

Monthly Operations Report

for the Municipality of Casselman's Water and
Wastewater Systems

May 2024



Ontario Clean Water Agency
Agence Ontarienne Des Eaux

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SECTION 1 – MONTHLY OPERATIONS REPORT CARD

Operations and Compliance Reliability Indices

Legend					
✓	●	▲	✗	Y/N	N/A
Achieved	On Target	Caution	Not Achieved	Yes/No	Not Applicable

	Target	Current Month	Comments
Health & Safety			
Number of Incidents	0	●	
<i>Actual Result</i>		0	
Drinking Water			
Inspection Ratings (YTD)	100 %	●	
<i>Actual Result</i>		100 %	
AWQI's	0	●	
<i>Actual Result</i>		0	
Number of Non-Compliances	0	●	
<i>Actual Result</i>		0	
Number of Water Main Breaks	0	●	
<i>Actual Result</i>		0	
Number of Complaints	0	●	
<i>Actual Result</i>		0	
Water Main Flushing	Y	●	
<i>Target Achieved</i>		Y	
Wastewater			
Number of Non-Compliances	0	●	
<i>Actual Result</i>		0	
Number of Bypasses	0	●	
<i>Actual Result</i>		0	
Number of Sanitary Sewer Back-ups	0	●	
<i>Actual Result</i>		0	
Sanitary Collection System Flushing	0	●	
<i>Target Achieved</i>		Y	
Preventive Maintenance			
Work Orders Completed	>95%	●	
<i>Target Achieved</i>		Y	

SECTION 2 – FACILITY LISTING

Water Treatment & Distribution

Facility	Type
5971 - Casselman Water Treatment Plant	1 WTP (Actiflo Process)
1553 - Casselman Water Distribution System	1 Water Storage Tower + Water Distribution System

Wastewater Treatment & Collection

Facility	Type
1501 - Casselman Wastewater Treatment Plant	3 Facultative Lagoon Cells 1 MBBR (Moving Bed Biofilm Reactor)
5976 - Casselman Wastewater Collection System	6 Sewage Pumping Stations + Wastewater Collection System

SECTION 3 – COMPLIANCE

There were no compliance issues to report for Casselman’s water and wastewater treatment systems.

The most recent MECP inspections are listed below:

Location	Inspector	Inspection Rating (%)	Date
Casselman Water	Jean-Francois Durocher	100%	February 2, 2024
Casselman Sewage	<i>*OCWA has no recent sewage system inspections on file.</i>		

There are no outstanding actions required from any recent MECP inspections.

SECTION 4 – FACILITY PERFORMANCE

Please see the Water & Wastewater Performance Assessment Reports attached in Appendix A.

SECTION 5 – DRINKING WATER QUALITY MANAGEMENT SYSTEM (DWQMS)

OCWA was re-accredited as the Operating Authority for Casselman’s Drinking Water System on January 24, 2023.

SECTION 6 - MAINTENANCE / CAPITAL / ADDED VALUE

Water Treatment & Distribution

- Responded to 7 after-hours call-in alarms
- Flushed all hydrants in distribution system
- Curb stops operated at 727 St. Joseph & 788 Joliette

Wastewater Treatment & Collection

- Responded to 2 call-in alarms
- Wet wells cleaned at SPS #1, SPS #2, SPS #3, SPS #4 and SPS #6
- Lagoon discharge ended May 15th for the season
- Pulled pump at SPS #1 to remove rags/debris
- Replaced UPS batteries at sewage pumping stations

Preventive Maintenance Plan (PMP) Work Order Summary

All required work orders were completed. Please refer to the summary reports attached in Appendix B.

SECTION 7 – COMPLAINTS

Facility	Date	Description
		None to report

SECTION 8 – RECOMMENDATIONS / GENERAL COMMENTS

General

- 64 locates were completed in May.

Water Treatment & Distribution

- Capital/Major Maintenance projects approved for 2024 are underway.
- Operations staff continued to work with Dr. Dallala on behalf of the Municipality.

Wastewater Treatment & Collection

- Capital/Major Maintenance projects approved for 2024 are underway.

Appendix A

Performance Assessment Reports



**ONTARIO CLEAN WATER AGENCY
PERFORMANCE ASSESSMENT REPORT**

MUNICIPALITY: MUNICIPALITY OF CASSELMAN
PROJECT: CASSELMAN DRINKING WATER SYSTEM
DESCRIPTION: SURFACE WATER TREATMENT PLANT
CHEMICALLY ASSISTED FILTRATION

YEAR: 2024
WATER SOURCE: NATION RIVER
DESIGN CAPACITY: 3182 m3/d
WORKS NUM.: 210001219

MONTH	SYSTEM FLOWS (TREATED)			TREATED		DISTRIBUTION		RAW					TREATED					DISTRIBUTION				
	Total Flow (m ³)	Avg. Flow (m ³)	Max Day Flow (m ³)	Min. Free Cl ₂ Resid. (mg/L)	Max Free Cl ₂ Resid. (mg/L)	Min Combined Cl ₂ Resid. (mg/L)	Max Combined Cl ₂ Resid. (mg/L)	Dissolved Organic Carbon (mg/L)	Total Organic Carbon (mg/L)	Total Hardness (mg/L)	Average Manganese (mg/L)	Max Manganese (mg/L)	IH Avg. Turbidity (NTU)	IH Max. Turbidity (NTU)	Dissolved Organic Carbon (mg/L)	Total Organic Carbon (mg/L)	Total Hardness (mg/L)	Average Manganese (mg/L)	Max Manganese (mg/L)	THM (µg/L) quaterly	HAA (µg/L) quaterly	NDMA (µg/L) quaterly
JAN	33,460	1079	1400	1.26	2.35	0.36	2.41	8.30	8.30	279	0.07	0.10	0.25	0.36	3.80	3.80	277	0.05	0.07	41.0	25.7	< 0.0009
FEB	31,549	1088	1356	1.25	2.00	1.11	2.28	6.30	6.30	339	0.09	0.12	0.26	0.36	3.30	3.30	327	0.05	0.07	-	-	-
MAR	33,671	1086	1269	1.20	1.93	1.15	2.26	7.10	8.10	243	0.11	0.21	0.33	0.97	4.00	4.10	226	0.05	0.09	-	-	-
APR	33,539	1118	1458	1.25	2.10	1.27	2.39	6.50	6.50	304	0.15	0.27	0.40	0.65	4.60	4.60	294	0.06	0.08	74.0	40.0	0.001
MAY	37887	1222	1679	0.65	2.30	0.63	2.48	8.20	9.80	266	0.09	0.13	0.48	0.65	1.60	3.30	268	0.04	0.07	-	-	-
JUN																						
JUL																						
AUG																						
SEP																						
OCT																						
NOV																						
DEC																						
TOTAL	170,106																					
AVG		1,119						7.28	7.80	286	0.10		0.34		3.46	3.82	278	0.05		57.5	32.9	0.0010
MAX			1,679		2.35		2.48							0.97				0.09				
MIN				0.65		0.36																
CRITERIA			3,182	CT		0.25	3.00													<100	<80	<0.009

MONTH	SYSTEM FLOWS (RAW)			ACTIFLO FILTER #1		ACTIFLO FILTER #2		Efficiency		TANK		TREATED				E. coli / Total Coliform / HPC (Number of Samples Collected)				RAW WATER		
	Total Flow (m ³)	Avg. Day Flow (m ³)	Max. Flow (m ³)	Max. Flow Rate (L/min)	Avg. Turbidity (NTU)	Max. Turbidity (NTU)	Avg. Turbidity (NTU)	Max. Turbidity (NTU)	Turbidity % < 0.3 NTU Filter #1	Turbidity % < 0.3 NTU Filter #2	Backwash TSS (mg/L)	Supernatant TSS (mg/L)	OL Avg. Turbidity (NTU)	OL Max. Turbidity (NTU)	Min UV Intensity (mJ/cm ²)	Min UVT* (%)	Safe		Adverse		Coliform Count	E.coli Count
																	Treated	Distribution	Treated	Distribution	Max. Count	Max. Count
JAN	41,605	1342	1659	1950.0	0.12	0.70	0.12	0.31	99.88	99.99	7	3	0.36	1.45	63	79	5	15	0	0	16,000	32
FEB	40,331	1391	1725	2204.6	0.18	0.65	0.11	0.26	99.63	100.00	33	6	0.47	2.00	53	80	4	12	0	0	19,800	88
MAR	40,408	1303	1910	2102.0	0.24	0.51	0.12	0.39	98.26	99.54	3	6	0.18	1.55	63	80	4	12	0	0	39,000	67
APR	40,854	1362	2006	2260.0	0.16	0.62	0.15	0.39	98.79	99.46	8	7	0.18	0.32	72	74	5	15	0	0	31,000	57
MAY	44,572	1438	1889	2144	0.17	0.74	0.17	0.68	97.42	98.77	50	7	0.22	0.60	72	70	4	12	0	0	2,800	140
JUN																						
JUL																						
AUG																						
SEP																						
OCT																						
NOV																						
DEC																						
TOTAL	207,770																22	66	0	0		
AVG		1,367			0.17		0.13		98.80	99.55	20	6	0.28									
MAX			2,006	2,260		0.74		0.68			50	7		2.00							39,000	140
MIN															53	70						
CRITERIA			3,182	2,205		<1		<1	>95%	>95%	<25	<25		<5	>40							

COMMENTS:
*UVT - No Flow to UVT analyzer from 11:35 pm on February 10th to 10:55 am on February 12th.

Appendix B

Work Order Summary Reports



Monthly Work Order Summary – May 2024

Casselman Drinking Water System

Description	Status	Work Type
Analyzer Total Chlorine Inspection/Service (1m) 5971	COMP	PM
Analyzer pH Inspection/Service (1m) 5971	COMP	PM
Analyzer Spectrophotometer Insp/Service (1m) - 5971	COMP	PM
Analyzer Turbidity Inspection/Service (1m) 5971	COMP	PM
Blower Centrifugal Inspection/Service (1m) 5971	COMP	PM
Air Compressor Inspection/Service (1m) 5971	COMP	PM
Dryer Air Service (1m) - 5971	COMP	PM
Generator Inspection (1m) 5971	COMP	PM
PANEL ALARM/DIALER TEST (1m) - 5971	COMP	PM
UV Light Bank Insp/Service (1m) - 5971	COMP	PM
Annual Internal Audit (1y) - Casselman DWS	APPR	PM
Monthly H&S Equipment Check (1m) - 5971	COMP	PM
Client Reports (1m) - Casselman 5971	COMP	PM
UVT Sensor Checks/Calibration (1m) - 5971	COMP	PM
Pump Diaphragm Coagulant Route Inspection/Service (1m) 5971	COMP	PM
Pump Diaphragm Polymer Route Inspection/Service (1m) 5971	COMP	PM
Pump Diaphragm Sodium Hydroxide Route Inspection/Service (1m) 5971	COMP	PM
Pump Diaphragm Ammonium Sulphate Route Inspection/Service (1m) 5971	COMP	PM
Pump Diaphragm Potassium Permanganate Route Inspection/Service (1m) 5971	COMP	PM
WISKI Monthly Review(1m) 5971	COMP	PM
Lifting Equipment Inspection (1y) 5971	APPR	PM
UV Sensor Reference Check/Calibration (1m) - 5971	COMP	PM
Hydrant Flushing Spring (1y) 1553	COMP	PM
Hydrant Flushing Spring (1y) 1553	COMP	PM
Workplace Inspection - DS Silica- 1m - 5971	COMP	OPER
Casselman - 1553 - WD - Turn On Water Service - 788 Joliette St	COMP	CAP
Casselman - 1553 - WD - Turn Off Water Service - 727 St Joseph St	COMP	CAP
5971-WTCA-P - Low Level Actiflo 1	COMP	CALL
5971-WTCA-P - Actiflo 2 High Level	COMP	CALL

Monthly Work Order Summary – May 2024
Casselman Drinking Water System

5971 CasselmanWTP high level alarm Actiflo 2	COMP	CALL
Casselman WTP 5971 Call In low clearwellplant lockout	COMP	CALL
5971-WTCA-P - High Effluent Turbidity	COMP	CALL
5971-WDCA - High total/combined chlorine SPS1	COMP	CALL
5971-WTCA-P - Low Chlorine	COMP	CALL

Monthly Work Order Summary – May 2024
Casselman Wastewater Treatment & Collection System

Description	Status	Work Type
Generator Inspection (1m) SPS #1 1501	COMP	PM
Generator Inspection (1m) SPS #2 1501	COMP	PM
Generator Inspection (1m) SPS #3 1501	COMP	PM
Generator Inspection (1m) SPS #5 1501	COMP	PM
Generator Inspection (1m) SPS #6 1501	COMP	PM
Generator Inspection (1m) 1501	COMP	PM
Analyzer Turbidity Inspection/Service (1m) 1501	COMP	PM
PANEL ALARM/DIALER TEST SPS#4 (1m) 1501	COMP	PM
Monthly H&S Equipment Check (1m) - 1501	COMP	PM
Blower Inspection/Service (1m/1y) 1501	COMP	PM
Blower Inspection/Service (1m/1y) 1501	COMP	PM
Blower Inspection/Service (1m/1y) 1501	COMP	PM
Blower Inspection/Service (1m/1y) 1501	COMP	PM
Blower Inspection/Service (1m/1y) 1501	COMP	PM
Blower Inspection/Service (1m/1y) 1501	COMP	PM
Bar Screen Inspection (1m) 1501	COMP	PM
PANEL ALARM/DIALER TEST (1m) - 1501	COMP	PM
PANEL ALARM/DIALER TEST SPS#6 (1m) - 1501	COMP	PM
PANEL ALARM/DIALER TEST SPS#3 (1m) - 1501	COMP	PM
PANEL ALARM/DIALER TEST SPS#2 (1m) - 1501	COMP	PM
PANEL ALARM/DIALER TEST SPS#5 (1m) - 1501	COMP	PM
PANEL ALARM/DIALER TEST SPS#1 (1m) - 1501	COMP	PM
PANEL ALARM/DIALER TEST LAGOON (1m) - 1501	COMP	PM
WISKI Monthly Review(1m) 1501	COMP	PM
Lifting Equipment Inspection (1y) 1501	APPR	PM
Daily O&M Casselman Sewage Operation and Maintenance (1Y)1501	COMP	PM
Workplace Inspection (1m) - 1501	COMP	OPER
Casselman - 1501 - WWT - Cleaning SPS #1, #6	COMP	OPER

Monthly Work Order Summary – May 2024
Casselman Wastewater Treatment & Collection System

Call Back - Casselman WWT - 1501 - Loss of Communications	COMP	CALL
Casselman SPS3 1501 Echoloss on transmitter	COMP	CALL

Appendix C

Locate Summary



Casselman Monthly Locate Summary – May 2024

Description	Status	Work Type
Locate Casselman WDS 1553 - 20241813317 - Zakari St	COMP	OPER
Locate Casselman WDS 1553 - 20241813546 - 744 Brebeuf	COMP	OPER
Locate Casselman WDS 1553 - 20241814619 - 104 Argile St	COMP	OPER
Locate Casselman WDS 1553 - 20241820131 - Brisson St	COMP	OPER
Locate Casselman WDS 1553 - 20241820138 - Brisson + laurier	COMP	OPER
Locate Casselman WDS 1553 - 20241820142 - laurier + lagoon	COMP	OPER
Locate Casselman WDS 1553 - 20241828677 - 819 Laval	COMP	OPER
Locate Casselman WDS 1553 - 2024191518 - Du Boise St	COMP	OPER
Locate Casselman WDS 1553 - 2024191963 - Du Boise St	COMP	OPER
Locate Casselman WDS 1553 - 2024192051 - Du Boise St	COMP	OPER
Locate Casselman WDS 1553 - 2024192382 - Du Boise St	COMP	OPER
Locate Casselman WDS 1553 - 2024193315 - 20 Percy St	COMP	OPER
Locate Casselman WDS 1553 - 2024192450 - lafontaine side road	COMP	OPER
Locate Casselman WDS 1553 - 2024195219 - 756 Laval St	COMP	OPER
Locate Casselman WDS 1553 - 2024194375 - Montee rooul road	COMP	OPER
Locate Casselman WDS 1553 - 2024195419 - Montee Rooul road	COMP	OPER
Locate Casselman WDS 1553 - 20241820112 - Lagoon	COMP	OPER
Locate Casselman WDS 1553 - 2024196906 - Ste Anne 689-685	COMP	OPER
Locate Casselman WDS 1553 - 20241912280 - 410-414 Dore St	COMP	OPER
Locate Casselman WDS 1553 - 20241912319 - Zakari St	COMP	OPER
Locate Casselman WDS 1553 - 20241912336 - 706 St Isadore	COMP	CAP
Locate Casselman WDS 1553 - 20241913468- 95 Lafleche	COMP	CAP
Locate Casselman WDS 1553 - 20241916467- 20-26 Percy St	COMP	CAP
Locate Casselman WDS 1553 - 20241917051- 699 ste anne st	COMP	CAP
Locate Casselman WDS 1553 - 20241919042-129-131 laurier	COMP	CAP
Locate Casselman WDS 1553 - 2024181021-344 Dore st	COMP	CAP
Locate Casselman WDS 1553 - 2024190729-3 Castongauy St	COMP	CAP
Locate Casselman WDS 1553 - 2024190729-633 Conservation road	COMP	CAP

Casselman Monthly Locate Summary – May 2024

Locate Casselman WDS 1553 - 20241926091-789 Principal st	COMP	CAP
Locate Casselman WDS 1553 - 20241921032-HWY 417	COMP	CAP
Locate Casselman WDS 1553 - 2024200664-654 Des Erables	COMP	CAP
Locate Casselman WDS 1553 - 2024190118-43 Boileau St	COMP	CAP
Locate Casselman WDS 1553 - 2024201282 - 789 principale st	COMP	CAP
Locate Casselman WDS 1553 - 2024203101 - 20 Desnoyers st	COMP	CAP
Locate Casselman WDS 1553 - 202403345 - 640 conservation st	COMP	CAP
Locate Casselman WDS 1553 - 20242012913- 661 prom des erbres	COMP	CAP
Locate Casselman WDS 1553 - 2024200624 - 224 Argile St	COMP	CAP
Locate Casselman WDS 1553 - 20242010888 - 829 Laval st	COMP	CAP
Locate Casselman WDS 1553 - 20242011650 - 15 sarah st	COMP	CAP
Locate Casselman WDS 1553 - 20242012234 - HWY 417	COMP	CAP
Locate Casselman WDS 1553 - 2024210340 - 686 duhmel st	COMP	CAP
Locate Casselman WDS 1553 - 20242019588 - 844 principale st	COMP	CAP
Locate Casselman WDS 1553 - 20242171832 - 116 argile st	COMP	CAP
Locate Casselman WDS 1553 - 20241519332 - 642 prom des erables	COMP	CAP
Locate Casselman WDS 1553 - 2024217630 - 22 Filion St	COMP	CAP
Locate Casselman WDS 1553 - 2024217613 - 793 St therese st	COMP	CAP
Locate Casselman WDS 1553 - 20242112783 - 16 Mercier st	COMP	CAP
Locate Casselman WDS 1553 - 20242112984 - 723 des Merisier Place	COMP	CAP
Locate Casselman WDS 1553 - 20242117454 - 46 Faucher st	COMP	CAP
Locate Casselman WDS 1553 - 202417040 - 677 St Joseph st	COMP	CAP
Locate Casselman WDS 1553 - 20242111173 - 620 Conservation st	COMP	CAP
Locate Casselman WDS 1553 - 2024217604 - 602 st isidore road	COMP	CAP
Locate Casselman WDS 1553 - 2024216266 - 26 sarah st	COMP	CAP
Locate Casselman WDS 1553 - 2024215925 - 26 sarah st	COMP	CAP
Locate Casselman WDS 1553 - 20242122516 - 16rivere nation N road	COMP	CAP
Locate Casselman WDS 1553 - 20242123005 - 727 St joseph st	COMP	CAP
Locate Casselman WDS 1553 - 20242123417 - 673 St Isidore rd	COMP	CAP

Casselman Monthly Locate Summary – May 2024

Locate Casselman WDS 1553 - 20242123426 - 653 St Isidore rd	COMP	CAP
Locate Casselman WDS 1553 - 2024221472 - 729 St Isidore rd	COMP	CAP
Locate Casselman WDS 1553 - 20242123421 - 697 Principale st	COMP	CAP
Locate Casselman WDS 1553 - 2024220394 - 845 marquette st	COMP	CAP
Locate Casselman WDS 1553 - 20242121481 - 13 Rivere Nation N road	COMP	CAP
Locate Casselman WDS 1553 - 2024224918 - 728 des pommier st	COMP	CAP
Locate Casselman WDS 1553 - 20242014795 - 620 Conservation st	COMP	CAP
Total		64