

Monthly Operations Report

for the Municipality of Casselman's Water and
Wastewater Systems

April 2024



Ontario Clean Water Agency
Agence Ontarienne Des Eaux

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A decorative graphic in the bottom right corner of the page. It features a light blue sun with a thick, curved arc at the top, and three wavy, horizontal bands below it, representing water or waves. The colors are a soft, pastel blue.

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	Y	●	
<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 4 after-hours call-in alarms
- OCWA staff operated the plant remotely after hours during the time Filter #1 was offline for repair from March 9th to April 8th.
- Completed maintenance on UV disinfection system (Xylem)
- Turned on water service to 200 Zakari Street
- Valve work commenced (Desnoyers, St. Isidore, Cartier & Laval)

Wastewater Treatment & Collection

- Responded to call-in alarm to stations due to power outage
- Sanitary sewer main flushing continued in April
- Lagoon discharge continued through April

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

- 49 locates were completed in April.

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) quarterly	HAA (µg/L) quarterly	NDMA (µg/L) quarterly
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																						
JUN																						
JUL																						
AUG																						
SEP																						
OCT																						
NOV																						
DEC																						
TOTAL	132,219																					
AVG		1,093						7.05	7.30	291	0.11		0.31		3.93	3.95	281	0.05		57.5	32.9	0.0010
MAX			1,458		2.35		2.41					0.27		0.97					0.09			
MIN				1.20		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		Max. Count	Max. Count
																	Treated	Distribution	Treated	Distribution		
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																						
JUN																						
JUL																						
AUG																						
SEP																						
OCT																						
NOV																						
DEC																						
TOTAL	163,198																18	54	0	0		
AVG		1,350			0.18		0.13		99.14	99.75	13	6	0.30									
MAX			2,006	2,260		0.70		0.39			33	7		2.00							39,000	88
MIN															53	74						
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 – April 2024

Casselman Drinking Water System

Description	Status	Work Type
Actuator (air) Inspection/Service (1y) 5971	APPR	PM
AHU Service (1y) 5971	APPR	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	COMP	PM
Sensor Gas Monitor Insp (6m) 5971	COMP	PM
Pump Submersible ACTIFLO Inspection (3m) 5971	APPR	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
Quarterly H&S Equipment Check (3m) - 5971	APPR	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	COMP	PM
WISKI Monthly Review(1m) 5971	COMP	PM
UV Sensor Reference Check/Calibration (1m) - 5971	COMP	PM
CLEAR WELL , HIGH LIFT PUMP (1y) - 5971	APPR	PM
Workplace Inspection (1m) - 5971	COMP	OPER
5971-06 Casselman UV System Parts & Repairs-MM - Xylem Onsite Visit	COMP	CAP
5971-03 Casselman Chemical Systems-MM - Replacement parts for Chem pumps	COMP	CAP
5971-05 Casselman Building and Grounds Maintenance-MM Filter housing Chlorine Effluent	COMP	CAP
5971-06 Casselman UV System Parts & Repairs-MM - Traing and cleaning	APPR	CAP
5971-05 Casselman Building and Grounds Maintenance-MM Pump& Generator(Spare)	COMP	CAP
Casselman - 1553 - WD - Turn On Water Service - 200 Zakari St	COMP	CAP
1553-03 Casselman DIST. Distribution Maintenance (Seco - Turn Off Water Service - 30-32 Laurier St	COMP	CAP
1553-02 Casselman DIST. Distribution Maintenance (Valves)- MM - Isabelle and St Isidore VB 44	COMP	CAP
1553-02 Casselman DIST. Distribution Maintenance (Valves)- MM - Hydrant valve #70 Isabelle	COMP	CAP
1553-02 Casselman DIST. Distribution Maintenance (Valves)- MM - Desnoyers VB	COMP	CAP
1553-02 Casselman DIST. Distribution Maintenance (Valves)- MM - Cartier and St Joseph VB #49	COMP	CAP
1553-02 Casselman DIST. Distribution Maintenance (Valves)- MM - Cartier and Laval VB #57	COMP	CAP

Monthly Work Order Summary – April 2024
Casselman Drinking Water System

1553-01 Casselman DIST. Distribution Maintenance (Hydrant)-MM- LHS hydrant Repairs	APPR	CAP
5971-WTCA-P - Actiflow 1 and 2 high pressure differential	COMP	CALL
Casselman WTP 5971 Activflo 1 Pressure diff	COMP	CALL
Casselman WTP 5971 Activflo 1 High Turb	COMP	CALL
Casselman WTP 5971 Activflo 1 High Level	COMP	CALL

Monthly Work Order Summary – April 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
Specific ECA - Bypass (3m) - 1501	COMP	PM
Quarterly H&S Equipment Check (1m) - 1501	COMP	PM
WISKI Monthly Review(1m) 1501	COMP	PM
Workplace Inspection (1m) - 1501	COMP	OPER

Appendix C

Locate Summary



Casselman Monthly Locate Summary – April 2024

Description	Status	Work Type
Locate Casselman WDS 1553 - 2024159387 - 709 - 713 Des Cedres	COMP	OPER
Locate Casselman WDS 1553 - 2024157314 - 842 Principale	COMP	OPER
Locate Casselman WDS 1553 - 2024154229 - 6 Vanessa Cir	COMP	OPER
Locate Casselman WDS 1553 - 2024153813 - 651 St Anne	COMP	OPER
Locate Casselman WDS 1553 - 2024152432 - Dore St	COMP	OPER
Locate Casselman WDS 1553 - 2024151352 - 619 St Isidore	COMP	OPER
Locate Casselman WDS 1553 - 2024151223 - 713 St Isidore	COMP	OPER
Locate Casselman WDS 1553 - 20241511822 - 805 Principale St	COMP	OPER
Locate Casselman WDS 1553 - 2024146591 - 16 Albert	COMP	OPER
Locate Casselman WDS 1553 - 2024143329 - 872 Laval	COMP	OPER
Locate Casselman WDS 1553 - 20241425714 - 344 Dore St	COMP	OPER
Locate Casselman WDS 1553 - 20241424715 - 300 Dore St	COMP	OPER
Locate Casselman WDS 1553 - 20241424101 - 83 Laurier St	COMP	OPER
Locate Casselman WDS 1553 - 2024141919 - 2 Sauve Terrace	COMP	OPER
Locate Casselman WDS 1553 - 20241415914 - Saint Albert Rd	COMP	OPER
Locate Casselman WDS 1553 - 2024141531 - 792 St Therese	COMP	OPER
Locate Casselman WDS 1553 - 20241413354 - 2 Racine St	COMP	OPER
Locate Casselman WDS 1553 - 2024139721 - 700 Principale St	COMP	OPER
Locate Casselman WDS 1553 - 20241317282 - Lafontaine Side Rd	COMP	OPER
Locate Casselman WDS 1553 - 20241317227 - 825 Principale St	COMP	OPER
Locate Casselman WDS 1553 - 2024188717 - St Jean	COMP	CAP
Locate Casselman WDS 1553 - 2024188671 - 42 Roger Cres	COMP	CAP
Locate Casselman WDS 1553 - 2024184579 - 567 St Isidore	COMP	CAP
Locate Casselman WDS 1553 - 2024184526 - 200 Argile	COMP	CAP
Locate Casselman WDS 1553 - 2024180509 - 48 Boileau St	COMP	CAP
Locate Casselman WDS 1553 - 20241725840 - 685 St Anne	COMP	CAP
Locate Casselman WDS 1553 - 20241721854 - 132 Argile St	COMP	CAP
Locate Casselman WDS 1553 - 20241721678 - 32 Desnoyers	COMP	CAP
Locate Casselman WDS 1553 - 20241713069 - 116 Argile	COMP	CAP
Locate Casselman WDS 1553 - 20241712060 - 719 Des Merisiers	COMP	CAP
Locate Casselman WDS 1553 - 2024163431 - 382 Dore St	COMP	CAP
Locate Casselman WDS 1553 - 20241623138 - 27 Roger Cres	COMP	CAP
Locate Casselman WDS 1553 - 20241622643 - 116 Argile	COMP	CAP
Locate Casselman WDS 1553 - 20241620381 - 862 Principale St	COMP	CAP
Locate Casselman WDS 1553 - 20241617842 - 9 Isabelle	COMP	CAP

Casselman Monthly Locate Summary – April 2024

Locate Casselman WDS 1553 - 20241617818 - 754 St Jean	COMP	CAP
Locate Casselman WDS 1553 - 20241617777 - 3 Martin	COMP	CAP
Locate Casselman WDS 1553 - 20241617756 - 619 St Isidore	COMP	CAP
Locate Casselman WDS 1553 - 20241617652 - 632 Principale St	COMP	CAP
Locate Casselman WDS 1553 - 20241617292 - 7 Vanessa Cir	COMP	CAP
Locate Casselman WDS 1553 - 20241616642 - Lafontaine Sideroad	COMP	CAP
Locate Casselman WDS 1553 - 20241610140 - 11 River Nation Rd	COMP	CAP
Locate Casselman WDS 1553 - 20241527238 - 123 Laurier St	COMP	CAP
Locate Casselman WDS 1553 - 20241526536 - 105 Argile	COMP	CAP
Locate Casselman WDS 1553 - 2024152390 - 716 Principale	COMP	CAP
Locate Casselman WDS 1553 - 20241523231 - 95 Lafleche Blvd	COMP	CAP
Locate Casselman WDS 1553 - 20241522363 - Brebeuf and St Isidore	COMP	CAP
Locate Casselman WDS 1553 - 20241520686 - 762 Levesque Cres	COMP	CAP
Locate Casselman WDS 1553 - 20241517681 - 699 St Anne	COMP	CAP
Total		49