

SYSTEM OVERVIEW

October 1st to December 31st, 2022

OPERATIONAL HIGHLIGHTS

Drinking Water System

- The water treatment system operated well during the fourth quarter.
- Service line and curb stop replacement at 1040 Bissett St.
- Fall hydrant maintenance flushing completed. Hydrant records are maintained on OCWA's public drive and are available upon request.
- Service line repair at 331 Fifth St.
- Service line repair at 312 Main St.
- Annual generator service completed.

Wastewater Treatment

- The wastewater treatment system performed well during the fourth quarter.
- Sewage stations cleaned.
- A deer entered the Lagoon, became stuck and damaged the aeration header. Repairs completed.
- Unplugged 2 sewage lift station pumps.
- Annual generator service completed.

CAPITAL PLAN PROGRESS

Drinking Water System

- TrojanUV Optiview equipment failures occurred. Replaced proximity sensor and purchased spare.
- SCADA and PLC upgrades have been completed and operating with old UV unit. Control system to be finalized upon installation of new UV equipment.

Wastewater Treatment Lagoon

- Health and safety guarding was installed on generators.

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 fourth quarter of 2022 and all results fell within regulatory limits.
- Quarterly trihalomethanes (THM), haloacetic acids (HAA), Nitrate and Nitrite sampling completed October 11, 2022.
- Summer Term lead, alkalinity and pH sampling completed October 11, 2022.
- Annual Capital and Major Maintenance Recommendations Report completed and submitted.
- Annual Hach instrument calibrations completed on November 15, 2022.
- THM running annual average below limit of 100 ug/L with a result of 3.00 ug/L in the past four quarters.
- HAA running annual average below limit of 80 ug/L (came into effect January 1, 2020) with a result of 17.75 ug/L in the past four quarters.
- A Ministry of the Environment, Conservation and Parks (MECP) inspections conducted on November 29, 2022. There were one non-compliance findings, which have been resolved (issue with the Optiview like below). Final inspection rating 99.13%.
- There were no Ministry of Labour (MOL) inspections conducted this quarter.
- DWQMS Management Review completed November 30, 2022.
- UV Transmittance Analyzer failure during plant operation on early morning December 4 and issue is ongoing. UV transmittance analyzer failure on Dec. 4, resulting in an incident of non-compliance. Operator needed to get plant going to supply consumers. Plant has been operating since then without online UVT readings due to Optiview failure. MDWL requires UVT readings every five minutes while plant operational. Operator took handheld reading after starting plant without Optiview. Issue with home sensor, new home sensor previously ordered and is on route. A second spare ordered December 5. Operator tried correcting issue with home sensor; however, was not able to and a new sensor may be required. We will continue to do some daily handheld UVT readings until the Optiview is repaired. Operator was able to get online at 3:10 PM December 6, 2022. He took apart Optiview, cleaned/lubricated the motor shaft, he ensured the home sensor and sensor plate were close and in proper position. He tightened all bolts and put back together and unit went back online. Non-compliance form emailed to Erin Spires.

- All required sewage samples required under the system's Environmental Compliance Approval (ECA) were collected and tested in the fourth quarter of 2022.
- Lagoon sample results were well below ECA limits.

INCIDENTS AND COMPLAINTS

Mattawa Drinking Water System

Incident	Reservoir Overflow (Spill)
Date	October 10, 2022
Details	SAC Ref No.:1-27NH5J Type of Event: Spill Start Date & Time: October 10, 2022 @ 1400 hrs. Termination: October 10, 2022 @ 1500 hrs. Duration: approx. 1 hours Approximate volume: 200 m3 Details: PLC issues caused communication loss from water plant to the reservoir. This caused an issue with the shutdown sequence of the lead HL pump causing an overflow of treated water to the environment. Operator received alarm and went to plant to troubleshoot. Plant turned off to stop overflow. Receiver: Ground for a long distance, possibly Ottawa River. Downstream Users: No Actions: Instrumentation Technician arrived at facility on October 11 at 0900 to troubleshoot issues with PLC. Pumps will be manually operated until the PLC issues are resolved. Further Actions: hand/manual until the PLC issues are resolved. Reporting: Verbal & written reports to MOE SAC, Local MECP and EC.

Mattawa Wastewater System

Incident	n/a
Date	
Details	

HEALTH AND SAFETY

- Staff training completed on lockout/tagout.
- OCWA Staff provided hydrant operations training to Mattawa Fire Department.
- Staff training completed on hearing protection.
- Staff training completed on "Near Miss" and "Don't Walk By" Programs.



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
Agence Ontarienne Des Eaux

Northeastern Ontario Region

MATTAWA WATER & WASTEWATER SYSTEMS QUARTERLY OPERATIONS REPORT

Appendix A - Work Order Summary for WTP

Workorder Summary Report

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

Report End Date: Dec 31, 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
3045258	0000328760	GENERATOR ELECTRIC DIESEL	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1517	COMP	10/1/22 12:00 AM	2/12/23 06:38 PM	2/12/23 06:38 PM	Generator Monthly Test (1m) 1517 - Monthly generator test completed no issues found at this time
3045261	0000328770	UV LIGHT REACTOR #1	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#1) (1m / 1y) 1517	COMP	10/1/22 12:00 AM	2/12/23 06:45 PM	2/12/23 06:45 PM	UVR Reference Sensor check (UV#1) (1m / 1y) 1517 - UV 1 still out of service
3045264	0000328771	UV LIGHT REACTOR #2	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#2) (1m / 1y) 1517	COMP	10/1/22 12:00 AM	2/12/23 06:47 PM	2/12/23 06:47 PM	UVR Reference Sensor check (UV#2) (1m / 1y) 1517 - UV 2 Reference sensor check completed, Pass
3045326			1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	MONTHS	UVR Service (Spring & Fall) 1517	COMP	10/1/22 12:00 AM	2/12/23 06:58 PM	2/12/23 06:58 PM	UVR Service (Spring & Fall) 1517 - UV reactor 2 was visually inspected and left as is until new units are installed
3045333			1517, Mattawa DWS	PM	Inspection	3	MONTHS	Replace UV Air Filters 1517	COMP	10/1/22 12:00 AM	2/12/23 06:58 PM	2/12/23 06:58 PM	Replace UV Air Filters 1517 - Replaced filters in UV2 only as UV1 is no in service
3045341	0000328767	ANALYZER UV PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	UVT Analyzer calibration to yellow box (1m) 1517	COMP	10/1/22 12:00 AM	2/12/23 06:59 PM	2/12/23 06:59 PM	
3045362			1517, Mattawa DWS	PM	Inspection	1	MONTHS	Critical Alarm Dialer Route (1m) - 1517	COMP	10/1/22 12:00 AM	2/12/23 07:00 PM	2/12/23 07:00 PM	Critical Alarm Dialer Route (1m) - 1517 - Multiple alarms during the month caused the alarming, and checked during generator testing. All OK
3045371			1517, Mattawa DWS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1517	COMP	10/1/22 12:00 AM	12/19/22 11:18 AM	12/19/22 11:18 AM	
3045384	0000328758	VALVE REGULATING	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Valve Regulating Inspection (1m) 1517	COMP	10/1/22 12:00 AM	2/12/23 06:52 PM	2/12/23 06:52 PM	Valve Regulating Inspection (1m) 1517 - Valves located in the WTP are visually inspected weekly and operated monthly, no issues found to date
3045389	0000328754	WELL PRODUCING #2	1517, Mattawa DWS	PM	Inspection	1	YEARS	Well Producing (1y / 10y) Inspection 1517	COMP	10/1/22 12:00 AM	2/12/23 07:02 PM	2/12/23 07:02 PM	Well Producing (1y / 10y) Inspection 1517 - Visual inspection of well heads was completed, no issues seen

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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
3045594			1517, Mattawa DWS	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 1517	COMP	10/1/22 12:00 AM	2/12/23 07:03 PM	2/12/23 07:03 PM	Analyzer Chlorine Inspection/ Service (1m) 1517 - Checked analyzer to handheld multiple times during the weeks, all OK
3064256	0000328759	PANEL CONTROL PUMP	1517, Mattawa DWS	CORR	Refurbish/ Replace/Repair	0		Plant PLC control issues	CLOSE	10/11/22 12:24 PM	10/11/22 08:30 AM	10/20/22 02:55 PM	Plant PLC control issues - the Ethernet module was defective and the spare was used.
3065128	0000328804	ANALYZER CHLORINE / PH AIT 102	1517, Mattawa DWS	PM	Inspection	3	MONTHS	PH Analyzer Calibration (3m) 1517	COMP	10/15/22 12:00 AM	2/12/23 07:10 PM	2/12/23 07:10 PM	
3065131			1517, Mattawa DWS	PM	Inspection	3	MONTHS	PH Analyzer Calibration (POE) (3m) 1517	COMP	10/15/22 12:00 AM	2/12/23 06:56 PM	2/12/23 06:56 PM	PH Analyzer Calibration (POE) (3m) 1517 - Checked PH analyzer against handheld, values were within reason
3090710	0000328787	ANALYZER UV TRANSMITTANCE	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	3	MONTHS	UV Transmitter Optiview calibration (3m) 1517	COMP	11/1/22 12:00 AM	2/12/23 07:13 PM	2/12/23 07:13 PM	
3090721	0000328760	GENERATOR ELECTRIC DIESEL	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1517	COMP	11/1/22 12:00 AM	2/12/23 06:39 PM	2/12/23 06:39 PM	Generator Monthly Test (1m) 1517 - Monthly generator test completed no issues found at this time
3090724	0000328770	UV LIGHT REACTOR #1	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#1) (1m / 1y) 1517	COMP	11/1/22 12:00 AM	2/12/23 06:45 PM	2/12/23 06:45 PM	UVR Reference Sensor check (UV#1) (1m / 1y) 1517 - UV 1 still out of service
3090727	0000328771	UV LIGHT REACTOR #2	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#2) (1m / 1y) 1517	COMP	11/1/22 12:00 AM	2/12/23 06:47 PM	2/12/23 06:47 PM	UVR Reference Sensor check (UV#2) (1m / 1y) 1517 - UV 2 Reference sensor check completed, Pass
3090783	0000328767	ANALYZER UV PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	UVT Analyzer calibration to yellow box (1m) 1517	COMP	11/1/22 12:00 AM	2/12/23 07:13 PM	2/12/23 07:13 PM	
3090804			1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	YEARS	HVAC, Fans, Dehumidifiers, Heaters ,Louvres (1y) 1517	COMP	11/1/22 12:00 AM	2/12/23 07:10 PM	2/12/23 07:10 PM	
3090817			1517, Mattawa DWS	PM	Inspection	1	MONTHS	Critical Alarm Dialer Route (1m) - 1517	COMP	11/1/22 12:00 AM	2/12/23 07:00 PM	2/12/23 07:00 PM	Critical Alarm Dialer Route (1m) - 1517 - Multiple alarms during the month caused the alarming, and checked during generator testing. All OK
3090826			1517, Mattawa DWS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1517	COMP	11/1/22 12:00 AM	12/19/22 11:19 AM	12/19/22 11:19 AM	

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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
3090837	0000328789	TANK STORAGE FUEL ELECTRIC GENERATOR	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Storage Fuel Diesel Insp/ Service (1y) 1517	COMP	11/1/22 12:00 AM	2/12/23 07:14 PM	2/12/23 07:14 PM	Tank Storage Fuel Diesel Insp/ Service (1y) 1517 - All fuel tanks are checked at time of generator checks. No issues found to date
3090847	0000328758	VALVE REGULATING	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Valve Regulating Inspection (1m) 1517	COMP	11/1/22 12:00 AM	12/19/22 11:21 AM	12/19/22 11:21 AM	
3090951			1517, Mattawa DWS	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 1517	COMP	11/1/22 12:00 AM	2/12/23 07:08 PM	2/12/23 07:08 PM	Analyzer Chlorine Inspection/ Service (1m) 1517 - Analyzer is compared to handheld multiple times a week and is calibrated as necessary
3105000			1517, Mattawa DWS	CAP	Refurbish/ Replace/Repair	0		Trojan Optiview Proximity Switch Assembly	CLOSE		11/9/22 09:35 AM	11/9/22 09:35 AM	Spare Proximity Switch Assembly - Trojan Optiview Proximity Switch Assembly, AKA Home Sensor. Purchase spare sensor Part# 905227. For Mattawa- PJ 710050.
3106584			Mattawa DWS	CAP	Refurbish/ Replace/Repair	0		Hydrant repair Mattawa fire hall 1517	BUSCOMP		12/12/22 11:19 AM	12/12/22 11:19 AM	Hydrant repair Mattawa fire hall 1517 - parts required to repair fire hydrant at fire hall. TF Nov 14/22
3106706	0000328804	ANALYZER CHLORINE / PH AIT 102	1517, Mattawa DWS	PM	Calibration	1	YEARS	PH Analyzer change Probe & Calibration (1y) 1517	COMP	11/15/22 12:00 AM	2/12/23 07:08 PM	2/12/23 07:08 PM	
3108986			1517, Mattawa DWS	CAP	Refurbish/ Replace/Repair	0		Spare Trojan Optiview Proximity Switch Assembly	COMP		1/23/23 11:05 AM	1/23/23 11:05 AM	Spare Trojan Optiview Proximity Switch Assembly - Spare was used in emergency response. This work order is to have a new spare on site.
3131249	0000328760	GENERATOR ELECTRIC DIESEL	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1517	COMP	12/1/22 12:00 AM	2/12/23 06:40 PM	2/12/23 06:40 PM	Generator Monthly Test (1m) 1517 - Monthly generator test completed no issues found at this time
3131252	0000328770	UV LIGHT REACTOR #1	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#1) (1m / 1y) 1517	COMP	12/1/22 12:00 AM	2/12/23 06:46 PM	2/12/23 06:46 PM	UVR Reference Sensor check (UV#1) (1m / 1y) 1517 - UV 1 still out of service

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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
3131255	0000328771	UV LIGHT REACTOR #2	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#2) (1m / 1y) 1517	COMP	12/1/22 12:00 AM	2/12/23 06:48 PM	2/12/23 06:48 PM	UVR Reference Sensor check (UV#2) (1m / 1y) 1517 - UV 2 Reference sensor check completed, Pass
3131311	0000328767	ANALYZER UV PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	UVT Analyzer calibration to yellow box (1m) 1517	COMP	12/1/22 12:00 AM	2/12/23 07:07 PM	2/12/23 07:07 PM	
3131332			1517, Mattawa DWS	PM	Inspection	1	MONTHS	Critical Alarm Dialer Route (1m) - 1517	COMP	12/1/22 12:00 AM	2/12/23 07:00 PM	2/12/23 07:00 PM	Critical Alarm Dialer Route (1m) - 1517 - Multiple alarms during the month caused the alarming, and checked during generator testing. All OK
3131341	0000328755	PUMP CENT WELL #1	1517, Mattawa DWS	PM	Inspection	1	YEARS	Pump Cent Insp/Service (1y) - 1517	COMP	12/1/22 12:00 AM	2/12/23 07:06 PM	2/12/23 07:06 PM	Pump Cent Insp/Service (1y) - 1517 - Visually inspected pump, listened to it as it was running, no vibration or noise issues found.
3131349	0000328756	PUMP CENT WELL #2	1517, Mattawa DWS	PM	Inspection	1	YEARS	Pump Cent Insp/Service (1y) - 1517	COMP	12/1/22 12:00 AM	2/12/23 07:06 PM	2/12/23 07:06 PM	
3131357			1517, Mattawa DWS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1517	COMP	12/1/22 12:00 AM	12/19/22 11:22 AM	12/19/22 11:22 AM	
3131370	0000328758	VALVE REGULATING	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Valve Regulating Inspection (1m) 1517	COMP	12/1/22 12:00 AM	2/12/23 06:52 PM	2/12/23 06:52 PM	Valve Regulating Inspection (1m) 1517 - Valves located in the WTP are visually inspected weekly and operated monthly, no issues found to date
3131466			1517, Mattawa DWS	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 1517	COMP	12/1/22 12:00 AM	2/12/23 06:53 PM	2/12/23 06:53 PM	
3146034	0000328759	PANEL CONTROL PUMP	1517, Mattawa DWS	CORR	Refurbish/ Replace/Repair	0		PLC Failure- Communication fail alarm	COMP		11/29/22 07:53 AM	12/7/22 03:20 PM	PLC failure- communication fail alarm locked on -Plant had comm fail alarm locked in, could not reset the alarm. All plant and reservoir values were populated in the scada. Indicating no comm fail. Called claudel to the site. He unplugged the Ethernet cable from the comm module. And plugged it back in after 2 mins. Alarm cleared and all worked as normal.

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3147902			1517, Mattawa DWS	CORR	Refurbish/ Replace/Repair	0		1517-Mattawa WTP, WT, PLC upgrade	COMP		12/13/22 11:18 AM	12/15/22 11:18 AM	
3148141			1517, Mattawa DWS	CAP	Refurbish/ Replace/Repair	0		Mattawa Generator Battery Replacement	COMP		12/19/22 09:19 AM	12/19/22 09:19 AM	Mattawa Generator Battery Replacement - Two 8D Batteries replaced
3148177			1517, Mattawa DWS	CAP	Refurbish/ Replace/Repair	0		Mattawa Operations: Scheduled Overtime for SCADA and PLC Upgrades	COMP		12/19/22 10:29 AM	12/19/22 10:29 AM	Scheduled Overtime for SCADA and PLC Upgrades - Operational support required for system upgrades.
3148194	0000328808	VALVE BACKFLOW GENERATOR COOLING	1517, Mattawa DWS	PM	Predictive Maintenance	0		backflow inspection generator unit mattawa 1517	COMP		12/19/22 11:32 AM	12/19/22 11:32 AM	
3148197	0000328806	VALVE BACKFLOW DOMESTIC WATER	1517, Mattawa DWS	PM	Inspection	0		backflow inspection potable water unit 1517	COMP		12/19/22 11:36 AM	12/19/22 11:36 AM	
3148496			1517, Mattawa DWS	CAP	Refurbish/ Replace/Repair	0		Critical Spare Parts for Trojan Optiview	COMP		2/12/23 07:16 PM	2/12/23 07:16 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: Oct 1, 2022 12:00 AM

Report End Date: Dec 31, 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
3045244	0000328854	UV LIGHT REACTOR SYSTEM	1541, Mattawa Wastewater System	PM	Inspection	6	MONTHS	UV Reactor service Fall (6m) 1541	CLOSE	10/1/22 12:00 AM	11/13/22 08:24 PM	11/13/22 08:24 PM	UV Reactor service Fall (6m) 1541 - UV reactors serviced, bulbs are dim, new sleeves and bulbs are to be ordered and installed upon arrival
3045251	0000328854	UV LIGHT REACTOR SYSTEM	1541, Mattawa Wastewater System	PM	Inspection	6	MONTHS	UV Reactor service Spring (6m) 1541	COMP	10/1/22 12:00 AM	2/12/23 06:35 PM	2/12/23 06:35 PM	
3045398	0000328878	BLOWER CENTRIFUGAL B01 AERATION	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	YEARS	Blower Centrifugal Inspection/ Service (1y) 1541	COMP	10/1/22 12:00 AM	2/12/23 07:11 PM	2/12/23 07:11 PM	Blower Centrifugal Inspection/ Service (1y) 1541 - checked blower no issues found. belt tightness- OK, oil level and clarity - OK
3045411	0000328879	BLOWER CENTRIFUGAL B02 AERATION	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	YEARS	Blower Centrifugal Inspection/ Service (1y) 1541	COMP	10/1/22 12:00 AM	2/12/23 07:12 PM	2/12/23 07:12 PM	Blower Centrifugal Inspection/ Service (1y) 1541 - checked blower no issues found. belt tightness- OK, oil level and clarity - OK
3045424			1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	YEARS	HVAC, Fans, Dehumidifiers, Heaters ,Louvres Route (1y) 1541	COMP	10/1/22 12:00 AM	2/12/23 06:50 PM	2/12/23 06:50 PM	HVAC, Fans, Dehumidifiers, Heaters ,Louvres Route (1y) 1541 - Visual inspection completed for all units within the buildings, no issues observed
3045455			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	COMP	10/1/22 12:00 AM	2/12/23 07:02 PM	2/12/23 07:02 PM	
3045462			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	COMP	10/1/22 12:00 AM	12/5/22 10:43 AM	12/5/22 10:43 AM	
3049500			1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	COMP	10/1/22 12:00 AM	2/12/23 07:04 PM	2/12/23 07:04 PM	Pump Submersible Group Inspection (1m) 1541 - Visually checked pumps, switched from hand to manual, no issues seen at this time
3063151			1541, Mattawa Wastewater System	CAP	Predictive Maintenance	0		Mattawa Sewage Pump Stations: Wet Well Cleaning	CLOSE		10/6/22 10:48 AM	10/6/22 10:48 AM	Wet Well Cleaning - All stations cleaned out with hydrovac.
3065320	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	COMP	10/16/22 12:00 AM	2/12/23 06:43 PM	2/12/23 06:43 PM	
3090867			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	COMP	11/1/22 12:00 AM	2/12/23 07:14 PM	2/12/23 07:14 PM	

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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
3090874			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	COMP	11/1/22 12:00 AM	2/12/23 07:09 PM	2/12/23 07:09 PM	Health And Safety Inspection (1m) 1541 - Inspection completed while doing generator checks, no issues found
3094222			1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	COMP	11/1/22 12:00 AM	2/12/23 07:05 PM	2/12/23 07:05 PM	Pump Submersible Group Inspection (1m) 1541 - Visually checked pumps, switched from hand to manual, no issues seen at this time
3106870	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	COMP	11/16/22 12:00 AM	2/12/23 06:42 PM	2/12/23 06:42 PM	Tank Alum Inspection (1m) - 1541 - Visual inspection of alum tank completed weekly, no issues found, no leaks found
3131375	0000328859	ANALYZER GAS BUMP TEST	1541, Mattawa Wastewater System	PM	Calibration	6	MONTHS	Analyzer Gas C02 (6m) 1541	COMP	12/1/22 12:00 AM	2/12/23 07:07 PM	2/12/23 07:07 PM	
3131395			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	COMP	12/1/22 12:00 AM	2/12/23 07:07 PM	2/12/23 07:07 PM	- alarm dialer checked at time of generator checks, all ok
3131402			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	COMP	12/1/22 12:00 AM	2/12/23 07:10 PM	2/12/23 07:10 PM	Health And Safety Inspection (1m) 1541 - Inspection completed while doing generator checks, no issues found
3131422	0000328828	UPS BATTERY BACKUP 451 BISSETT ST.	1541, Mattawa Wastewater System	PM	Inspection	1	YEARS	Ups Battery Bank Insp/Service (1y) 1541	COMP	12/1/22 12:00 AM	2/12/23 06:54 PM	2/12/23 06:54 PM	
3134716			1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Pump Submersible Group Inspection (1m) 1541	COMP	12/1/22 12:00 AM	12/5/22 10:45 AM	12/5/22 10:45 AM	
3146999	0000328874	GENERATOR ELECTRIC DIESEL BACKUP POWER	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	12/13/22 12:00 AM	2/12/23 06:40 PM	2/12/23 06:40 PM	Generator Monthly Test (1m) 1541 - Monthly generator test completed no issues found at this time
3147002	0000328842	GENERATOR ELECTRIC DIESEL 601 MCKENZIE ST.	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	12/13/22 12:00 AM	2/12/23 06:41 PM	2/12/23 06:41 PM	Generator Monthly Test (1m) 1541 - Monthly generator test completed no issues found at this time
3147005	0000328901	GENERATOR ELECTRIC DIESEL	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	12/13/22 12:00 AM	2/12/23 06:41 PM	2/12/23 06:41 PM	Generator Monthly Test (1m) 1541 - Monthly generator test completed no issues found at this time
3147025			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 1541	COMP	12/13/22 12:00 AM	2/12/23 06:54 PM	2/12/23 06:54 PM	

Workorder Summary Report

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

Report End Date: Dec 31, 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
3147649	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	COMP	12/16/22 12:00 AM	2/12/23 06:42 PM	2/12/23 06:42 PM	Tank Alum Inspection (1m) - 1541 - Visual inspection of alum tank completed weekly, no issues found, no leaks found



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MATTAWA WATER & WASTEWATER SYSTEMS

QUARTERLY OPERATIONS REPORT

Appendix C – Call-out Report for WTP

Workorder Summary Report

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

Report End Date: Dec 31, 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
3062297			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		major uv 2 alarm- UV 2 Ballast Fail	CLOSE		9/14/22 07:15 PM	9/14/22 08:30 PM	- On-site for uv fail alarm. Arrived found ballast fail on uv 2. Reset alarms, reset scada alarms, switch to uv 2 as duty and plant started ok JD,
3062299			1517, Mattawa DWS	CALL	Predictive Maintenance	0		House Fire- Rankin & 4Th st	CLOSE		9/20/22 12:00 AM	9/20/22 03:30 AM	- On-site for uv ballast fail, and to start big pump for house fire, called by fire department at 1207, remotely started pump and failed on start up. Arrived, reset alarms on uv unit and scada, plant started ok on p2, switched to p1 for fire operations Fire was on rankin st near 4th, fire crews hooked to hydrant at 3rd and rankin. Checked hydrant, seems to be no issues at this time. Fire has been extinguished. Switch pumps back into auto.
3062300			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		major uv 2 alarm- UV 2 Ballast Fail-1517	CLOSE		9/22/22 10:15 PM	9/22/22 11:30 PM	major uv 2 alarm- UV 2 Ballast Fail - On-site for uv ballast fail. Reset alarms on uv panel and reset on scada. Plant auto started. All running ok

Workorder Summary Report

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

Report End Date: Dec 31, 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
3062305			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		major uv 2 alarm- UV 2 Ballast Fail	CLOSE		9/24/22 08:30 AM	9/24/22 09:45 AM	major uv 2 alarm- UV 2 Ballast Fail - On-site for uv fail alarm. Arrived to find uv 2 on ballast fail. Reset alarms, switch to uv2 as duty. Plant auto started.
3064193			Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		assist with comm alarms	COMP		10/10/22 11:30 AM	10/10/22 03:00 PM	assist with comm alarms - recieved call from Monique at 1139 for intrusion alarm at reservoir. wondering what it might be concerned as she was advised homeless people living in area. told her to call me when onsite and if there were people there to call police and not engage. She called back said she cant clear alarm but everything secured. at wtp its the floats on. she might need to go back to reset plc at reservoir. said level is 3.39 m advised to stop pump and check overflow as it should have shut at 3.1m. whule at reservoir she noticed pump back on even though she had shut it off. issues with comms to reservoir not resetting. advised to shut pump 1 off and start pump 2 later in evening. TF Oct 10/22
3064277			Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Communication Loss with Mattawa Water Reservoir	CLOSE		10/11/22 02:58 PM	10/11/22 03:11 PM	Communication Loss with Mattawa Water Reservoir - Received alarm at 1115 as Mattawa intrusion alarm. Arrived on site at 1415, reservoir level was 3.40 m and overflowing. The pump was still running, shut off pump. Tried to reboot communication, still in fault. Monitored remotely and turned pump back on at 1.80 m.

Workorder Summary Report

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

Report End Date: Dec 31, 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
3064278			Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Critical UV #2 Alarm Mattawa DWS	CLOSE		10/11/22 03:13 PM	10/11/22 03:21 PM	Critical UV #2 Alarm Mattawa DWS - Received Critical UV#2 alarm at 2045, arrived on site at 22:45, reset ballast fault on UV panel following SOP. Plant started back up, no issues.
3065716			Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Critical UV #2 Alarm Mattawa DWS	COMP		10/17/22 02:42 PM	10/17/22 02:50 PM	Critical UV #2 Alarm Mattawa DWS - Received critical UV #2 alarm at 1045, arrived on site at 1230, reset ballast fail and monitored plant start up, no issues. Left facility at 1315.
3066455			Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Critical UV #2 Alarm Mattawa DWS	COMP		10/20/22 03:44 PM	10/20/22 03:48 PM	Critical UV #2 Alarm Mattawa DWS - received critical UV#2 alarm at 1945, arrived on site at 2115. Reset uv ballast fault. System started back up no issues.
3067235			Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		uv2 fail mattawa 1517	COMP		10/22/22 04:30 PM	10/22/22 07:30 PM	uv2 fail mattawa 1517 - called by monique at 1611 for uv 2 fault. arrived at 1720 reservoir level at 1.31 reset uv2 switch duty on scada pump 1 started after uv warmup. reviewed trending reservoir up to 1.49 m. checked again later low level out of alarm. TF Oct 22/22
3105449			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Chlorine Pump Fail-1517	COMP		10/31/22 08:15 PM	10/31/22 10:00 PM	Chlorine Pump Fail-1517 - Called by Telus alraming for chlorine pump fail at 2010. Arrived at 2040. Found plant not running and chlorine pumps in fail. Cleaned foot valve and discharge valve. Found debris in both. Put pump back together. Reset alarms. Plant auto started.

Workorder Summary Report

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

Report End Date: Dec 31, 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
3106822			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Metering pump fail at Mattawa DWS	COMP		11/10/22 10:30 PM	11/11/22 03:00 AM	Metering pump failure at Mattawa DWS -Arrived on site and checked valves on pump, all cleaned. Checked pump in manual, pumping ok. Started plant up and monitored chlorine for an hour, all ok
3106825			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Metering pump failure at Mattawa DWS	COMP		11/11/22 03:40 AM	11/11/22 09:30 AM	Metering pump fail at Mattawa DWS -Received alarm for metering pump failure. Arrived on site and switched feed lines for foot valve and replaced gas relief valve on the pump. Monitored plant for an hour, all good
3106832			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		UV2 fail	COMP		11/11/22 03:15 PM	11/11/22 07:00 PM	UV2 fail -Received all from Telus alarms regarding UV alarm. Arrived at plant for UV2 fail. Found UV in Ballast failure. Reset alarms, switched UV duty and started plant. Monitored process, everything fine
3107713			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		UV2 failure	COMP		11/16/22 08:45 PM	11/16/22 11:00 PM	UV2 failure -Received call from Telus for UV2 alarm. Arrived on site. Reset UV2 Ballast alarm, switched duty to UV2 and plant started.
3144834			Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Mattawa UVT alarm	COMP		11/29/22 12:05 AM	12/7/22 12:43 PM	Mattawa UVT -Powered down unit X2 , the cannot find home fault appeared twice. Josh onto site to help change the home sensor on UVT unit. Started plant back up no issues
3144836			Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Critical UV#2 failure Mattawa DWS	COMP		11/29/22 09:00 PM		UV#2 critical uv failure Mattawa DWS -Blast fault on unit, reset alarm and returned plant into operation
3145115			Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		UV#2 failure Mattawa DWS	COMP		12/2/22 04:00 AM	12/2/22 06:02 AM	UV#2 failure Mattawa DWS -Received UV#2 failure, arrived on site at 05:50 and reset ballast fault on unit and started plant back up.

Workorder Summary Report

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

Report End Date: Dec 31, 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
3146065			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		major uv 2 alarm- UV 2 Ballast Fail	COMP		11/25/22 07:00 PM	11/25/22 08:30 PM	major uv 2 alarm- UV 2 Ballast Fail - On-site for uv fail alarm. Reset uv 2. Switch to uv 2 as duty. Plant auto start
3146066			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		major uv 2 alarm- UV 2 Ballast Fail	COMP		11/26/22 11:15 AM	11/26/22 01:30 PM	major uv 2 alarm- UV 2 Ballast Fail - On-site for uv 2 ballast fail alarm. Cleared alarms and reset to uv 2 as duty. All started ok automatically.
3146088			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Reservoir level mulfunction	COMP		12/3/22 03:30 AM	12/3/22 06:30 AM	Reservoir level mulfunction - Alarm for no communication with reservoir. Millitronics wasn't reading correct level. Cycled power to unit and rebooted fine.
3146089			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Low UVT alarm	COMP		12/3/22 11:00 PM	12/4/22 03:00 AM	Low UVT alarm -On site for UVT low alarm. Found unit to be in error for "Cannot find home sensor". Tried to cycle power to unit and adjust home sensor. Neither corrected issue. Started plant without online UVT readings.
3146093			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		UV2 failure	COMP		12/6/22 05:30 PM	12/6/22 08:00 PM	UV2 failure - UV2 failure upon start up. Arrived on site: reset ballast fail alarm and switched UV duty to #2. Plant started.
3146914			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		UV2 failure	COMP		12/10/22 05:45 PM	12/10/22 09:00 PM	UV2 failure - Received call from Telus alarms at 17:52 regarding UV2 fail. Arrived on site, reset Ballast fail and switched duty to UV2. Plant started.
3146917			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		UV2 failure	COMP		12/11/22 05:00 AM	12/11/22 07:45 AM	UV2 failure - Received call from Telus alarms at 04:50 regarding UV2 fail. Arrived on site, reset Ballast fail and switched duty to UV2. Plant started.

Workorder Summary Report

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

Report End Date: Dec 31, 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
3148669			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		UV Dosage low-1517	COMP		12/15/22 01:45 AM	12/15/22 03:45 AM	UV Dosage low-1517 - All seems to be operating o
3148673			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Power Outage 1517/1541	COMP		12/12/22 07:45 PM	12/12/22 11:45 PM	Power Outage 1517/1541 - Onsite to check all generators, lift stations for over flow, and wtp for genset running. All ok, Back onsite to check all stations again at 2300.All ok,
3148677			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Power Outage 1517/1541	COMP		12/13/22 02:00 AM	12/22/22 09:06 AM	Power Outage 1517/1541 - Power restoral was around 0100, Onsite to check all stations switched back to normal power. water plant switch over. All ok
3148973			1517, Mattawa DWS	CALL	Inspection	0		PLC Failure	COMP		12/24/22 01:30 AM	12/24/22 04:00 AM	PLC Failure - Received a PLC failure alarm. Arrived on site to find alarms cleared. Plant is experiencing periodic communication losses. Extended the Reservoir signal error delay to 600 seconds so this won't reoccur. Left site.



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MATTAWA WATER & WASTEWATER SYSTEMS

QUARTERLY OPERATIONS REPORT

Appendix D - Call-out Report for WWTL

Workorder Summary Report

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

Report End Date: Dec 31, 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
3062303			1541, Mattawa Wastewater System	CALL	Community Complaint	0		Blocked Sewer at 1025 Lily St.	CLOSE		9/23/22 07:00 PM	9/23/22 09:00 PM	Blocked Sewer at 1025 Lily St. - On site at 1025 lily st for blocked sewer. Checked manholes up and down from the address. No visible blockage. Spoke with the home owner and informed them to get a plumber. The home owner had an issue in April, and managed to unblock it. Same issue again. Will follow up next week.
3105546			1541, Mattawa Wastewater System	CALL	Refurbish/ Replace/Repair	0		UV alarm for Mattawa lagoon system	COMP		11/7/22 03:43 PM	11/7/22 03:43 PM	UV alarm for Mattawa lagoon system - Received an alarm at 0330 for low UV dosage at lagoon site. Arrived on site at 0530, checked UV channel, Lights were operational. Noticed a piece of plastic in the channel. Removed the debris, all ok. Received another alarm at 0730, checked lights again, and they were operational.
3148685			1541, Mattawa Wastewater System	CALL	Refurbish/ Replace/Repair	0		Sewer Blockage Main St	COMP		12/5/22 09:00 PM	12/22/22 09:17 AM	Sewer Blockage Mainst - Called by town call centre for blocked sewer. Directed call to Curtis. He spoke with the caretaker for 358 main st. Who said there were multiple issues with multiple buildings in main st. Arrived to find the issue with one main floor toilet. Checked the sewer main manholes. All running ok. No issues seen. Directed the caretaker to call a plumber and have the sewer video inspected.

Workorder Summary Report

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

Report End Date: Dec 31, 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
3148693			1541, Mattawa Wastewater System	CALL	Refurbish/ Replace/Repair	0		1101 Bissett high level alarm	COMP		12/20/22 07:30 PM	12/20/22 09:45 PM	1101 Bissett high level alarm - Received call for high alarm at 1101 Bissett lift station. Arrived on site to find pumps in overload fault. Reset pumps and pumped down station to bottom. Both pumps were reading 12-13 amps, sometimes go above 15 and fault again. After reset it would work fine again. Partial plug most likely. Lift station pumped to the bottom for the night and will access situation in morning.



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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 01/30/2023 15:54

From: 01/10/2022 to 31/12/2022

Facility: [1517] MATTAWA DRINKING WATER SYSTEM

Works: [210001905]

	10/2022	11/2022	12/2022	<--Total-->	<--Avg.-->	<--Max.-->	<--Min.-->
Flows:							
Raw Flow: Monthly Total - Well #1 (m³)	28597.53	32468.98	31641.01	92707.52			
Raw Flow: Monthly Total - Well #2 (m³)	4879.68	4178.03	4621.32	13679.03			
Raw Flow: Monthly Avg - Well #1 (m³/d)	922.5	1082.3	1020.68		1008.49		
Raw Flow: Monthly Avg - Well #2 (m³/d)	157.41	139.27	149.07		148.58		
Raw Flow: Monthly Max - Well #1 (m³/d)	1197.3	1494.06	1531.79			1531.79	
Raw Flow: Monthly Max - Well #2 (m³/d)	413.56	507.92	419.58			507.92	
Raw Flow: Monthly Total - Raw Water - Total (m³)	33477.21	36647.01	36262.33	106386.55			
Raw Flow: Monthly Avg - Raw Water - Total (m³/d)	1079.91	1221.57	1169.75		1157.08		
Raw Flow: Monthly Max - Raw Water - Total (m³/d)	1362.24	1935.39	1597.52			1935.39	
Turbidity:							
Raw: Max Turbidity - Well #1 (NTU)	0.31	0.26	0.27			0.31	
Raw: Max Turbidity - Well #2 (NTU)	0.28	0.29	0.29			0.29	
Chemical Parameters:							
Treated: Max Nitrite - TW (mg/L)	< 0.1					< 0.1	
Treated: Max Nitrate - TW (mg/L)	1.7					1.7	
Distribution: Max THM - DW (µg/l)	4.8					4.8	
Chlorine Residuals:							
Treated: Min Free Cl2 Resid - TW (mg/L)	0.133	0.185	0.113				0.113
Treated: Max Free Cl2 Resid - TW (mg/L)	4.119	4.119	4.119			4.119	
Dist: Min Free Cl2 Resid - DW (mg/L)	0.201	0.36	0.609				0.201
Dist: Max Free Cl2 Resid - DW (mg/L)	2.455	2.841	2.784			2.841	
Bacti Samples Collected:							
Raw Bacti: # of samples - Well #1	4	5	4	13			
Raw Bacti: # of samples - Well #2	4	5	4	13			
Treated Bacti: # of samples - TW	4	5	4	13			
Dist Bacti: # of samples - DW	12	15	12	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

1541 MATTAWA WASTEWATER TREATMENT FACILITY 110000436

	10 / 2022	11/ 2022	12/ 2022	<--Total-->	<--Avg-->	<--Max-->
--	-----------	----------	----------	-------------	-----------	-----------

Flows

Raw Flow: Total - Raw m³/d	23,334.00	19,023.00	20,881.00	63,238.00		
Raw Flow: Avg - Raw m³/d	752.71	634.10	673.58		687.37	
Raw Flow: Max - Raw m³/d	890.00	758.00	956.00			956.00
Raw Flow: Count - Raw m³/d	31.00	30.00	31.00	92.00		
Eff. Flow: Total - Eff m³/d	23,334.00	19,023.00	20,881.00	63,238.00		
Eff. Flow: Avg - Eff m³/d	752.71	634.10	673.58		343.68	
Eff. Flow: Max - Eff m³/d	890.00	758.00	956.00			956.00
Eff Flow: Count - Eff m³/d	31.00	30.00	31.00	92.00		

Carbonaceous Biochemical Oxygen Demand: CBOD

Eff: Avg cBOD5 - Eff mg/L	8.50	5.90	6.30		6.63	8.50
Eff: # of samples of cBOD5 - Eff	1.00	1.00	1.00	4.00		
Loading: cBOD5 - Eff kg/d	6.398	3.741	4.244		4.79	6.40

Biochemical Oxygen Demand: BOD5

Raw: Avg BOD5 - Raw mg/L	142.00	139.00	211.00		159.30	211.00
Raw: # of samples of BOD5 - Raw	1.00	1.00	1.00	4.00		
Eff: Avg BOD5 - Eff mg/L	8.80	6.40	6.80		7.98	9.90
Eff: # of samples of BOD5 - Eff	1.00	1.00	1.00	4.00		
Loading: BOD5 - Eff kg/d	6.624	4.058	4.580		5.09	6.62
Percent Removal: BOD5 - Raw %	0.00	0.00	0.00			

Total Suspended Solids: TSS

Raw: Avg TSS - Raw mg/L	145.00	109.00	209.00		159.50	209.00
Raw: # of samples of TSS - Raw	1.00	1.00	1.00	4.00		
Eff: Avg TSS - Eff mg/L	2.80	2.27	6.00		6.34	14.30
Eff: # of samples of TSS - Eff	1.00	1.00	1.00	4.00		
Loading: TSS - Eff kg/d	2.108	1.439	4.041		2.53	4.04
Percent Removal: TSS - Raw %	0.00	0.00	0.00			

Total Phosphorus: TP

Raw: Avg TP - Raw mg/L	3.11	3.70	3.76		3.47	3.76
Raw: # of samples of TP - Raw	1.00	1.00	1.00	4.00		
Eff: Avg TP - Eff mg/L	0.24	0.69	1.40		1.16	2.41
Eff: # of samples of TP - Eff	4.00	5.00	4.00	17.00		
Loading: TP - Eff kg/d	0.188	0.647	0.596		0.48	0.65
Percent Removal: TP - Raw %	0.00	0.00	0.00			

Nitrogen Series

Eff: Avg TAN - Eff mg/L	20.30	15.76	20.75		18.45	20.75
Eff: Avg NO3-N - Eff mg/L	< 1.00	< 1.00	< 1.00		< 1.00	
Eff: # of samples of NO3-N - Eff	1.00	1.00	1.00	4.00		
Eff: Avg NO2-N - Eff mg/L	0.21	0.10	0.10		0.13	0.21
Eff: # of samples of NO2-N - Eff	1.00	1.00	1.00	4.00		