

SYSTEM OVERVIEW

July 1st to September 30th , 2022

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.

Wastewater Treatment

- The wastewater treatment system performed well during the third quarter.
- Lagoon treatment completed on September 22, 2022. South Cell treated with 1250 imperial gallons (IMPG) and Old Cell treated with 1000 IMPG.

CAPITAL PLAN PROGRESS

Drinking Water System

- Old abandoned analyzers and associated electrical equipment was removed from the well house.
- Uninterruptable power supply (UPS) replaced at well house.

Wastewater Treatment

- UPS replaced at Clark St. SLS.

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 2022 and all results fell within regulatory limits.
- 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 14, 2022.
- All required sewage samples required under the system’s ECA collected and tested in the third quarter of 2022.

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 Heat Stress.
- Staff training completed on SDS/MSDS.
- Staff training completed on Vehicle Circle Checks.

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, 2022 12:00 AM
 Report End Date: Sep 30, 2022 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 Finish	WorkLog Detail
2875255	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	CLOSE	7/1/22 12:00 AM	7/13/22 09:26 AM	7/13/22 09:26 AM	Critical Building Intrusion Alarm Testing (1m) 6033 -July 12, 2022. 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
2885465	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	CLOSE	7/1/22 12:00 AM	7/19/22 03:45 PM	7/19/22 03:45 PM	Reservoir Natural Gas Generator Inspection/Functional Test (1m) 6033 -July 15, 2022 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, 2022 12:00 AM
 Report End Date: Sep 30, 2022 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				WorkLog Detail
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEO	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finish	WorkLog Detail			
2892588	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	CLOSE	7/1/22 12:00 AM	7/13/22 09:32 AM	7/13/22 09:32 AM	Critical Alarm/Dialer Testing (1m) 6033 -Critical Alarm/Dialer Testing (1m) 6033 was completed by Dan Finnigan on July 11, 2022. The CI2 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. The True Steel called to advise they had received an alarm notification re the low chlorine alarm. The CI2 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 CI2/instrument alarm, alarm dialer and well pump interlock.			

Workorder Summary Report

Report Start Date: Jul 1, 2022 12:00 AM
 Report End Date: Sep 30, 2022 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				WorkLog Detail
Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finish								
PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 6033	CLOSE	7/1/22 12:00 AM	7/13/22 09:30 AM	7/13/22 09:30 AM	<p>The monthly H&S Inspection was conducted on July 12, 2022 and consisted of checking/verifying the following items:</p> <ol style="list-style-type: none"> 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) 							6033
PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 6033	CLOSE	7/1/22 12:00 AM	7/13/22 09:34 AM	7/13/22 09:34 AM	<p>July 11, 2022 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: 1.55 mg/L Free Cl2 Handheld analyzer: 1.56 mg/L Free Cl2 The online analyzer was within 0.01 mg/L Free Cl2 and therefore did not require adjustment.</p>							6033

Workorder Summary Report

Report Start Date: Jul 1, 2022 12:00 AM
 Report End Date: Sep 30, 2022 11:59 PM
 Location: 6033*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

WO #		Asset ID	Asset Description	Location Description	WorkOrder	Type	Class	PM Schedule	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finish	WorkLog Detail
2894752		0000209142	GENERATOR DIESEL POWASSAN GROUND WATER WELL:	6033, Powassan WTP, Facility, Power Generation	PM	PM	Refurbish/ Replace/Repair	1 MONTHS	1	MONTHS	TPM Inspection/Maintenance (1m) 6033	CLOSE	7/1/22 12:00 AM	7/13/22 09:29 AM	7/13/22 09:29 AM	TPM Inspection/Maintenance (1m) 6033 -July 12, 2022. 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.
2894802		0000209142	GENERATOR DIESEL POWASSAN GROUND WATER WELL:	6033, Powassan WTP, Facility, Power Generation	PM	PM	Refurbish/ Replace/Repair	1 MONTHS	1	MONTHS	Wellhouse Diesel Generator Inspection/Functional Test (1m) 6033	COMP	7/1/22 12:00 AM	7/26/22 11:33 AM	7/26/22 11:33 AM	Wellhouse Diesel Generator Inspection/Functional Test (1m) 6033 - July 25, 2022 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 60 psi Fuel level = approximately 7.0 inches Hrs at start: 5980 hr 37 min Hrs at stop: 5981 hr 44 min
2895983				6033, Powassan WTP	OPER	OPER	Compliance	1 MONTHS	1	MONTHS	WISKI Review (1m) 6033	CLOSE	7/1/22 12:00 AM	7/13/22 09:23 AM	7/13/22 09:23 AM	WISKI Review (1m) 6033 - WISKI Review (1m) for the month of June 2022 was completed on July 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.

Workorder Summary Report

Report Start Date: Jul 1, 2022 12:00 AM
 Report End Date: Sep 30, 2022 11:59 PM
 Location: 6033*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

WorkOrder		PM Schedule		Workorder Details				WorkLog Detail					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finish	
2905357	0000258571	ANALYZER CHLORINE AIT-601 RESERVOIR	6033, Powassan WTP, Process, Storage, Elevated Reservoir	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 6033	CLOSE	7/1/22 12:00 AM	7/19/22 03:48 PM	7/19/22 03:48 PM	Analyzer Chlorine Inspection/ Service (1m) 6033 - Analyzer Chlorine Inspection/ Service (1m) at the Reservoir was performed by Dan Finnigan on July 15, 2022. 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 and the online analyzer did not need calibration. Online = 1.23 mg/L Tested = 1.23 mg/L
2917094			6033, Powassan WTP, Facility	CAP	Refurbish/ Replace/Repair	0		Powassan Well House Obsolete Instrumentation & Equipment Removal	CLOSE	7/12/22 11:08 PM	7/12/22 11:08 PM		Powassan Well House Obsolete Instrumentation & Equipment Removal -Contacted Claudel (Stroma) and made an appointment for Tuesday July 12, 2022 to meet at the Powassan Well House to remove obsolete equipment (chart recorder, by-pass panel, etc.). Powassan Well House Obsolete Instrumentation & Equipment Removal -July 12, 2022. Claudel successfully removed obsolete paper chart recorder, ABB chart recorder, Turbidity analyzer and Chlorine lockout bypass relays and boxes, etc. Low chlorine lockout / alarm and high chlorine alarm tested OK. Onsite from approximately 09:30 to 15:30.

Workorder Summary Report

Report Start Date: Jul 1, 2022 12:00 AM
 Report End Date: Sep 30, 2022 11:59 PM
 Location: 6033*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

		WorkOrder	PM Schedule	Workorder Details				WorkLog Detail					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finish	
2919919			6033, Powassan WTP, Process, Process Control & Monitoring	CAP	Refurbish/ Replace/Repair	0		Powassan UPS Replacements	CLOSE		7/15/22 01:49 PM	7/15/22 01:49 PM	UPS Replacements - Replace failed UPS's, 1 for wellhouse and one for Clark St SLS; CyberPower 8-Outlet Uninterruptible Power Supply UPS System, 450VA / 260W (SE450G1-FC)
2924267	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	8/1/22 12:00 AM	8/25/22 04:50 PM	8/25/22 04:50 PM	Critical Building Intrusion Alarm Testing (1m) 6033 -August 24, 2022. 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.
2933352	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	8/1/22 12:00 AM	8/25/22 05:02 PM	8/25/22 05:02 PM	Reservoir Natural Gas Generator Inspection/Functional Test (1m) 6033 -August 24, 2022 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, 2022 12:00 AM
 Report End Date: Sep 30, 2022 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				WorkLog Detail
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finish	WorkLog Detail			
2939949	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	8/1/22 12:00 AM	8/25/22 04:42 PM	8/25/22 04:42 PM	Critical Alarm/Dialer Testing (1m) 6033 -Critical Alarm/Dialer Testing (1m) 6033 was completed by Dan Finnigan on August 24, 2022. The CI2 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. The True Steel called to advise they had received an alarm notification re the low chlorine alarm. The CI2 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 CI2/instrument alarm, alarm dialer and well pump interlock.			

Workorder Summary Report

Report Start Date: Jul 1, 2022 12:00 AM
 Report End Date: Sep 30, 2022 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				WorkLog Detail	
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finish					WorkLog Detail
2940239			6033, Powassan WTP	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 6033	COMP	8/1/22 12:00 AM	8/25/22 04:33 PM	8/25/22 04:33 PM					Health And Safety Inspection (1m) 6033 - The monthly H&S Inspection was conducted on August 24, 2022 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)
2940364		6033, Powassan WTP, Process, Process Control & Monitoring		PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 6033	COMP	8/1/22 12:00 AM	8/25/22 04:40 PM	8/25/22 04:40 PM					Analyzer Chlorine Inspection/ Service (1m) 6033 - August 24, 2022 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: 2.34 mg/L Free Cl2 Handheld analyzer: 1.98 mg/L Free Cl2 The online analyzer required adjustment. The new slope after calibration was 2.05 mA/ppm (within spec).

Workorder Summary Report

Report Start Date: Jul 1, 2022 12:00 AM
 Report End Date: Sep 30, 2022 11:59 PM
 Location: 6033*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

WO #		Asset ID	Asset Description	Location Description	Type	Class	PM Schedule	Work Order Description	Status	Schedule Start	Actual Start	Actual Finish	WorkLog Detail
2941616		0000209142	GENERATOR DIESEL POWASSAN GROUND WATER WELL:	6033, Powassan WTP, Facility, Power Generation	PM	Inspection	1 MONTHS	TPM Inspection/Maintenance (1m) 6033	COMP	8/1/22 12:00 AM	8/25/22 04:49 PM	8/25/22 04:49 PM	TPM Inspection/Maintenance (1m) 6033 -August 24, 2022. 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.
2941621		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	8/1/22 12:00 AM	8/25/22 04:58 PM	8/25/22 04:58 PM	Wellhouse Diesel Generator Inspection/Functional Test (1m) 6033 - August 24, 2022 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 = 1785 Oil Level = Full Coolant Temp=168 Deg.F Battery Voltage= 13.7V Oil Pressure 60 psi Fuel level = approximately 7.0 inches Hrs at start: 6015 hr 50 min Hrs at stop: 6017 hr 33 min
2942710				6033, Powassan WTP	OPER	Compliance	1 MONTHS	WISKI Review (1m) 6033	COMP	8/1/22 12:00 AM	8/16/22 04:09 PM	8/16/22 04:09 PM	WISKI Review (1m) 6033 -WISKI Review (1m) for the month of July 2022 was completed on August 16, 2022 by Dan Finnigan. All values were checked and entered, lab data entries were reviewed, WISKI Graphs corrected, and this Work Order closed off.

Workorder Summary Report

Report Start Date: Jul 1, 2022 12:00 AM
 Report End Date: Sep 30, 2022 11:59 PM
 Location: 6033*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

		WorkOrder		PM Schedule		Workorder Details				WorkLog Detail			
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finish	WorkLog Detail
2951386	0000258571	ANALYZER CHLORINE AIT-601 RESERVOIR	6033, Powassan WTP, Process, Storage, Elevated Reservoir	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 6033	COMP	8/1/22 12:00 AM	8/25/22 05:05 PM	8/25/22 05:05 PM	Analyzer Chlorine Inspection/ Service (1m) 6033 - Analyzer Chlorine Inspection/ Service (1m) at the Reservoir was performed by Dan Finnigan on August 24, 2022. 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 = 1.35 mg/L Tested = 1.30 mg/L
2967774			6033, Powassan WTP, Process, Process Control & Monitoring	CORR	Refurbish/ Replace/Repair	0		Chlorine Analyzer Parts (membrane cap & electrolyte)	COMP		9/21/22 10:57 AM	9/21/22 10:57 AM	Chlorine Analyzer consumables (membrane cap & electrolyte) -Created work order number and requested quote from SCG Chlorine Analyzer consumables (membrane cap & electrolyte) -Received order from SGG Process and delivered to Powassan WS.
2969592	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	9/1/22 12:00 AM	9/26/22 10:34 AM	9/26/22 10:34 AM	Critical Building Intrusion Alarm Testing (1m) 6033 -September 07, 2022. 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, 2022 12:00 AM
 Report End Date: Sep 30, 2022 11:59 PM
 Location: 6033*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

WorkOrder		PM Schedule		Workorder Details				WorkLog Detail					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finish	
2979935	0000296004	GENERATOR NATURAL GAS GENSET McGrae Road Reservoir	6033, Powassan WTP, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	MONTHS	Reservoir Natural Gas Generator Inspection/Functional Test (1m) 6033	COMP	9/1/22 12:00 AM	9/26/22 11:02 AM	9/26/22 11:02 AM	Reservoir Natural Gas Generator Inspection/Functional Test (1m) 6033 -September 22, 2022 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.
2986798	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	9/1/22 12:00 AM	10/5/22 08:14 AM	10/5/22 08:14 AM	Critical Alarm/Dialer Testing (1m) 6033 -Critical Alarm/Dialer Testing (1m) 6033 was completed by Dan Finnigan on September 30, 2022. The CI2 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. The True Steel called to advise they had received an alarm notification re the low chlorine alarm. The CI2 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 CI2/instrument alarm, alarm dialer and well pump interlock.

Workorder Summary Report

Report Start Date: Jul 1, 2022 12:00 AM
 Report End Date: Sep 30, 2022 11:59 PM
 Location: 6033*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

WorkOrder		PM Schedule		Workorder Details				WorkLog Detail					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finish	
2987049		6033, Powassan WTP		PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 6033	COMP	9/1/22 12:00 AM	9/26/22 10:31 AM	9/26/22 10:31 AM	Health And Safety Inspection (1m) 6033 - The monthly H&S Inspection was conducted on September 07, 2022 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)
2987151		6033, Powassan WTP, Process, Process Control & Monitoring		PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 6033	COMP	9/1/22 12:00 AM	9/26/22 10:39 AM	9/26/22 10:39 AM	Analyzer Chlorine Inspection/ Service (1m) 6033 -Analyzer Chlorine Inspection/ Service (1m) at the POE was performed by Dan Finnigan on September 07, 2022. A single point calibration was conducted after comparing the online analyzer to a hand-held tester. The analyzer was reading within specifications and did not require calibration.

Workorder Summary Report

Report Start Date: Jul 1, 2022 12:00 AM
 Report End Date: Sep 30, 2022 11:59 PM
 Location: 6033*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

WorkOrder		PM Schedule		Workorder Details				WorkLog Detail					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finish	WorkLog Detail
2988505	0000209142	GENERATOR DIESEL POWASSAN GROUND WATER WELL:	6033, Powassan WTP, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	MONTHS	TPM Inspection/Maintenance (1m) 6033	COMP	9/1/22 12:00 AM	9/26/22 10:35 AM	9/26/22 10:35 AM	TPM Inspection/Maintenance (1m) 6033 -September 07, 2022. 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.
2988510	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	9/1/22 12:00 AM	10/5/22 08:17 AM	10/5/22 08:17 AM	Wellhouse Diesel Generator Inspection/Functional Test (1m) 6033 -September 30, 2022 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 Oil Level = Full Coolant Temp=177 Deg.F Battery Voltage= 13.7V Oil Pressure 66 psi Fuel level = approximately 6.5 inches Hrs at start: 6106 hr 16 min Hrs at stop: 6107 hr 42 min

Workorder Summary Report

Report Start Date: Jul 1, 2022 12:00 AM
 Report End Date: Sep 30, 2022 11:59 PM
 Location: 6033*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

WorkOrder		PM Schedule		Workorder Details				WorkLog Detail					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finish	WorkLog Detail
3000118	0000258571	ANALYZER CHLORINE AIT-601 RESERVOIR	6033, Powassan WTP, Process, Storage, Elevated Reservoir	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 6033	COMP	9/1/22 12:00 AM	9/26/22 11:05 AM	9/26/22 11:05 AM	- Analyzer Chlorine Inspection/ Service (1m) 6033 Analyzer Chlorine Inspection/ Service (1m) at the Reservoir was performed by Dan Finnigan on September 22, 2022. 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 1.03 mA/ppm (within spec). The online analyzer did not need calibration. to the hand held reading. Online = 1.32 mg/L Tested = 1.33 mg/L
3016688		Powassan Ground Water Well System		OPER	Predictive Maintenance	0		Fall hydrant flushing powassan 6033	COMP		9/26/22 01:28 PM	9/26/22 01:28 PM	



Appendix B - Work Order Summary for WWTL

Workorder Summary Report

Report Start Date: Jul 1, 2022 12:00 AM
 Report End Date: Sep 30, 2022 11:59 PM
 Location: 5747*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

WO #		Asset ID		Asset Description		Location Description		WorkOrder		PM Schedule		Workorder Details				WorkLog Detail
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finish	WorkLog Detail			
2885449	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	7/1/22 12:00 AM	7/27/22 12:36 PM	7/27/22 12:36 PM	Diesel Generator Inspection/ Functional Test (1m) 5747 -July 27, 2022. 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=180 Deg.F Battery Voltage= 12.0V Oil Pressure 58 psi Hrs at start: 487.49 Hrs at stop: 487.80			

Workorder Summary Report

Report Start Date: Jul 1, 2022 12:00 AM
 Report End Date: Sep 30, 2022 11:59 PM
 Location: 5747*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

WO #		Asset ID		Asset Description		Location Description		WorkOrder		PM Schedule		Workorder Details				WorkLog Detail	
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finish					WorkLog Detail
2892483			5747, Powassan WWTL	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 5747	CLOSE	7/1/22 12:00 AM	7/6/22 11:29 AM	7/6/22 11:29 AM					Health And Safety Inspection (1m) 5747 Dan Finnigan conducted the monthly H&S Inspection on July 06, 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 (was not working) 6. Emergency Eyewash (bottles are within use before date) 7. Fire Extinguisher 8. CO Monitor We are still waiting on parts for the emergency lighting.
2892522			5747, Powassan WWTL	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 5747	CLOSE	7/1/22 12:00 AM	7/6/22 11:31 AM	7/6/22 11:31 AM					TPM Inspection/Maintenance (1m) 5747 -Completed by Dan Finnigan on July 06, 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. A mechanic/operator has observed it pumping and will try to adjust the connection to the fittings. 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, 2022 12:00 AM
 Report End Date: Sep 30, 2022 11:59 PM
 Location: 5747*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

WorkOrder		PM Schedule		Workorder Details				WorkLog Detail					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finish	
289527			5747, Powassan WWTL	PM	Inspection	1	MONTHS	Critical Alarm/Dialer Testing (1m) 5747	COMP	7/1/22 12:00 AM	7/27/22 12:43 PM	7/27/22 12:43 PM	5747 -The system experienced an actual high wet well level alarm during a brief rain event on Wednesday July 20, 2022. True Steel notified the operator of the High level alarm. Trending via Outpost was reviewed and showed the level was brought down automatically by the pumps and the alarm was restored.
2895990			5747, Powassan WWTL	OPER	Compliance	1	MONTHS	WISKI Review (1m) 5747	CLOSE	7/1/22 12:00 AM	7/13/22 09:21 AM	7/13/22 09:21 AM	WISKI Review (1m) 5747 -WISKI Review (1m) for the month of June 2022 was completed on July 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.
2933536	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	8/1/22 12:00 AM	8/23/22 11:54 AM	8/23/22 11:54 AM	Diesel Generator Inspection/ Functional Test (1m) 5747 - August 19, 2022. 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= 12.0V Oil Pressure 62 psi Hrs at start: 488.18 Hrs at stop: 488.50

Workorder Summary Report

Report Start Date: Jul 1, 2022 12:00 AM
 Report End Date: Sep 30, 2022 11:59 PM
 Location: 5747*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

WO #		Asset ID		Asset Description		Location Description		WorkOrder		PM Schedule		Workorder Details				WorkLog Detail
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finish	Work Log Detail			
2939890			5747, Powassan WWTL	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 5747	COMP	8/1/22 12:00 AM	8/23/22 11:56 AM	8/23/22 11:56 AM	Health And Safety Inspection (1m) 5747			
2939901			5747, Powassan WWTL	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 5747	COMP	8/1/22 12:00 AM	8/23/22 11:52 AM	8/23/22 11:52 AM	TPM Inspection/Maintenance (1m) 5747			

Dan Finnigan conducted the monthly H&S Inspection on August 19 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 (was not working)
 6. Emergency Eyewash (bottles are within use before date)
 7. Fire Extinguisher
 8. CO Monitor
 A work order will be created to service the emergency lighting kit.

-Completed by Dan Finnigan on August 19, 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.

Workorder Summary Report

Report Start Date: Jul 1, 2022 12:00 AM
 Report End Date: Sep 30, 2022 11:59 PM
 Location: 5747*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

WorkOrder		PM Schedule		Workorder Details				WorkLog Detail					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finish	
2939906			5747, Powassan WWTL	PM	Inspection	1	MONTHS	Critical Alarm/Dialer Testing (1m) 5747	COMP	8/1/22 12:00 AM	8/31/22 09:11 AM	8/31/22 09:11 AM	Critical Alarm/Dialer Testing (1m) 5747 -Conducted by Dan Finnigan on August 29, 2022. 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. This took approximately 10 minutes. The on-call operator received the alarm call-out in less than 5 minutes, 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.
2942715			5747, Powassan WWTL	OPER	Compliance	1	MONTHS	WISKI Review (1m) 5747	COMP	8/1/22 12:00 AM	8/23/22 02:03 PM	8/23/22 02:03 PM	WISKI Review (1m) 5747 -WISKI Review (1m) for the month of July 2022 was completed on August 23, 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: Jul 1, 2022 12:00 AM
 Report End Date: Sep 30, 2022 11:59 PM
 Location: 5747*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

WorkOrder		PM Schedule		Workorder Details				WorkLog Detail					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finish	WorkLog Detail
2979919	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	9/1/22 12:00 AM	9/26/22 10:57 AM	9/26/22 10:57 AM	Diesel Generator Inspection/ Functional Test (1m) 5747 -September 22, 2022. 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=170 Deg.F Battery Voltage= 12.0V Oil Pressure 60 psi Hrs at start: 489.00 Hrs at stop: 489.40
2986739			5747, Powassan WWTL	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 5747	COMP	9/1/22 12:00 AM	9/26/22 10:54 AM	9/26/22 10:54 AM	Health And Safety Inspection (1m) 5747 - Dan Finnigan conducted the monthly H&S Inspection on September 07, 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 (was not working) 6. Emergency Eyewash (bottles are within use before date) 7. Fire Extinguisher 8. CO Monitor A work order will be created to service the emergency lighting kit.

Workorder Summary Report

Report Start Date: Jul 1, 2022 12:00 AM
 Report End Date: Sep 30, 2022 11:59 PM
 Location: 5747*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

WorkOrder		PM Schedule		Workorder Details				WorkLog Detail					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finish	
2986750			5747, Powassan WWTL	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 5747	COMP	9/1/22 12:00 AM	9/26/22 10:52 AM	9/26/22 10:52 AM	TPM Inspection/Maintenance (1m) 5747 -Completed by Dan Finnigan on September 07, 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.
2986755			5747, Powassan WWTL	PM	Inspection	1	MONTHS	Critical Alarm/Dialer Testing (1m) 5747	COMP	9/1/22 12:00 AM	9/26/22 11:00 AM	9/26/22 11:00 AM	Critical Alarm/Dialer Testing (1m) 5747 -Conducted by Dan Finnigan on September 22, 2022. 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. This took approximately 10 minutes. It was verified by True Steel that the alarm condition was met although it should be noted that True Steel failed to call the on-call operator. 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.
2989810			5747, Powassan WWTL	OPER	Compliance	1	MONTHS	WISKI Review (1m) 5747	COMP	9/1/22 12:00 AM	10/5/22 08:11 AM	10/5/22 08:11 AM	WISKI Review (1m) 5747 -WISKI Review (1m) for the month of August 2022 was completed on September 29, 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: Jul 1, 2022 12:00 AM
 Report End Date: Sep 30, 2022 11:59 PM
 Location: 5747*
 Work Order Type: CAP,CORR,OPER,PM
 Work Order Class:

WO #		Asset ID		Asset Description		Location Description		WorkOrder		PM Schedule		Workorder Details				WorkLog Detail
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finish	WorkLog Detail			
3015405			Powassan Wastewater Treatment Lagoon	OPER	Predictive Maintenance	0		Powassan Fall 2022 Lagoon Treatment	COMP		9/28/22 08:13 AM	9/28/22 08:13 AM	Powassan Fall 2022 Lagoon Treatment - treat s cell w 1250g ferric and old w 1000g ferric. Ferric Sulphate Details - KEMIRA PIX-112 BULK 1,566.36 Dry Kg 5,7900 CAD/DKG CN code: 2833290000 Net weight: 12,714,000 KG Gross weight: 12,714,000 KG 12.32 % Fe Delivery no / Date:85692618 / 09/21/2022			



Appendix C - Call-out Report for WTP

Workorder Summary Report

Report Start Date: Jul 1, 2022 12:00 AM
 Report End Date: Sep 30, 2022 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 Finish	WorkLog Detail
296347		6033, Powassan WTP, Facility, Power Distribution	6033, Powassan WTP, Facility, Power Distribution	CALL	Compliance	0		Powassan WS Aux 2 Power Fail Alarm	COMP		8/16/22 04:03 AM	8/16/22 08:00 AM	Powassan WS Aux 2 Power Fail Alarm -Received notification from Telus True Steel re: Aux 2 Power Fail. All trending and pump functions confirmed as normal operations.
2966814		6033, Powassan WTP	6033, Powassan WTP	CALL	Inspection	0		6033 Powassan Well House Auxiliary 3 Alarm	COMP		8/8/22 07:45 PM	8/8/22 09:15 PM	Powassan Well House Auxiliary 3 Alarm - Responded to an Auxiliary 3 Well Pump Failure Alarm. Well Pump 1 in Alarm for Fault 50 Low Control Power and Well Pump 2 in Alarm for Fault 40 Bad SCR. Reset Well Pumps 1 and 2.



Appendix D - Call-out Report for WWTL

Workorder Summary Report

Report Start Date: Jul 1, 2022 12:00 AM
 Report End Date: Sep 30, 2022 11:59 PM
 Location: 5747*
 Work Order Type: CALL,EMER
 Work Order Class:

WorkOrder		PM Schedule		Workorder Details				WorkLog Detail					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finish	
2921652			5747, Powassan WWTL	CALL	Compliance	0		Powassan Sewage Clark Street High Wet Well Level Alarm	COMP		7/20/22 07:42 PM	7/20/22 08:42 PM	Powassan Sewage Clark Street High Wet Well Level Alarm -19:42: Received High Wet well alarm from True Steel. Reviewed weather forecast and Outpost trending. Heavy rain even has subsided and the pumping station pumped down the level quickly. Made annotation into Outpost. No further action required.
3017898			5747, Clark SPS	CALL	Compliance	0		Clark Street Pumping Station High Wet Well alarm	COMP		9/26/22 06:30 PM	9/26/22 11:00 PM	Clark Street Pumping Station High Wet Well alarm -17:40--received High Wet Well Level Alarm from True Steel. Checked forecast: steady rain predicted for the next 1-2 hours. 18:30--Reviewed trending and weather forecast. Will continue to monitor rain event. 19:55--Rain event ending. Wet well level coming down 23:00--Station pumping normally with no overflow.



Appendix E - Performance Assessment Report Water

Powassan Drinking Water System
Performance Assessment Report Water

Report extracted 10/27/2022 11:54

From: 01/07/2022 to 30/09/2022

Facility: [6033] POWASSAN DRINKING WATER SYSTEM

Works: [220000576]

Flows:	07/2022	08/2022	09/2022	<--Total-->	<--Avg-->	<--Max-->	<--Min-->
Raw Flow: Monthly Total - Raw Well 1 (m³)	6295.04	6045.45	5859.83	18200.32			
Raw Flow: Monthly Total - Raw Well 2 (m³)	5639.08	5793.08	5824.91	17257.07			
Raw Flow: Monthly Avg - Raw Well 1 (m³/d)	203.07	195.01	195.33	197.8			
Raw Flow: Monthly Avg - Raw Well 2 (m³/d)	181.91	186.87	194.16	187.65			
Raw Flow: Monthly Max - Raw Well 1 (m³/d)	277.62	257.91	274.6				
Raw Flow: Monthly Max - Raw Well 2 (m³/d)	244.03	285.71	311.1				
Raw Flow: Monthly Total - Raw Water - Total (m³)	11934.12	11838.53	11694.74	35457.39			
Raw Flow: Monthly Avg - Raw Water - Total (m³/d)	384.97	381.89	389.49	385.45			
Raw Flow: Monthly Max - Raw Water - Total (m³/d)	489.96	486.71	473.69				
Turbidity:							
Raw: Max Turbidity - Raw Well 1 (NTU)	0.13	0.12	0.13				
Raw: Max Turbidity - Raw Well 2 (NTU)	0.14	0.1	0.13				
Chemical Parameters:							
Treated: Max Nitrite - TW1 (mg/L)	<						
Treated: Max Nitrate - TW1 (mg/L)	1.11						
Distribution: Max THM - Distribution (µg/l)	9.1						
Chlorine Residuals:							
Treated: Min Free Cl2 Resid - Treated Water (mg/L)	0.973	1.317	1.339				
Treated: Max Free Cl2 Resid - Treated Water (mg/L)	2.728	2.791	2.836				
Dist: Min Free Cl2 Resid - Distribution (mg/L)	1.28	1.32	1.33				
Dist: Max Free Cl2 Resid - Distribution (mg/L)	1.85	2.14	1.81				
Bactl Samples Collected:							
Raw Bactl: # of samples - Raw Well 1	4	5	4	13			
Raw Bactl: # of samples - Raw Well 2	4	5	4	13			
Treated Bactl: # of samples - TW1	3	2	1	6			
Treated Bactl: # of samples - TW2	1	3	3	7			
Dist Bactl: # of samples - Distribution	12	15	12	39			
Treated Bactl: # of TC exceedances - TW1	0	0	0	0			
Treated Bactl: # of TC exceedances - TW2	0	0	0	0			
Treated Bactl: # of EC exceedances - TW1	0	0	0	0			
Treated Bactl: # of EC exceedances - TW2	0	0	0	0			
Dist Bactl: # of TC exceedances - Distribution	0	0	0	0			
Dist Bactl: # of EC exceedances - Distribution	0	0	0	0			



Appendix F – Performance Assessment Report Wastewater

Powassan Wastewater Treatment Lagoon
Performance Assessment Report Wastewater/Lagoon

Report extracted 10/27/2022 12:00

From: 01/07/2022 to 30/09/2022

Facility: [5747] POWASSAN WASTEWATER TREATMENT LAGOON

Works: [110000613]

Flows:	07/2022	08/2022	09/2022	<--Total-->	<--Avg-->	<--Max-->
Raw Flow: Total - Raw (m³)	12765.50	10897.60	12340.30	36003.40		
Raw Flow: Total - St Gregory (m³)	543.30	296.70	433.20	1273.20		
Raw Flow: Total - Clark Street (m³)	12222.20	10600.90	11907.10	34730.20		
Raw Flow: Avg - Raw (m³/d)	411.79	351.54	411.34	391.56		
Raw Flow: Avg - St Gregory (m³/d)	17.53	9.57	14.44	13.85		
Raw Flow: Avg - Clark Street (m³/d)	394.26	341.96	396.90	377.71		1026.40
Raw Flow: Max - Raw (m³/d)	632.50	444.90	1026.40			141.00
Raw Flow: Max - St Gregory (m³/d)	141.00	17.50	35.30			141.00
Raw Flow: Max - Clark Street (m³/d)	616.80	435.10	991.10			991.10
Carbonaceous Biochemical Oxygen Demand: CBOD:						
Biochemical Oxygen Demand: BOD5:						
Raw: Avg BOD5 - Raw (mg/L)	185.000	286.000	238.000	236.333		286.000
Raw: # of samples of BOD5 - Raw (mg/L)	1	1	1	3		
Total Suspended Solids: TSS:						
Raw: Avg TSS - Raw (mg/L)	511.000	313.000	245.000	356.333		511.000
Raw: # of samples of TSS - Raw (mg/L)	1	1	1	3		
Total Phosphorus: TP:						
Raw: Avg TP - Raw (mg/L)	4.100	6.500	4.940	5.180		6.500
Raw: # of samples of TP - Raw (mg/L)	1	1	1	3		
Nitrogen Series:						
Raw: Avg TKN - Raw (mg/L)	40.500	52.500	28.800	40.600		52.500
Raw: # of samples of TKN - Raw (mg/L)	1	1	1	3		