

SYSTEM OVERVIEW

April 1st to June 30th , 2022

OPERATIONAL HIGHLIGHTS

Drinking Water System

- The water treatment system operated well during the second quarter.
- May 9, 2022 - Service curb stop and pipe replacement at 1276 Mill St.. Air gap created and maintained throughout the installation. Pipe and repair parts disinfected. Followed by post repair flushing from Mill & West St. Free chlorine residual = 0.48 mg/L. OIC - Jim Aucoin.
- May 9, 2022 - Service copper corporation stop replaced at 350 7th St. due to deterioration. Air gap created and maintained throughout the installation. Pipe and repair parts disinfected. Followed by post repair flushing at 350 7th St. Free chlorine residual = 0.79 mg/L. Service turned off at 0905 and restored at 1215. OIC - Fraser Bartlett.
- Work with TrojanUV for building the replacement units. Provided info on electrical supply, transformers, SCADA/PLC controls and valves.
- June 13, 2022 - 4 inch cast iron circumferential break at 450 Ottawa, repaired using clamp. Air gap created and maintained throughout the installation. Pipe and repair parts disinfected. Followed by post repair flushing from Ottawa St. Free chlorine residual = 0.68 mg/L. OIC - Jim Aucoin.
- June 22, 2022 - Service valve replacement at 1276 Mill St. Air gap created and maintained throughout the installation. Pipe and repair parts disinfected. Followed by post repair flushing from West & Mill St. Free chlorine residual = 0.63 mg/L. OIC - Jim Aucoin.

Wastewater Treatment

- The wastewater treatment system performed well during the second quarter.
- 451 Bissett St sewage station pump failure. Requires impellor replacement.

CAPITAL PLAN PROGRESS

Drinking Water System

- Further troubleshooting to bring UV#1 back online failed. In the process of attempting to bring it online, the TrojanUV Optiview unit failed. This failure caused a brief non-compliance issue for failing to provide UVT readings every 5 minutes. It was determined that the Optiview had an internal battery failure. The battery was bypassed while a replacement is on order. The Optiview is back online.
- Repaired plumbing leak at wellhouse.

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 second quarter of 2022 and all results fell within regulatory limits.
- Winter term lead, pH and alkalinity sampling completed April 13, 2022.
- Quarterly trihalomethanes (THM), haloacetic acids (HAA), Nitrate and Nitrite sampling completed April 27, 2022.
- UV Transmittance Analyzer failure during plant operation on April 27 @ 1252 and issue is ongoing. UV transmittance analyzer failure on April 27. Operator needed to get plant going to supply consumers at 1252 on April 27. Plant has been operating since then without online UVT readings due to Optiview failure. MDWL requires UVT readings every five minutes while plant operational. Handheld UVT taken at start of plant operation with result of 99.7%. UV intensity and plant running normally while UVT analyzer out of service. Operator taking handheld readings for UVT while on site; however, is not possible to get readings every five minutes for entire plant run. Stroma contacted to make immediate site visit to troubleshoot and try to fix Optiview. Emailed non-compliance form to Lori Duquette at 1335 on April 27, 2022. Stroma onsite, discovered issue with internal battery on Optiview. Issue was corrected and Optiview back online at 1627 on April 27. The plant ran from 1251 to 1540 with the Optiview offline. Manual UVT samples @ 1259 = 99.7% and @ 1522 = 99.6%. Emailed updated non-compliance form to Erin Spires.
- Off-site external S2-Surveillance audit completed June 17, 2022, there were no findings identified.
- No Ministry of the Environment, Conservation and Parks (MECP) or Ministry of Labour (MOL) inspections conducted this quarter. However, previous MECP inspection rating 98.95%.
- Flow meter verifications completed.
- All required sewage samples required under the system's ECA collected and tested in the second quarter of 2022.
- Flow meter verification completed.

INCIDENTS AND COMPLAINTS

Mattawa Drinking Water System

Incident	N/A
Date	
Details	

Mattawa Wastewater System

Incident	N/A
Date	
Details	

HEALTH AND SAFETY

- Staff training completed on Emergency Showers and Eyewash Stations.
- Staff training completed on Ladder Safety.
- Annual health and safety inspections completed.
- Staff training completed on FEP Binder.

MATTAWA DRINKING WATER SYSTEM PERFORMANCE

See Appendix E – Performance Assessment Report Water

MATTAWA WASTEWATER TREATMENT LAGOON – WASTEWATER FLOW SUMMARY

See Appendix F – Performance Assessment Report Wastewater



Ontario Clean Water Agency
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MATTAWA WATER & WASTEWATER SYSTEMS

QUARTERLY OPERATIONS REPORT

Appendix A - Work Order Summary for WTP

Workorder Summary Report

Report Start Date: Apr 1, 2022 12:00 AM

Report End Date: Jun 30, 2022 11:59 PM

Location: 1517*

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
2754787	0000328763	ANALYZER TURBIDITY PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Turbidity Analyzer Calibration (1m) 1517	COMP	4/1/22 12:00 AM	7/15/22 12:51 PM	7/15/22 12:51 PM	
2754792	0000328760	GENERATOR ELECTRIC DIESEL	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1517	COMP	4/1/22 12:00 AM	7/15/22 12:51 PM	7/15/22 12:51 PM	
2754795	0000328770	UV LIGHT REACTOR #1	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#1) (1m / 1y) 1517	COMP	4/1/22 12:00 AM	7/15/22 12:50 PM	7/15/22 12:50 PM	
2754798	0000328771	UV LIGHT REACTOR #2	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#2) (1m / 1y) 1517	COMP	4/1/22 12:00 AM	7/15/22 12:51 PM	7/15/22 12:51 PM	
2754801	0000328765	ANALYZER CHLORINE UNIT #3 PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Portable chlorine Analyzer #3 Calibration (1m) 1517	COMP	4/1/22 12:00 AM	7/15/22 12:46 PM	7/15/22 12:46 PM	
2754858			1517, Mattawa DWS	PM	Inspection	3	MONTHS	Replace UV Air Filters 1517	COMP	4/1/22 12:00 AM	7/15/22 12:52 PM	7/15/22 12:52 PM	
2754866	0000328767	ANALYZER UV PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	UVT Analyzer calibration to yellow box (1m) 1517	COMP	4/1/22 12:00 AM	7/15/22 12:52 PM	7/15/22 12:52 PM	
2754887			1517, Mattawa DWS	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1517	COMP	4/1/22 12:00 AM	7/14/22 10:22 AM	7/14/22 10:22 AM	
2754896			1517, Mattawa DWS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1517	COMP	4/1/22 12:00 AM	7/14/22 10:22 AM	7/14/22 10:22 AM	
2754909	0000328800	TANK STORAGE SODIUM HYPO	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Holding Sodium Hypo Inspection/Maintenance (1y) 1517	COMP	4/1/22 12:00 AM	7/14/22 10:23 AM	7/14/22 10:23 AM	
2754913	0000328758	VALVE REGULATING	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Valve Regulating Inspection (1m) 1517	COMP	4/1/22 12:00 AM	7/15/22 12:52 PM	7/15/22 12:52 PM	
2755086			1517, Mattawa DWS	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 1517	COMP	4/1/22 12:00 AM	7/15/22 12:54 PM	7/15/22 12:54 PM	
2772710			1517, Mattawa DWS	OPER	Calibration	0		Mattawa Annual Flow Meter Verifications PO	COMP		7/15/22 12:56 PM	7/15/22 12:56 PM	Mattawa Annual Flow Meter Verifications PO - Mattawa flow meter verification by Marsh instrumentation. Flow meter verification - Marsh completed on April 29/22
2774524	0000328804	ANALYZER CHLORINE / PH AIT 102	1517, Mattawa DWS	PM	Inspection	3	MONTHS	PH Analyzer Calibration (3m) 1517	COMP	4/13/22 12:00 AM	7/15/22 12:56 PM	7/15/22 12:56 PM	
2774527			1517, Mattawa DWS	PM	Inspection	3	MONTHS	PH Analyzer Calibration (POE) (3m) 1517	COMP	4/13/22 12:00 AM	7/15/22 12:56 PM	7/15/22 12:56 PM	

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Work Order Type: CAP,CORR,OPER,PM

Work Order Class:

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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
2802445	0000328787	ANALYZER UV TRANSMITTANCE	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	3	MONTHS	UV Transmitter Optiview calibration (3m) 1517	COMP	5/1/22 12:00 AM	7/15/22 12:57 PM	7/15/22 12:57 PM	
2802456	0000328763	ANALYZER TURBIDITY PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Turbidity Analyzer Calibration (1m) 1517	COMP	5/1/22 12:00 AM	7/15/22 12:57 PM	7/15/22 12:57 PM	
2802461	0000328760	GENERATOR ELECTRIC DIESEL	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1517	COMP	5/1/22 12:00 AM	7/15/22 12:57 PM	7/15/22 12:57 PM	
2802464	0000328770	UV LIGHT REACTOR #1	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#1) (1m / 1y) 1517	COMP	5/1/22 12:00 AM	7/15/22 12:57 PM	7/15/22 12:57 PM	
2802467	0000328771	UV LIGHT REACTOR #2	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#2) (1m / 1y) 1517	COMP	5/1/22 12:00 AM	7/15/22 12:58 PM	7/15/22 12:58 PM	
2802470	0000328765	ANALYZER CHLORINE UNIT #3 PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Portable chlorine Analyzer #3 Calibration (1m) 1517	COMP	5/1/22 12:00 AM	7/15/22 12:58 PM	7/15/22 12:58 PM	
2802513	0000328767	ANALYZER UV PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	UVT Analyzer calibration to yellow box (1m) 1517	COMP	5/1/22 12:00 AM	7/15/22 12:58 PM	7/15/22 12:58 PM	
2802534			1517, Mattawa DWS	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1517	COMP	5/1/22 12:00 AM	7/15/22 12:58 PM	7/15/22 12:58 PM	
2802543			1517, Mattawa DWS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1517	COMP	5/1/22 12:00 AM	7/15/22 12:58 PM	7/15/22 12:58 PM	
2802556	0000328758	VALVE REGULATING	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Valve Regulating Inspection (1m) 1517	COMP	5/1/22 12:00 AM	7/15/22 12:59 PM	7/15/22 12:59 PM	
2802561	0000328753	WELL PRODUCING #1	1517, Mattawa DWS	PM	Inspection	1	YEARS	Well Producing (1y / 10y) Inspection 1517	COMP	5/1/22 12:00 AM	7/15/22 01:01 PM	7/15/22 01:01 PM	Well Producing (1y / 10y) Inspection 1517 - Yearly inspection of well head and pumps completed July 13/22. All ok no issues found
2802713			1517, Mattawa DWS	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 1517	COMP	5/1/22 12:00 AM	7/15/22 01:04 PM	7/15/22 01:04 PM	
2824656			1517, Mattawa DWS	CAP	Refurbish/ Replace/Repair	0		Plumbing Leak Repair	COMP		5/30/22 08:26 AM	5/30/22 08:26 AM	Plumbing Leak Repair - At this time we had to empty pipe then I cut 2" line, I replaced a section of 3/4" pipe then used a coupling to re-attach the 2" line.
2851443	0000328763	ANALYZER TURBIDITY PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Turbidity Analyzer Calibration (1m) 1517	COMP	6/1/22 12:00 AM	7/15/22 01:05 PM	7/15/22 01:05 PM	

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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
2851448	0000328760	GENERATOR ELECTRIC DIESEL	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1517	COMP	6/1/22 12:00 AM	7/14/22 10:25 AM	7/14/22 10:25 AM	
2851451	0000328770	UV LIGHT REACTOR #1	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#1) (1m / 1y) 1517	COMP	6/1/22 12:00 AM	7/15/22 01:06 PM	7/15/22 01:06 PM	
2851454	0000328771	UV LIGHT REACTOR #2	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#2) (1m / 1y) 1517	COMP	6/1/22 12:00 AM	7/15/22 01:06 PM	7/15/22 01:06 PM	
2851457	0000328765	ANALYZER CHLORINE UNIT #3 PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Portable chlorine Analyzer #3 Calibration (1m) 1517	COMP	6/1/22 12:00 AM	7/15/22 01:06 PM	7/15/22 01:06 PM	
2851506	0000328767	ANALYZER UV PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	UVT Analyzer calibration to yellow box (1m) 1517	COMP	6/1/22 12:00 AM	7/15/22 01:07 PM	7/15/22 01:07 PM	
2851527			1517, Mattawa DWS	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1517	COMP	6/1/22 12:00 AM	7/15/22 01:07 PM	7/15/22 01:07 PM	
2851536			1517, Mattawa DWS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1517	COMP	6/1/22 12:00 AM	7/14/22 10:25 AM	7/14/22 10:25 AM	
2851549	0000328758	VALVE REGULATING	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Valve Regulating Inspection (1m) 1517	COMP	6/1/22 12:00 AM	7/15/22 01:07 PM	7/15/22 01:07 PM	
2851666			1517, Mattawa DWS	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 1517	COMP	6/1/22 12:00 AM	7/15/22 01:08 PM	7/15/22 01:08 PM	



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MATTAWA WATER & WASTEWATER SYSTEMS QUARTERLY OPERATIONS REPORT

Appendix B - Work Order Summary for WWTL

Workorder Summary Report

Report Start Date: Apr 1, 2022 12:00 AM

Report End Date: Jun 30, 2022 11:59 PM

Location: 1541*

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
2754936			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	COMP	4/1/22 12:00 AM	7/14/22 10:38 AM	7/14/22 10:38 AM	
2754943			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	COMP	4/1/22 12:00 AM	7/14/22 10:38 AM	7/14/22 10:38 AM	
2754955	0000328876	TANK STORAGE FUEL LAGOON	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Storage Fuel Diesel Lagoon Insp/Service (1y) 1541	COMP	4/1/22 12:00 AM	7/15/22 12:53 PM	7/15/22 12:53 PM	- Checked monthly for leaks, while doing safety checks
2754963	0000328903	TANK STORAGE FUEL LAGOON	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Storage Fuel Diesel Lagoon Insp/Service (1y) 1541	COMP	4/1/22 12:00 AM	7/15/22 12:54 PM	7/15/22 12:54 PM	- Checked monthly for leaks, while doing safety checks, No leaks found
2754971	0000328838	TANK STORAGE FUEL 601 MCKENZIE ST.	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Storage Fuel Diesel Mckenzie St. Insp/Service (1y) 1541	COMP	4/1/22 12:00 AM	7/15/22 12:54 PM	7/15/22 12:54 PM	- Checked monthly for leaks, while doing safety checks, No leaks found
2759893			1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	COMP	4/1/22 12:00 AM	7/14/22 10:30 AM	7/14/22 10:30 AM	
2775247	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	COMP	4/16/22 12:00 AM	7/14/22 10:30 AM	7/14/22 10:30 AM	
2777738			1541, Mattawa Wastewater System	CORR	Refurbish/ Replace/Repair	0		Alum order Mattawa Lagoons-1541	COMP		6/6/22 03:38 PM	6/6/22 03:38 PM	Alum order Mattawa Lagoons - KEMIRA ALS BULK 25,010.000 KG 386.0000 CN code: 2833220000 Net weight: 25,010.000 KG 55,137.657 LB Gross weight: 25,010.000 KG 55,137.657 LB Delivery no / Date:85571343 / 05/04/2022 UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Aluminium sulphate), 8, PGIII, RQ
2802585			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	COMP	5/1/22 12:00 AM	7/14/22 10:29 AM	7/14/22 10:29 AM	
2802592			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	COMP	5/1/22 12:00 AM	7/14/22 10:31 AM	7/14/22 10:31 AM	
2802603	0000328912	TANK PROCESS WET WELL 300 MATTAWAN ST.	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Wet well 300 Mattawan St. Insp/Service (1y) - 1541	COMP	5/1/22 12:00 AM	7/15/22 01:00 PM	7/15/22 01:00 PM	- Wetwell inspections done on a weekly basis, no current issues found

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				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
2802612	0000328922	TANK PROCESS WET WELL 101 BISSETT ST.	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Wet well 101 Bissett St. Insp/ Service (1y) - 1541	COMP	5/1/22 12:00 AM	7/15/22 01:00 PM	7/15/22 01:00 PM	- Wetwell inspections done on a weekly basis, no current issues found
2802621	0000328919	TANK PROCESS WET WELL 200 BROOK ST.	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Wet well 200 Brook St. Insp/ Service (1y) - 1541	COMP	5/1/22 12:00 AM	7/15/22 01:00 PM	7/15/22 01:00 PM	- Wetwell inspections done on a weekly basis, no current issues found
2802631	0000328916	TANK PROCESS WET WELL 300 LOUIS ST.	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Wet well 300 Louis St. Insp/ Service (1y) - 1541	COMP	5/1/22 12:00 AM	7/15/22 01:02 PM	7/15/22 01:02 PM	- Wet well inspection is done weekly, No current issues found
2802640	0000328832	TANK PROCESS WET WELL 451 BISSETT ST.	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Wet well 451 Bissett St. Insp/ Service (1y) - 1541	COMP	5/1/22 12:00 AM	7/15/22 01:03 PM	7/15/22 01:03 PM	- Wet well inspection is done weekly, No current issues found
2802657	0000328850	TANK PROCESS WET WELL 601 MCKENZIE ST.	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Wet well 601 Mckenzie St. Insp/Service (1y) - 1541	COMP	5/1/22 12:00 AM	7/15/22 01:03 PM	7/15/22 01:03 PM	- Wet well inspection is done weekly, No current issues found
2802666	0000328897	TANK PROCESS WET WELL 1101 BISSETT ST.	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Wet well 1101 Bissett St. Insp/ Service (1y) - 1541	COMP	5/1/22 12:00 AM	7/15/22 01:04 PM	7/15/22 01:04 PM	- Wet well inspection is done weekly, No current issues found
2806230			1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	COMP	5/1/22 12:00 AM	7/14/22 10:31 AM	7/14/22 10:31 AM	
2818142			1541, Mattawa Wastewater System	CAP	Refurbish/ Replace/Repair	0		Mattawa Flygt Pump Repair: 451 Bissett St	COMP		5/12/22 10:36 AM	5/12/22 10:36 AM	Flygt Pump Repair - Product Number: 3300.181-5154 88HP Serial Number: 3300.181-9240025 Part No 481 72 22 IMPELLER 467
2818306	0000328874	GENERATOR ELECTRIC DIESEL BACKUP POWER	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	5/4/22 12:00 AM	7/14/22 10:39 AM	7/14/22 10:39 AM	
2818309	0000328842	GENERATOR ELECTRIC DIESEL 601 MCKENZIE ST.	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	5/4/22 12:00 AM	7/14/22 10:39 AM	7/14/22 10:39 AM	
2818312	0000328901	GENERATOR ELECTRIC DIESEL	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	5/4/22 12:00 AM	7/14/22 10:40 AM	7/14/22 10:40 AM	

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				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
2821419	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	COMP	5/16/22 12:00 AM	7/14/22 10:32 AM	7/14/22 10:32 AM	
2851554	0000328859	ANALYZER GAS BUMP TEST	1541, Mattawa Wastewater System	PM	Calibration	6	MONTHS	Analyzer Gas C02 (6m) 1541	COMP	6/1/22 12:00 AM	7/15/22 01:08 PM	7/15/22 01:08 PM	- Bump to/Calibration as needed prior to use
2851574			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	COMP	6/1/22 12:00 AM	7/14/22 10:33 AM	7/14/22 10:33 AM	
2851581			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	COMP	6/1/22 12:00 AM	7/14/22 10:32 AM	7/14/22 10:32 AM	
2851592			1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Process Lagoon Cells Insp/ Service (1y) - 1541	COMP	6/1/22 12:00 AM	7/14/22 10:33 AM	7/14/22 10:33 AM	
2851604	0000328858	TANK STORAGE HOT WATER	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Hot Water Insp. (1y) - 1541	COMP	6/1/22 12:00 AM	7/14/22 10:34 AM	7/14/22 10:34 AM	
2855595			1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	COMP	6/1/22 12:00 AM	7/14/22 10:34 AM	7/14/22 10:34 AM	
2870829	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	COMP	6/16/22 12:00 AM	7/14/22 10:33 AM	7/14/22 10:33 AM	



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MATTAWA WATER & WASTEWATER SYSTEMS

QUARTERLY OPERATIONS REPORT

Appendix C - Call-out Report for WTP

Workorder Summary Report

Report Start Date: Apr 1, 2022 12:00 AM

Report End Date: Jun 30, 2022 11:59 PM

Location: 1517*

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
2773130	0000328787	ANALYZER UV TRANSMITTANCE	1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		PLC Fail alarm- Low UVT- 1517	CLOSE		4/6/22 01:11 AM	4/7/22 09:56 AM	PLC fail- Optiview low alarm -Found optiview to be reading different from scada computer. Cleaned and ran calibration on optiview.
2774209			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Chlorine pump alarm	COMP		4/9/22 04:00 PM	4/9/22 06:15 PM	Chlorine pump alarm -Received call from TrueSteel regarding chlorine pump #1 & #2 failure. Arrived onsite and reset both chemical pumps and sure feed. Cleared alarms on Trojan panel and switched duty back to UV#2. Cleared alarms and plant started fine. Monitored for 20 minutes, all equipment working fine.
2777384	0000328787	ANALYZER UV TRANSMITTANCE	1517, Mattawa DWS	EMER	Compliance	0		Optiview failure 1517	COMP		4/27/22 04:23 PM	5/3/22 10:08 AM	Optiview failure 1517 - Trojan UV Optiview failed. Required service technician to troubleshoot. Determined internal battery had failed. Battery was disconnected and the fault was cleared to return to normal operations. A replacement battery may be required. Used by the Optiview to keep time and date information.
2818105	0000328803	PANEL CONTROL CP-1 CHEMICAL FEED	1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Chemical Pump Fail-1517	COMP		4/25/22 05:45 AM	4/25/22 07:30 AM	Chemical Pump Fail-1517 - On-site for chemical pump fail. Found pump 1 &2. To be air locked. Cleared air reset pumps. And plant auto started
2818115			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Low Chlorine Alarm-1517	COMP		4/23/22 01:15 PM	4/23/22 05:15 PM	

Workorder Summary Report

Report Start Date: Apr 1, 2022 12:00 AM

Report End Date: Jun 30, 2022 11:59 PM

Location: 1517*

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
2820012			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Low Chlorine Alarm	COMP		5/7/22 06:15 AM	5/7/22 08:45 AM	Low Chlorine Alarm - Received call for low chlorine at Mattawa Water Plant. Arrived on site to find chlorine pump #1 was in alarm. Switched duty pump to #2 and started plant. Investigated pump #1 and seems like air in system. Purged air and put back into service (as back up to duty #2).

Workorder Summary Report

Report Start Date: Apr 1, 2022 12:00 AM

Report End Date: Jun 30, 2022 11:59 PM

Location: 1517*

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
2823588			1517, Mattawa DWS	CALL	Compliance	0		Mattawa WTP UV Fail and low reservoir alarm	COMP		5/22/22 01:30 PM	5/22/22 04:00 PM	Mattawa WTP UV Fail and low reservoir alarm - 13:10--received call from Curtis Green that UV2 had failed again and reservoir was getting critically low. 13:30--Sign into respond to UV two alarm and low reservoir alarm. UV2 in low UV dose alarm. Reviewed trending on SCADA, no low UV less than 40 mJ/cm2 recorded. Reset alarm on UV2 HMI. Cooling cycle started and UV2 starting. 13:40--UV2 shutting down due to Pump 2 out of service and pump 1 in Hand. Put pump 2 in Auto and attempt to restart plant. Tripped out on Ballast failure. 14:03--UV2 Shut down on low uv dose. Reviewed trending and dosage did not fall below 45 mJ/cm2. 14:35--Reduced low UV alarm setpoint on UV2 HMI from 48 down to 42 mJ/cm2. 14:36--Reset duty UV to UV2 and warm up cycle was initiated. 14:46--UV2 running with Pump 2 at approximately 46 mJ/cm2. Reservoir at 0.30 meters and filling. 15:18--Increased pump start level from 1.70 meters up to 2.00 meters and increased low reservoir level alarm from 1.30 meters up to 1.90 meters.

Workorder Summary Report

Report Start Date: Apr 1, 2022 12:00 AM

Report End Date: Jun 30, 2022 11:59 PM

Location: 1517*

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
													Mattawa WTP UV Fail and low reservoir alarm - Received call from truesteel at 08:00 for critical UV alarm. Logged in remotely and found that UV failed shortly after plant startup. Called Don Michaud and asked him to stop by the plant and investigate/reset alarm. Don acknowledged alarm and started plant back up, which ran for nearly an hour. Received another call from truesteel at 10:30. Logged in remotely and found plant was off again. Contacted Dan Finnigan and asked to acknowledge alarm again and investigate. Dan lowered dosage alarm setpoint and started plant again. I monitored facility remotely until the reservoir reached 3.0 meters.
2916797			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Low Reservoir-1517	COMP		6/28/22 09:15 PM	6/28/22 11:30 PM	Low Reservoir-1517 - Called for low water pressure, could not remotely acces the plant. Arrived at 2145, found dist pressure at 22.6 psi, plant not running and in plc fail alarm lockout. Found no issues. Cleared alarms and started plant on p2. Started p1 at 2205. All seems ok. No further issues



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MATTAWA WATER & WASTEWATER SYSTEMS

QUARTERLY OPERATIONS REPORT

Appendix D - Call-out Report for WWTL

Workorder Summary Report

Report Start Date: Apr 1, 2022 12:00 AM

Report End Date: Jun 30, 2022 11:59 PM

Location: 1541*

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
2777182			1541, Mattawa Wastewater System	CALL	Inspection	0		Sewer backup @ 1025 Lily St	COMP		4/22/22 05:45 PM	4/22/22 07:45 PM	Sewer backup @ 1025 Lily St - Received call for possible sewer backup at 1025 Lily Street. Arrived on site and checked 3 manholes in area, both upstream and downstream. Flow was not restricted on any part of the main that was observed. Informed resident that blockage must be between house and street and next step for them would be to call a plumber.
2872272			1541, Mattawa Wastewater System	CALL	Refurbish/ Replace/Repair	0		Pump fault at 451 Bissette	COMP		6/20/22 05:45 PM	6/20/22 08:15 PM	Pump fault at 451 Bissette -Received call from Josh D regarding pump fault at 451 Bissette. Left for site. Pump 2 tripped out on thermal fault. Cleared alarm and put pump back into service. Watched a full cycle, pump 2 ran during normal cycle without issues. Both pumps on auto and left site



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MATTAWA WATER & WASTEWATER SYSTEMS QUARTERLY OPERATIONS REPORT

Appendix E - Performance Assessment Report Water

**Mattawa Drinking Water System
Performance Assessment Report Water**

Report extracted 08/12/2022 14:47

01/04/2022 to 30/06/2022

Facility: [1517] MATTAWA DRINKING WATER SYSTEM

Works: [210001905]

	04/2022	05/2022	06/2022	<--Total-->	<--Avg.-->	<--Max.-->	<--Min.-->
Flows:							
Raw Flow: Monthly Total - Well #1 (m³)	33554.85	40526.86	40229.89	114311.6			
Raw Flow: Monthly Total - Well #2 (m³)	5795.47	5488.8	8280.93	19565.2			
Raw Flow: Monthly Avg - Well #1 (m³/d)	1118.49	1307.32	1341		1255.6		
Raw Flow: Monthly Avg - Well #2 (m³/d)	193.18	177.06	276.03		215.42		
Raw Flow: Monthly Max - Well #1 (m³/d)	1303.43	1468.15	1702.53			1702.53	
Raw Flow: Monthly Max - Well #2 (m³/d)	431.13	431.91	436.29			436.29	
Raw Flow: Monthly Total - Raw Water - Total (m³)	39350.32	46015.66	48510.82	133876.8			
Raw Flow: Monthly Avg - Raw Water - Total (m³/d)	1311.68	1484.38	1617.03		1471.03		
Raw Flow: Monthly Max - Raw Water - Total (m³/d)	1610.34	1735.13	1976.93			1976.93	
Turbidity:							
Raw: Max Turbidity - Well #1 (NTU)	0.3	0.27	0.26			0.3	
Raw: Max Turbidity - Well #2 (NTU)	0.31	0.31	0.29			0.31	
Chemical Parameters:							
Treated: Max Nitrite - TW (mg/L)	< 0.05					< 0.05	
Treated: Max Nitrate - TW (mg/L)	2.1					2.1	
Distribution: Max THM - DW (µg/l)	< 2					< 2	
Chlorine Residuals:							
Treated: Min Free Cl2 Resid - TW (mg/L)	0.027	0.061	0.198				0.027
Treated: Max Free Cl2 Resid - TW (mg/L)	4.119	4.119	4.119			4.119	
Dist: Min Free Cl2 Resid - DW (mg/L)	0.137	0.127	0.711				0.127
Dist: Max Free Cl2 Resid - DW (mg/L)	1.778	1.879	2.227			2.227	
Bacti Samples Collected:							
Raw Bacti: # of samples - Well #1	4	4	5	13			
Raw Bacti: # of samples - Well #2	4	4	5	13			
Treated Bacti: # of samples - TW	4	4	5	13			
Dist Bacti: # of samples - DW	12	12	15	39			
Treated Bacti: # of TC exceedances - TW	0	0	0	0			
Treated Bacti: # of EC exceedances - TW	0	0	0	0			
Dist Bacti: # of TC exceedances - DW	0	0	0	0			
Dist Bacti: # of EC exceedances - DW	0	0	0	0			



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MATTAWA WATER & WASTEWATER SYSTEMS

QUARTERLY OPERATIONS REPORT

Appendix F - Performance Assessment Report Wastewater

**Mattawa Wastewater Treatment Lagoon
Performance Assessment Report Wastewater/Lagoon**

Report extracted 08/11/2022 11:45

01/04/2022 to 30/06/2022

Facility: [1541] MATTAWA WASTEWATER TREATMENT FACILITY

Works: [110000436]

	04/2022	05/2022	06/2022	<--Total-->	<--Avg.-->	<--Max.-->
Flows:						
Raw Flow: Total - Raw (m³)	33197.00	31426.00	28245.00	92868.00		
Raw Flow: Avg - Raw (m³/d)	1106.57	1013.74	941.50		1020.60	
Raw Flow: Max - Raw (m³/d)	1348.00	1333.00	1104.00			1348.00
Eff. Flow: Total - Eff (m³)	33197.00	31426.00	28245.00	92868.00		
Eff. Flow: Avg - Eff (m³/d)	1106.57	1013.74	941.50		1020.60	
Eff. Flow: Max - Eff (m³/d)	1348.00	1333.00	1104.00			1348.00
Carbonaceous Biochemical Oxygen Demand: CBOD:						
Eff: Avg cBOD5 - Eff (mg/L)	11.900	11.300	6.100		9.767	11.900
Eff: # of samples of cBOD5 - Eff (mg/L)	1	1	1	3		
Loading: cBOD5 - Eff (kg/d)	13.168	11.455	5.743		10.122	13.168
Biochemical Oxygen Demand: BOD5:						
Raw: Avg BOD5 - Raw (mg/L)	97.600	71.700	78.400		82.567	97.600
Raw: # of samples of BOD5 - Raw (mg/L)	1	1	1	3		
Eff: Avg BOD5 - Eff (mg/L)	12.600	14.300	6.200		11.033	14.300
Eff: # of samples of BOD5 - Eff (mg/L)	1	1	1	3		
Loading: BOD5 - Eff (kg/d)	13.943	14.497	5.837		11.426	14.497
Percent Removal: BOD5 - Raw (mg/L)	0.000	0.000	0.000			0.000
Total Suspended Solids: TSS:						
Raw: Avg TSS - Raw (mg/L)	106.000	158.000	191.000		151.667	191.000
Raw: # of samples of TSS - Raw (mg/L)	1	1	1	3		
Eff: Avg TSS - Eff (mg/L)	33.300	21.400	8.500		21.067	33.300
Eff: # of samples of TSS - Eff (mg/L)	1	1	1	3		
Loading: TSS - Eff (kg/d)	36.849	21.694	8.003		22.182	36.849
Percent Removal: TSS - Raw (mg/L)	0.000	0.000	0.000			0.000
Total Phosphorus: TP:						
Raw: Avg TP - Raw (mg/L)	2.440	2.670	3.130		2.747	3.130
Raw: # of samples of TP - Raw (mg/L)	1	1	1	3		
Eff: Avg TP - Eff (mg/L)	1.465	1.300	1.488		1.418	1.488
Eff: # of samples of TP - Eff (mg/L)	4	4	5	13		
Loading: TP - Eff (kg/d)	1.804	1.419	1.431		1.551	1.804
Percent Removal: TP - Raw (mg/L)	0.000	0.000	0.000			0.000
Nitrogen Series:						
Eff: Avg TAN - Eff (mg/L)	12.375	10.655	12.560		11.863	12.560
Eff: Avg NO3-N - Eff (mg/L)	0.100	0.100	< 0.100		< 0.100	0.100
Eff: # of samples of NO3-N - Eff (mg/L)	1	1	1	3		
Eff: Avg NO2-N - Eff (mg/L)	< 0.050	0.060	< 0.100		< 0.070	0.100
Eff: # of samples of NO2-N - Eff (mg/L)	1	1	1	3		
Disinfection:						