

SYSTEM OVERVIEW

October 1st to December 31st, 2019

OPERATIONAL HIGHLIGHTS

Drinking Water System

- The water treatment system operated well during the fourth quarter.
- Annual generator service completed.
- There were two service connection replacements.
- One service connection repair and one category one watermain repair conducted.
- Point of entry free chlorine residual analyzer alarm was enabled and is now functional.

Wastewater Treatment

- The wastewater treatment system performed well during the fourth quarter.
- Annual generator service completed.
- Annual lift station and lagoon collection chamber cleaning completed on November 4, 2019.
- Troubleshooting nuisance 1st Street Sewage Pump Station (SPS) level alarms. Hooked up a new float. Issue may be with True Steel panel.

CAPITAL PLAN PROGRESS

Drinking Water System

- Divers performed an underwater assessment of the watermain river crossing.
- UV #2 ballasts failed. Replacement and spare put on order.

Wastewater Treatment Lagoon

- Issues experienced with Mattawan SPS pump #1. Assumed to be plugged. Pump was pulled and found to have pulled its power cable into the impeller, cutting the wires. Pump was removed and brought out for repairs.

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 2019 and all results fell within regulatory limits.
- Annual well inspections completed for both wells in September 2019. This info was missed in Q3 report, so added to the Q4 report. No issues.
- The Ministry of the Environment, Conservation and Parks (MECP) performed an annual inspection on September 25, 2019. The inspection included a physical assessment of the Mattawa Water Treatment Plant and a document review. The inspection report identified 5 non-compliances and 2 best practice issues. Staff training completed on Turbidity for Groundwater DWS Sampling Requirements-Frequency to resolve non-compliance item. All other items have been addressed and three are ongoing. Final inspection rating of 92.13%.
- Operational Plan last updated October 8, 2019 to resolved action items identified between Management Reviews.
- Quarterly trihalomethanes (THM), haloacetic acids (HAA), Nitrate and Nitrite sampling completed October 1, 2019.
- Annual Capital and Major Maintenance Recommendations Report completed and submitted.
- Annual Hach instrument calibrations completed on November 18, 2019.
- THM running annual average below limit of 100 ug/L with a result of 2.37 ug/L in the past four quarters.
- HAA running annual average below the proposed limit of 80 ug/L (comes into effect January 1, 2020) with a result of <2.0 ug/L.
- No Ministry of Labour (MOL) or Ministry of the Environment, Conservation and Parks (MECP) inspections conducted this quarter.
- DWQMS Management Review completed December 6, 2019.
- All required sewage samples required under the system's Environmental Compliance Approval (ECA) were collected and tested in the fourth quarter of 2019.
- Lagoon sample results were well below ECA limits.

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 resolving workplace health and safety issues.
- Staff training completed on process data management (PDM) program “WISKI”.
- Staff training completed on winter driving.
- Staff training completed on SCBA Application and Maintenance.
- Confined space entry permits completed as necessary.
- Guards installed around well pump shafts.

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: Oct 1, 2019 12:00 AM

Report End Date: Dec 31, 2019 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
1463376	0000328763	ANALYZER TURBIDITY PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Turbidity Analyzer Calibration (1m) 1517	COMP	10/7/19 12:00 AM	10/30/19 02:55 PM	10/30/19 02:55 PM	Turbidity Analyzer Calibration (1m) 1517 - Completed Monthly Turbidity analyzer cal/verify, "PASSED"
1463390	0000328760	GENERATOR ELECTRIC DIESEL	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1517	COMP	10/7/19 12:00 AM	10/31/19 12:55 PM	10/31/19 12:55 PM	Generator Monthly Test (1m) 1517 -Vals Equipment onsite, full genset refresh: new oil, filters,and general mntce. Report from Vals to follow. JD Generator Monthly Test (1m) 1517 -Work was completed on Oct 9 2019
1463398	0000328770	UV LIGHT REACTOR #1	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#1) (1m / 1y) 1517	COMP	10/7/19 12:00 AM	10/31/19 08:23 AM	10/31/19 08:23 AM	UVR Reference Sensor check (UV#1) (1m / 1y) 1517 - Completed monthly UV #1 Reference sensor check, "PASSED"
1463402	0000328771	UV LIGHT REACTOR #2	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#2) (1m / 1y) 1517	COMP	10/7/19 12:00 AM	10/30/19 02:53 PM	10/30/19 02:53 PM	UVR Reference Sensor check (UV#2) (1m / 1y) 1517 - Completed UV # 2 monthly reference sensor check, "PASSED"
1463406	0000328765	ANALYZER CHLORINE UNIT #3 PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Portable chlorine Analyzer #3 Calibration (1m) 1517	COMP	10/7/19 12:00 AM	10/31/19 08:56 AM	10/31/19 08:56 AM	Portable chlorine Analyzer #3 Calibration (1m) 1517 - Complete monthly Pocket Chlorine analyzer cal/verify, "PASSED"
1536789			Mattawa DWS	CORR	Refurbish/ Replace/Repair	0		1517 mattawa WT	COMP		1/16/20 09:27 AM	1/16/20 09:27 AM	1517 mattawa WT -Connect POE CL2 analyzer to the same PLC input as distribution analyzer and test , POE alarm will now call out and also shut down process
1462865			1517, Mattawa DWS	OPER	Inspection	0		1517 Mattawa DWS Annual backflow valve Testing	CLOSE		10/2/19 08:05 AM	10/2/19 08:05 AM	1517 Mattawa DWS Annual backflow valve Testing -Completed annual backflow testing on both Backflow preventers in Water plant

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1501214			1517, Mattawa DWS	CORR	Inspection	0		Jumo Trending & POE Analyzer Repairs	COMP		11/28/19 01:41 PM	11/28/19 01:43 PM	JUMO trending & POE Analyzer Repairs -Claudel from STROMA was onsite November 27/2019. We connected with JUMO tech support to rectify the trending reviewing issue we had. JUMO tech found the issue to be outdated software. The software was updated and all trending was reviewable. Claudel also looked at out POE Analyzer to find out why it was not shutting the plant down and alarming out at low chlorine levels. He found there to be wires disconnected within the analyzer as well as settings disabled in the settings. Plugged the wires back in and enabled all the settings. The POE analyzer now shuts down the plant at 0.30 mg/L. JD nov 28/1
1453869	0000328804	ANALYZER CHLORINE / PH AIT 102	1517, Mattawa DWS	PM	Inspection	3	MONTHS	PH Analyzer Calibration (3m) 1517	COMP	10/1/19 12:00 AM	1/8/20 02:28 PM	1/8/20 02:28 PM	PH Analyzer Calibration (3m) 1517 -PH Analyzer Calibration in October when CL2 membrane and electrolyte change occurred. Did not change the PH probe as it was still working, New one is on hand however. JD
1453872			1517, Mattawa DWS	PM	Inspection	3	MONTHS	PH Analyzer Calibration (POE) (3m) 1517	COMP	10/1/19 12:00 AM	1/8/20 02:30 PM	1/8/20 02:30 PM	PH Analyzer Calibration (POE) (3m) 1517 - POE PH Analyzer Calibration in November when CL2 membrane, electrolyte and flow cell change occurred. Did not change the PH probe as it was still working, New one is on hand however. JD
1453875			1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	MONTHS	UVR Service (Spring & Fall) 1517	COMP	10/1/19 12:00 AM	1/8/20 02:25 PM	1/8/20 02:25 PM	UVR Service (Spring & Fall) 1517 -UVR fall service was done in October 2019. UVR were disassembled, cleaned, inspected and put back into service. JD

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1453882			1517, Mattawa DWS	PM	Inspection	3	MONTHS	Replace UV Air Filters 1517	COMP	10/1/19 12:00 AM	1/8/20 01:45 PM	1/8/20 01:45 PM	Replace UV Air Filters 1517 -Replaced UV air filters on Reactors # 1 & 2 at WTP in October 2019. JD
1453890	0000328767	ANALYZER UV PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	UVT Analyzer calibration to yellow box (1m) 1517	COMP	10/1/19 12:00 AM	10/25/19 11:22 AM	10/25/19 11:22 AM	UVT Analyzer calibration to yellow box (1m) 1517 - Verify Yellow box UVT analyzer against standard. Compare UVT OptiVu to Yellow box. Passed within required ranges.
1453936			1517, Mattawa DWS	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1517	COMP	10/1/19 12:00 AM	1/8/20 02:19 PM	1/8/20 02:19 PM	Alarm Dialer Route (1m) - 1517 -Alarm Dialer Route checked on October 9/19 during generator test, PASS all ok. JD
1453945			1517, Mattawa DWS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1517	COMP	10/1/19 12:00 AM	1/8/20 02:18 PM	1/8/20 02:18 PM	Health And Safety Inspection (1m) 1517 -Health And Safety Inspection completed on October 9/19 during monthly generator test. All ok. JD
1453958	0000328758	VALVE REGULATING	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Valve Regulating Inspection (1m) 1517	COMP	10/1/19 12:00 AM	1/8/20 02:33 PM	1/8/20 02:33 PM	Valve Regulating Inspection (1m) 1517 -Valve Regulating Inspection occurs on a daily basis, during my plant inspection. All valves are checked and operated the beginning of the month. JD
1453963	0000328754	WELL PRODUCING #2	1517, Mattawa DWS	PM	Inspection	1	YEARS	Well Producing (1y / 10y) Inspection 1517	COMP	10/1/19 12:00 AM	10/25/19 01:15 PM	10/25/19 01:15 PM	Well Producing (1y / 10y) Inspection 1517 - Annual well inspection completed September 11, 2019. No issues. Last ten year inspection completed October 15, 2018. Next due October 2028.
1490593	0000328787	ANALYZER UV TRANSMITTANCE	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	3	MONTHS	UV Transmitter Optiview calibration (6m) 1517	COMP	11/1/19 12:00 AM	11/28/19 03:05 PM	11/28/19 03:05 PM	Optiview maintenance -Cleaning and calibration of the Opti-view uv transmittance meter complete

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1490604	0000328763	ANALYZER TURBIDITY PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Turbidity Analyzer Calibration (1m) 1517	COMP	11/1/19 12:00 AM	11/1/19 02:27 PM	11/1/19 02:27 PM	Turbidity Analyzer Calibration (1m) 1517 -Verify Handheld Turb Analyzer-"PASSED". Monthly well turbidity samples Well # 1 0.25 NTU, Well # 2 0.30. NOV 1/19 JD
1490609	0000328770	UV LIGHT REACTOR #1	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#1) (1m / 1y) 1517	COMP	11/1/19 12:00 AM	1/8/20 02:17 PM	1/8/20 02:17 PM	UVR Reference Sensor check (UV#1) (1m / 1y) 1517 -UV # 1 reference sensor check was completed on November 15/19 - PASS. JD
1490612	0000328771	UV LIGHT REACTOR #2	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#2) (1m / 1y) 1517	COMP	11/1/19 12:00 AM	11/28/19 02:29 PM	11/28/19 02:29 PM	-Monthly reference sensor check complete. Uv #2 passed
1490615	0000328765	ANALYZER CHLORINE UNIT #3 PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Portable chlorine Analyzer #3 Calibration (1m) 1517	COMP	11/1/19 12:00 AM	1/8/20 02:11 PM	1/8/20 02:11 PM	Portable chlorine Analyzer #3 Calibration (1m) 1517 -Pocket Colorimeter Calibration on November 18/19- PASS. JD
1490658	0000328767	ANALYZER UV PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	UVT Analyzer calibration to yellow box (1m) 1517	COMP	11/1/19 12:00 AM	1/8/20 02:02 PM	1/8/20 02:02 PM	UVT Analyzer calibration to yellow box (1m) 1517 -Calibration and test on November 1/19 - PASS. JD
1490679			1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	YEARS	HVAC, Fans, Dehumidifiers, Heaters ,Louvres (1y) 1517	COMP	11/1/19 12:00 AM	1/16/20 09:24 AM	1/16/20 09:24 AM	
1490692			1517, Mattawa DWS	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1517	COMP	11/1/19 12:00 AM	1/8/20 02:00 PM	1/8/20 02:00 PM	Alarm Dialer Route (1m) - 1517 -Alarm dialer was checked at the same time as generator test is completed. Checked on November 28/19. JD
1490701			1517, Mattawa DWS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1517	COMP	11/1/19 12:00 AM	1/8/20 02:01 PM	1/8/20 02:01 PM	Health And Safety Inspection (1m) 1517 -Health and safety check completed - All OK. JD

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1490712	0000328789	TANK STORAGE FUEL ELECTRIC GENERATOR	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Storage Fuel Diesel Insp/ Service (1y) 1517	COMP	11/1/19 12:00 AM	1/8/20 01:59 PM	1/8/20 01:59 PM	Tank Storage Fuel Diesel Insp/ Service (1y) 1517 -I complete monthly inspections on the fuel tank, during the inspection of generator. All is ok no leaks or damage to the tank. Completed November 28/19 with generator test. JD
1490722	0000328758	VALVE REGULATING	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Valve Regulating Inspection (1m) 1517	COMP	11/1/19 12:00 AM	1/8/20 02:34 PM	1/8/20 02:34 PM	-Valve Regulating Inspection occurs on a daily basis, during my plant inspection. All valves are checked and operated the beginning of the month. No issues are visible. Checked the copper lines and fittings - no corrosion forming. JD
1490805			1517, Mattawa DWS	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 1517	COMP	11/1/19 12:00 AM	1/8/20 01:57 PM	1/8/20 01:57 PM	Analyzer Chlorine Inspection/ Service (1m) 1517 -Pocket cholorimeters were tested/ calibrated by hach on November 18/19 - PASS. JD
1501355	0000328760	GENERATOR ELECTRIC DIESEL	1517, Mattawa DWS	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1517	COMP	11/30/19 12:00 AM	1/8/20 01:55 PM	1/8/20 01:55 PM	Generator Monthly Test (1m) 1517 -Monthly generator test for November on November 28/19- All OK, transfer switches stuck momentarily, but then transferred over. JD
1526780	0000328763	ANALYZER TURBIDITY PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Turbidity Analyzer Calibration (1m) 1517	COMP	12/1/19 12:00 AM	1/8/20 01:54 PM	1/8/20 01:54 PM	Turbidity Analyzer Calibration (1m) 1517 -Hand Held Turbidity meter verification on December 2/19 - PASS. JD
1526785	0000328770	UV LIGHT REACTOR #1	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#1) (1m / 1y) 1517	COMP	12/1/19 12:00 AM	1/8/20 01:52 PM	1/8/20 01:52 PM	UVR Reference Sensor check (UV#1) (1m / 1y) 1517 -UV # 1 reference sensor check completed on December 12/19 - PASS. JD

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1526788	0000328771	UV LIGHT REACTOR #2	1517, Mattawa DWS	PM	Calibration	1	MONTHS	UVR Reference Sensor check (UV#2) (1m / 1y) 1517	COMP	12/1/19 12:00 AM	1/8/20 01:51 PM	1/8/20 01:51 PM	UVR Reference Sensor check (UV#2) (1m / 1y) 1517 -UV # 2 reference sensor check completed on December 12/19 - PASS. JD
1526791	0000328765	ANALYZER CHLORINE UNIT #3 PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Portable chlorine Analyzer #3 Calibration (1m) 1517	COMP	12/1/19 12:00 AM	1/8/20 01:50 PM	1/8/20 01:50 PM	Portable chlorine Analyzer #3 Calibration (1m) 1517 -Verification with gelex standards- PASS. December 31/19. JD
1526834	0000328767	ANALYZER UV PORTABLE	1517, Mattawa DWS	PM	Inspection	1	MONTHS	UVT Analyzer calibration to yellow box (1m) 1517	COMP	12/1/19 12:00 AM	1/8/20 01:49 PM	1/8/20 01:49 PM	UVT Analyzer calibration to yellow box (1m) 1517 -Completed calibration- PASS, December 2/19. JD
1526855			1517, Mattawa DWS	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1517	COMP	12/1/19 12:00 AM	1/8/20 01:48 PM	1/8/20 01:48 PM	Alarm Dialer Route (1m) - 1517 -Alarm dialer checked at the time of generator inspection on Decmeber 31/2019. JD
1526864	0000328755	PUMP CENT WELL #1	1517, Mattawa DWS	PM	Inspection	1	YEARS	Pump Cent Insp/Service (1y) - 1517	COMP	12/1/19 12:00 AM	1/17/20 08:23 AM	1/17/20 08:23 AM	Pump Cent Insp/Service (1y) - 1517 - Inspected Well Pump # 1 - no Visible issues found Greased the shaft bearing with one shot of food grade grease. JD
1526872	0000328756	PUMP CENT WELL #2	1517, Mattawa DWS	PM	Inspection	1	YEARS	Pump Cent Insp/Service (1y) - 1517	COMP	12/1/19 12:00 AM	1/17/20 08:22 AM	1/17/20 08:22 AM	Pump Cent Insp/Service (1y) - 1517 -Well pump #2 was inspected- no visible issues. Greased the bearing with one shot of food grade grease. JD
1526880			1517, Mattawa DWS	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1517	COMP	12/1/19 12:00 AM	1/8/20 02:15 PM	1/8/20 02:15 PM	Health And Safety Inspection (1m) 1517 -Health and safety inspection completed on December 31/19 during generator inspections. All OK. JD

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1526893	0000328758	VALVE REGULATING	1517, Mattawa DWS	PM	Inspection	1	MONTHS	Valve Regulating Inspection (1m) 1517	COMP	12/1/19 12:00 AM	1/8/20 02:36 PM	1/8/20 02:36 PM	Valve Regulating Inspection (1m) 1517 -Valve Regulating Inspection occurs on a daily basis, during my plant inspection - no visible issues. All valves are checked and operated the beginning of the month. Valves all working OK. JD
1526963			1517, Mattawa DWS	PM	Calibration	1	MONTHS	Analyzer Chlorine Inspection/ Service (1m) 1517	COMP	12/1/19 12:00 AM	1/8/20 02:14 PM	1/8/20 02:14 PM	Analyzer Chlorine Inspection/ Service (1m) 1517 -Pocket analyzer verification completed on December 31/19 - PASS. JD



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MATTAWA WATER & WASTEWATER SYSTEMS QUARTERLY OPERATIONS REPORT

Appendix B - Work Order Summary for WWTL

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1500656			1541, Mattawa Wastewater System	CORR	Refurbish/ Replace/Repair	0		1541 first street sewage high level float	COMP		11/22/19 02:28 PM	12/19/19 09:23 AM	1541 first street sewage high level float -test existing high level float , float tested good .Wire in new float and test to alarm system. (all good) problems with intermittent high level alarms , suspect resistive loop to alarm panel defective causing alarm zone to toggle on and off.
1500492			1541, Mattawa Wastewater System	CAP	Refurbish/ Replace/Repair	0		replace float 101 Bisette st first st ps Mattawa 1541	COMP		11/21/19 08:15 AM	12/19/19 09:20 AM	replace float 101 Bisette st first st ps Mattawa 1541 - new high level float required due to numerous false high level alarms. the plan was to dig and core a new 1 1/4" conduit but upon further inspection a 3/4" original conduit was not being used. we were able to fish a line through and pull float cable back through. Called Rick H to wire up float. Rick to come next day to due so. TF Nov 20/19
1462914			1541, Mattawa Wastewater System	PM	Inspection	0		Lifting Devices Inspection @ Sewage Stations 1541	COMP		12/11/19 10:38 AM	12/11/19 10:38 AM	Lifting Devices Inspection@ Sewage Stations 1541 - Inspection of Lifting devices at 451 Bisett St station, 300 Mattawan St. Station, 601 Mckenzie St Station. Inspection to be done by Trans Canada Safety. A list of devices are as Follows: 1- 2 Ton Jib Crane, 1- Jib with hand winch, 1- electric hoist.
1462915			1541, Mattawa Wastewater System	PM	Inspection	0		Confined Space Equipment Inspection- 1541	COMP		12/11/19 10:33 AM	12/11/19 10:33 AM	Confined Space Equipment Inspection- 1541 - Inspection of all confined space equipment to be done by Trans Canada Safety. The following equipment is to be inspected and certified: 7- Davit Bases, 1- Davit arm, 1- Hitch attachment, 2- SRL type 1, 2- SRL Type 3, 1- Tripod, 3- Harness, 4- Roof anchors.

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1465535			1541, Mattawa Wastewater System	OPER	Refurbish/ Replace/Repair	0		Pump alarm, 451 Bissett- 1541	COMP		10/7/19 07:30 AM	10/7/19 08:00 AM	Pump alarm, 451 Bissett- 1541 - Called by true steel for pump alarm at 451 Bissett St, arrived at 0729, found sensor fail alarm to be active, checked the wet well and panel, everything seemed OK. Reset all alarms, and the station operating as normally. JD
1465607	0000328854	UV LIGHT REACTOR SYSTEM	1541, Mattawa Wastewater System	CORR	Refurbish/ Replace/Repair	0		UV Module Repair-1541	COMP		10/31/19 08:30 AM	10/31/19 08:37 AM	UV Module Repair-1541 - UV module # 4 had more them one UV light out, UV module was pulled from service and replaced with the spare module. Once this change took place, the control board showed module was still off, upon inspection of the uv lights again, all modules are on. Looking into the issue at the lagoon building and the uv control panel. UV #4 & 5 showed off and non controllable. This happened in the past and all the boards had to be changed to rectify the issue, however this does not prevent the lights from staying on. It seems to be a communication issue. JD
1493551	0000328854	UV LIGHT REACTOR SYSTEM	1541, Mattawa Wastewater System	OPER	Refurbish/ Replace/Repair	0		UV Fail Alarm- 1541	COMP		11/1/19 09:33 AM	1/16/20 09:03 AM	UV Fail Alarm- 1541 -Called by truesteel security at 0841 for UV Fail Alarm at the lagoon. Arrived at 0915- inspected the UV lights, they were all on and working. Checked the UV panel at the lagoon building, there were no alarms on the panel. Only active alarm was on the True steel alarm dialer. Will monitor for any problems with the dialer, JD
1495924			1541, Mattawa Wastewater System	OPER	Predictive Maintenance	0		Wet Well & Lagoon Box Cleaning-1541	COMP		11/15/19 02:26 PM	11/15/19 02:26 PM	Wet Well & Lagoon Box Cleaning-1541 -7 wet wells, and 1 lagoon box to be cleaned. Xsite from Renfrew is to be onsite Nov 4/19 to complete.

Workorder Summary Report

Report Start Date: Oct 1, 2019 12:00 AM

Report End Date: Dec 31, 2019 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
1453812	0000328854	UV LIGHT REACTOR SYSTEM	1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	UV Reactor service Fall (2m) 1541	COMP	10/1/19 12:00 AM	1/13/20 11:51 AM	1/13/20 11:51 AM	UV Reactor service Fall (2m) 1541 -November 28/2019, completed cleaning and inspection of all UV modules. All ok. Last cleaning was in the spring, lights were not very dirty for length of time from last cleaning. JD
1453972	0000328874	GENERATOR ELECTRIC DIESEL BACKUP POWER	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	10/1/19 12:00 AM	1/13/20 11:41 AM	1/13/20 11:41 AM	Generator Monthly Test (1m) 1541 -Generator Test- OK, Transfer switch is sticking, but but slowly transfers over.JD
1453975	0000328842	GENERATOR ELECTRIC DIESEL 601 MCKENZIE ST.	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	10/1/19 12:00 AM	1/13/20 11:42 AM	1/13/20 11:42 AM	
1453978	0000328901	GENERATOR ELECTRIC DIESEL	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Generator Monthly Test (1m) 1541	COMP	10/1/19 12:00 AM	1/13/20 11:42 AM	1/13/20 11:42 AM	
1453990			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	COMP	10/1/19 12:00 AM	1/13/20 11:43 AM	1/13/20 11:43 AM	
1453997			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	COMP	10/1/19 12:00 AM	1/13/20 11:43 AM	1/13/20 11:43 AM	
1464199	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	COMP	10/16/19 12:00 AM	1/13/20 11:43 AM	1/13/20 11:43 AM	Alum Tank inspection - 1541 -Completed monthly Alum tank inspection- All looks OK
1490745			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	COMP	11/1/19 12:00 AM	1/13/20 11:44 AM	1/13/20 11:44 AM	
1490752			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	COMP	11/1/19 12:00 AM	1/13/20 11:44 AM	1/13/20 11:44 AM	
1499963	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	COMP	11/16/19 12:00 AM	1/13/20 11:44 AM	1/13/20 11:44 AM	
1526918			1541, Mattawa Wastewater System	PM	Inspection	1	MONTHS	Alarm Dialer Route (1m) - 1541	COMP	12/1/19 12:00 AM	1/13/20 11:44 AM	1/13/20 11:44 AM	
1526925			1541, Mattawa Wastewater System	PM	Health and Safety	1	MONTHS	Health And Safety Inspection (1m) 1541	COMP	12/1/19 12:00 AM	1/13/20 11:45 AM	1/13/20 11:45 AM	
1526945	0000328828	UPS BATTERY BACKUP 451 BISSETT ST.	1541, Mattawa Wastewater System	PM	Inspection	1	YEARS	Ups Battery Bank Insp/Service (1y) 1541	COMP	12/1/19 12:00 AM	1/17/20 08:20 AM	1/17/20 08:20 AM	

Workorder Summary Report

Report Start Date: Oct 1, 2019 12:00 AM

Report End Date: Dec 31, 2019 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
1536090	0000328888	TANK STORAGE ALUM	1541, Mattawa Wastewater System	PM	Refurbish/ Replace/Repair	1	MONTHS	Tank Alum Inspection (1m) - 1541	COMP	12/16/19 12:00 AM	1/13/20 11:45 AM	1/13/20 11:45 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: Oct 1, 2019 12:00 AM

Report End Date: Dec 31, 2019 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
1463367			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		pump fault 1517 Mattawa wtp	COMP		10/5/19 02:00 PM	10/5/19 04:15 PM	pump fault 1517 Mattawa wtp - called by true steel at 1341 for pump fault. arrived at 1445 cleared air from cl2 lines reset sure feed system system started.Tf oct 7/19
1464747			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		cl2 Pump fault Mattawa 1517	COMP		10/20/19 08:00 PM	10/20/19 10:00 PM	cl2 Pump fault Mattawa 1517 - Called by true steel @ 1942 for pump fault. arrived at 2030 bled air from lines cleared sure feed alarms. cleared scada alarms and pumps started. reviewed trending. TF Oct 21/19
1499510			1517, Mattawa DWS	CALL	Compliance	0		72 hour checks Mattawa DWS 1517	COMP		11/12/19 09:59 AM	11/12/19 10:04 AM	72 hour checks Mattawa DWS 1517 - Reviewed scada trending remotely for cl2 and UV. recorded min max and avg for cl2 and UV intensity. also recorded uvt transmittance. TF Nov10/19
1500486			Mattawa DWS	EMER	Refurbish/ Replace/Repair	0		350 Main st water service leak Mattawa 1517	COMP		11/18/19 08:00 AM	11/19/19 04:00 PM	350 Main st water service leak Mattawa 1517 - Called by Josh D on Nov 15 re: water service leak and repair scheduled Nov 18. asked if they were going to pull a new service and the answer was no. called Ray B suggested borrowing the pipe puller from North Bay pw. which we did. watermain 9.5' deep service at 7' after getting control of the water we vac'd down at service box and fed cable through old copper and were able to pull copper out and feed new 3/4" poly in. service was aprox 30'. TF Nov19/19

Workorder Summary Report

Report Start Date: Oct 1, 2019 12:00 AM

Report End Date: Dec 31, 2019 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
1501278			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		PLC fault low resevoir Mattawa 1517	COMP		11/28/19 08:30 PM	11/29/19 12:15 AM	PLC fault low resevoir Mattawa 1517 - Called by True steel at 2024 for plc fault. attempted to view scada remotely unable to do so, attempted to view aviva insight unable to connect. arrived at 2200 found reservoir level at .55 m poe cl2 at 0.66. no pumps running. started well pump 1 in hand uv warming up. cl2 pump running. tried acknowledging faults. came back on. called Josh D to see how to clear alarms. went to true steel screen only low reservoir alarm on then poe alarm activated. checked poe 0.22 than up to 0.76. reset only low level alarm active. reviewed trending. noticed well pump shut down when poe hit 0.22 at 1915 and didnt restart. adjusted low level to 0.90m alarm cleared. pump 1 back in auto. TF Nov28/19
1534743			Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		UV 2 Fault	COMP		11/30/19 07:15 PM	11/30/19 09:00 PM	UV 2 Fault - Called by True Steel at 1850 for a uv 2 fault. reviewed scada remotely noticed flow switched to uv 1. Well pump running. acknowledged alarms remotely.UV2 still in alarm. will continue to monitor remotely. TF Nov 30/19
1463121			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Emergency Water off 741 Brydges 1517	COMP		10/4/19 11:54 AM	11/1/19 09:51 AM	Emergency Water off 741 Brydges 1517 - Called @ 0954 to 741 Brydges st for emergency water shut off, arrives @ 1024, customer advised that they had stopped the leak and a shut off was not required. No further action was taken. JD

Workorder Summary Report

Report Start Date: Oct 1, 2019 12:00 AM

Report End Date: Dec 31, 2019 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
1463122			1517, Mattawa DWS	CALL	Inspection	0		Generator Running Due to Power Fail 1517	COMP		10/4/19 11:59 AM	11/1/19 09:51 AM	Generator Running Due to Power Fail 1517 - All 4 generators running due to power failure. Check all stations and monitor station levels and generators. Called at 1322 for Multiple alarms at all stations in regards to power failure and generators running. Arrived to check on stations at 1350. JD
1463123			1517, Mattawa DWS	CALL	Compliance	0		Low Chlorine Alarm at WTP 1517	COMP		10/4/19 12:06 PM	11/1/19 10:06 AM	Low Chlorine Alarm at WTP 1517 - Called at 2043 for Low Chlorine at the WTP, arrived at 2110 to find the plant shut down due to low chlorine. Both pumps had a chlorine air lock, but flows sensors were still being activated when i tried to clear the lines. Review the trending to ensure compliance was met. opened all the taps in the facility to backflush and get chlorinated water back to the analyzer. once the levels had reached operating level, i cleared all alarms and the plant went into auto startup, however the chlorine pumps still were not running. checked the pumps again and found that a wore had come loose and fallen off when i touched it, i plugged the wire back in and the pumps started working again. Restarted the plant and everything was running as it should. Signed out at 2230 JD

Workorder Summary Report

Report Start Date: Oct 1, 2019 12:00 AM

Report End Date: Dec 31, 2019 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
1463397			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Chlorine Pump Failure WTP 1517	CLOSE		10/7/19 08:52 AM	10/7/19 09:01 AM	Chlorine Pump Failure WTP 1517 - Called by Tim, to go check on a chlorine pump failure at the water treatment plant. Call from truesteel @ 1639, Tim notified me at 1654. Tim stated the Reservoir level was at 2.19M when he reviewed remotely. Arrival at the WTP at 1815 to find both chlorine pumps were in alarm. Cleared the air from both pump lines, reset the sure feed panel alarms, cleared SCADA alarms and the plant auto started. Signed out at 1840. JD
1465615			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Metering Alarm- Chlorine Pumps Fail 1517 Mattawa	COMP		10/31/19 09:19 AM	10/31/19 09:23 AM	Metering Alarm- Chlorine Pumps Fail 1517 Mattawa - Called by True steel @ 2020, for chemical duty pump failure, arrived onsite @ 2040. Found both pumps to be in alarm and air lock in both chlorine feed lines from the tank. Cleared the air from the lines, reset the Surefeed panel alarms. Reviewed the trending all OK. Reset the SCADA alarms and the plant went into auto start. JD

Workorder Summary Report

Report Start Date: Oct 1, 2019 12:00 AM

Report End Date: Dec 31, 2019 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
1465627			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Low Chlorine alarm at WTP- 1517	COMP		9/24/19 09:15 PM	9/24/19 10:30 PM	Low Chlorine alarm at WTP- 1517 -Called out at 2043 for Low Chlorine Alarm, arrived at 2110. Found Chlorine pumps with airlock, but still setting off the flow sensors. Cleared air lock from pumps. Reset alarms, when the plant restarted the chlorine pumps were not running (pre chlorinating). I manually stopped the plant startup. Checked all wires and pumps at the chlorine pumps, found a control wire that was disconnected. reconnected the wire, cleared all the alarms.. Restarted the plant and all equipment running as it should.Signout at 2230. JD Duplicte See WO # 1463123 -This is a duplicate log for Sept 24/19 low chlorine call out. See WO # 1463123 for all details. JD Nov. 1/19
1500702	0000328802	PUMP DIAPHRAGM 02 SODIUM HYPOCHLORITE	1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Metering pump alarm at 400 Bissett	COMP		11/24/19 04:59 AM	11/24/19 05:59 AM	Metering pump alarm 400 Bissett-1517 -Called at 0459 by truesteel for Metering pump alarm at 400 Bissett. Arrived at 0534 to find both chlorine pumps in alarm. Reviewed trending, plant shutdown was due to chlorine pump failure. Cleared air from both pumps. Reset alarms on sure feed board. Reset SCADA alarms and the plant restarted. Also found a cracked fitting on chlorine pump #2, changed the fitting and the leak stopped.

Workorder Summary Report

Report Start Date: Oct 1, 2019 12:00 AM

Report End Date: Dec 31, 2019 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
1534708			1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		Emergency Water Off 701 Mattawan St. 1517	BUSCOMP		11/24/19 09:45 AM	11/24/19 01:45 PM	Emergency Water Off 701 Mattawan St. -Called by Barry Jackson (public works boss) for emergency water off at 701 Mattawan St at 0945. Arrived on site at approx. 1010. Had problems location the standpipe. Eventually located the standpipe and shut off the water, Water turned off at 1115. Josh D.
1534714			1517, Mattawa DWS	EMER	Refurbish/ Replace/Repair	0		Watermain Break 5th & Bissett- 1517	COMP		12/3/19 10:24 AM	12/3/19 10:28 AM	Watermain Break 5th & Bissett- 1517 -Town called me to assist with classifying and determining a water leak at 5th & Bissett. Determined that is was the main due to the location and no other houses around. The town dug and repaired the 4" cast iron main with a steel band clamp. The break was a circular clean break. The main was approx. 6' deep. Assisted with classifying and paperwork for the dig. Josh D
1534715			1517, Mattawa DWS	EMER	Refurbish/ Replace/Repair	0		Water line Replace 331 2nd St.- 1517	COMP		11/26/19 08:00 AM	12/3/19 10:36 AM	Water line Replace 331 2nd St.- 1517 -I was called by the town for a leaking water service at 331 2nd street. Assisted with determining course of action and required steps, and paperwork. Gave the recommendation to replace the entire line due to it only being max 10' in length. The town proceeded to dig and replace the service with 3/4" plastic, a saddle, and new main stop, as well as a new curb stop. the line was approx. 6-7' deep and 8-10' in length. Josh D

Workorder Summary Report

Report Start Date: Oct 1, 2019 12:00 AM

Report End Date: Dec 31, 2019 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
1535115	0000328798	PANEL CONTROL UV #1	1517, Mattawa DWS	CALL	Refurbish/ Replace/Repair	0		UV #1 Failure @WTP - 1517	COMP		12/6/19 03:18 AM	12/6/19 08:19 AM	Uv #1 Fail at WTP -Called by truesteel at 0318 for uv 1 fail alarm. Could not remote in to check on the plant. Arrived at the plant at 0350. Found uv1 bulb #2 failed. Plant did not auto start on uv2. I cleared all alarms and plant auto started on uv2. I removed bulb 2 from uv1 and installed a new one. Reset uv1 and all alarms. All is ok. Found the uv bulb to have burnt the filament wire off. JD
1536674	0000328798	PANEL CONTROL UV #1	1517, Mattawa DWS	CALL	Compliance	0		UV 1 fail alarm 400 Bissett-1517	COMP		12/21/19 05:50 PM	1/7/20 03:53 PM	UV 1 Fail - 400 Bissett- 1517 -Called by truesteel at 1750 for uv1 fail. Attempted to review the plant remotely to no success. Therefore an on-site was required to ensure the plant was running. Arrived at 1824. Found the plant running on uv2. Uv 1 alarm for low uv dosage. Reviewed the trending- lowest Uv dosage 1748-1749 @ 45.3 my/cm2. Alarm set point is 48 my/cm2 for 60 seconds. Could not find any issues with uv1. Reset all alarms and will monitor uv 1 when operating. JD



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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, 2019 12:00 AM

Report End Date: Dec 31, 2019 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
1464745			1541, Mattawa Wastewater System	CALL	Refurbish/ Replace/Repair	0		High level alarm 101 bissette st Mattawa 1541	COMP		10/19/19 12:30 PM	10/19/19 12:45 PM	High level alarm 101 bissette st Mattawa 1541 - Recieved multiple calls for false high level alarm 101 bissette st ps. parts ordered to replace/bury new float in an attempt to stop nuisance alarms. TF Oct 21/19
1534745			1541, Mattawa Wastewater System	CALL	Refurbish/ Replace/Repair	0		Overvoltage alarm Mattawa 1541	COMP		12/1/19 09:00 AM	12/1/19 09:45 AM	Overvoltage alarm Mattawa 1541 - Called by True steel at 0850 for over voltage at 350 bissette st. reviewed trending for the wtp acknowledged alarms. true steel called back said uv 2 in alarm. acknowledged again. no other alarms. called true steel as the address they gave was off. i asked if it was 451 bissette or 400 hundred bissette and they mentioned 101 bissette but said nothing is in alarm except uv 2 fault. Spoke with Josh D said 350 mattawan st ps pump faulted couldnt reset need to pull and see whats jamming impellar. TF Dec1/19
1537075			1541, Mattawa Wastewater System	CALL	Refurbish/ Replace/Repair	0		101 Bissette st first st pump station 1541 Mattawa	COMP		12/29/19 08:45 AM	12/29/19 09:45 AM	101 Bissette st first st pump station 1541 Mattawa - Recieved multiple alarms for high level at Bissette st ps. float was recently changed and were advised if calls continue to have true steel check their equipment. Called true steel to speak with tech and set up appointment to come and check their panel. TF Dec 29/19

Workorder Summary Report

Report Start Date: Oct 1, 2019 12:00 AM

Report End Date: Dec 31, 2019 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
1534710			1541, Mattawa Wastewater System	CALL	Refurbish/ Replace/Repair	0		Low Chlorine Alarm at 400 Bissett-1541	COMP		11/13/19 07:30 PM	11/13/19 11:45 PM	Low Chlorine Alarm at 400 Bissett-1541 -Called by Truesteel at 1925, for Low Chlorine Alarm at WTP. Arrived at 1950. Found the discharge valve on the Metcon Chlorine board to be in the closed position. Opened the valve back up, flushed chlorinated water back to the plant and started the plant. The closed valve was an oversight when the metcon board had calibrations done that afternoon. JD



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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 01/17/2020 09:35

Facility: [1517] MATTAWA DRINKING WATER SYSTEM

Works: [210001905]

	10/2019	11/2019	12/2019	<--Total-->	<--Avg.-->	<--Max.-->	<--Min.-->
Flows:							
Raw Flow: Monthly Total - Well #1 (m³)	33675.92	41444.31	38838.47	113958.7			
Raw Flow: Monthly Total - Well #2 (m³)	4848.49	7270.44	9201.7	21320.63			
Raw Flow: Monthly Avg - Well #1 (m³/d)	1086.32	1381.48	1252.85		1240.22		
Raw Flow: Monthly Avg - Well #2 (m³/d)	156.4	242.35	296.83		231.86		
Raw Flow: Monthly Max - Well #1 (m³/d)	1483.77	1732.42	1385.83			1732.42	
Raw Flow: Monthly Max - Well #2 (m³/d)	516.98	581.54	507.43			581.54	
Raw Flow: Monthly Total - Raw Water - Total (m³)	38524.41	48714.75	48040.17	135279.33			
Raw Flow: Monthly Avg - Raw Water - Total (m³/d)	1242.72	1623.83	1549.68		1472.08		
Raw Flow: Monthly Max - Raw Water - Total (m³/d)	1607.21	2138.39	1702.57			2138.39	
Turbidity:							
Raw: Max Turbidity - Well #1 (NTU)	0.32	0.25	0.3			0.32	
Raw: Max Turbidity - Well #2 (NTU)	0.33	0.3	0.31			0.33	
Chemical Parameters:							
Treated: Max Nitrite - TW (mg/L)	< 0.1					< 0.1	
Treated: Max Nitrate - TW (mg/L)	< 1.48					< 1.48	
Distribution: Max THM - DW (µg/l)	3.49					3.49	
Chlorine Residuals:							
Treated: Min Free Cl2 Resid - TW (mg/L)	0.045	0.009	0.274				0.009
Treated: Max Free Cl2 Resid - TW (mg/L)	4.119	4.119	4.119			4.119	
Dist: Min Free Cl2 Resid - DW (mg/L)	0.562	0.168	0.222				0.168
Dist: Max Free Cl2 Resid - DW (mg/L)	1.639	1.903	0.978			1.903	
Bacti Samples Collected:							
Raw Bacti: # of samples - Well #1	5	4	6	15			
Raw Bacti: # of samples - Well #2	5	4	6	15			
Treated Bacti: # of samples - TW	5	4	5	14			
Dist Bacti: # of samples - DW	15	12	15	42			
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 01/17/2020 13:37

October 1, 2019 to December 31, 2019

Facility: [1541] MATTAWA WASTEWATER TREATMENT FACILITY

Works: [110000436]

	10/2019	11/2019	12/2019	<--Total-->	<--Avg.-->	<--Max.-->	<--Criteria-->
Flows:							
Raw Flow: Total - Raw (m³)	22461.00	24912.00	22682.00	70055.00			
Raw Flow: Avg - Raw (m³/d)	724.55	830.40	731.68		762.21		
Raw Flow: Max - Raw (m³/d)	942.00	1316.00	828.00			1316.00	
Eff. Flow: Total - Eff (m³)	22461.00	24912.00	22682.00	70055.00			
Eff. Flow: Avg - Eff (m³/d)	724.55	830.40	731.68		762.21		
Eff. Flow: Max - Eff (m³/d)	942.00	1316.00	828.00			1316.00	
Carbonaceous Biochemical Oxygen Demand: CBOD:							
Eff: Avg cBOD5 - Eff (mg/L)	4.200	5.400	3.300		4.300	5.400	25.0
Eff: # of samples of cBOD5 - Eff (mg/L)	1	1	1	3			
Loading: cBOD5 - Eff (kg/d)	3.043	4.484			3.764	4.484	
Biochemical Oxygen Demand: BOD5:							
Raw: Avg BOD5 - Raw (mg/L)	144.500	< 128.800		<	136.650	144.500	
Raw: # of samples of BOD5 - Raw (mg/L)	1	1		2			
Eff: Avg BOD5 - Eff (mg/L)	4.600	6.200	5.100		5.300	6.200	30.0
Eff: # of samples of BOD5 - Eff (mg/L)	1	1	1	3			
Loading: BOD5 - Eff (kg/d)	3.333	5.148			4.241	5.148	
Percent Removal: BOD5 - Raw (mg/L)	0.000	0.000				0.000	
Total Suspended Solids: TSS:							
Raw: Avg TSS - Raw (mg/L)	149.000	120.000			134.500	149.000	
Raw: # of samples of TSS - Raw (mg/L)	1	1		2			
Eff: Avg TSS - Eff (mg/L)	3.800	2.200	6.500		4.167	6.500	30.0
Eff: # of samples of TSS - Eff (mg/L)	1	1	1	3			
Loading: TSS - Eff (kg/d)	2.753	1.827			2.290	2.753	
Percent Removal: TSS - Raw (mg/L)	0.000	0.000				0.000	
Total Phosphorus: TP:							
Raw: Avg TP - Raw (mg/L)	2.830	2.880			2.855	2.880	
Raw: # of samples of TP - Raw (mg/L)	1	1		2			
Eff: Avg TP - Eff (mg/L)	0.770	0.888	1.266		0.975	1.266	2.5
Eff: # of samples of TP - Eff (mg/L)	5	4	5	14			
Loading: TP - Eff (kg/d)	0.558	0.722	0.841		0.707	0.841	3.91
Percent Removal: TP - Raw (mg/L)	0.000	0.000				0.000	
Nitrogen Series:							
Eff: Avg TAN - Eff (mg/L)	18.380	20.425	18.960		19.255	20.425	
Eff: Avg NO3-N - Eff (mg/L)	< 1.000	< 1.000	< 1.000	<	1.000	< 1.000	
Eff: # of samples of NO3-N - Eff (mg/L)	1	1	1	3			
Eff: Avg NO2-N - Eff (mg/L)	< 0.100	< 0.100	< 0.100	<	0.100	< 0.100	
Eff: # of samples of NO2-N - Eff (mg/L)	1	1	1	3			