# Monthly Operations Report

for the Municipality of Casselman's Water and Wastewater Systems

May 2025



#### **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**

		ı	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	•	
Actual Result		0	
Drinking Water			
Inspection Ratings (YTD)	100 %	•	
Actual Result		100 %	
AWQI's	0	•	
Actual Result		0	
Number of Non-Compliances	0	•	
Actual Result		0	
Number of Water Main Breaks	0	•	
Actual Result		0	
Number of Complaints	0	•	
Actual Result		0	
Water Main Flushing	Υ	•	
Target Achieved	1	Υ	
Wastewater			
Number of Non-Compliances	0	•	
Actual Result		0	
Number of Bypasses	0	•	
Actual Result		0	
Number of Sanitary Sewer Back-ups	0	•	
Actual Result		0	
Sanitary Collection System Flushing	0	•	
Target Achieved	1	Υ	
Preventive Maintenance			
Work Orders Completed	>95%	•	
Target Achieved	1	Υ	

#### **SECTION 2 - FACILITY LISTING**

### Water Treatment & Distribution

Facility	Туре
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	Туре
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 two after-hours call-in alarms
- Spring distribution system flushing was completed in May
- Capital Controls continued working on SCADA upgrades at the WTP
- Repaired Hydrant #96 (splash pad)
- Verified operation of differential transmitters on Actiflos
- Repaired main valve on Alice St.
- Replaced air blow off valves on Low Lift #2 & #3 and Transfer Pump #3
- Rebuilt Hydrant #'s 90, 91, 93, 100 & 110

#### Wastewater Treatment & Collection

- Responded to three after-hours call-in alarms
- Lagoon discharge continued ended May 15<sup>th</sup>
- MBBR placed in summer mode to recirculate until the next discharge period

#### 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
	A .	None to report

#### **SECTION 8 - RECOMMENDATIONS / GENERAL COMMENTS**

#### General

• 34 locates were completed in May.

### 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.

# **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:
 2025

 WATER SOURCE:
 NATION RIVER

 DESIGN CAPACITY:
 3182 m3/d

 WORKS NUM.:
 210001219

	SYSTEM	FLOWS (T	REATED)	TREA	ATED	DISTRI	BUTION			RAW						TREATED				D	STRIBUTIO	N
MONTH	Total Flow	Avg. Flow	Max Day Flow	Min. Free Cl <sub>2</sub> Resid.	Max Free Cl <sub>2</sub> Resid.	Min Combined Cl2 Resid.	Max Combined Cl2 Resid.	Dissolved Organic Carbon	Total Organic Carbon	Total Hardness (mg/L)	Average Manganese (mg/L)	Max Manganese (mg/L)	IH Avg. Turbidity (NTU)	IH Max. Turbidity (NTU)	Dissolved Organic Carbon	Total Organic Carbon	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	(m <sup>3</sup> ) 35.809	(m²) 1155	(m³) 1555	(mg/L) 1.05	(mg/L) 2.60	(mg/L) 1.21	(mg/L) 1.97	(mg/L) 6.20	(mg/L) 6.60	323	0.07	0.11	0.31	0.50	(mg/L) 3.00	(mg/L) 3.50	322	0.05	0.08	42.00	27.10	0.0009
FEB	31.867	1138	1311	1.05	2.32	1.32	2.17	3.90	3.60	430	0.07	0.11	0.51	0.60	2.50	1.80	322	0.05	0.08	42.00	27.10	0.0009
MAR	35,230	1136	1603	0.97	2.32	1.32	2.02	3.70	3.00	459	0.10	0.11	0.51	0.62	2.30	1.70		0.07	0.09			
APR	33,230	1131	1378	1.09	2.47	1.15	1.71	7.80	7.20	214	0.09	0.12	0.38	0.62	3.00	2.50		0.08	0.08	40.00	27.70	0.0026
MAY	37094	1197	1700	1.05	2.30	1.13	1.98	7.60	7.60	309	0.09	0.12	0.30	0.35	3.50	3.30		0.03	0.03	40.00	21.10	0.0020
JUN	37054	1107	1700	0.00	0.00	0.00	0.00	7.00	7.00	303	0.03	0.12	0.27	0.55	3.30	3.30		0.02	0.05			
JUL				0.00	0.00	0.00	0.00															
AUG				0.00	0.00	0.00	0.00															
SEP				0.00	0.00	0.00	0.00															
OCT				0.00	0.00	0.00	0.00															
NOV				0.00	0.00	0.00	0.00															
DEC				0.00	0.00	0.00	0.00															
TOTAL	173,940																					
AVG		1,152						5.84	5.60	347	0.10		0.40		2.86	2.56	322	0.05		41.00	27.40	0.0009
MAX			1,700		2.60		2.17					0.22		0.62					0.09			
MIN				0.00		0.00																
CRITERIA			3,182	CT		0.25	3.00													<100	<80	< 0.009

		SYSTEM FL	OWS (RAV	/)	ACTIFLO	FILTER #1	ACTIFLO	FILTER #2		tiency	TA	NK		TRE	ATED			coli / Total (			RAW V	NATER
	Total	Avg. Day	Max.	Max.	Avg.	Max.	Avg.	Max.	Turbialty	Turbidity	Backwash	Supernatant	OL Avg.	OL Max.	Min UV	Min	(Nu	imber of San	nples Colle	cted)	Coliform	E.coli
MONTH	Flow	Flow	Flow	Flow Rate	Turbidity	Turbidity	Turbidity	Turbidity	% < 0.3	% < 0.3	TSS	TSS	Turbidity	Turbidity	Intensity	UVT	S	afe	Adv	rerse	Max.	Max.
	(m <sup>3</sup> )	(m <sup>3</sup> )	(m <sup>3</sup> )	(L/min)	(NTU)	(NTU)	(NTU)	(NTU)	NIU Filter	NTU Filter	(mg/L)	(mg/L)	(NTU)	(NTU)	(mJ/cm²)	(%)	Treated	Distribution	Treated	Distribution	Count	Count
JAN	42,495	1371	1793	36.42	0.12	0.37	0.12	0.64	99.97	99.58	88	8	0.33	1.40	82	67	4	12	0	0	35,000	24
FEB	37,831	1351	1538	36.63	0.09	0.28	0.10	0.33	99.99	99.43	12	11	0.44	2.11	87	81	4	12	0	0	2,000	34
MAR	41,446	1337	1850	31.55	80.0	0.42	0.12	0.49	98.94	99.72	10	9	0.37	1.47	86	67	5	15	0	0	19,000	48
APR	38,744	1291	1720	29	0.09	0.55	0.11	0.48	99.88	96.20	8	9	0.22	0.66	102	76	4	12	0	0	1,300	78
MAY	41,607	1342	1875	29	0.11	0.56	0.12	0.29	99.81	100.00	41	13	0.18	0.52	95	80	4	12	0	0	300	39
JUN																						
JUL																						
AUG																						
SEP																						
OCT																						
NOV																						
DEC																						
TOTAL	202,123																21	63	0	,		
AVG		1,339			0.10		0.11		99.72	98.99	31.8	10.0	0.31									
MAX			1,875	37		0.56		0.64			88	13		2.11							35,000	78
MIN															82.00	67.00						
CRITERIA			3,182	2,205		<1		<1	>95%	>95%	<25	<25		<5	>40							

On Line		TW1 IH		IH - Field U		On Line			ab Uploads				
TRE	ATED	TRE	ATED	TRE	ATED	DISTRI	BUTION	DISTRI	BUTION	DISTRI	BUTION	DISTRI	BUTION
Min Free Cl <sub>2</sub> Resid. (mg/L)		Min Free Cl2 Resid. (mg/L)	Max Free Cl2 Resid. (mg/L)			Min Combined Cl <sub>2</sub> (mg/L)	Max Combined Cl <sub>2</sub> (mg/L)						
1.05	2.60	1.55	1.83	1.27	1.86	1.27	1.97	1.53	1.81	1.21	1.53	1.58	1.79
1.39	2.32	1.74	1.93	1.55	1.85	1.55	2.17	1.58	1.91	1.32	1.59	1.53	1.83
0.97	2.47	1.59	2.10	1.31	1.82	1.31	2.02	1.35	1.80	1.22	1.54	1.67	1.88
1.09	2.23	1.32	2.11	1.30	1.55	1.15	1.70	1.50	1.71	1.34	1.71	1.61	1.70
1.06	2.30	1.05	1.75	1.06	1.70	1.24	1.98	1.37	1.56	1.33	1.58	1.29	1.70

COMMENTS:

#### **ONTARIO CLEAN WATER AGENCY** PERFORMANCE ASSESSMENT REPORT

OWNER: **MUNICIPALITY OF CASSELMAN** 

CASSELMAN WASTEWATER TREATMENT SYSTEM PROJECT:

ECA NUM.:

8160-BAHPRF
MOVING BED BIOLOGICAL REACTOR (MBBR) TREATMENT LAGOON **DESCRIPTION:** 

YEAR: 2025 WATER COURSE:

NATION RIVER 2,110 m³/d **DESIGN CAPACITY:** 110002201 FACILITY WORKS#:

				RA	.W				EFFLUENT										
MONTH	Total	Avg Day	Max Day	Avg Alum	Avg Raw			Avg Raw	Effluent	Effluent	Effluent	Avg	Avg	Avg	Avg	Avg	Avg	Avg	E. coli
MONTH	Flow	Flow	Flow	Dosage	BOD5	TSS	TKN	TP	Flow	Avg Flow	Max Flow	CBOD5	TSS	TAN	TP	TKN	Nitrate	Nitrite	(cfu/100
	m <sup>3</sup>	m <sup>3</sup>	m³/d	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	$m^3$	m³	m³/d	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	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	3.0	11.0	2.55	0.34	4.4	17.7	0.08	27
MAY	45,289	1,461	1,728	39.33	194	266	41.6	4.49	59,936	4,281	5,422	4.0	8.5	0.28	0.30	2.0	16.2	0.05	53
JUN																			
JUL																			
AUG																			
SEPT																			
OCT																			
NOV																			
DEC																			
TOTAL	352,220								455,058										
AVG		2,332		54	219	384	56	5.68		3,544		3.8	8.6	8.5	0.41	12.0	15.3	0.16	107
MAX			6,938		317	540	80	7.40			6,938	4.3	11.0	20.4	0.56	28.0	21.6	0.31	563
CRITERI							all Dischar		267,650	2,909									
Α						Winter	Spring Dir	charge	502,500	3,722	5,000								
COMPLIA	NCE										NO								
COMPLIA	NOL										INO								1

		UPSTI	REAM*			DOWNS	TREAM**	
MONTH	Avg	Avg						
WONTH	CBOD5	TSS	TAN	PHOS.	CBOD5	TSS	TAN	PHOS.
	(mg/L)	(mg/L)						
JAN	3.0	6.0	0.12	0.04				
FEB	3.0	6.0	0.14	0.06				
MAR	3.0	32.3	0.1	0.1	3.0			
APR	3.0	34.8	0.13	0.12	3.00	154.0	0.31	0.16
MAY	3.0	5.0	0.06	0.05	3.0	10.5	0.26	0.06
JUN								
JUL								
AUG								
SEPT								
OCT								
NOV								
DEC								
TOTAL								
AVG	3.0	17	0.12	0.08	3.0	82.3	0.29	0.11
MAX	3	34.8	0.14	0.12	3.0	154	0.31	0.16
CRITERIA								

Comments:

# **Appendix B**

**Work Order Summary Reports** 



# Monthly Work Order Summary – May 2025 Casselman Drinking Water System

Description	Status	Work Type
5971-WTCA-P - Phone line down - No Alarm Systems Alarms	СОМР	CALL
5971-02 Casselman Electrical/Instrumentation Upgrades-MM - Repair VFD Spare	APPR	CAP
5971-WTCA-P - Capital Controls - Verification of Actiflo Pressure Differential	COMP	CAP
5971-01 Casselman Emergency Repairs-MM- Roof repair and caulking. New header	COMP	CAP
5971-02 Electrical/Instrumentation Upgrades-MM - New thermostats	COMP	CAP
Workplace Inspection - DS Silica- 1m - 5971	COMP	OPER
MDWL Renewal (5y) - 5971 Casselman WT	APPR	OPER
Grating Insp (1y) - 5971, Casselman Distribution	APPR	OPER
Grating Insp (1y) - 5971, Casselman WTP	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	СОМР	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	СОМР	PM
UV Light Bank Insp/Service (1m) - 5971	СОМР	PM
Monthly H&S Equipment Check (1m) - 5971	СОМР	PM
Client Reports (1m) - Casselman 5971	СОМР	PM
UVT Sensor Checks/Calibration (1m) - 5971	СОМР	PM
Pump Diaphragm Coagulant Route Inspection/Service (1m) 5971	СОМР	PM
Pump Diaphragm Polymer Route Inspection/Service (1m) 5971	СОМР	PM
Pump Diaphragm Sodium Hydroxide Route Inspection/Service (1m) 5971	СОМР	PM
Pump Diaphragm Ammonium Sulphate Route Inspection/Service (1m) 5971	СОМР	PM
Pump Diaphragm Potassium Permanganate Route Inspection/Service (1m) 5971	СОМР	PM

## Monthly Work Order Summary – May 2025 Casselman Drinking Water System

WISKI Monthly Review(1m) 5971	СОМР	PM
Chemical Review (1y) - 5971	APPR	PM
Lifting Equipment Inspection (1y) 5971	APPR	PM
UV Sensor Reference Check/Calibration (1m) - 5971	СОМР	PM
Casselman WDS 1553 - Shut Off +repairs - 126 Laurier	СОМР	CAP

# Monthly Work Order Summary – May 2025 Casselman Wastewater Treatment & Collection System

Description	Status	Work Type
1501- Casselman SPS#3 Loss of echo	COMP	CALL
Wet Well Low Lagoon	СОМР	CALL
mmbr #1 tank low level.	СОМР	CALL
1501- Casselman Sewage- SPS6 Cleaning	СОМР	САР
1501-WWCA - Casselman Sewage SPS1 Upgrades	APPR	CAP
1501-06 Buildings and Grounds - MM - Lagoon Rodent Control	СОМР	CAP
Workplace Inspection (1m) - 1501	СОМР	OPER
Grating Insp (1y) - 1501, Casselman Wastewater Treatment	APPR	OPER
Generator Inspection (1m) SPS #1 1501	СОМР	PM
Generator Inspection (1m) SPS #2 1501	СОМР	PM
Generator Inspection (1m) SPS #3 1501	СОМР	PM
Generator Inspection (1m) SPS #5 1501	СОМР	PM
Generator Inspection (1m) SPS #6 1501	СОМР	PM
Generator Inspection (1m) 1501	СОМР	PM
Analyzer Turbidity Inspection/Service (1m) 1501	СОМР	PM
PANEL ALARM/DIALER TEST SPS#4 (1m) 1501	СОМР	PM
Monthly H&S Equipment Check (1m) - 1501	СОМР	PM
Blower Inspection/Service (1m/1y) 1501	СОМР	PM
Blower Inspection/Service (1m/1y) 1501	СОМР	PM
Blower Inspection/Service (1m/1y) 1501	СОМР	PM
Blower Inspection/Service (1m/1y) 1501	СОМР	PM
Blower Inspection/Service (1m/1y) 1501	СОМР	PM
Bar Screen Inspection (1m) 1501	СОМР	PM

PANEL ALARM/DIALER TEST (1m) - 1501	СОМР	PM
PANEL ALARM/DIALER TEST SPS#6 (1m) - 1501	COMP	PM
PANEL ALARM/DIALER TEST SPS#3 (1m) - 1501	СОМР	PM
PANEL ALARM/DIALER TEST SPS#2 (1m) - 1501	СОМР	PM
PANEL ALARM/DIALER TEST SPS#5 (1m) - 1501	СОМР	PM
PANEL ALARM/DIALER TEST SPS#1 (1m) - 1501	СОМР	PM
PANEL ALARM/DIALER TEST LAGOON (1m) - 1501	COMP	PM
WISKI Monthly Review(1m) 1501	COMP	PM
Chemical Review (1y) - 1501	APPR	PM
Lifting Equipment Inspection (1y) 1501	APPR	PM
Collection System Flushing and Wet well cleaning (1y) 1501	APPR	PM

# **Appendix C**

**Locate Summary** 



# Casselman Monthly Locate Summary – May 2025

Description	Status	Work
		Туре
Locate Casselman WDS 1553 -20251824998 - 866 Principal	COMP	CAP
Locate Casselman WDS 1553 -20251828329 - 5 Gange	COMP	CAP
Locate Casselman WDS 1553 -2025191911 - 791 Laval	COMP	CAP
Locate Casselman WDS 1553 -2025192831 - 697 Cartier	COMP	CAP
Locate Casselman WDS 1553 -2025199883 - 568 Civic	COMP	CAP
Locate Casselman WDS 1553 -20251910161 - 674 Ste Joseph	COMP	CAP
Locate Casselman WDS 1553 -20251917680- 46 roger crescent	COMP	CAP
Locate Casselman WDS 1553 -20251915833 - Sarah St	COMP	CAP
Locate Casselman WDS 1553 - 20251928638+20251928655 - Alice Valves	COMP	CAP
Locate Casselman WDS 1553 - 2025218844- 873 Laval	COMP	CAP
Locate Casselman WDS 1553 - 2025217489- 663 Montcalm	COMP	CAP
Locate Casselman WDS 1553 - 2025217484- 83 Laurier	COMP	CAP
Locate Casselman WDS 1553 - 2025213752- 285 Nature	COMP	CAP
Locate Casselman WDS 1553 - 20213469- Alice St	COMP	CAP
Locate Casselman WDS 1553 - 20251723231 - 568 Route 600 E	COMP	OPER
Locate Casselman WDS 1553 - 20251723380 - 674 St. Joseph St.	COMP	OPER
Locate Casselman WDS 1553 - 2025184540 - 41 DESNOYERS ST	COMP	OPER
Locate Casselman WDS 1553 - 2025188256 - 837 PRINCIPALE ST	COMP	OPER
Locate Casselman WDS 1553 - 2025189834 - 705 ST ISIDORE RD	COMP	OPER
Locate Casselman WDS 1553 - 20251813752 - 769 ST JEAN ST	COMP	OPER
Locate Casselman WDS 1553 - 20251815546 - 268 NATURE ST	COMP	OPER
Locate Casselman WDS 1553 - 20251823415 - 15 PERCY ST	COMP	OPER
Locate Casselman WDS 1553 - 2025184744 - 7 CASTONGUAY ST	COMP	OPER
Locate Casselman WDS 1553 - 2025180389 - 729 DES MERISIERS PLACE	COMP	OPER
Locate Casselman WDS 1553 - 2025188363 - 1 RICHER CIR	COMP	OPER
Locate Casselman WDS 1553 - 20251815546 - 268 NATURE ST	COMP	OPER

# Casselman Monthly Locate Summary – May 2025

Locate Casselman WDS 1553 - 20251815747 - 308 NATURE ST	COMP	OPER
Locate request "20251812989" 683 st isidore	COMP	OPER
Locate request "20251813001" 681 st isidore	COMP	OPER
Locate Request "20251813018" 693 St isidore	COMP	OPER
Locate Request "20251812890" 703 st isidore	COMP	OPER
Locate request "20251812978" 687 st isidore	COMP	OPER
Locate request "20251812963" 711 st isidore	COMP	OPER
Locate request "20251819198" 829 st isidore	COMP	OPER
Total: 34		