

Monthly Operations Report

for the Municipality of Casselman's Water and
Wastewater Systems

February 2026



Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Table of Contents

Section 1 - Monthly Operations Report Card

Section 2 - Facility Listing

Section 3 - Compliance

Section 4 - Facility Performance

Section 5 - Drinking Water Quality Management System (DWQMS)

Section 6 - Maintenance / Capital / Added Value

Section 7 - Complaints

Section 8 - Recommendations / General Comments

Appendices

Appendix A – Performance Assessment Reports

Appendix B – Work Order Summary Report

Appendix C – Locate Summary

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	0	●	
<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 MBBR (Moving Bed Biofilm Reactor)
1501 - 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%	January 27, 2026
Casselman Sewage	Jean-Francois Durocher	Rating not applicable	November 19, 2024

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)

A re-accreditation audit was conducted by SAI Global in November 2025. OCWA received the new Certificate of Accreditation for Casselman’s Drinking Water System on January 9, 2026 (Appendix D).

SECTION 6 - MAINTENANCE / CAPITAL / ADDED VALUE

Water Treatment & Distribution

- Responded to four after-hours call-back alarms
- Ferdinand-Denis in to work on WTP HVAC system
- Replaced settled turbidity line and valve on Actiflo #1
- Watermain commissioning completed on Domain de la Riviere Nation Phase 2B
- Cleaned potassium permanganate and polymer chemical tanks & lines

Wastewater Treatment & Collection

- Responded to one after-hours call-back alarm
- Lagoon discharge continued through February

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

- 17 locates were completed in February

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: 2026
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)	Average Manganese (mg/L)	Max Manganese (mg/L)	Min CT (mg/L/min)	THM (µg/L) quaterly	HAA (µg/L) quaterly	NDMA (µg/L) quaterly
JAN	31,413	1,013	1,218	1.15	2.71	1.19	2.31	5.60	5.60	391	0.10	0.11	0.24	0.28	3.50	3.50	0.03	0.05	294	32.0	17.4	0.0018
FEB	28,466	1,017	1,330	1.22	2.84	1.28	2.25	5.20	5.30	380	0.08	0.09	0.23	0.29	3.60	3.10	0.05	0.05	269	-	-	-
MAR																						
APR																						
MAY																						
JUN																						
JUL																						
AUG																						
SEP																						
OCT																						
NOV																						
DEC																						
TOTAL	59,879																					
AVG		1,015						5.40	5.45	386	0.09		0.24		3.55	3.30	0.04			32.0	17.4	0.0009
MAX			1,330		2.84		2.31							0.29				0.05				
MIN				1.15		1.19													269			
CRITERIA			3,182	0.4		0.25	3.00												46	<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 UVVT (%)	Safe		Adverse		Coliform Max. Count	E.coli Max. Count
																	Treated	Distribution	Treated	Distribution		
JAN	35,954	1,160	1,557	1996	0.10	0.40	0.11	0.36	100.00	99.91	7	7	0.17	0.95	0	92	4	12	0	0	8,000	33
FEB	33,643	1,202	1,593	1976	0.09	0.73	0.09	0.64	99.87	99.31	9	6	0.12	0.37	94	90	4	12	0	0	1,000	113
MAR																						
APR																						
MAY																						
JUN																						
JUL																						
AUG																						
SEP																						
OCT																						
NOV																						
DEC																						
TOTAL	69,597																8	24	0	0		
AVG		1,181			0.10		0.10		99.94	99.61	8	7	0.15									
MAX			1,593	1,996		0.73		0.64			9	7		0.95							8,000	113
MIN														0	90.00							
CRITERIA			3,182	2,205		<1		<1	>95%	>95%	<25	<25		<5	>40							

COMMENTS:

* On January 26, 2026 - Generator test caused UV to temporarily shut down while water continued to flow through. Primary disinfection still met with filtration and chlorination credit. Minimum UVI for January 2026 excluding short event = 105 mJ/cm2

Appendix B

Work Order Summary Reports



Monthly Work Order Summary – February 2026 Casselman Drinking Water System

Call Back - Casselman Wtp - 5971 - Actiflo Alarm	COMP	CALL
WTP Low UVT Alarm	COMP	CALL
WTP High turbidity Actiflow 1	COMP	CALL
WTP High Cl2 alarm	COMP	CALL
5971 0126 Casselman Emergency Repairs Low Lift 1 failure (SIEZED)	APPR	CAP
5971 1626 Casselman Chlorine Analyzer	APPR	CAP
5971 Casselman WTP Troubleshoot electrical issues with UV room	COMP	CAP
5971 0126 Casselman Emergency Repairs - Uv Room Heater Failure	APPR	CAP
5971 1526 Casselman WTP HVAC & Hot Water Tank Replacement - HVAC Replacement	INPRG	CAP
5971 Casselman Building Grounds and Maintenance- Fridge and storage	COMP	CAP
Workplace Inspection - DS Silica- 1m - 5971	COMP	OPER
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
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
PDM (WISKI) Data Entry and Review-Ops (1m) 5971	COMP	PM
Sampling and Testing (1m) 5971	COMP	PM
UV Sensor Reference Check/Calibration (1m) - 5971	COMP	PM

Monthly Work Order Summary – February 2026
Casselman Wastewater Treatment & Collection System

Description	Status	Work Type
Annual Report ECA (1y) - Nation Valley Compliance	COMP	PM
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 Lagoon (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
Bar Screen Inspection (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
Workplace Inspection (1m) - 1501	COMP	PM
PDM (WISKI) Data Entry and Review-Ops (1m) 1501	COMP	PM
Sampling and Testing (1m) 1501	COMP	PM
1501-CALL BACK - Low Temperature - SPS#1	COMP	PM
1501 Casselman New Modem Install SPS6	COMP	OPER
1501 Casselman Troubleshooting Electrical Issues	COMP	CAP
Call back - Casselman SPS 6 - 1501 - Sump Float	COMP	CAP

Appendix C

Locate Summary



Casselman Monthly Locate Summary – February 2026

Locate Casselman WDS 1553 - 2026060734 748 laval	COMP	OPER
Locate Casselman WDS 1553 - 2026065247 -793 Heron CIMA	COMP	OPER
Locate Casselman WDS 1553 - 2026066144- 717 St Isidore EMERGENCY	COMP	OPER
Locate Casselman WDS 1553 - 2026065282 -255 Argile CIMA	COMP	OPER
Locate Casselman WDS 1553 - 2026065308 -Carpe CIMA	COMP	OPER
Locate Casselman WDS 1553 - 2026072064 -9 Mercier	COMP	OPER
Locate Casselman WDS 1553 - 2026064496 -817 Principale	COMP	OPER
Locate Casselman WDS 1553 - 2026072970- 253-255 CIMA ARGILE	COMP	OPER
Locate Casselman WDS 1553 - 2026075394 CIMA CARPE #2	COMP	OPER
Locate Casselman WDS 1553 - 2026075761 CIMA CARPE #3	COMP	OPER
Locate Casselman WDS 1553 - 2026076434 CIMA CARPE #4	COMP	OPER
Locate Casselman WDS 1553 - 2026075792 CIMA CARPE #5	COMP	OPER
Locate Casselman WDS 1553 - 2026082034 Principale Bridge	COMP	OPER
Locate Casselman WDS 1553 - 2026084047 Carpe #6	COMP	OPER
Locate Casselman WDS 1553 - 2026084035 Carpe #7	COMP	OPER
Locate Casselman WDS 1553 - 2026083800 706 - 700 st isidore	COMP	OPER
Locate Casselman WDS 1553 - 2026086424 Lot # 7 Dubois	COMP	OPER
Total		17