collected and tested in the first quarter of 2023 and all results fell within regulatory limits.
- 2022 annual report completed January 10, 2023.
- Quarterly trihalomethanes (THM), haloacetic acids (HAA), Nitrate and Nitrite sampling completed January 17, 2023.

- Permit to take Water (PTTW) reporting completed January 20, 2023.
- No Ministry of the Environment Conservation and Parks (MECP) or Ministry of Labour (MOL) inspections conducted this quarter.
- All required sewage samples required under the system’s Environmental Compliance Approval (ECA) were collected and tested in the first quarter of 2023.
- 2022 annual sewage report completed January 16, 2023.
- Annual WSER reporting completed January 25, 2023.

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 WHMIS.
- Staff training completed on H&S Workplace Inspection Program.
- Staff training completed on Hearing Protection.
- Staff training completed on Eyewash Requirements.
- Annual certifications for confined space lifting rigs and gas meters completed.

POWASSAN DRINKING WATER SYSTEM PERFORMANCE

See Appendix D – Performance Assessment Report Water

POWASSAN WASTEWATER TREATMENT LAGOON – WASTEWATER FLOW SUMMARY

See Appendix E – Performance Assessment Report Wastewater



Appendix A - Work Order Summary for WTP

Workorder Summary Report

 Report Start Date: Jan 1, 2023 12:00 AM
 Report End Date: Mar 31, 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
3150419	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	1/1/23 12:00 AM	1/18/23 10:09 AM	1/18/23 10:09 AM	Critical Building Intrusion Alarm Testing (1m) 6033 - January 17, 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
3162537	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	1/1/23 12:00 AM	1/31/23 01:15 PM	1/31/23 01:15 PM	Reservoir Natural Gas Generator Inspection/Functional Test (1m) 6033 -January 27, 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: Jan 1, 2023 12:00 AM
 Report End Date: Mar 31, 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
3171674	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	1/1/23 12:00 AM	1/18/23 10:16 AM	1/18/23 10:16 AM	Critical Alarm/Dialer Testing (1m) 6033 - January 17, 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 Critical Alarm/Dialer Testing (1m) 6033 - *Previous Log entered by mistake. Critical Alarm/Dialer Testing (1m) 6033 was completed by Dan Finnigan on January 17, 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.

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3172886			6033, Powassan WTP	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 6033	COMP	1/1/23 12:00 AM	1/18/23 10:08 AM	1/18/23 10:08 AM	Health And Safety Inspection (1m) 6033 - The monthly H&S Inspection was conducted on January 17, 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 (all tested and working) 9. Emergency Eyewash (tested and working)
3173048			6033, Powassan WTP, Process, Process Control & Monitoring	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 6033	COMP	1/1/23 12:00 AM	1/18/23 10:18 AM	1/18/23 10:18 AM	Analyzer Chlorine Inspection/ Service (1m) 6033 - January 17, 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. A new membrane cap was installed. The probe was re-inserted into the housing and a single point verification was conducted with the following results: Online analyzer: 2.09 mg/L Free Cl2 Handheld analyzer: 2.07 mg/L Free Cl2 The online analyzer was within 0.02 mg/L Free Cl2 and therefore did not required adjustment.

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3173427			6033, Powassan WTP	OPER	Health and Safety	1	YEARS	WHMIS/MSDS/NSF Review And Update (1y) 6033	COMP	1/1/23 12:00 AM	1/24/23 09:15 AM	1/24/23 09:15 AM	WHMIS/MSDS/NSF Review And Update (1y) 6033 -Reviewed status of SDS sheets, checked NSF, updated index and applicable SDS sheets.
3175293			6033, Powassan WTP	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 6033	COMP	1/1/23 12:00 AM	1/18/23 10:11 AM	1/18/23 10:11 AM	TPM Inspection/Maintenance (1m) 6033 -January 17, 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.
3175298	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	1/1/23 12:00 AM	1/31/23 01:12 PM	1/31/23 01:12 PM	Wellhouse Diesel Generator Inspection/Functional Test (1m) 6033 -January 27, 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 = 1839 Oil Level = Full Coolant Temp=170 Deg.F Battery Voltage= 13.7V Oil Pressure 64 psi Fuel level = approximately 5.0 inches Hrs at start: 6381 hr 45 min Hrs at stop: 6383 hr 18 min (approx..)

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finish	WorkLog Detail
3176494			6033, Powassan WTP	OPER	Compliance	1	MONTHS	WISKI Review (1m) 6033	CLOSE	1/1/23 12:00 AM	1/10/23 04:57 PM	1/10/23 04:57 PM	WISKI Review (1m) 6033 -WISKI Review (1m) for the month of December 2022 was completed on January 05, 2022 by Dan Finnigan. All values were checked and entered, lab data entries were reviewed, WISKI Graphs corrected, and this Work Order closed off.
3187428	0000258571	ANALYZER CHLORINE AIT-601 RESERVOIR	6033, Powassan WTP, Process, Storage, Elevated Reservoir	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 6033	COMP	1/1/23 12:00 AM	1/31/23 01:19 PM	1/31/23 01:19 PM	Analyzer Chlorine Inspection/ Service (1m) 6033 -Analyzer Chlorine Inspection/ Service (1m) at the Reservoir was performed by Dan Finnigan on January 27, 2023. Electrolyte levels were checked and filled, air was flushed from the analyzer housing, and readings checked against a pocket colorimeter. However, due to the suspected age of the cl2 probe, a residual reading was not re-established. A grab sample was taken with a result of 1.40 mg/L although the analyzer was still reading 0.00 mg/L. The probe was monitored and several hours later began to read normally. A calibration will be completed in the near future.
3207618	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	2/1/23 12:00 AM	2/18/23 11:24 PM	2/18/23 11:24 PM	Critical Building Intrusion Alarm Testing (1m) 6033 -February 17, 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

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3216561	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	2/1/23 12:00 AM	2/4/23 07:29 AM	2/4/23 07:29 AM	Reservoir Natural Gas Generator Inspection/Functional Test (1m) 6033 -February 2, 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.
3222361	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	2/1/23 12:00 AM	3/1/23 02:51 PM	3/1/23 02:51 PM	-Critical Alarm/Dialer Testing (1m) 6033 was completed by Curtis Green on February 23, 2022. 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 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.

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3222845			6033, Powassan WTP	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 6033	COMP	2/1/23 12:00 AM	2/18/23 11:21 PM	2/18/23 11:21 PM	Health And Safety Inspection (1m) 6033 - The monthly H&S Inspection was conducted on February 17, 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 (all tested and working) 9. Emergency Eyewash (tested and working)
3223222			6033, Powassan WTP, Process, Process Control & Monitoring	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 6033	COMP	2/1/23 12:00 AM	2/18/23 11:28 PM	2/18/23 11:28 PM	Analyzer Chlorine Inspection/ Service (1m) 6033 - Analyzer Chlorine Inspection/ Service (1m) at the Well House was performed by Dan Finnigan on February 17, 2023. Electrolyte levels were recently 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 2.53 mA/ppm (within spec). Online = 1.80 mg/L Tested = 1.96 mg/L

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3224644			6033, Powassan WTP	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 6033	COMP	2/1/23 12:00 AM	2/18/23 11:22 PM	2/18/23 11:22 PM	TPM Inspection/Maintenance (1m) 6033 -February 17, 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.
3224649	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	2/1/23 12:00 AM	3/1/23 03:08 PM	3/1/23 03:08 PM	Wellhouse Diesel Generator Inspection/Functional Test (1m) 6033 -February 23, 2022 by Curtis Green. 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 = 1782 Oil Level = Full Coolant Temp=74 Deg.F Battery Voltage= 13 V Oil Pressure 66 psi Fuel level = approximately 4.5 inches Hrs at start: 6421 hr Hrs at stop: 6422 hr
3225475			6033, Powassan WTP	OPER	Compliance	1	MONTHS	WISKI Review (1m) 6033	COMP	2/1/23 12:00 AM	2/15/23 11:10 AM	2/15/23 11:10 AM	WISKI Review (1m) 6033 -WISKI Review (1m) for the month of January 2023 was completed on February 15, 2023 by Dan Finnigan. All values were checked and entered, lab data entries were reviewed, WISKI Graphs corrected, and this Work Order closed off.

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				Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	
3233421	0000258571	ANALYZER CHLORINE AIT-601 RESERVOIR	6033, Powassan WTP, Process, Storage, Elevated Reservoir	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 6033	COMP	2/1/23 12:00 AM	2/4/23 07:24 AM	2/4/23 07:24 AM	Analyzer Chlorine Inspection/ Service (1m) 6033 -Analyzer Chlorine Inspection/ Service (1m) at the Reservoir was performed by Dan Finnigan on February 02, 2023. Electrolyte levels were recently 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.
3244507			6033, Powassan WTP, Facility	CORR	Refurbish/ Replace/Repair	0		backflow preventer parts for Powassan 6033	COMP		4/14/23 02:42 PM	4/14/23 02:42 PM	backflow preventer parts for Powassan 6033 - total rebuild kit required for bfp. TF Feb 6/23 parts installed - installed kit and tested. both checks failed. recommend new back flow preventer. TF April 14/2023
3248387	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	3/1/23 12:00 AM	3/17/23 10:58 AM	3/17/23 10:58 AM	Critical Building Intrusion Alarm Testing (1m) 6033 -March 16, 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

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3258098	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	3/1/23 12:00 AM	3/17/23 11:05 AM	3/17/23 11:05 AM	Reservoir Natural Gas Generator Inspection/Functional Test (1m) 6033 -March 16, 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.
3264789	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	3/1/23 12:00 AM	3/17/23 10:56 AM	3/17/23 10:56 AM	Critical Alarm/Dialer Testing (1m) 6033 -Critical Alarm/Dialer Testing (1m) 6033 was completed by Dan Finnigan on March 16, 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.

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3265045			6033, Powassan WTP	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 6033	COMP	3/1/23 12:00 AM	3/17/23 10:51 AM	3/17/23 10:51 AM	Health And Safety Inspection (1m) 6033 - The monthly H&S Inspection was conducted on March 16, 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 (all tested and working) 9. Emergency Eyewash (tested and working)
3265147			6033, Powassan WTP, Process, Process Control & Monitoring	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 6033	COMP	3/1/23 12:00 AM	3/17/23 10:54 AM	3/17/23 10:54 AM	Analyzer Chlorine Inspection/ Service (1m) 6033 - March 16, 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: 1.75 mg/L Free Cl2 Handheld analyzer: 1.80 mg/L Free Cl2 The online analyzer was within 0.05 mg/L Free Cl2 and therefore did not required adjustment.

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3266940			6033, Powassan WTP	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 6033	COMP	3/1/23 12:00 AM	3/17/23 10:57 AM	3/17/23 10:57 AM	TPM Inspection/Maintenance (1m) 6033 -March 16, 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.
3266945	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	3/1/23 12:00 AM	3/17/23 11:01 AM	3/17/23 11:01 AM	Wellhouse Diesel Generator Inspection/Functional Test (1m) 6033 - March 16, 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 = 1794 Oil Level = Full Coolant Temp=168 Deg.F Battery Voltage= 13.7V Oil Pressure 66 psi Fuel level = approximately 5.0 inches Hrs at start: 6515 hr 48 min Hrs at stop: 6517 hr 33 min

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3268194			6033, Powassan WTP	OPER	Compliance	1	MONTHS	WISKI Review (1m) 6033	COMP	3/1/23 12:00 AM	3/2/23 05:17 PM	3/2/23 05:17 PM	WISKI Review (1m) 6033 -WISKI Review (1m) for the month of February 2023 was completed on March 2, 2023 by Dan Finnigan. All values were checked and entered, lab data entries were reviewed, WISKI Graphs corrected, and this Work Order closed off.
3276208	0000258571	ANALYZER CHLORINE AIT-601 RESERVOIR	6033, Powassan WTP, Process, Storage, Elevated Reservoir	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 6033	COMP	3/1/23 12:00 AM	3/17/23 11:04 AM	3/17/23 11:04 AM	Analyzer Chlorine Inspection/ Service (1m) 6033 - Analyzer Chlorine Inspection/ Service (1m) at the Reservoir was performed by Dan Finnigan on March 16, 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 = 1.58 mg/L Tested = 1.54 mg/L



Appendix B - Work Order Summary for WWTL

Workorder Summary Report

 Report Start Date: Jan 1, 2023 12:00 AM
 Report End Date: Mar 31, 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
3162521	0000296003	GENERATOR NATURAL GAS GENSET Clark Street	5747, Clark SPS, Facility	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Inspection/ Functional Test (1m) 5747	CLOSE	1/1/23 12:00 AM	1/10/23 06:12 PM	1/10/23 06:12 PM	Diesel Generator Inspection/ Functional Test (1m) 5747 -January 09, 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= 1825 Oil Level = Full Coolant Temp=160 Deg.F Battery Voltage= 12.0 V Oil Pressure 60 psi Hrs at start: 501.2 Hrs at stop: 501.5
3171377			5747, Powassan WWTL	OPER	Health and Safety	1	YEARS	WHMIS/MSDS/NSF Review And Update (1y) 5747	COMP	1/1/23 12:00 AM	1/24/23 09:13 AM	1/24/23 09:13 AM	WHMIS/MSDS/NSF Review And Update (1y) 5747 -Reviewed status of SDS sheets, updated as required.

Workorder Summary Report

 Report Start Date: Jan 1, 2023 12:00 AM
 Report End Date: Mar 31, 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
3171506			5747, Powassan WWTL	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 5747	CLOSE	1/1/23 12:00 AM	1/10/23 05:28 PM	1/10/23 05:28 PM	Health And Safety Inspection (1m) 5747 - Dan Finnigan conducted the monthly H&S Inspection on January 09, 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 (was not working) 6. Emergency Eyewash (bottles are within use before date) 7. Fire Extinguisher 8. CO Monitor
3171577			5747, Powassan WWTL	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 5747	CLOSE	1/1/23 12:00 AM	1/10/23 06:09 PM	1/10/23 06:09 PM	TPM Inspection/Maintenance (1m) 5747 -Completed by Dan Finnigan on January 09, 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: Jan 1, 2023 12:00 AM
 Report End Date: Mar 31, 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
3171590			5747, Powassan WWTL	PM	Inspection	1	MONTHS	Critical Alarm/Dialer Testing (1m) 5747	COMP	1/1/23 12:00 AM	1/31/23 01:57 PM	1/31/23 01:57 PM	Critical Alarm/Dialer Testing (1m) 5747 -Conducted by Dan Finnigan on January 30, 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. It was verified by receiving the WIN911 alarm once the alarm condition was met. The on-call operator received the alarm call-out 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.
3176499			5747, Powassan WWTL	OPER	Compliance	1	MONTHS	WISKI Review (1m) 5747	CLOSE	1/1/23 12:00 AM	1/10/23 04:55 PM	1/10/23 04:55 PM	WISKI Review (1m) 5747 -WISKI Review (1m) for the month of December 2022 was completed on January 05, 2022 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: Jan 1, 2023 12:00 AM
 Report End Date: Mar 31, 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
3216545	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	2/1/23 12:00 AM	3/1/23 02:28 PM	3/1/23 02:28 PM	Diesel Generator Inspection/ Functional Test (1m) 5747 -Curtis Green performed the monthly Generator/Functional test on February 23, 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= 1840 Oil Level = Full Coolant Temp=130 Deg.F Battery Voltage= 12 V Oil Pressure 60 psi Hrs at start: 502.4 Hrs at stop: 502.8
3222287			5747, Powassan WWTL	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 5747	COMP	2/1/23 12:00 AM	3/1/23 02:21 PM	3/1/23 02:21 PM	-Curtis Green conducted the monthly H&S Inspection on February 23, 2022 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 (not working) 6. Emergency Eyewash (bottles are within use before date) 7. Fire Extinguisher 8. CO Monitor

Workorder Summary Report

 Report Start Date: Jan 1, 2023 12:00 AM
 Report End Date: Mar 31, 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
3222298			5747, Powassan WWTL	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 5747	COMP	2/1/23 12:00 AM	3/1/23 02:13 PM	3/1/23 02:13 PM	TPM Inspection/Maintenance (1m) 5747 -Completed by Curtis Green on February 23, 2022. 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.
3222308			5747, Powassan WWTL	PM	Inspection	1	MONTHS	Critical Alarm/Dialer Testing (1m) 5747	COMP	2/1/23 12:00 AM	3/2/23 05:22 PM	3/2/23 05:22 PM	Critical Alarm/Dialer Testing (1m) 5747 -There was an actual High Level event that occurred on Feb 15, 2023 during a warm winter melt and rainfall event. The high level float was activated, and True Steel contacted the on call operator within minutes.
3225480			5747, Powassan WWTL	OPER	Compliance	1	MONTHS	WISKI Review (1m) 5747	COMP	2/1/23 12:00 AM	4/13/23 01:48 PM	4/13/23 01:48 PM	

Workorder Summary Report

 Report Start Date: Jan 1, 2023 12:00 AM
 Report End Date: Mar 31, 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
3258082	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	3/1/23 12:00 AM	3/17/23 12:01 PM	3/17/23 12:01 PM	Diesel Generator Inspection/ Functional Test (1m) 5747 -March 16, 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= n/a Oil Level = Full Coolant Temp=165 Deg.F Battery Voltage= 12.0 V Oil Pressure 59 psi Hrs at start: 503.1 Hrs at stop: 503.6
3264725			5747, Powassan WWTL	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 5747	COMP	3/1/23 12:00 AM	3/7/23 11:40 AM	3/7/23 11:40 AM	Health And Safety Inspection (1m) 5747 - Dan Finnigan conducted the monthly H&S Inspection on March 03, 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: Jan 1, 2023 12:00 AM
 Report End Date: Mar 31, 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
3264736			5747, Powassan WWTL	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 5747	COMP	3/1/23 12:00 AM	3/7/23 11:42 AM	3/7/23 11:42 AM	TPM Inspection/Maintenance (1m) 5747 - TPM Inspection/Maintenance (1m) 5747 Completed by Dan Finnigan on March 03, 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.
3264741			5747, Powassan WWTL	PM	Inspection	1	MONTHS	Critical Alarm/Dialer Testing (1m) 5747	COMP	3/1/23 12:00 AM	3/17/23 11:59 AM	3/17/23 11:59 AM	Critical Alarm/Dialer Testing (1m) 5747 - Conducted by Dan Finnigan on March 16, 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). 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 5 minutes of pumping.
3268199			5747, Powassan WWTL	OPER	Compliance	1	MONTHS	WISKI Review (1m) 5747	COMP	3/1/23 12:00 AM	3/2/23 05:19 PM	3/2/23 05:19 PM	WISKI Review (1m) 5747 - WISKI Review (1m) for the month of February 2023 was completed on March 2, 2023 by Dan Finnigan. All values were checked and entered, lab data entries were reviewed, and this Work Order closed off.



Appendix C - Call-out Report for WWTL

Workorder Summary Report

 Report Start Date: Jan 1, 2023 12:00 AM
 Report End Date: Mar 31, 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
3246367			5747, Clark SPS	CALL	Compliance	0		Powassan Clark St. Sewage Stn Well High Level	COMP		2/15/23 05:15 PM	2/15/23 10:30 PM	Powassan Clark St. Sewage Stn Well High Level - 16:01--Received WIN911 Alarm for Clark Street High Wet Well Level 17:20--Received True Steel notification of High Level Float. Checked forecast: rain event has ended with a brief amount of rain expected later tonight. Reviewed trending: trending has flatlined but no more precipitation in the forecast. 22:00-Onsite to inspect wet well: inspection shows high level was at least 20 inches below overflow with no signs of overflow (chlorine pucks are dry, wet level below, etc.). Both pumps are running and High Level float is almost disengaged. 22:30--High level float is now disengaged and wet well level is back to normal.



Appendix D - Performance Assessment Report Water

**Powassan Drinking Water System
Performance Assessment Report Water**

From: 01/01/2023 to 31/03/2023

Report extracted 04/18/2023 12:42

Facility: [6033] POWASSAN DRINKING WATER SYSTEM

Works: [220000576]

	01/2023	02/2023	03/2023	<--Total-->	<--Avg-->	<--Max-->	<--Min-->
Flows:							
Raw Flow: Monthly Total - Raw Well 1 (m³)	5827.51	5334.01	6187.17	17348.69			
Raw Flow: Monthly Total - Raw Well 2 (m³)	5713.44	5065.07	5692.99	16471.5			
Raw Flow: Monthly Avg - Raw Well 1 (m³/d)	187.98	190.5	199.59		192.69		
Raw Flow: Monthly Avg - Raw Well 2 (m³/d)	184.3	180.9	183.64		182.95		
Raw Flow: Monthly Max - Raw Well 1 (m³/d)	281.62	280.71	307.72			307.72	
Raw Flow: Monthly Max - Raw Well 2 (m³/d)	265.18	251.95	265.97			265.97	
Raw Flow: Monthly Total - Raw Water - Total (m³)	11540.95	10399.08	11880.16	33820.19			
Raw Flow: Monthly Avg - Raw Water - Total (m³/d)	372.29	371.4	383.23		375.64		
Raw Flow: Monthly Max - Raw Water - Total (m³/d)	438.5	442.18	495.95			495.95	
Turbidity:							
Raw: Max Turbidity - Raw Well 1 (NTU)	0.12	0.11	0.1			0.12	
Raw: Max Turbidity - Raw Well 2 (NTU)	0.16	0.17	0.12			0.17	
Chemical Parameters:							
Treated: Max Nitrite - TW1 (mg/L)	< 0.003				<	0.003	
Treated: Max Nitrate - TW1 (mg/L)	0.863					0.863	
Distribution: Max THM - Distribution (µg/l)	5.5					5.5	
Chlorine Residuals:							
Treated: Min Free Cl2 Resid - Treated Water (mg/L)	1.108	1.141	1.307				1.108
Treated: Max Free Cl2 Resid - Treated Water (mg/L)	2.383	2.545	2.373			2.545	
Dist: Min Free Cl2 Resid - Distribution (mg/L)	1.32	1.3	1.33				1.3
Dist: Max Free Cl2 Resid - Distribution (mg/L)	2.05	1.95	2.16			2.16	
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	2	2	4	8			
Treated Bacti: # of samples - TW2	3	2		5			
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			
Treated Bacti: # of EC exceedances - TW1	0	0	0	0			
Treated Bacti: # of EC exceedances - TW2	0	0		0			
Dist Bacti: # of TC exceedances - Distribution	0	0	0	0			
Dist Bacti: # of EC exceedances - Distribution	0	0	0	0			



Appendix E - Performance Assessment Report Wastewater

5747 POWASSAN WASTEWATER TREATMENT LAGOON

	1 / 2023	2/ 2023	3/ 2023	<--Total-->	<--Avg-->	<--Max-->	<-Criteria-->
Flows							
Raw Flow: Total - Raw m ³ /d	14,905.50	13,274.10	16,957.80	45,137.40			0.00
Raw Flow: Total - St Gregory m ³ /d	500.30	462.00	532.70	1,495.00			0.00
Raw Flow: Total - Clark Street m ³ /d	14,405.20	12,812.10	16,425.10	43,642.40			0.00
Raw Flow: Avg - Raw m ³ /d	480.82	474.08	547.03		501.53		940.00
Raw Flow: Avg - St Gregory m ³ /d	16.14	16.50	17.18		16.61		
Raw Flow: Avg - Clark Street m ³ /d	464.68	457.58	529.84		484.92		
Raw Flow: Max - Raw m ³ /d	599.40	1,065.30	823.00			1,065.30	0.00
Raw Flow: Max - St Gregory m ³ /d	25.40	26.80	25.20			26.80	0.00
Raw Flow: Max - Clark Street m ³ /d	584.50	1,038.80	802.10			1,038.80	0.00
Raw Flow: Count - Raw m ³ /d	31.00	28.00	31.00	90.00			0.00
Raw Flow: Count - St Gregory m ³ /d	31.00	28.00	31.00	90.00			0.00
Raw Flow: Count - Clark Street m ³ /d	31.00	28.00	31.00	90.00			0.00
Biochemical Oxygen Demand: BOD5							
Raw: Avg BOD5 - Raw mg/L	159.00	250.00	263.00		224.00	263.00	0.00
Raw: # of samples of BOD5 - Raw	1.00	1.00	1.00	3.00			0.00
Total Suspended Solids: TSS							
Raw: Avg TSS - Raw mg/L	158.00	139.00	162.00		153.00	162.00	0.00
Raw: # of samples of TSS - Raw	1.00	1.00	1.00	3.00			0.00
Total Phosphorus: TP							
Raw: Avg TP - Raw mg/L	2.92	1.60	2.51		2.34	2.92	0.00
Raw: # of samples of TP - Raw	1.00	1.00	1.00	3.00			0.00
Nitrogen Series							
Raw: Avg TKN - Raw mg/L	19.90	14.90	20.40		18.40	20.40	0.00
Raw: # of samples of TKN - Raw	1.00	1.00	1.00	3.00			0.00