Ontario Clean Water Agency
Agence Ontarienne Des Eaux
Northeastern Ontario Region

MATACHEWAN DRINKING WATER SYSTEM QUARTERLY OPERATIONS REPORT

Prepared By: The Ontario Clean Water Agency

Prepared for: The Township of Matachewan

SYSTEM OVERVIEW

July 1 to September 30, 2024

HIGHLIGHTS

- Overall the plant is running well

CAPITAL PLAN PROGRESS

The Capital Letter, which provides a list of recommended capital and major maintenance for 2024 was provided to the Owner in December 2023. Approval or rejection of the capital projects identified in the letter is a requirement under the system's Quality and Environmental Management System. OCWA is awaiting a written response.

Status of capital work for this quarter of 2024 is captured in Appendix A

INCIDENTS

There were no incidents documented this quarter.

COMPLAINTS

September 6 Taste complaint at 40 Dales St - resident complained that the water tasted like bleach, burned his stomach, made him sick and is concerned about it causing cancer. Field chlorine residuals from multiple locations within the residence indicate that the chlorine is within normal ranges.

CALL-OUT SUMMARY

Number of Call-outs this Quarter:	4
Total Call-outs to Date (2024):	9
Annual Call-in Allowance:	8
Details of the Call-outs:	Refer to Appendix B for a detailed call back summary.

REGULATORY

Inspections

- There was an inspection by the Ministry of Environment, Conservation and parks on August 20.

Quality & Environmental Management System (QEMS)

- The internal audit was conducted on August 20

Sampling, Testing and Monitoring

- Refer to Appendix C for a Performance and Quarterly Data Summary.

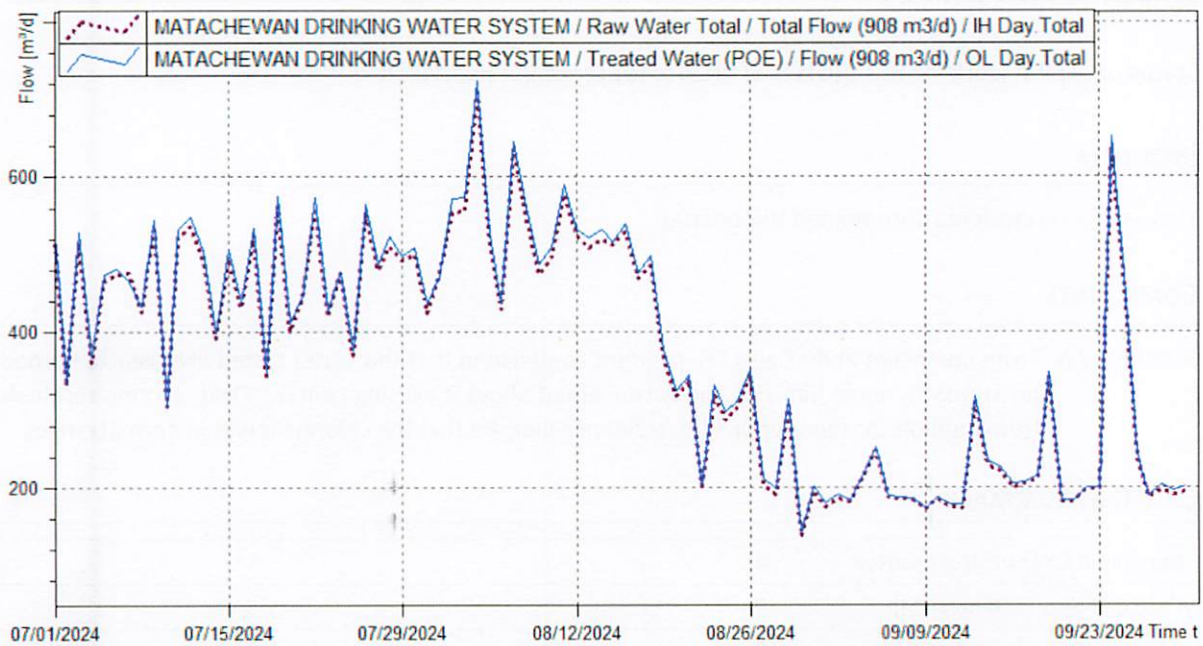
FLOW SUMMARY

Matachewan Water Treatment Plant – Flow Comparison

	Total Raw Flows (m^3/d)	Total Treated Flows (m^3/d)	Average Daily Treated Flow (m^3/d)	Maximum Treated Flow (m^3/d)
July	14,328	14,580	470	576
August	13,025	13,312	429	724
September	6,844	6,971	232	653
Compliance	-	-	-	908

Raw Flow verses Treated Flow

July 1 to September 30, 2024



HEALTH AND SAFETY

- All safety equipment at each plant was checked monthly to ensure that they are in good working order.
- Health and Safety Training/Sessions completed this quarter include:
  - ✓ Annual review of safety data sheets
  - ✓ Psychosocial hazards
  - ✓ OCWA's STOP program

APPENDIX A

Call-out Summary

Capital Plan Progress Update (based on information kept on file by Eric Nielson, Regional Hub Manager)

Project Number	Project Name	Client PO#	Maximo WO#	Capital Letter	Estimated Completion	Billing Date	Quotation	Billed Revenue
MATACN7203-24ZZ	reclaim tank haulage 2024		3847258	yes	December	24-May-24		$3,527
MATACN7203-24ZZ	relocate reclaim pipe		3703843	no		24-May-24		$191
MATACN7203-24ZZ	dialer battery replacement		3707120	no		24-May-24		$33
MATACN7203-24ZZ	hydrant repair		3951354	no	July	03-Jul-24	$1,900	$1,438
MATACN7203-24ZZ	lifting device inspections		3901438	yes	April	11-Sep-24	$700	$700
	shelf spare reclaim pump			yes			$2,000	
	backflow prevention valve inspection			yes			$500	
	spare hypo pump			yes			$6,000	
	spare parts kit for chemical pumps			yes			$500	
	membranes and electrolyte for analyzer			yes			$600	
	sludge haulage from reclaim			yes			$4,000	
MATACN7203-24ZZ	DWQMS third party audit		4143414	yes	September		$1,300	
	spring and fall flushing			yes			$6,000	
	fire extinguisher checks			yes			$200	
	tower inspection and cleaning			yes			$3,000	
MATACN7203-24ZZ	reclaim tank haulage 2024		3847258	yes	December			
MATACN7203-24ZZ	genset maintenance		3949738	yes	June		$1,000	
MATACN7203-24ZZ	purchase and install fire hydrant parts			yes			$11,000	
MATACN7203-24ZZ	watermain break locate and repair	Cheryl	4092075	no	August		$5,000	

APPENDIX A

Call-out Summary

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Work Order Call Back Details Report

4091323: Filter Chlorine Analyzer Plant Lock-Out

Asset:
Location: 7203-WTMA-P-PC 7203, Matachewan WTP, Process, Process Controls

Page Time:	08/03/2024 11:00 AM
Arrive time:	08/03/2024 12:30 PM
Leave time:	08/03/2024 03:30 PM
Finish Time:	08/03/2024 04:05 PM
Report Date:	8/4/24
Reported By:	Kodiak Jolivet
Supervisor:	

Site:	OCWASITE
Priority:	5
Work Type:	CALL
Status:	CLOSE
Classification	COMPLIANCE
GL Account:	MATACN7203-24CO

Actual Labor

Task ID	Craft	Labor	Regular Hours	Premium Hours
	OPERATOR	Kodiak Jolivet	00:00	05:00

Log

Date	Created By	Description
8/4/24	Kodiak Jolivet	Filter Chlorine Analyzer Plant Lock-Out

@11:08 Recieved low chlorine alarm. @11:12 Viewed WTP remotely and saw Compliance Analyzer was above 1.90 ppm in residual however filter analyzer dropped out causing plant shut-off. Will make my way to facility as soon as possible. @12:26 Initial plant check done, Compliance analyzer 1.90 ppm, tower level 29.46 m. @12:32 Filtering to waste set-up, dechlorination pucks added to discharge area. @12:33 Turned Well# 2 into use by changing Well pump limits on Well# 1 and 2 temporarily. @12:35 Chlorine pump speed well# 2 changed 12 to 20 to confirm function and degas if necessary. @12:36 Disabled Filter analyzer alarms LO and LOLO to prevent shut down. @12:41 Chemical pump speed Well #2 changed 20 to 40. @12:47 Chemical pump speed changed Well#2 40 to 60. @12:49 Chemical pump speed Well# 1 changed 50 to 56 as a precaution for switch over check, Well# 2 chemical speed for 60 to 50. @12:54 Filter to waste residual check 2.07 ppm. @12:59 Filter free chlorine analyzer (OL: 1.09 ppm, HH: 1.12 ppm) Verification check. @13:01 Well# 2 chemical pump speed 50 to 60 pump reading 1.38L/h. @13:08 Well# 2 chemical pump speed 60 to 65. @13:12 Filter to Waste residual (F: 0.18 ppm). @13:13 Filter analyzer (1.56 ppm), Well #2 pump speed changed from 65 to 70. @13:19 Filter effluent analyzer 1.83 ppm and rising. @13:24 Filter to waste free residual (F: 0.08 ppm). @13:27 Filter free chlorine analyzer (OL: 2.01 ppm, HH: 2.00 ppm). @13:29 Filter to waste residual (F: 0.50 ppm). @13:41 Compliance analyzer (OL: 1.83 ppm, HH: 1.93 ppm) calibrated to 1.93 ppm. @13:42 Secondary check/verification on Compliance analyzer (OL: 1.93 ppm, HH: 1.91 ppm). @13:46 Filter to Waste check (F: 1.14 ppm). @13:48 Filter free chlorine

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Work Order Call Back Details Report

4091323: Filter Chlorine Analyzer Plant Lock-Out

Log

Date	Created By	Description

analyzer (OL: 2.14 ppm). @13:56 Filter to Waste residual 1.56 ppm. @13:58 Filter free chlorine analyzer (OL: 2.20 ppm) Well# 2 chemical pump speed lowered from 70 to 68. @14:00 Filter to waste residual (F: 1.68 ppm). @14:04 Started Well# 1 placed Well# 2 at 0 m3 allowed and Well# 1 at 454 m3. @14:05 Changed Well# 1 chemical pump speed from 56 to 58 Will watch filter residual. @14:09 Filter analyzer 2.24 ppm, Well# 1 chemical pump speed 58 to 54. @14:12 Filled Hypo Stock Tank. @14:13 Filter residual 2.45 ppm. Lowered chemical pump speed on Well# 1 from 54 to 50. @14:15 Filter to waste residual (F: 1.83 ppm). @14:17 Secondary grab check on Filter to Waste 1.76 ppm. @14:19 Returned flow from Filter to Waste to distribution. @14:20 Increased Well# 1 chemical pump speed from 50 to 56 as advised by senior operator to compensate for Chemical pump under pressure. @14:24 Filter analyzer alarms re-enabled. @14:26 Gave 20 Second hypo pump full speed burst to pressurize. @14:28 Hypo speed from 56 to 64, as filter residual dropped due to system pressure change. @14:35 Well# 1 chemical speed 64 to 60. @14:40 Filter residual 2.95 ppm, Well# 1 pump speed 60 to 56, will monitor residual off filters to ensure no fluctuations. Will be keeping chemical pump speed on Well# 1 at 56 to ensure hypo line pressurized upon start up to avoid a chlorine drop out. @15:18 Filter residual steady at 2.58 ppm with reclaim pump off, compliance analyzer 1.95 ppm, Tower level 29.01m, Well# 1 Cube counter 212.5/454.0, Well# 2 set at 0m3 allowed due to interruption of normal hypo pump availability. plant start up set point 29.5m as a precautionary measure. @15:22 Final plant check good. Alarm Dialler reset.

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Work Order Call Back Details Report

4091330: Filter Chlorine Analyzer Plant Lock-Out

Asset: 0000090453 ANALYZER CHLORINE FILTER
Location: 7203-WTMA-P-PC 7203, Matachewan WTP, Process, Process Controls

Page Time:	08/04/2024 01:30 AM
Arrive time:	08/04/2024 02:30 AM
Leave time:	08/04/2024 04:45 AM
Finish Time:	08/04/2024 05:30 AM
Report Date:	8/4/24
Reported By:	Kodiak Jolivet
Supervisor:	

Site:	OCWASITE
Priority:	5
Work Type:	CALL
Status:	CLOSE
Classification	COMPLIANCE
GL Account:	MATACN7203-24CO

Actual Labor

Task ID	Craft	Labor	Regular Hours	Premium Hours
	OPERATOR	Kodiak Jolivet	00:00	05:00

Log

Date	Created By	Description
8/4/24	Kodiak Jolivet	Filter Chlorine Analyzer Plant Lock-Out

@01:29 Recieved a low chlorine alarm, reviewed SCADA and Filter Free chlorine analyzer has dropped below shut off threshold. Compliance analyzer 2.52 ppm, Tower level 30.64m. Will travel to facility as soon as possible. @02:39 Initial plant check good. compliance analyzer reading 2.49 ppm. Tower level 30.32m. @02:41 Ensured dechlorination pucks in Filter to waste catchment present, Added 1 more puck. @02:44 Filtering to waste and disabled LO and LOLO Filter analyzer alarms. @02:46 Set Well# 1 to 0 m3 and placed Well# 2 as lead and changed chemical pump speed from 80 to 50. @02:48 Called for Water. @02:56 Filter to waste check (F: 2.42 ppm). @02:57 Well# 2 chemical pump speed changed from 50 to 65. @03:15 Filter free chlorine analyzer (OL: 2.00 ppm, HH: 1.91 ppm) calibrated to 1.91 ppm. @03:19 Filter to waste residual 1.69 ppm. @03:24 Filter Free chlorine analyzer (OL: 1.92 ppm, HH: 1.79 ppm) calibrated to 1.79 ppm. @03:26 Filter to waste residual 0.44 ppm. @03:30 Filter free chlorine analyzer (OL: 1.83 ppm, HH: 1.83 ppm) verification check good. @03:31 Well# 2 chemical pump speed from 65 to 70. @03:34 Filter to waste residual check (F: 0.39 ppm). @03:47 Filter to waste residual (F: 1.34 ppm). @03:54 Filter to waste 1.63 ppm, changed Well# 2 chemical pump speed back from 70 to 80. @03:56 Well# 1 put back into use, will monitor filter residual. @04:02 Filter to waste residual (F: 1.63 ppm). @04:06 Closed filter to waste valve, will monitor filter effluent analyzer and compliance analyzers before departing. @04:09 Well# 1 chemical pump speed increased from 56 to 58. @04:14 Hypo stock tank refilled full. @04:15 Returned Well# 2 to max allowance of 454 m3 and ensured Chemcial pump speed setting of 80 on Well# 2. @04:17 Re-activated

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Work Order Call Back Details Report

4091330: Filter Chlorine Analyzer Plant Lock-Out

Log

Date	Created By	Description
Filter effluent alarms LO and LOLO. @04:35 Filter effluent analyzer residual (F: 2.37 ppm). Compliance analyzer (F: 1.91 ppm). Tower level 30.05 m. Re-enabled alarms, Final plant check good.		

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Work Order Call Back Details Report

4091712: Filter Chlorine Analyzer Plant Lock-Out

Asset: 0000090453 ANALYZER CHLORINE FILTER
Location: 7203-WTMA-P-PC 7203, Matachewan WTP, Process, Process Controls

Page Time:	08/05/2024 12:15 AM
Arrive time:	08/05/2024 01:30 AM
Leave time:	08/05/2024 03:30 AM
Finish Time:	08/05/2024 04:30 AM
Report Date:	8/5/24
Reported By:	Kodiak Jolivet
Supervisor:	

Site:	OCWASITE
Priority:	5
Work Type:	CALL
Status:	CLOSE
Classification	COMPLIANCE
GL Account:	MATACN7203-24CO

Actual Labor

Task ID	Craft	Labor	Regular Hours	Premium Hours
	OPERATOR	Kodiak Jolivet	00:00	09:00

Log

Date	Created By	Description
8/5/24	Kodiak Jolivet	Filter Chlorine Analyzer Plant Lock-Out

@12:23 Received Low chlorine alarm. Reviewed plant remotely and filter free chlorine analyzer is reading (F: 0.06 ppm). The compliance analyzer is reading (F: 2.47 ppm) and the tower level is 32.54m. Will adventure out to facility to restore operations as soon as possible. @01:27 Initial plant check good, Compliance free chlorine analyzer (F: 2.38 ppm), Tower Level 32.27m flow rate of tower approximately 4.50 L/s. @01:33 Confirmed chlorination pucks in Filter to waste catchment and added 1 more puck. Disable filter analyzer LO and LOLO alarms, set to Filter to Waste. @01:35 Well# 1 cubic allowance set to 0 m3, lowered chemical pump speed for Well#2 from 74 to 50. @01:37 Degassed Hypo pump but little to no air in pump head and called for water. @01:43 Compliance free chlorine analyzer (OL: 2.36 ppm, HH: 2.01 ppm) calibrated to 2.01 ppm. @01:47 Filter to waste residual (F: 2.10 ppm). @01:48 Compliance free chlorine analyzer (OL: 2.00 ppm, HH: 2.02 ppm) Verification check. @01:51 Well# 2 chemical pump speed increased 50 to 60. @01:54 Filter to waste residual (F: 1.99 ppm). @01:56 Well# 2 chemical pump speed increased 60 to 70. @02:07 Filter free chlorine analyzer (OL: 2.01 ppm, HH: 1.91 ppm) calibrated to 1.91 ppm. @02:09 Filter to waste residual (F: 1.42 ppm). @02:13 Filter free chlorine analyzer (OL: 2.10 ppm, HH: 2.12 ppm). @02:14 Well# 2 chemical pump speed increased 70 to 75 ppm. @02:16 Filter to waste residual (F: 0.35 ppm). @02:20 Filter chlorine analyzer (OL: 2.31 ppm, HH: 2.16 ppm) calibrated to 2.16 ppm. @02:27 Filter to waste residual (F: 0.32 ppm). @02:34 Filter free chlorine analyzer (OL: 2.16 ppm, HH: 2.07 ppm) Calibrated to 2.07 ppm, verification grab 2.08 ppm. @02:35 Had to Lower Well# 2 chemical speed pump due to

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Work Order Call Back Details Report

4091712: Filter Chlorine Analyzer Plant Lock-Out

Log

Date	Created By	Description
residual grab check being beyond 5% difference to re-verify analyzer as above, Chemical speed pump increased to 78. @02:37 Filter to waste check residual (F: 1.14 ppm). @02:42 Compliance free chlorine analyzer (OL: 1.91 ppm, HH#1 1.99 ppm, HH#2 1.98 ppm) calibrated to 1.98 ppm. @02:43 Filter to Waste residual check (F: 1.63 ppm). @02:55 Filter to Waste residual 1.96 ppm. @02:56 Put Well# 1 back into use with 454 m3 on limit. Will watch filter analyzer residual and when stable will return to distribution production. @03:02 Refilled Hypo stock tank. @03:04 Well# 1 chemical pump speed 60 to 62. @03:05 Filter to waste residual 2.05 ppm. @03:08 Filter to waste valve closed, flow now to distribution, ran Hypo pump for full for 30 seconds to ensure pressurized. @03:13 Filter analyzer residual 2.49 ppm and rising slowly, lowered chemical pump speed from 62 to 60. @03:18 Re-enable Filter analyzer LO and LOLO alarms and rearmed dialler. @03:22 Filter analyzer stabilizing around 2.37 ppm, Compliance analyzer 1.95 ppm and Tower level 31.96m. @03:30 Increased Well# 1 chemical pump speed from 60 to 62 as filter analyzer slowly dropping, currently 2.31 ppm. Also as tower height increases near full, more pressure needed from hypo pump to ensure residual stability and upon auto-start up best to have extra push to avoid another Filter analyzer lock-out. @03:35 Final plant check good.		

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Work Order Call Back Details Report

4145317: Matachewan power outage genset alarms

Asset:
Location: 7203-WTMA-F 7203, Matachewan WTP, Facility

Page Time:	09/21/2024 12:00 PM
Arrive time:	09/21/2024 01:30 PM
Leave time:	09/21/2024 04:00 PM
Finish Time:	09/21/2024 04:00 PM
Report Date:	9/22/24
Reported By:	Julien Bernatchez
Supervisor:	

Site:	OCWASITE
Priority:	5
Work Type:	CALL
Status:	COMP
Classification	COMPLIANCE
GL Account:	MATACN7203-24CO|TIME-TIME-T

Actual Labor

Task ID	Craft	Labor	Regular Hours	Premium Hours
	OPERATOR	Julien Bernatchez	00:00	04:00

Log

Date	Created By	Description
9/22/24	Julien Bernatchez	Matachewan power outage genset alarms

Matachewan power outage causing genset alarms.

I monitored plant virtually during the power outage until I received a call for Generator fault.

I checked both facilities and their gensets. Tower & WTP.

Reset the alarms, we are now connected to Hydro and the genset is no longer in alarm.

Reset alarm dialer and verify the Compliance chlorine analyzer.

APPENDIX B

Quarterly Data Summary

MATACHEWAN DRINKING WATER SYSTEM
Quarterly Data Report

July 1 to September 30, 2024

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Matachewan Drinking Water System		July	August	September	Compliance
Flows					
Raw Flow - Maximum Daily Volume	m^3/d	563	709	639	Max. = 908
Well 1 Flow - Maximum Daily Volume	m^3/d	454	454	454	Max. = 454
Well 1 Flow - Maximum Flow Rate	L/s	19.4	19.5	19.3	Max. = 23
Well 2 Flow - Maximum Daily Volume	m^3/d	291	255	185	Max. = 454
Well 2 Flow - Maximum Flow Rate	L/s	18	18	17.5	Max. = 23
Treated Flow - Maximum Daily Volume	m^3/d	576	724	653	Max. = 908
Treated Flow - Maximum Flow Rate	L/s	11	12	12	Max. = 14
Raw Water					
Well 1 Turbidity - Maximum	NTU	0.70	0.87	0.45	N/A
Well 2 Turbidity - Maximum	NTU	1.70	4.03	0.66	N/A
Well 1 Total Coliforms - Maximum	c/100mL	0	0	0	N/A
Well 1 *E.coli* - Maximum	c/100mL	0	0	0	N/A
Well 2 Total Coliforms - Maximum	c/100mL	0	0	0	N/A
Well 2 *E. coli* - Maximum	c/100mL	0	0	0	N/A
Treated Water					
Free Chlorine Residual	mg/L	0.55	0.76	0.69	Min. = 0.15 (CT) [1]
Total Coliforms - Maximum	c/100mL	0	0	0	Max. = 0
E.coli - Maximum	c/100mL	0	0	0	Max. = 0
Nitrate	mg/L	<0.05	-	-	Max. = 10
Nitrite	mg/L	<0.05	-	-	Max. = 1
Distribution Water					
Free Chlorine Residual	mg/L	0.79	0.89	0.61	Min. = 0.05
Total Coliforms - Maximum	c/100mL	0	0	0	Max. = 0
E.coli - Maximum	c/100mL	0	0	0	Max. = 0
Trihalomethanes (THMs)	µg/L	64.7	-	-	N/A
Running average	ug/L	62.7	-	-	Max. = 100 µg/L (RAA) [2]

MATACHEWAN DRINKING WATER SYSTEM
Quarterly Data Report

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

July 1 to September 30, 2024

Matachewan Drinking Water System		July	August	September	Compliance
Distribution Water					
Haloacetic Acids (HAAs)	µg/L	95	-	-	N/A
Running average	ug/L	67.8	-	-	Max. = 80 µg/L (RAA) [3]
Lead	µg/L	2025/26	-	-	Max. = 10 µg/L [4]
Alkalinity	mg/L	n/a	-	-	N/A [5]

Notes:

1 CT is the concentration of chlorine in the water times the time of contact that the chlorine has with the water. It is used to demonstrate the level of disinfection treatment in the water. CT calculations are performed for the Matachewan water plant if the free chlorine residual level drops below 0.15 mg/L to ensure primary disinfection is achieved. Primary disinfection was achieved this quarter.

2 Maximum Allowable Concentration (MAC) for Trihalomethanes (THMs) = 100 ug/L (Four Quarter Running Average)

3 Maximum Allowable Concentration (MAC) for Haloacetic Acids (HAAs) = 80 ug/L (Four Quarter Running Average)

4 Lead testing required every 3 years.

5 Alkalinity testing required twice per year. Sampling is done in March/April and September/October of each year.

Ontario Clean Water Agency
Agence Ontarienne Des Eaux
Northeastern Ontario Region

MATACHEWAN DRINKING WATER SYSTEM QUARTERLY OPERATIONS REPORT

Prepared By: The Ontario Clean Water Agency | Prepared for: The Township of Matachewan

SYSTEM OVERVIEW — April 1 to June 30, 2024

HIGHLIGHTS

- Overall the plant is running well

CAPITAL PLAN PROGRESS

The Capital Letter, which provides a list of recommended capital and major maintenance for 2024 was provided to the Owner in December 2023. Approval or rejection of the capital projects identified in the letter is a requirement under the system's Quality and Environmental Management System. OCWA is awaiting a response.

Status of capital work completed to date in 2024.

CAPITAL ITEM	STATUS
Reclaim tank draining and maintenance as required.	Completed in Q1

INCIDENTS

There were no incidents documented this quarter.

COMPLAINTS

June 17 — Coloured water complaint on Georgina St - resident complained of dirty water with sediment; undetermined cause

CALL-OUT SUMMARY

Number of Call-outs this Quarter:	1
Total Call-outs to Date (2024):	5
Annual Call-in Allowance:	8
Details of the Call-outs:	Refer to Appendix A for a detailed call back summary.

REGULATORY

Inspections

- There were no regulatory inspections during the quarter.

Quality & Environmental Management System (QEMS)

- There were no audits during the reporting period

Sampling, Testing and Monitoring

- Refer to Appendix B for a Performance and Quarterly Data Summary.

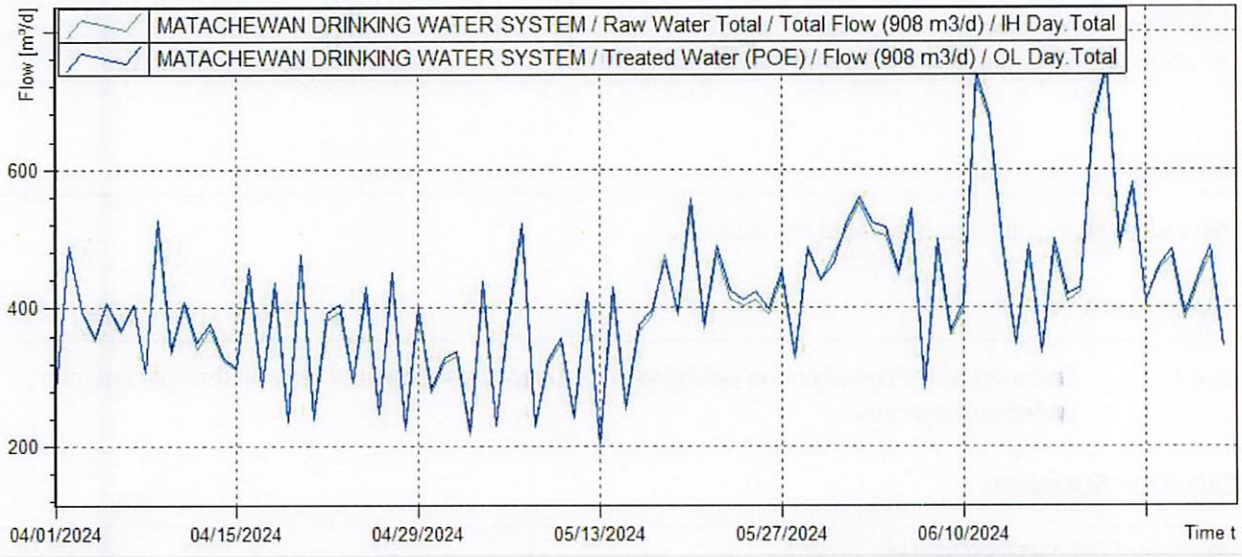
FLOW SUMMARY

Matachewan Water Treatment Plant – Flow Comparison

	Total Raw Flows (m^3/d)	Total Treated Flows (m^3/d)	Average Daily Treated Flow (m^3/d)	Maximum Treated Flow (m^3/d)
April	10,753	10,932	364	526
May	11,625	11,834	381	557
June	14,380	14,647	488	752
Compliance	-	-	-	908

Raw Flow verses Treated Flow

April 1 to June 30, 2024



HEALTH AND SAFETY

- All safety equipment at each plant was checked monthly to ensure that they are in good working order.
- Health and Safety Training/Sessions completed this quarter include:
  - ✓ Hoisting and Rigging
  - ✓ Facility Emergency Plan
  - ✓ Environmental Hazards

APPENDIX A

Call-out Summary

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Work Order Call Back Details Report

3900271: PLC to Scada alarm, 7203

Asset:
Location: 7203-WTMA-F 7203, Matachewan WTP, Facility

Page Time:	04/03/2024 07:30 PM
Arrive time:	04/03/2024 07:30 PM
Leave time:	04/03/2024 10:00 PM
Finish Time:	04/03/2024 10:00 PM
Report Date:	4/7/24
Reported By:	Patrick Roy
Supervisor:	

Site:	OCWASITE
Priority:	5
Work Type:	CALL
Status:	CLOSE
Classification	REFURBISH/REPLACE
GL Account:	MATACY7203-21OM

Actual Labor

Task ID	Craft	Labor	Regular Hours	Premium Hours
	OPERATOR	Patrick Roy	00:00	04:00

Log

Date	Created By	Description
4/7/24	Patrick Roy	PLC to Scada alarm

PLC to Scada alarm
- Unable to connect remotely, loss of communication
- Review trends at plant
- Manually start pump cycle ; fill tower

Inspect Tower - EWSF Heartbeat alarm
- tower communications back online

Power Outage
- Transfer to Generator interrupted pump cycle; re-started plant, tower now filling

APPENDIX B

Quarterly Data Summary

MATACHEWAN DRINKING WATER SYSTEM
Quarterly Data Report

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

April 1 to June 30, 2024

Matachewan Drinking Water System		April	May	June	Compliance
Flows					
Raw Flow - Maximum Daily Volume	m^3/d	512	545	742	Max. = 908
Well 1 Flow - Maximum Daily Volume	m^3/d	454.03	454.03	454.03	Max. = 454
Well 1 Flow - Maximum Flow Rate	L/s	20.25	19.63	19.47	Max. = 23
Well 2 Flow - Maximum Daily Volume	m^3/d	240	226	288	Max. = 454
Well 2 Flow - Maximum Flow Rate	L/s	17.09	18.09	17.93	Max. = 23
Treated Flow - Maximum Daily Volume	m^3/d	526	557	752	Max. = 908
Treated Flow - Maximum Flow Rate	L/s	11.04	11.78	12.24	Max. = 14
Raw Water					
Well 1 Turbidity - Maximum	NTU	0.51	0.36	0.74	N/A
Well 2 Turbidity - Maximum	NTU	1.48	1.24	4.61	N/A
Well 1 Total Coliforms - Maximum	c/100mL	0	0	0	N/A
Well 1 *E.coli* - Maximum	c/100mL	0	0	0	N/A
Well 2 Total Coliforms - Maximum	c/100mL	0	0	0	N/A
Well 2 *E. coli* - Maximum	c/100mL	0	0	0	N/A
Treated Water					
Free Chlorine Residual	mg/L	0.94	0.82	0.53	Min. = 0.15 (CT) [1]
Total Coliforms - Maximum	c/100mL	0	0	0	Max. = 0
E.coli - Maximum	c/100mL	0	0	0	Max. = 0
Nitrate	mg/L	0.51	-	-	Max. = 10
Nitrite	mg/L	< 0.05	-	-	Max. = 1
Distribution Water					
Free Chlorine Residual	mg/L	1.00	0.85	0.67	Min. = 0.05
Total Coliforms - Maximum	c/100mL	0	0	0	Max. = 0
E.coli - Maximum	c/100mL	0	0	0	Max. = 0
Trihalomethanes (THMs)	µg/L	36.1	-	-	Max. = 100 µg/L (RAA) [2]
Haloacetic Acids (HAAs)	µg/L	56	-	-	Max. = 80 µg/L (RAA) [3]

MATACHEWAN DRINKING WATER SYSTEM
Quarterly Data Report

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

April 1 to June 30, 2024

Matachewan Drinking Water System		April	May	June	Compliance
Distribution Water					
Lead	µg/L	2025/26	-	-	Max. = 10 µg/L[4]
Alkalinity	mg/L	132	-	-	N/A[5]

Notes:

1 CT is the concentration of chlorine in the water times the time of contact that the chlorine has with the water. It is used to demonstrate the level of disinfection treatment in the water. CT calculations are performed for the Matachewan water plant if the free chlorine residual level drops below 0.15 mg/L to ensure primary disinfection is achieved. Primary disinfection was achieved this quarter.

2 Maximum Allowable Concentration (MAC) for Trihalomethanes (THMs) = 100 ug/L (Four Quarter Running Average). The annual running average to the end of the quarter = 60.0 ug/L

3 Maximum Allowable Concentration (MAC) for Haloacetic Acids (HAAs) = 80 ug/L (Four Quarter Running Average). The annual running average to the end of the quarter = 55.5 ug/L

4 Lead testing required every 3 years.

5 Alkalinity testing required twice per year. Sampling is done in March/April and September/October of each year.