

Monthly Operations Report

for the Municipality of Casselman's Water and
Wastewater Systems

February 2025



Ontario Clean Water Agency
Agence Ontarienne Des Eaux

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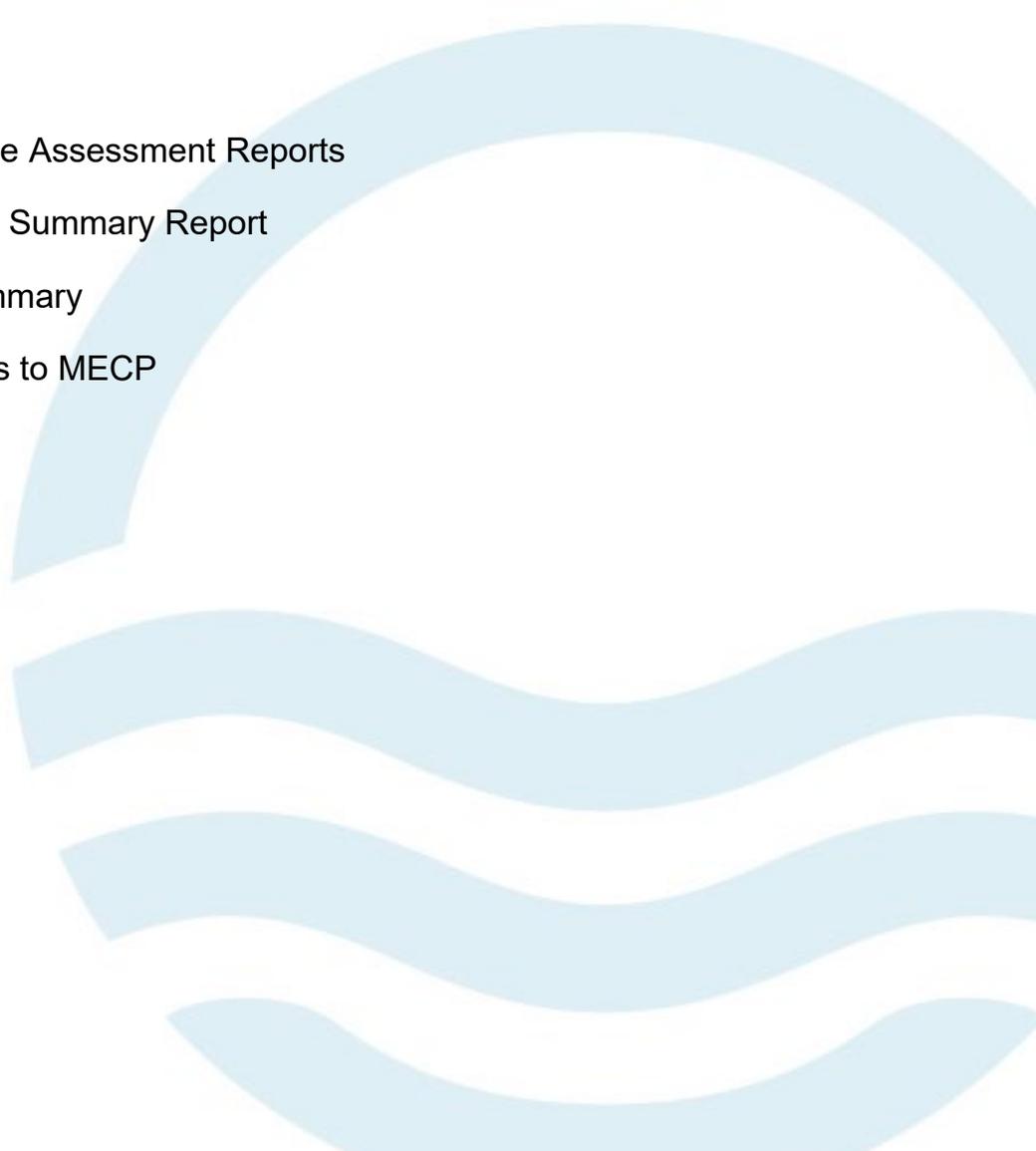
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SECTION 1 – MONTHLY OPERATIONS REPORT CARD

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>Sodium Exceedance</i>
<i>Actual Result</i>		1	
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>TAN in effluent from WWTP</i>
<i>Actual Result</i>		1	
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

A sodium exceedance was reported for Casselman’s Drinking Water System in February 2025. Testing for sodium in treated water is completed every 60 months in accordance with O. Reg. 170, and systems with exceedances will re-issue notifications to the public at this time. The Notification to MECP/MOH as well as the Notice to Residents provided by the EOHU for the sodium exceedance can be found attached in Appendix D.

One non-compliance was reported for Casselman’s wastewater treatment system. The monthly average concentration of total ammonia nitrogen (TAN) in effluent discharged from the WWTP during the month of February exceeded the limit specified in the ECA:

Parameter	Date	Type of Limit	Type of Sample	Result (mg/L)	ECA Limit (mg/L)
Total Ammonia Nitrogen (TAN)	February 2025	Monthly Average Effluent Concentration	Grab	20.4	12.0

For details, please refer to the notification of non-compliance submitted to MECP, attached in Appendix D.

The most recent MECP inspections are listed below:

Location	Inspector	Inspection Rating (%)	Date
Casselman Water	Jean-Francois Durocher	Awaiting Report	February 5, 2025
Casselman Sewage	Jean-Francois Durocher	Awaiting Report	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 three after-hours call-in alarms
- Cleaned potassium permanganate lines & pressure relief valves
- Performed maintenance on Ammonia Pump #1
- Capital Controls continued working on upgrades to the WTP SCADA system

Wastewater Treatment & Collection

- Lagoon discharge continued through February
- Communications errors continued to be received from the FlygtCloud system at the SPS’s

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

- 6 locates were completed in February.

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.
- OCWA is experiencing ongoing issues with communication at the SPS's through Flygt Cloud. Redundancy through the use of OCWA's Outpost panels and/or installation of Falcon alarm dialers at these stations should be considered.

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

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	35,809	1155	1555	1.05	2.60	1.21	1.97	6.20	6.60	323	0.07	0.11	0.31	0.50	3.00	3.50	322	0.05	0.08	42.00	27.10	0.0009
FEB	31,867	1138	1311	1.39	2.32	0.20	2.17	3.90	3.60	430	0.10	0.11	0.51	0.60	2.50	1.80		0.07	0.09			
MAR				0.00	0.00	0.00	0.00															
APR				0.00	0.00	0.00	0.00															
MAY				0.00	0.00	0.00	0.00															
JUN				0.00	0.00	0.00	0.00															
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	67,676																					
AVG		1,147						5.05	5.10	377	0.09		0.41		2.75	2.65	322	0.06		42.00	27.10	0.0009
MAX			1,555		2.60		2.17					0.11		0.60					0.09			
MIN				0.00		0.00																
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	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																						
APR																						
MAY																						
JUN																						
JUL																						
AUG																						
SEP																						
OCT																						
NOV																						
DEC																						
TOTAL	80,326																8	24	0	0		
AVG		1,361			0.11		0.11		99.98	99.51	50.0	9.5	0.39									
MAX			1,793	37		0.37		0.64			88	11		2.11							35,000	34
MIN															82.00	67.00						
CRITERIA			3,182	2,205		<1	<1	>95%	>95%	<25	<25			<5	>40							

COMMENTS:

Appendix B

Work Order Summary Reports



Monthly Work Order Summary – February 2025

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
Workplace Inspection - DS Silica- 1m - 5971	COMP	OPER
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
Review & Update Infrastructure Maps (1y) - Casselman	APPR	OPER
UV Sensor Reference Check/Calibration (1m) - 5971	COMP	PM
5971-07 Compressor/Dryer/Blower Maintenance -MM	CLIENT	CAP
5971-08 Generator Maint-MM	CLIENT	CAP
5971-09 Operating Authority Audit - MM	CLIENT	CAP
5971-12 Chlorine Injectors - CAP	CLIENT	CAP
5971-14 Replace Blower - CAP	CLIENT	CAP
5971-15 Replace Valves - CAP	CLIENT	CAP
5971-16 Repairs to Leaking Inlet Pipe- CAP	CLIENT	CAP

Monthly Work Order Summary – February 2025
Casselman Drinking Water System

5971-17 Replace Low lift Pump Air relief Valves- CAP	CLIENT	CAP
CM05 MECP Inspection - Casselman DWS - 5971	APPR	ADMIN
sps1 free cl2 and garage intrusion alarm	COMP	CALL
5971-03 Casselman Chemical Systems-MM -backflow diaphragm repair kits	APPR	CAP
5971-01 Casselman Emergency Repairs-MM - Replace VFD Low Lift #1	APPR	CAP
5971-03 Casselman Chemical Systems-MM -Repair parts for chemical systems	APPR	CAP
Call Back - Casselman WTP - 5971 - PLC Error	COMP	CALL

Monthly Work Order Summary – February 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
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
Workplace Inspection (1m) - 1501	COMP	PM

WISKI Monthly Review(1m) 1501	COMP	PM
1501-01 Emergency Repairs - MM - Inspect Pump 1 SPS1	COMP	OPER
1501-01 Emergency Repairs - MM - Inspect Pump 1 SPS1	APPR	PM
1501-03 Electrical/instrumentation - MM - Alarms SPS1 Outpost	APPR	PM
1501-03 Electrical/instrumentation - MM - Spare HMI Miltronics	COMP	PM

Appendix C

Locate Summary



Casselman Monthly Locate Summary – February 2025

Description	Status	Work Type
784 St-Joseph Locate and Water Turn On	COMP	CAP
Locate Casselman WDS 1553 - 2025061310 Richer Cresent	COMP	OPER
Locate Casselman WDS 1553 - 2025061070 DuBoise	COMP	OPER
Locate Casselman WDS 1553 - 2025080571 HWY 417	COMP	OPER
Locate Casselman WDS 1553 - 2025081444 728 Laval	COMP	OPER
Locate Casselman WDS 1553 - 2025082404 Isabelle Hydro Pole	COMP	OPER
Total	6	

Appendix D

Notifications to MECP



Notices of Adverse Test Results and Issue Resolution (Schedule 16)

Drinking Water Systems Regulation (O. Reg. 170/03)

Fields marked with an asterisk (*) are mandatory.

Section 2A – Written Notice By Drinking Water System (DWS) Owner (For THM and HAA reporting see Section 2C)

Indicators of Adverse Water Quality

AWQI Number *

167371

Is this a resample? *

Yes No Unknown If Yes, then provide initial AWQI number

Indicator of Adverse Results

Microbiological * Chemical * Radiological * Operational * Licence/Order/Certificate Authority *

Observations of Improperly disinfected water directed to water users

Low Distribution Chlorine _____ mg/L

High Turbidity _____ NTU

Other _____

Details of Adverse Result *

Treated Water Sodium result after 57 months of 81.8 mg/L.

DWS Information

DWS Name *

Casselman Drinking Water System

DWS Number *

210001219

Last Name *

Crump

First Name *

Dawn

Position *

Senior Operations Manager

Email Address

dcrump@ocwa.com

Telephone Number (including area code)

613-448-3098

ext.

Additional Comments

Resample will be collected in accordance with Reg. 170/03.

Oral Notification to Health Unit - Person Contacted

Public Health Unit Name *

Eastern Ontario Health Unit

Last Name *

Couture

First Name *

Dominik

Position *

Clerk

Telephone Number (including area code) *

800-267-7120

ext.

Fax Number (including area code)

613-933-7930

Date (yyyy/mm/dd) *

2025/02/12

Time (hh:mm) *

9:36 AM

Fields marked with an asterisk (*) are mandatory.

Section 2A continued

DWS Person Providing Oral Notification *	Email Address
Dawn Crump	dcrump@ocwa.com

Corrective Actions to be Taken by Owner/Operator

Corrective Actions	Required *	Completed	Comments
Resample and Test (including upstream, downstream and at AWQI location)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	One at AWQI location
Disinfection Restored / Increased	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Mains / Pipes Flushed	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Signs Posted (Do Not Drink Water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Users Advised to Boil Water / Seek Alternate Source	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Other (Include any other Health Unit directions and any additional attachments)			
Other:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Oral Notification to Spills Action Centre (SAC) - Person Contacted

Last Name *	First Name *	
Harris	Mark	
Position *		
Environmental Officer		
DWS Person Providing Oral Notifying *	Date (yyyy/mm/dd) *	Time (hh:mm)*
Dawn Crump	2025/02/12	9:40 AM
Initial DWS Notification Prepared by *		
Dawn Crump		
Signature	Date (yyyy/mm/dd) *	
	2025/02/12	
Additional Comments		

Do you have another adverse to report? * Yes No

Notices of Adverse Test Results and Issue Resolution (Schedule 16)

Drinking Water Systems Regulation (O. Reg. 170/03)

Fields marked with an asterisk (*) are mandatory.

Section 2B – Notice of Issue Resolution – Section 16-9 (O. Reg. 170/03)

DWS Information

DWS Name *	Casselman Drinking Water System	DWS Number *	210001219
------------	---------------------------------	--------------	-----------

DWS Contact Name

Last Name *	Crump	First Name *	Dawn
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Telephone Number (including area code) *	613-448-3098	ext.		Fax Number (including area code)		Email Address	dcrump@ocwa.com
--	--------------	------	--	----------------------------------	--	---------------	-----------------

Initial AWQI Number ¹ *	167371	Date Resolved (yyyy/mm/dd) *	2025/03/21	Date Resolution Notice Provided (yyyy/mm/dd) *	2025/03/21
------------------------------------	--------	------------------------------	------------	--	------------

Are there previous resample AWQI numbers? *

Yes No

If known, please provide All Other Resample AWQI numbers²

Summary of action taken and results achieved (include test results showing water quality is no longer adverse) *
Resample was collected (see results attached). MOH issued a letter regarding the elevated sodium concentration (attached) which the Municipality will communicate to residents as required.

Was an advisory issued by the Health Unit? *	Advisory Type	Date Issued (yyyy/mm/dd)
<input type="checkbox"/> Yes	Other	
<input checked="" type="checkbox"/> No <input type="checkbox"/> Self Imposed Advisory		

If rescinded, please select date the advisory was rescinded

Date Rescinded (yyyy/mm/dd)

Other (Include Health Unit directions and any additional attachments)
MOH issued a Notice to Residents regarding the elevated sodium concentration.

Attached File Name	Created	Modified	Size (MB)	Remove Selected File
				<input type="checkbox"/>
			Number of attachments	0

Notification/Report Provided By

Fields marked with an asterisk (*) are mandatory.

Section 2B continued

Last Name *	Crump	First Name *	Dawn
Position *	Senior Operations Manager		
Signature			Date (yyyy/mm/dd) *
Additional Comments			2025/03/21

Do you have another adverse to report? Yes No

¹ The original adverse test result.

² When resolving an AWQI state all resample AWQI numbers associated with the initial AWQI. For example, an adverse test result of total coliform requires the corrective action of resampling. If any of the resamples come back adverse, then you must continue resampling until the test results for two consecutive sets of samples taken 24 to 48 hours apart are clear or as directed by the Health Unit. Submit the AWQI form and include all related AWQI numbers (Initial AWQI number and any Resample AWQI number) on the same Section 2B. This eliminates the requirement to submit a Section 2B form for every adverse test result associated with one incident. If the first resample test result is clear then this section does not apply. For THMs and HAAs drinking water system owners/operators are not required to take resamples as part of the prescribed corrective actions; unless directed by the Health Unit.

C.O.C.: -

REPORT No: 25-003982 - Rev. 0

Report To:

Ontario Clean Water Agency - Casselman
 550 Front Rd. West
 L'Original ON, ON K0B 1K0

CADUCEON Environmental Laboratories

2378 Holly Lane
 Ottawa, ON K1V 7P1

Attention: Dawn Crump

DATE RECEIVED: 2025-Feb-12	CUSTOMER PROJECT: Casselman DWS
DATE REPORTED: 2025-Feb-14	P.O. NUMBER: 5971
SAMPLE MATRIX: Drinking Water	WATERWORKS NO: 210001219

Analyses	Qty	Site Analyzed	Authorized	Date Analyzed	Lab Method	Reference Method
ICP/OES (Liquid)	1	OTTAWA	APRUDYVUS	2025-Feb-14	D-ICP-01	SM 3120B

R.L. = Reporting Limit

NC = Not Calculated

Test methods may be modified from specified reference method unless indicated by an *

Parameter	Units	R.L.	Limits	DWG	Client I.D.
					Treated - Resample
					Sample I.D.
					25-003982-1
					Date Collected
					2025-Feb-12
					DWG
					-
Sodium	mg/L	0.2	20	MAC	82.5
Free Chlorine (Client Data)	mg/L	-			1.85

DWG - Drinking Water Guidelines

ODWS - Ontario Drinking Water Standards

AO - Aesthetic Objectives

IMAC - Interim Maximum Acceptable Concentration

MAC - Maximum Acceptable Concentration

ODWO - D-5-5 Objective

OG - Operational Guidelines

WL - Warning Level - Sodium Restricted Diets

Summary of Exceedances		
Maximum Acceptable Concentration		
Treated - Resample	Found Value	Limit
Sodium	82.5	20

Shelly Lozo
 Shelly Lozo

Microbiology Supervisor

March 14, 2025

IMPORTANT NOTICE TO ALL INDIVIDUALS CONSUMING WATER FROM THE CASSELMAN WATER SYSTEM

Recent routine testing of the drinking water from the **Casselman Drinking Water System** revealed that the sodium level was **exceeding the upper limits** of the recommended levels.

The amount of sodium in water is normally not a significant problem for most people. However, excess sodium can be a health problem for individuals who require a sodium-restricted diet due to a variety of medical reasons. Please be advised that anyone using drinking water from the **Casselman Drinking Water System** that requires a reduced sodium diet should consult their family physician regarding any precautions that he or she might suggest.

Le 14 mars 2025

IMPORTANT AVIS À TOUS LES INDIVIDUS QUI CONSOMMENT L'EAU DU : SYSTÈME D'EAU POTABLE DE CASSELMAN

Une récente analyse routinière de l'eau potable du **Système d'eau potable de Casselman** a révélé un taux de sodium qui **excède la limite supérieure** des niveaux recommandés.

La quantité de sodium contenue dans l'eau en temps normal ne représente pas nécessairement de problème important pour la plupart des gens. Toutefois, un surplus de sel peut causer un problème de santé pour les personnes qui exigent un régime réduit en sodium pour différentes raisons médicales. Veuillez noter que ces personnes qui consomment l'eau du **Système d'eau potable de Casselman** devraient consulter leur médecin de famille pour connaître les précautions à prendre le cas échéant.



CORNWALL • ALEXANDRIA • CASSELMAN • HAWKESBURY • ROCKLAND • WINCHESTER

www.EOHU.ca • 1 800 267-7120 • www.BSEO.ca

If you require this information in an alternate format, please call 1 800 267-7120 and press 0.

Si les renseignements sont requis dans un autre format, veuillez appeler au 1 800 267-7120 et faire le 0.

March 11, 2025

Jean-Francois Durocher

Senior Environmental Officer, Ministry of the Environment, Conservation and Parks
 Cornwall Area Office
 (613) 363-5149
Jean-francois.durocher@ontario.ca

Subject: Casselman Lagoon – Notification of Non-Compliance

This letter provides written notification of non-compliance with the effluent concentration limit for Total Ammonia Nitrogen specified in Section 6(1) of ECA #0246-CUXTCB. This written notice confirms the verbal notification of non-compliance provided by OCWA to the Ontario Ministry of the Environment, Conservation and Park’s Spills Action Centre on March 7, 2025 (Reference #1-IGQHTL).

The following effluent parameter was exceeded:

Parameter	Date	Type of Limit	Type of Sample	Result (mg/L)	ECA Limit (mg/L)
Total Ammonia Nitrogen (TAN)	February 2025	Monthly Average Effluent Concentration	Grab	20.4	12.0

Very cold temperatures in February caused an ice build up in the MBBR system’s un-aerated tanks. The cold temperatures along with the ice build up reduced the activity of the nitrifying bacteria in the MBBR, resulting in a progressive increase in the TAN concentration of the effluent over the course of the month. To assist the treatment process, OCWA slowed the flow through the MBBRs, and then when it was observed that the TAN results were still not improving, OCWA stopped the discharge temporarily and put the system into recirculation mode. The discharge was resumed after handheld tests indicated the TAN had come down below the limit of 12 mg/L; however, upon resuming the discharge and collecting the next effluent sample, the lab results showed that the TAN remained elevated, and the average concentration limit was exceeded for the month.

It should be noted that all other effluent parameters remained below the ECA limits for the month of February. A complete listing of the effluent sample results can be found in the PAR, attached.



Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Ontario Clean Water Agency
5 Industrial Dr.
Chesterville ON K0C 1H0
Phone: 613-448-3098
Fax: 613-448-1616

If you have any questions or concerns, please do not hesitate to contact me at (613) 223-2207.

Sincerely,

A handwritten signature in blue ink that reads "Dawn Crump".

Dawn Crump
Senior Operations Manager
Nation Valley Cluster

Cc: Pierre-Paul Beauchamp, Director of Public Works, Municipality of Casselman
Vanessa Greatrix, Safety, Process and Compliance Manager, OCWA

2025 - CASSELMAN WWTP EFFLUENT SAMPLING MONTHLY AVERAGES COMPLIANCE LIMITS

MONTH	DATE	CBOD ₅ (mg/L)	TSS (mg/L)	TP (mg/L)	NH3 (mg/L)	E. Coli (CFU/100ml)	H ₂ S (mg/L)	pH	Temp	TKN	Nitrite	Nitrate
January	08-Jan-25	< 3	5	0.31	6.39	320	-	7.90	3.2	9.6	< 0.05	7.4
	15-Jan-25	4	7	0.28	7.95	256	-	7.89	3.6	12.3	< 0.05	7.6
	22-Jan-25	< 3	9	0.34	5.31	60	-	7.65	4.3	8.7	< 0.05	12.8
	29-Jan-25	4	11	0.40	11.9	280	-	7.82	3.2	16.4	< 0.05	8.9
	Monthly Average	3.5	8	0.33	7.9	192.6	n/a	7.82	3.6	11.8	0.05	9.2
	Compliant?	YES	YES	YES	YES	YES	YES	YES	N/A	N/A	N/A	N/A
February	05-Feb-25	3	11	0.43	15	300	-	7.80	3.5	20.8	< 0.05	7.7
	12-Feb-25	5	10	0.39	16.1	680	-	7.85	3.3	20.3	< 0.40	9.3
	19-Feb-25	6	10	0.48	20.8	2600	-	7.82	3.4	26.5	< 0.40	8.4
	27-Feb-25	3	4	0.70	29.8	190	-	7.86	3.7	44.3	< 0.40	22.1
	Monthly Average	4.3	8.8	0.50	20.43	563.4	n/a	7.83	3.5	28.0	0.31	11.9
	Compliant?	YES	YES	YES	NO	YES	YES	YES	N/A	N/A	N/A	N/A