COLGAN
DRINKING WATER SYSTEM

PERFORMANCE REPORT

For the period of

JANUARY 1, 2025 to JUNE 30, 2025

Prepared by: Kristen Tilotta, Manager, Safety, Process and Compliance (A), Georgian Highlands Region

Reviewed by: Charlie Bowler, Senior Operations Manager

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Colgan Drinking Water System
Quarterly System Performance Report

Colgan Drinking Water System information:

Drinking Water System Number:	220009933
Drinking Water System Name:	Colgan Drinking Water System
Drinking Water System Owner:	The Corporation of the Township of Adjala-Tosorontio
Drinking Water System Category:	Large Municipal Residential
Municipal Drinking Water License	097-106, Issue 5 (expires October 24, 2026)
Drinking Water Works Permit	097-206, Issue 4
Permit To Take Water	4716-CMXNKC (expires September 30, 2028)

1. Process Performance & Regulatory Compliance

1.1 Summary of Non-Compliances & AWQIs

From **January 1, 2025** to **June 30, 2025**:

- Number of Non-Compliances = **0**
- Number of Adverse Water Quality Incidents (AWQIs) = **0**

The table below summarizes Colgan DWS' performance in accordance with the regulatory limits set out in its MDWL, PTTW and Ontario Regulation 170/03 and 169/03.

2025	Non-Compliances	AWQIs
January	0	0
February	0	0
March	0	0
April	0	0
May	0	0
June	0	0
July		
August		
September		
October		
November		
December		

1.1.1 Description of Non-Compliances

The following is a summary of the requirements of the Act, the regulations, the system's approval, drinking water works permit, municipal drinking water license, and any orders applicable to the system that were not met at any time during the time period covered by this report; as well as the duration of the failure and the measures that were taken to correct the failure:

Non-Compliance(s)	Duration	Required Actions & Corrective Actions
N/A	N/A	N/A

1.1.2 Description of AWQIs

The following contains details on notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to the Spills Action Centre:

Incident Date (YYYY/MM/DD)	Parameter/ Notice of	Result & Unit	Reporting Summary, Corrective Actions & Resolution
N/A	N/A	N/A	N/A

1.2 Summary of Process Performance

1.2.1 Flow- Raw and Treated

Raw Water: Well #1 (CW1)

During the reporting period, Well #1 (CW1) raw water taking was **within the limits** of the current PTTW (1,071.36 m^3/day).

Raw Water Flow – Well #1 (CW1)					
Timeframe	**Average Flow (m^3/day)**	**Percent of Allowable Volume**	**Maximum Flow (m^3/day)**	**Percent of Allowable Volume**	**Total Volume (m^3)**
January	147.55	13.77%	245.38	22.90%	4,574.17
February	164.41	15.35%	257.83	24.07%	4,603.44
March	193.42	18.05%	425.53	39.72%	5,996.11
April	218.72	20.42%	421.20	39.31%	6,561.59
May	164.24	15.33%	244.46	22.82%	5,091.37
June	186.97	17.45%	478.53	44.67%	5,608.97
July					
August					
September					
October					
November					
December					

Raw Water Flow – Well #1 (CW1)					
Timeframe	**Average Flow (m^3/day)**	**Percent of Allowable Volume**	**Maximum Flow (m^3/day)**	**Percent of Allowable Volume**	**Total Volume (m^3)**
2025	**179.20**	**16.73%**	**478.53**	**44.67%**	**32,435.65**

Raw Water: Well #2 (CW2)

During the reporting period, Well #2 (CW2) raw water taking was **within the limits** of the current PTTW (1,071.36 m^3/day).

Raw Water Flow – Well #2 (CW2)					
Timeframe	**Average Flow (m^3/day)**	**Percent of Allowable Volume**	**Maximum Flow (m^3/day)**	**Percent of Allowable Volume**	**Total Volume (m^3)**
January	166.75	15.56%	271.06	25.30%	5,169.24
February	224.52	20.96%	437.28	40.82%	6,286.44
March	227.79	21.26%	454.74	42.45%	7,061.55
April	260.96	24.36%	463.32	43.25%	7,828.80
May	247.07	23.06%	690.62	64.46%	7,659.25
June	212.31	19.82%	548.04	51.15%	6,369.22
July					
August					
September					
October					
November					
December					
2025	**223.06**	**20.82%**	**690.62**	**64.46%**	**40,374.50**

Raw Water: Well #3 (CW3)

During the reporting period, Well #3 (CW3) raw water taking was **within the limits** of the current PTTW (1,071.36 m^3/day). Well 3 (CW3) has been offline since November, 2024 for maintenance and repair. All flow shown below has been flushed to waste and not sent to the treatment system.

Raw Water Flow – Well #3 (CW3)					
Timeframe	**Average Flow (m^3/day)**	**Percent of Allowable Volume**	**Maximum Flow (m^3/day)**	**Percent of Allowable Volume**	**Total Volume (m^3)**
January	0.10	0.01%	1.23	0.11%	3.08
February	0.15	0.01%	1.21	0.11%	4.21
March	0.22	0.02%	1.75	0.16%	6.85
April	0.06	0.01%	0.57	0.05%	1.67
May	0.05	0.00%	0.60	0.06%	1.54

Raw Water Flow – Well #3 (CW3)					
Timeframe	**Average Flow (m^3/day)**	**Percent of Allowable Volume**	**Maximum Flow (m^3/day)**	**Percent of Allowable Volume**	**Total Volume (m^3)**
June	0.17	0.02%	2.27	0.21%	5.16
July					
August					
September					
October					
November					
December					
2025	**0.12**	**0.01%**	**2.27**	**0.21%**	**22.51**

Treated Water: Pumphouse No. 2

During the reporting period, Colgan DWS operated within the rated capacity specified in the MDWL (1,071 m^3/day), for the maximum daily volume of treated water that flows from the treatment subsystem to the distribution system.

Treated Water Flow - Pumphouse No. 2					
Timeframe	**Average Flow (m^3/day)**	**Percent of Rated Capacity**	**Maximum Flow (m^3/day)**	**Percent of Rated Capacity**	**Total Volume (m^3)**
January	316.27	29.53%	394.47	36.83%	9,804.36
February	387.85	36.21%	429.18	40.07%	10,859.78
March	408.85	38.17%	513.76	47.97%	12,674.29
April	428.65	40.02%	651.14	60.80%	12,859.39
May	389.55	36.37%	825.26	77.06%	12,076.04
June	381.75	35.64%	821.87	76.74%	11,452.49
July					
August					
September					
October					
November					
December					
2025	**385.228**	**35.97%**	**825.26**	**77.06%**	**69,726.35**

1.2.2 Water Quality- Microbiological Testing

Raw Water: Well #1 (CW1)

2025	# of Samples	*E.Coli* (cfu/100mL)			Total Coliforms (cfu/100mL)		
		Minimum	Maximum	Within Limits?*	Minimum	Maximum	Within Limits?*
January	4	0	0	n/a	0	0	n/a
February	4	0	0	n/a	0	0	n/a
March	5	0	0	n/a	0	0	n/a
April	4	0	0	n/a	0	0	n/a
May	4	0	0	n/a	0	0	n/a
June	4	0	0	n/a	0	0	n/a
July				n/a			n/a
August				n/a			n/a
September				n/a			n/a
October				n/a			n/a
November				n/a			n/a
December				n/a			n/a
YTD	25	0	0	n/a	0	0	n/a

*Raw water bacteriological samples do not have regulatory limits.

Raw Water: Well #2 (CW2)

2025	# of Samples	*E.Coli* (cfu/100mL)			Total Coliforms (cfu/100mL)		
		Minimum	Maximum	Within Limits?*	Minimum	Maximum	Within Limits?*
January	4	0	0	n/a	0	0	n/a
February	4	0	0	n/a	0	0	n/a
March	5	0	0	n/a	0	0	n/a
April	4	0	0	n/a	0	0	n/a
May	4	0	0	n/a	0	0	n/a
June	4	0	0	n/a	0	0	n/a
July				n/a			n/a
August				n/a			n/a
September				n/a			n/a
October				n/a			n/a
November				n/a			n/a
December				n/a			n/a
YTD	25	0	0	n/a	0	0	n/a

*Raw water bacteriological samples do not have regulatory limits.

Raw Water: Well #3 (CW3)

2025	# of Samples	*E.Coli* (cfu/100mL)			Total Coliforms (cfu/100mL)		
		Minimum	Maximum	Within Limits?*	Minimum	Maximum	Within Limits?*
January	4	0	0	n/a	0	0	n/a
February	4	0	0	n/a	0	0	n/a
March	5	0	0	n/a	0	0	n/a
April	4	0	0	n/a	0	0	n/a
May	4	0	0	n/a	0	0	n/a
June	4	0	0	n/a	0	0	n/a
July				n/a			n/a
August				n/a			n/a
September				n/a			n/a
October				n/a			n/a
November				n/a			n/a
December				n/a			n/a
YTD	25	0	0	n/a	0	0	n/a

*Raw water bacteriological samples do not have regulatory limits.

Treated Water

2025	# of Samples	*E. Coli* (0 cfu/100mL)			Total Coliforms (0 cfu/100mL)			HPC* (cfu/100mL)		
		Min.	Max.	Within Limits?	Min.	Max.	Within Limits?	Min.	Max.	Within Limits?
January	4	0	0	N/A	0	0	N/A	<10	40	N/A
February	4	0	0	N/A	0	0	N/A	<10	90	N/A
March	5	0	0	N/A	0	0	N/A	<10	10	N/A
April	4	0	0	N/A	0	0	N/A	<10	10	N/A
May	4	0	0	N/A	0	0	N/A	<10	<10	N/A
June	4	0	0	N/A	0	0	N/A	<10	<10	N/A
July										
August										
September										
October										
November										
December										
YTD	25	0	0	N/A	0	0	N/A	<10	90	N/A

*There is no regulatory limit for Heterotrophic Plate Count (HPC); it is used as an indicator test.

Distribution Water

2025	# of Samples	*E. Coli* (0 cfu/100mL)			Total Coliforms (0 cfu/100mL)			# of HPC Samples	HPC* (cfu/100mL)		
		Min.	Max.	Within Limits ?	Min.	Max.	Within Limits ?		Min.	Max.	Within Limits ?
January	8	0	0	N/A	0	0	N/A	4	<10	<10	N/A
February	10	0	0	N/A	0	0	N/A	4	<10	<10	N/A
March	9	0	0	N/A	0	0	N/A	5	<10	10	N/A
April	9	0	0	N/A	0	0	N/A	4	<10	<10	N/A
May	9	0	0	N/A	0	0	N/A	4	<10	10	N/A
June	9	0	0	N/A	0	0	N/A	4	<10	<10	N/A
July											
August											
September											
October											
November											
December											
YTD	54	0	0	N/A	0	0	N/A	25	<10	10	N/A

*There is no regulatory limit for Heterotrophic Plate Count (HPC); it is used as an indicator test. At least 25% of distribution samples must be tested for Heterotrophic Plate Count (HPC).

1.2.3 Water Quality- Operational Testing

Raw Water: Turbidity

Subsection 7-3 (1) of schedule 7 or O. Reg 170/03 requires that the owner of a drinking water system and the operating authority for the system ensure that a water sample is taken at least once every month, from a location that is before raw water enters the treatment system, and is tested for turbidity. Monthly turbidity grab sampling results are summarized in the table below.

2025	Sample Date (YYYY/MM/DD)	Turbidity- CW1 (NTU)	Turbidity- CW2 (NTU)	Turbidity- CW3 (NTU)
January	2025/01/07	0.29	0.34	0.53
February	2025/02/07	0.49	0.22	0.34
March	2025/03/07	0.61	0.71	0.49
April	2025/04/07	0.63	0.35	1.33
May	2025/05/07	0.91	0.28	1.70
June	2025/06/11	0.20	0.28	1.23
July				
August				
September				
October				

2025	Sample Date (YYYY/MM/DD)	Turbidity- CW1 (NTU)	Turbidity- CW2 (NTU)	Turbidity- CW3 (NTU)
November				
December				
YTD MIN	--	0.20	0.22	0.34
YTD MAX	--	0.91	0.71	1.70

Treated Water: Free Chlorine Residual

2025	Minimum (mg/L)	Maximum (mg/L)	CT Met?
January	0.94	1.95	Yes
February	0.78	2.52	Yes
March	0.91	4.41	Yes
April	0.65	1.91	Yes
May	0.77	1.81	Yes
June	0.72	2.47	Yes
July			
August			
September			
October			
November			
December			
YTD	0.65	4.41	---

Distribution Water: Free Chlorine Residual

2025	Minimum (mg/L)	Maximum (mg/L)	Within Limits? *(>0.05 mg/L)*
January	0.97	1.40	Yes
February	1.05	1.59	Yes
March	0.89	1.55	Yes
April	0.89	1.36	Yes
May	0.66	1.24	Yes
June	0.42	1.31	Yes
July			
August			
September			
October			
November			
December			
YTD	0.42	1.59	Yes

1.2.4 Water Quality- Chemical Testing

Treated Water: Nitrites (Quarterly)

2025	Concentration (mg/L)	Within Limits? (1 mg/L)
January	0.003 < MDL	Yes
April	0.003 < MDL	Yes
July		
October		

*Where MDL refers to the Minimum Detection Limit.

Treated Water: Nitrates (Quarterly)

2025	Concentration (mg/L)	Within Limits? (10 mg/L)
January	0.141	Yes
April	0.226	Yes
July		
October		

*Where MDL refers to the Minimum Detection Limit.

Distribution Water: Trihalomethanes (THMs) (Quarterly)

2025	Concentration (ug/L)	Running Annual Average (ug/L)	Within Limits? (100 ug/L)
January	13.00	15.50	Yes
April	9.80	14.70	Yes
July			
October			

Distribution Water: Haloacetic Acids (HAAs) (Quarterly)

2025	Concentration (ug/L)	Running Annual Average (ug/L)	Within Limits? (80 ug/L)
January	< 5.3 MDL	< 5.3 MDL	Yes
April	< 5.3 MDL	< 5.3 MDL	Yes
July			
October			

*Where MDL refers to the Minimum Detection Limit.

1.2.5 Water Quality- Lead, pH and Alkalinity (Semi-Annual)

Lead Semi-Annual sampling is required every 36 months and twice in the applicable year; once in the period from December 15th to April 15th and once in the period June 15th to October 15th. Lead sampling is next required for **2027**; the latest samples were taken in February and July of 2024 and those results were **within the regulatory limits.**

Alkalinity and pH Semi-Annual sampling is required twice a year; once in the period from December 15th to April 15th and once in the period June 15th to October 15th.

	# of Samples*	Lead (ug/l)			pH		Alkalinity (mg/L)	
		Min	Max	Within Limits? *(10 ug/L)*	Result	Within Limits?	Result	Within Limits? *(30-500 mg/L)*
January	4	-	-	-	6.5 – 7.9	Yes	209 – 214	Yes
July								

*Based on the population of the system

1.2.6 Water Quality- Schedule 23 & Schedule 24 (Annual)

Treated water Schedule 23 & 24 (Inorganic and Organic) chemicals were last tested on **October 21, 2024** and all the sample results were **within the regulatory limits** set out in O.Reg 169/03. The next set of Schedule 23 and Schedule 24 samples are scheduled to be taken in **October, 2025**.

1.2.7 Water Quality- Sodium & Fluoride (60 Months)

Treated water Sodium was last required to be sampled in **October 2024.** Due to a sampling error, no sample was taken and a non-compliance was reported to the Ministry. A sample was taken on **February 3, 2025** and the result was 9.58 mg/L. Note that there is no MAC for Sodium. The aesthetic objective for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets. The next set of sodium samples are required to be taken in **October 2029**.

Treated water Fluoride was last sampled on **October 21, 2024** and **February 3, 2025.** Both samples were within the regulatory limits of 1.5 mg/L with both results being <0.06 MDL. The next set of fluoride samples are required to be taken in **October 2029**.

1.3 Reporting

A summary of the reports submitted by OCWA to/on behalf of the Township of Adjala-Tosorontio's behalf are summarized in the table below:

Report	Submission Frequency	Submit To	Submission Date
Annual Report (Section 11)	Annually	Owner	February 28, 2025
Summary Report (Schedule 22)	Annually	Owner	March 4, 2025

1.3.1 Annual Report (Section 11)

As required by Section 11 of O. Reg 170/03, OCWA prepares a report for the Township that covers the period from January 1 to December 31 by no later than February 28 of the following year. The annual report must:

a) contain a brief description of the drinking water system, including a list of water treatment chemicals used by the system during the period covered by the report;
b) summarize any reports made to the Ministry under subsection 18 (1) of the Act or section 16-4 of Schedule 16 during the period covered by the report;
c) summarize the results of tests required under this Regulation, or under an approval, municipal drinking water license or order, including an OWRA order, during the period covered by the report and, if tests required under this Regulation in respect of a parameter were not required during that period, summarize the most recent results of tests of that parameter;
d) describe any corrective actions taken under Schedule 17 or 18 during the period covered by the report;
e) describe any major expenses incurred during the period covered by the report to install, repair or replace required equipment;
f) in the case of a large municipal residential system or a small municipal residential system, include a statement of where a report prepared under Schedule 22 will be available for inspection under subsection 12 (4); and
g) in the case of a large municipal residential system, small municipal residential system or non-municipal year-round residential system, specify the number of points sampled during the periods described in subsection 15.1-4 (2) or subsection 15.1-5 (5) of Schedule 15.1 to the Regulation, the number of samples taken, and the number of points where a sample exceeded the prescribed standard for lead during those periods. O. Reg. 170/03, s. 11 (6); O. Reg. 418/09, s. 8; O. Reg. 458/16, s. 6 (1).

"The owner of a drinking water system shall ensure that a copy of an annual report for the system is given, without charge, to every person who requests a copy. If a drinking water system is connected to and receives all of its drinking water from another drinking water system, the owner of the system that obtains the water shall ensure that a copy of an annual report for the system from which the water is obtained is given, without charge, to every person who requests a copy. Every time that an annual report is prepared for a drinking water system, the owner of the system shall ensure that effective steps are taken to advise users of water from the system that copies of the report are available, without charge, and of how a copy may be obtained. If the DWS serves more than 10,000 people, the owner of the

system shall ensure that a copy of every report prepared under this section is available to the public at no charge on a website on the Internet."

1.3.2 Summary Report (Schedule 22)

As required by Schedule 22 of O. Reg 170/03 OCWA prepares a report on behalf of the Township by no later than March 31 each year for the preceding year. This report is to be given to members of council. "The report must,

a) list the requirements of the Act, the regulations, the system's approval, drinking water works permit, municipal drinking water license, and any orders applicable to the system that were not met at any time during the period covered by the report; and
b) for each requirement referred to that was not met, specify the duration of the failure and the measures that were taken to correct the failure.

The report must also include the following information for the purpose of enabling the owner of the system to assess the capability of the system to meet existing and planned uses of the system:

1. A summary of the quantities and flow rates of the water supplied during the period covered by the report, including monthly average and maximum daily flows.
2. A comparison of the summary referred to in paragraph 1 to the rated capacity and flow rates approved in the system's approval, drinking water works permit or municipal drinking water license, or if the system is receiving all of its water from another system under an agreement pursuant to subsection 5 (4), to the flow rates specified in the written agreement."

1.4 Third Party Inspections & Results

There was an unannounced Ministry of Environment, Conservation and Parks (MECP) inspection on **February 11, 2025**; the inspection report was received on March 26, 2025. An inspection rating of **98.56%** was received.

1.5 Drinking Water Quality Management Standard (DWQMS)

Refer to Section 1.5 in the Everett DWS Performance Report for the reporting period for more information.

1.5.1 Risk Assessment

Refer to Section 1.5.1 in the Everett DWS Performance Report for the reporting period for more information.

1.5.2 Review & Provision of Infrastructure

Refer to Section 1.5.2 in the Everett DWS Performance Report for the reporting period for more information.

1.5.3 Internal Audits

Refer to Section 1.5.3 in the Everett DWS Performance Report for the reporting period for more information.

1.5.4 External Audits

Refer to Section 1.5.4 in the Everett DWS Performance Report for the reporting period for more information.

1.5.5 Management Review

Refer to Section 1.5.5 in the Everett DWS Performance Report for the reporting period for more information.

2. Operations & Maintenance

2.1 Major & Unscheduled Maintenance

2025	Maintenance, Repair & Capital Summary
January	• Monthly Testing/Inspection- Alarms, Analyzers, Diesel Genset, UV Banks (PM) • Weekly Facility/Security Checks (PM)
February	• Monthly Testing/Inspection- Alarms, Analyzers, Diesel Genset, UV Banks (PM) • Weekly Facility/Security Checks (PM)
March	• Monthly Testing/Inspection- Alarms, Analyzers, Diesel Genset, UV Banks (PM) • Weekly Facility/Security Checks (PM)
April	• Monthly Testing/Inspection- Alarms, Analyzers, Diesel Genset, UV Banks (PM) • Weekly Facility/Security Checks (PM) • Semi-Annual (Spring) Distribution System Flushing (PM)
May	• Monthly Testing/Inspection- Alarms, Analyzers, Diesel Genset, UV Banks (PM) • Weekly Facility/Security Checks (PM)
June	• Monthly Testing/Inspection- Alarms, Analyzers, Diesel Genset, UV Banks (PM) • Weekly Facility/Security Checks (PM)
July	
August	
September	
October	
November	
December	

*Where PM is Preventative Maintenance, CORR is Corrective Maintenance, CAP is Capital/Project Work, and EMER is Emergency Maintenance

2.2 Call-Ins

2025	# of Call-Ins	Details of Call-Ins
January	0	• n/a
February	2	• February 10 - Colgan 3- Pump 7 failure. Staff attended site, reset the pump. No other issues. • February 22 - Pump 1 failure. Staff attended site, reset the pump. No other issues.
March	2	• March 10 – Low system pressure. Staff attended site, reset pumps 7 and 3. Pressure increased. No other issues. • March 31 – Lower tower level. Wells were locked out.
April	3	• April 8 – Well 1 UV and well lockout. UV bulb replaced. • April 16 – Colgan 2 Low chlorine alarm. • April 21 – Colgan 3 Late to test alarm.
May	1	• May 4 – Colgan 2 Low chlorine alarm.
June	0	• n/a
July		
August		
September		
October		
November		
December		

2.3 Community Complaints/Inquiries

2025	# of Comm. Complaints/Inquires	Details of Community Complaints
January	1	• January 6 – Billing Inquiry, directed to Township staff
February	0	• n/a
March	0	• n/a
April	0	• n/a
May	0	• n/a
June	0	• n/a
July		
August		
September		
October		
November		
December		

*List includes any complaints/inquires that were received by OCWA