

Monthly Operations Report

for the Municipality of Casselman's Water and
Wastewater Systems

April 2025



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

A decorative graphic in the bottom right corner of the page, consisting of several overlapping, light blue, wavy, curved shapes that resemble stylized water or a sun's rays.

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%	February 5, 2025
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)

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 five after-hours call back alarms
- Repaired service leak on Principale; replaced saddle and main stop to curb
- Serviced High Lift Pump #2 (changed packing, greased motor and pump)
- Capital Controls continued work onsite for the SCADA upgrade at the WTP
- New VFD installed on Low Lift Pump #1
- Repaired curb stops at 11 Isabelle and 38 Industrial
- Turned water on at 210 Zakari

Wastewater Treatment & Collection

- Responded to four after-hours call back alarms
- Lagoon discharge continued through April
- Cleaned wet wells at SPS #2 & SPS #6
- Power flushed MH #1845 on Conservation. Maintenance access hole was partially blocked with sand & debris
- Veolia on site at lagoon for hydraulic performance test of disc filter

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

- 36 locates were completed in April.

Water Treatment & Distribution

- Capital/Major Maintenance projects approved for 2025 are underway.
- Operations staff continued to work with Dr. Dallala and EVB on behalf of the Municipality.

Wastewater Treatment & Collection

- Capital/Major Maintenance projects approved for 2025 are underway.
- Excessive rag build up and construction debris is an ongoing issue in the sewage collection system

Appendix A

Performance Assessment Reports



**ONTARIO CLEAN WATER AGENCY
PERFORMANCE ASSESSMENT REPORT**

OWNER: MUNICIPALITY OF CASSELMAN
 PROJECT: CASSELMAN WASTEWATER TREATMENT SYSTEM
 ECA NUM.: 8160-BAHPRE
 DESCRIPTION: MOVING BED BIOLOGICAL REACTOR (MBBR) TREATMENT LAGOON

YEAR: 2025
 WATER COURSE: NATION RIVER
 DESIGN CAPACITY: 2,110 m³/d
 FACILITY WORKS#: 110002201

MONTH	RAW								EFFLUENT										
	Total Flow m ³	Avg Day Flow m ³	Max Day Flow m ³ /d	Avg Alum Dosage (mg/L)	Avg Raw BOD5 (mg/L)	Avg Raw TSS (mg/L)	Avg. Raw TKN (mg/L)	Avg Raw TP (mg/L)	Effluent Flow m ³	Effluent Avg Flow m ³	Effluent Max Flow m ³ /d	Avg CBOD5 (mg/L)	Avg TSS (mg/L)	Avg TAN (mg/L)	Avg TP (mg/L)	Avg TKN (mg/L)	Avg Nitrate (mg/L)	Avg Nitrite (mg/L)	E. coli (cfu/100 mL)
JAN	43,311	1,397	1,703	74.04	186	272	55.7	6.07	80,565	2,576	2,781	3.5	8.0	7.9	0.33	11.75	9.17	0.05	229
FEB	30,948	1,105	1,158	41.63	241	400	80.2	7.17	65,879	2,623	3,982	4.3	8.8	20.4	0.50	27.97	11.88	0.31	563
MAR	55,988	1,806	3,505	52.85	317	540	73.6	7.40	72,630	2,343	3,650	4.0	6.8	11.46	0.56	13.9	21.6	0.31	78
APR	176,684	5,889	6,938	60.28	157	444	27.7	3.27	176,048	5,896	6,938	4.0	16.3	2.55	0.34	4.4	17.7	0.08	27
MAY																			
JUN																			
JUL																			
AUG																			
SEPT																			
OCT																			
NOV																			
DEC																			
TOTAL	306,931								455,058										
AVG		2,549		57	225	414	59	5.98		3,544		3.9	10.0	10.6	0.43	14.5	15.1	0.19	128
MAX			6,938		317	540	80	7.40			6,938	4.3	16.3	20.4	0.56	28.0	21.6	0.31	563
CRITERIA						Fall Discharge			267,650	2,909									
						Winter/Spring Dircharge			502,500	3,722	5,000								

COMPLIANCE											NO								
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MONTH	UPSTREAM*				DOWNSTREAM**			
	Avg CBOD5 (mg/L)	Avg TSS (mg/L)	Avg TAN (mg/L)	Avg PHOS. (mg/L)	Avg CBOD5 (mg/L)	Avg TSS (mg/L)	Avg TAN (mg/L)	Avg PHOS. (mg/L)
JAN	3.0	6.0	0.12	0.04				
FEB	3.0	6.0	0.14	0.06				
MAR								
APR								
MAY								
JUN								
JUL								
AUG								
SEPT								
OCT								
NOV								
DEC								
TOTAL								
AVG	3.0	6	0.13	0.05	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
MAX	3	6.0	0.14	0.06	0.0	0	0.00	0.00
CRITERIA								

Comments:

Appendix B

Work Order Summary Reports



Monthly Work Order Summary – April 2025

Casselman Drinking Water System

Description	Status	Work Type
Actuator (air) Inspection/Service (1y) 5971	COMP	PM
AHU Service (1y) 5971	COMP	PM
Analyzer Total Chlorine Inspection/Service (1m) 5971	COMP	PM
Chlorinator Service (1y) 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
Gear Drive Sludge Pump Service (6m) - 5971	COMP	PM
Generator Inspection (1m) 5971	COMP	PM
Lifting Device Hoist Chain Insp (1y) - 5971	WSCH	PM
Meter Level Inspection/Service (3m) 5971	APPR	PM
Sensor Gas Monitor Insp (6m) 5971	COMP	PM
Pump Submersible ACTIFLO Inspection (3m) 5971	COMP	PM
PANEL ALARM/DIALER TEST (1m) - 5971	COMP	PM
UV Light Bank Insp/Service (1m) - 5971	COMP	PM
Workplace Inspection - DS Silica- 1m - 5971	COMP	OPER
Monthly H&S Equipment Check (1m) - 5971	COMP	PM
Quarterly H&S Equipment Check (3m) - 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
JHSC Meeting (3m) - 5971	APPR	PM
WISKI Monthly Review(1m) 5971	COMP	PM

Monthly Work Order Summary – April 2025

Casselman Drinking Water System

5971 Call Back Casselman WTP- High Settled turbidity	COMP	CAP
UV Sensor Reference Check/Calibration (1m) - 5971	COMP	PM
CLEAR WELL , HIGH LIFT PUMP (1y) - 5971	COMP	PM
5971 Call Back Casselman WTP- High Settled turbidity	COMP	CAP
5971-WTCA-P - High Level Clearwell	COMP	CALL
5971 Casselman WTP - Transfer pipe mixer and cleaning	CLIENT	CAP
5971-05 Casselman Building and Grounds Maintenance-MM - Misc Plant supplies	COMP	CAP
5971-01 Casselman Emergency Repairs-MM - Water Plant Roof	APPR	CAP

Monthly Work Order Summary – April 2025

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
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
Specific ECA - Bypass (3m) - 1501	COMP	PM

Workplace Inspection (1m) - 1501	COMP	OPER
Quarterly H&S Equipment Check (1m) - 1501	COMP	PM
WISKI Monthly Review(1m) 1501	COMP	PM
1501-06 Building and Grounds- MM - Locks and Keys	COMP	CAP
Call Back - Casselman SPS 6 - 1501 - High WW	COMP	CALL
Call Back - Casselman SPS 6 - 1501 - High WW	COMP	CALL

Appendix C

Locate Summary



Casselman Monthly Locate Summary – April 2025

Description	Status	Work Type
Locate Casselman WDS 1553 - 20251317780 158 Argile	COMP	OPER
Locate Casselman WDS 1553 - 20251614941 Carpe new Development	COMP	OPER
Locate Casselman WDS 1553 - 20251512095 738 Principal	COMP	OPER
Locate Casselman WDS 1553 - 20251515536 Emergency Locate isidore/castongay	COMP	OPER
Locate Casselman WDS 1553 - 2025158871 633 Conservation	COMP	OPER
Locate Casselman WDS 1553 - 2025157021 744 Laval	COMP	OPER
Locate Casselman WDS 1553 - 2025156326 685-689 Montcalm	COMP	OPER
Locate Casselman WDS 1553 - 20251424513 316-318 Zakari	COMP	OPER
Locate Casselman WDS 1553 - 20251422578 Bray St isidore	COMP	OPER
Locate Casselman WDS 1553 - 20251421317 1+3 Gagne crescent	COMP	OPER
Locate Casselman WDS 1553 - 20251421316 37 richer crescent	COMP	OPER
Locate Casselman WDS 1553 - 2025145441 Lafontaine+dore	COMP	OPER
Locate Casselman WDS 1553 - 20251410491 120 Argile	COMP	OPER
Locate Casselman WDS 1553 - 20251413303 La fontaine/carpe	COMP	OPER
Locate Casselman WDS 1553 - 2025140026 14 Alice	COMP	OPER
Locate Casselman WDS 1553 - 2025140065 640 conservation	COMP	OPER
Locate Casselman WDS 1553 - 2025127342 192 Argile	COMP	OPER
Locate Casselman WDS 1553 - 2025142364 196 Argile	COMP	OPER
Locate Casselman WDS 1553 - 20251415919 76 Laurier	COMP	OPER
Locate Casselman WDS 1553 - 20251614930 Carpe new Development	COMP	OPER
Locate Casselman WDS 1553 - 20251614799- Carpe/Lufo South	COMP	CAP
Locate Casselman WDS 1553 - 20251614782- Carpe/Lufo North	COMP	CAP
Locate Casselman WDS 1553 - 20251614485- 738 Principale	COMP	CAP
Locate Casselman WDS 1553 - 20251613465- Conssision road/Laurier	COMP	CAP
Locate Casselman WDS 1553 - 20251613892- Heron st/ Dore	COMP	CAP
Locate Casselman WDS 1553 - 20251613862- Argile tie in	COMP	CAP
Locate Casselman WDS 1553 - 20251414999- Moncalm Side walks	COMP	CAP

Casselman Monthly Locate Summary – April 2025

Locate Casselman WDS 1553 - 20251415095- St Jean Side walks	COMP	CAP
Locate Casselman WDS 1553 - 20251613840 Argile/heron	COMP	CAP
Locate Casselman WDS 1553 - 20251613796 Argile/Dore Tie in	APPR	CAP
Locate Casselman WDS 1553 - 20251613404 commisison rd 5/Dore Tie in	COMP	CAP
Locate Casselman WDS 1553 - 20251611719 600 conservation	COMP	CAP
Locate Casselman WDS 1553 - 2025167282 738 brebeuf	COMP	CAP
Locate Casselman WDS 1553 - 2025164440 237+241 Zakari	COMP	CAP
Locate Casselman WDS 1553 - 2025161800 37 richer	COMP	CAP
Locate Casselman WDS 1553 - 20251415573 St isidore sidewalks	COMP	CAP
Total : 36		