



Annual Report
2025 Operating Year
Goderich Water Pollution Control Plant
Works # 120000943

PREPARED BY
Veolia Water

240 Huckins Rd.
Goderich, ON
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FOR
The Town of Goderich

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Resourcing the world



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1.0 INTRODUCTION

The Town of Goderich Water Pollution Control Plant, Works #120000943 is located at 211 Sunset Drive. The plant was classified as a Class II Wastewater Treatment Facility until a reclassification was undertaken in 2022. Notice was received by the Town of Goderich on September 8, 2022, in a letter from OWWCO dated August 31, 2022, that the Goderich Water Pollution Control Plant Class II classification had been changed to a Wastewater Treatment Class III Facility.

The wastewater treatment system was originally constructed in 1967. Throughout the years the plant has undergone many expansions with the last being completed in 2009 with the installation of Ultraviolet Light (UV) disinfection in place of Chlorine gas as a disinfectant.

The system is operated under Amended Certificate of Approval (ECA) No. 0749-7KEJHK, dated October 16, 2008.

The works consist of the following components:

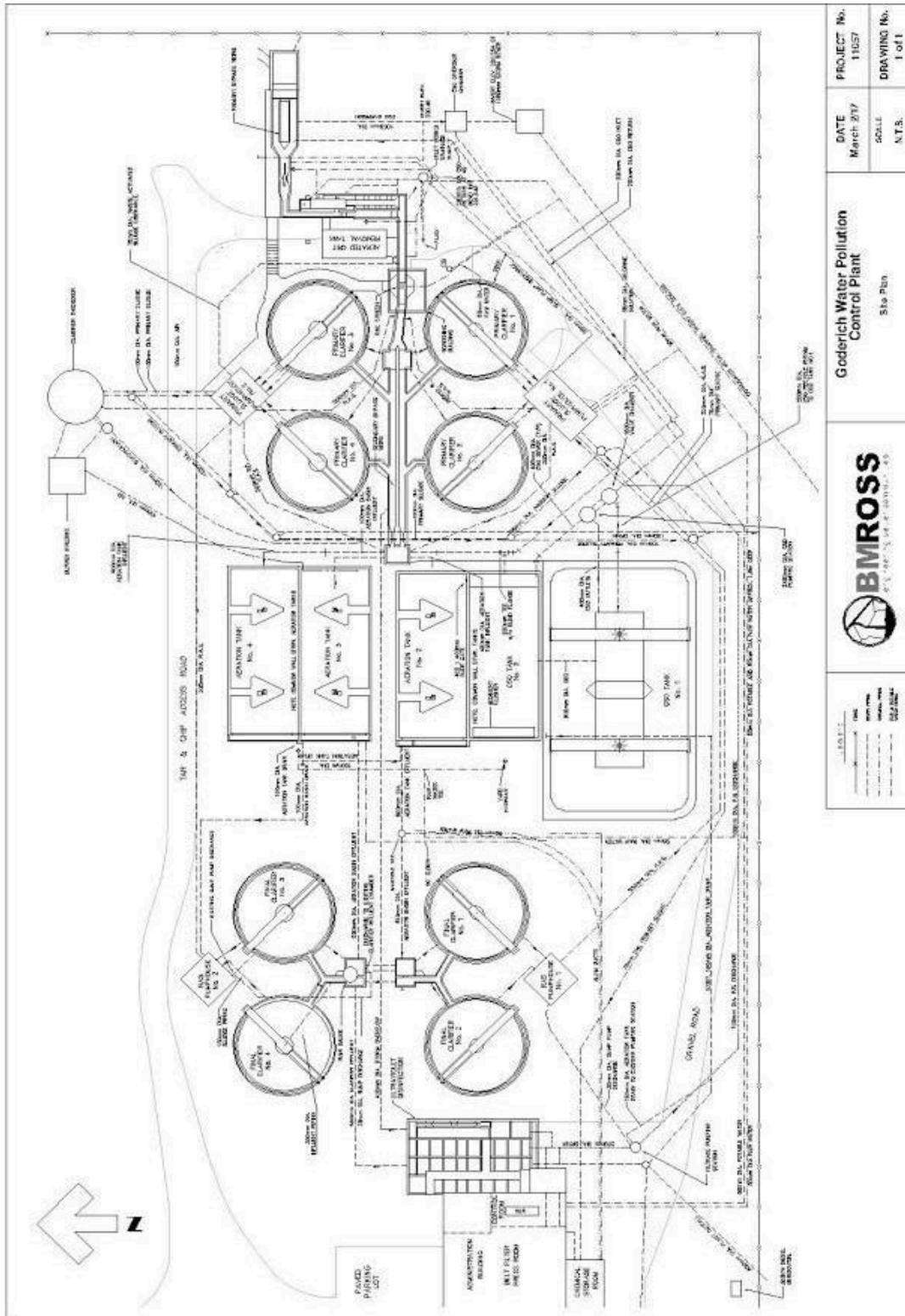
- Course fixed Bar Screen.
- Aerated Grit Tank and Grit removal system.
- Inclined Mechanical Fine Screen and Compactor
- 4 Primary Clarifiers.
- 2 Raw Sludge Pumps
- 1 Waste Return Pump
- 3 Aeration Tanks with two (2) mechanical aerators in each.
- 4 Secondary Clarifiers.
- 6 Return Activated Sludge Pumps
- UV Disinfection System
- Belt Filter Press
- By-pass Diversion Chamber
- 2 Combined Sewer Overflow (CSO) Tanks

A schematic of the treatment facility is shown as **Figure 1.1**. The Water Pollution Control plant is operated by Veolia Water Canada.

Veolia is also responsible for the following Pumping Stations:

- Station A – Outside of Salt Mine on North Harbour Rd.
- Station B – North end of the Harbour.
- Gloucester Terrace – North end of Cambria Rd
- Main Beach – North side of road just before Washrooms and Concessions building
- South Cove – East side of Bethune Crescent by Community Clubhouse
- Essex Street – West side of Essex Street. North East corner of Park (end of Picton Street)
- Anglesea St – 173 Anglesea St. North Side of Rd near Anglesea and Albert Intersection

Figure 1.1



2.0 SUMMARY AND INTERPRETATION OF MONITORING DATA

2.1 Flows

Flow data for the reporting period is obtained from the SCADA system and records maintained by Veolia, the operator of the works. **(See Appendix A)** The flows are recorded from an open channel flow meter located at the south end of the UV disinfection channel.

Table 2.1 is a summary of the 2025 monthly flows at the WPCP and monthly recorded rainfall amounts. The annual average daily flow for 2025 was 5,464.24 m³/day, which is 60% of the rated plant flow capacity of 9,050m³/day.

Table 2.1 Monthly Flow / Rainfall Amounts

Month	Total Flow (m ³)	Average Day (m ³)	Maximum Day (m ³)	Rainfall (mm)
January	162,992	5,257	9,348	3.40
February	121,480	4,339	6,505	2.20
March	293,239	9,556	19,324	56.44
April	243,912	8,130	16,630	52.60
May	148,694	4,797	5,752	42.80
June	135,973	4,537	6,370	60.30
July	123,991	4,000	7,882	10.20
August	117,861	3,802	7,025	39.20
September	124,285	4,143	10,333	85.70
October	147,771	4,767	9,463	130.20
November	146,169	4,872	5,687	40.61
December	225,082	7,261	24,626	59.40
Total	1,994,447.18			606.45
Average		5,464.24		1.67
Maximum			19324	

December figures have been added with data provided by Jacobs

Table 2.1.2 is a monthly comparison of the Water Treatment plant flows (Treated Water) versus the Water Pollution Control plant effluent flows. The Treated Water enters the Distribution System for use and then is returned via the Collection System for treatment at the Wastewater Treatment Plant.

Table 2.1.2 | Water Treatment Plant vs. Water Pollution Control Plant 2025 Monthly Flows.

Month	Water Treatment Plant		Water Pollution Control Plant		Water Flows as a % of Wastewater
	Monthly Flows (m ³)	Daily Avg. (m ³)	Monthly Flows (m ³)	Daily Avg. (m ³)	
January	88,163	2,844	162,990	5,258	54 %
February	90,595	3,236	121,480	4,339	75 %
March	96,615	3,117	296,239	9,556	33%
April	99,260	3,309	243,912	8,130	41 %
May	122,615	3,955	148,694	4,797	83 %
June	144,702	4,823	135,973	4,532	106%
July	180,108	5,810	123,991	4,000	145 %
August	182,337	5,882	117,861	3,802	155 %
September	131,689	4,930	124,285	4,143	106 %
October	111,428	3,627	147,771	4,767	75 %
November	95,959	3,199	146,169	4,872	66 %
December	95,418	3078	225,082	7,261	42%
Total	1,439,889	-	1,99447.18		
Average		3,939		5,464	72%

The Distribution and Collection systems are essentially a closed system. What enters the Distribution system, treated water, should be the bulk of what is returned via the Collection system to the Wastewater Treatment Facility.

There are significant flows most months of the year that are referred to as “extraneous” flows. These amounts cannot be accounted for from the treated water numbers entering the Distribution system. As everything that enters the Wastewater Treatment Plant must enter from the Collection system, these “extraneous” flows are picked up in the Collection System and returned to the Wastewater Treatment Plant for Treatment.

Treated Water flows for June, July, August, and September are 106%, 145%, 155%, and 106% of Wastewater Flows respectively. This is normal as treated water from the Distribution System is used for lawn watering, car washing etc. and is not returned via the Collection System. There is more treated water being produced than is being returned for Wastewater Treatment during these periods.

Note: The Wastewater Treatment Plant receives Leachate from the Mid-Huron Landfill site via the Parsons Court transfer station. In 2025 the WWTP received 11,338 m³ representing 0.56% of the Plants annual flow.

2.2 Raw Sewage Sample Results

The Certificate of Approval (ECA) specifies raw sewage monitoring on a quarterly basis (minimum) for BOD₅, Total Suspended Solids (TSS), and Total Phosphorus (TP). Veolia monitored these parameters along with CBOD₅ on a monthly basis. These samples are sent to an accredited laboratory for analysis. The Goderich WWTP used SGS Labs for its analyses.

Table 2.2 provides a summary of the Raw Sewage sample results.

Table 2.2 Raw Sewage Concentrations – Plant Influent

Month	BOD ₅ (mg/L)	Suspended Solids (mg/L)	Total Phosphorus (mg/L)	CBOD ₅ (mg/L)
January	80	132	2.48	144
February	103	80	3.97	49
March	44	50	2.16	62
April	50	109	2.32	143
May	132	254	2.96	118
June	94	164	1.99	86
July	118	155	2.53	116
August	169	196	3.60	113
September	74	72	2.60	79
October	126	181	2.43	112
November	81	83	1.08	71
December	106	141	3.01	115
Average	94	133	2.41	94

2.3 Final Effluent ECA Objectives and ECA Compliance Limits

Table 2.3 provides the final effluent design objectives contained in the ECA.

Table 2.3 | Final Effluent ECA Design Objectives

Parameter	Concentration Objectives
CBOD ₅	≤ 10.0 mg/L
Suspended Solids	≤ 12.0 mg/L
Total Phosphorus	≤ 0.7 mg/L

Table 2.3.2 provides the Final Effluent limits contained in the ECA.

Table 2.3.2 | ECA Final Effluent Limits

Parameter	Non-Compliance Limits Average Monthly Concentrations
CBOD ₅	15.0 mg/L
Suspended Solids	15.0 mg/L
Total Phosphorus	1.0 mg/L
pH	Maintained between 6.0 to 9.5
<i>E. Coli</i>	200 cfu/ 100 ml (Geometric Mean Density)

2.4 Final Effluent

The ECA requires Final Effluent monitoring on a weekly basis for CBOD₅, TSS, TP, E. Coli, pH, Temperature, and Unionized Ammonia (calculated). Analysis and results for weekly Final Effluent samples are provided by an accredited laboratory. The Goderich WWTP used SGS Labs for its analyses.

Table 2.4 provides a summary of the 2025 monthly average final effluent samples results.

Table 2.4 | Final Effluent Monthly Sample Average Results (See Appendix A)

***Note - Final Effluent Unionized Ammonia minimum analysis reported from SGS is 0.001 mg/L**

Month	CBOD ₅ (mg/L)	Suspended Solids (mg/L)	Total Phosphorus (mg/L)	NH3-N (mg/L)	E. Coli (cfu/100mL)	Minimum pH (units)	Maximum pH (units)	Unionized Ammonia (mg/L)
Jan	2.25	3.80	0.29	0.10	6	7.76	8.12	0.001
Feb	2.00	2.80	0.27	0.10	5	7.50	8.06	0.001
Mar	2.50	2.00	0.24	0.18	25	7.91	8.02	0.001
Apr	2.00	3.00	0.29	0.12	12	7.67	8.10	0.001
May	2.00	6.50	0.49	0.50	3	7.69	8.11	0.002
Jun	2.00	4.30	0.52	0.10	4	7.52	7.98	0.001
Jul	2.00	2.80	0.50	0.10	9	7.60	7.78	0.001
Aug	2.00	2.00	0.62	0.10	5	7.35	8.01	0.001
Sept	2.75	2.80	0.48	0.10	5	7.47	7.57	0.001
Oct	2.75	3.80	0.57	0.10	14	7.12	7.86	0.001
Nov	2.00	2.80	0.50	0.08	52	7.63	7.80	0.001
Dec	3.20	12	0.56	0.10	510	7.54	8.16	0.003
Annual Average	2.25	4.10	0.45	0.14	60	7.12	8.16	0.001
MECP Limits Avg. Monthly	15.00	15.00	1.0	*2.0	200	>6.00	<9.5	

***Note - Final Effluent NH3-N minimum analysis reported from SGS is 0.10 mg/L**

***Final Effluent NH3-N is a Contractual Limit**

2.5 Performance Summary

Table No. 2.5 is a summary of the overall effectiveness of the treatment of raw sewage from its entry to the Final Effluent entering Lake Huron.

Table 2.5 | Overall Sewage Reduction Based on Annual Averages

Parameter (mg/L unless noted)	Raw Sewage	Final Effluent	Design Objective	MECP Limit	% Reduction
CBOD ₅	94	2.25	10.0	15.0	98 %
Suspended Solids	133	4.10	12.0	15.0	97 %
Total Phosphorus	2.41	0.45	0.7	1.0	81 %

In general terms, the works are providing excellent treatment of the incoming sewage, and there is anticipated to be little, if any, impact to the receiving body (Lake Huron) from the works.

3.0 OPERATIONS

3.1 General

Condition **(10.6.a)** of the ECA requires the owner to report a summary and interpretation of monitoring data and comparisons to effluent limits and objectives. **Section 2.0** of this report provides a summary and interpretation of monitoring data and comparisons to effluent limits and effluent objectives.

3.2 Operating Problems (ECA 10.6.b)

Other than a few minor equipment breakdowns, which were repaired in a timely manner without affecting the treatment process, we did not experience any operating problems in 2025.

3.3 Maintenance and Repairs (ECA 10.6.c)

Routine maintenance occurred as required. The following activities were specifically carried out.

- Replacement of SCADA Computer and updated software and licenses.
- Pressure Washed Interior of Wet Well at Gloucester Pumping Station. Spring and Fall.
- Pressure Washed Interior of Wet Well at Main Beach Pumping Station. Spring and Fall.
- Flushed grease in RAS pumps.
- Annual Backflow Preventer Certifications done by Fergusons Plumbing and Heating.
- H2S meters calibrated by Hetek.
- Final Effluent flow meter calibrated by AMS.
- Annual inspection of hoists and chain falls by Acu-Tec.

3.4 Effluent Quality Assurance (ECA 10.6.d)

According to the Wastewater Systems Effluent Regulations Final Effluent is to be sampled quarterly to determine if the effluent being deposited is acutely lethal. Paragraph 11(6)(a) states that if samples tested in each of four consecutive quarters were determined not to be acutely lethal, then the Wastewater System is eligible to reduce the sampling frequency for the determination of acute lethality.

Due to reporting four consecutive quarters of not acutely lethal results in 2016 the Goderich Wastewater Treatment Plant has been granted a sampling frequency of once yearly. A Final Effluent sample was collected July 21, 2025 and sent to an accredited lab to be tested for Acute Lethality. The result of the sample was zero (0), not acutely lethal.

All monitoring and sampling for quality assurance was completed as required by the ECA.

3.5 Calibration of Effluent Monitoring Equipment (10.6.e)

The final effluent flow monitoring equipment was calibrated by Advanced Meter Service (AMS) The HACH bench top pH meter is calibrated in-house on a monthly basis by Veolia operators using the 4.01, 7.00 and 10.01 buffers. The pH meter and Colorimeter are calibrated by a HACH Technician annually. Fixed mount D.O. sensors are calibrated annually. The Plant is equipped with a variety of Gas (H₂S, LEL and 4 Gas Units) detection units which are calibrated semi-annually by Hetek Solutions Inc.

3.6 Effluent Quality Objectives (ECA 10.6.f)

With the use of the In-house labs and tests we can monitor the settleability of MLSS, Final Effluent Total Suspended Solids (TSS) and Soluble Phosphorus levels. The results from these tests give us an indication where we stand in relation to meeting our Effluent Objectives and allow us to make process changes when necessary. All results are entered into the daily logbook and Hach WIMS database.

In addition to In-house labs and tests Veolia employs a Process Management Control Plan that compiles the results from in-house labs and testing along with weekly and monthly lab results. The PCMP program provides monitoring of targets and flags throughout the process allowing operators the ability to identify and react to a situation in the process before it affects the quality of the Final Effluent.

In-House Tests conducted and frequency:

- 30-minute settling test of all aeration tanks mixed liquor – Monday thru Friday
- TSS lab of Primary Effluent, Mixed Liquor, RAS, and Final Effluent – Monday, Wednesday, Friday.
- Soluble Phosphorus residual in Final Effluent – Monday thru Friday.
- Primary Clarifier sludge blankets measured – Monday thru Thursday.
- Secondary Clarifier sludge blankets measured – Monday thru Friday.
- Aeration tanks Dissolved Oxygen readings – Monday, Wednesday, Friday.

3.7 Sludge (ECA 10.6.g)

Sludge accumulates in the bottom of the Primary Clarifiers. The sludge blankets in the four (4) primary clarifiers are measured daily Monday thru Thursday. The purpose of the measurement is to monitor sludge levels and determine which Primary Clarifier(s) will have sludge drawn down from. The sludge is removed from the clarifiers by pumping it to the Belt Filter Press and loaded in a 20-yard self-levelling bin (up to) twice weekly. The bin is then picked up and transported under agreement with Canadian Waste Management to an approved facility. Canadian Waste Management hauls the dewatered sludge under ECA #A840311. The waste is taken to Twin Creeks Landfill Site in Lambton County operating under ECA #A032303.

Table 3.7 compares the last five years of sludge hauled to landfill.

Table 3.7 | 5 Year Comparison of Tonnes and Loads of Sludge Hauled to Landfill

YEAR	2021	2022	2023	2024	2025
Tonnes	1197	1120	1143	1202*	1,134.43
Loads	82	74	84	84	81
Operating Days	82	74	84	84	81
Avg. Weight Per Load	14.60 Tonnes	15.36 Tonnes	14.27 Tonnes	14.31Tonnes*	14.00 Tonnes

*Estimated Total Tonnes, Avg. Weight Per Load for 2024 as completed data not received as of March 31, 2024.

Based on the past five years, we do not anticipate a major increase or decrease in sludge production for 2026.

3.8 Complaints (ECA 10.6.h)

No complaints were received by the Goderich WWTP for the year 2025.

3.9 Bypasses (ECA 10.6.i)

There was (1) Plant-Bypass in 2025 at the Goderich WWTP reported. This occurred due to wet weather and snow melt.

APPENDIX "A"

2025 PLANT DATA

Annual Report - 2025 Operating Year

Goderich Water Pollution Control Plant

Works # 120000943

GODERICH WPCP MONTHLY REPORT										Note: Bacteria is a Monthly Geometric Mean			Total	Average
	January	February	March	April	May	June	July	August	September	October	November	December		
FLOWs (effluent)														
Total Flow (effluent)(m3)	162980	121480	296239	243912	148694	135973	123991	117861	124285	147771	146169	225082	1994447	
Maximum Daily Flow (m3/day)	9348	6505	19324	16630	5752	6370	7882	7025	10333	9463	5687	19064		10282
Average Daily Flow (m3/day)	5258	4339	9556	8130	4797	4532	4000	3802	4143	4767	4872	7261		5455
Peak Flow (Instantaneous)(m3/day)	11923	8186	26812	27359	62216	18628	7267	11799	18853	51200	9826	24626		23225
Return Activated Sludge														
Average Daily Flow (m3/day)	3733	3037	6527	5492	3348	3084	2778	2572	2590	3575	3407			3649
Return Rate %	71	70	69	69	70	69	71	71	70	77	70			71
Waste Ave. Daily Flow (m3/day)	55	49	59	53	49	46	49	52	47	49	64			52
BYPASS														
Primary Bypass Volume (m3)				1083										1083
Primary Bypass Duration (hours)				8.00										8.00
Primary Bypass Events	0	0	0	0	0	0	0	0	0	0	0			0
Secondary Bypass Duration (hours)														
Secondary Bypass Volume (m3)														
Secondary Bypass Events	0	0	0	0	0	0	0	0	0	0	0			0
INFLUENT PARAMETERS														
Raw BOD (mg/l)	80.00	103.00	44.00	49.50	132.00	94.00	118.00	169.00	74.00	126.00	81.00	106.00		94.31
Raw CBOD (mg/l)	144.00	49.00	62.00	78.50	118.00	86.00	116.00	113.00	79.00	112.00	71.00	115.00		94.00
Raw CBOD Loading (Kg/day)	757.11	212.59	592.48	638.24	566.00	389.79	463.97	429.62	327.28	533.88	345.93	834.98	6,091.88	507.66
Raw TSS (mg/l)	132.00	80.00	50.00	109.00	254.00	164.00	155.00	198.00	72.00	181.00	83.00	141.00		132.92
Raw TSS Loading (Kg/day)	694.02	347.09	477.80	886.21	1,218.33	743.32	619.95	752.79	298.28	862.79	404.40	1,023.76	8,328.76	694.06
Raw TKN (mg/l)	23.40	46.70	23.60	9.00	25.80	16.10	20.20	25.40	20.20	25.90	15.00	27.60		22.15
Raw TKN Loading (Kg/day)	123.03	202.61	225.52	73.17	123.75	72.97	80.79	96.57	83.69	123.46	73.08	200.40	1,479.05	123.25
Raw NH3 (mg/l)	20.60	44.10	20.30	8.10	22.40	13.20	17.50	22.60	17.00	21.60	12.30	23.70		19.35
Raw NH3 Loading (Kg/day)	108.31	46.70	193.99	65.86	107.44	59.83	69.99	85.92	70.43	102.96	59.93	172.08	1,143.44	95.29
Raw TP (mg/l)	2.48	3.97	2.16	1.25	2.96	1.99	2.53	3.60	2.60	2.43	1.08	3.01		2.41
Raw TP Loading (Kg/day)	13.04	17.22	20.64	10.12	14.20	9.02	10.12	13.69	10.77	11.58	5.26	21.85	157.52	13.13
Raw pH (SU)	7.70	8.15	8.17	7.60	7.86	7.24	7.23	7.16	7.12	7.14	7.57	7.56		7.55
EFFLUENT PARAMETERS														
Final CBOD (mg/l)	2.25	2.00	2.50	2.00	2.00	2.00	2.00	2.00	2.75	2.20	2.00	3.20		2.25
Final CBOD Loading (Kg/day)	11.83	8.68	23.89	16.26	9.59	9.06	8.00	7.60	11.39	10.49	9.74	23.23	149.78	23.98
Final TSS (mg/l)	3.75	2.75	2.00	3.00	6.50	4.25	2.80	2.00	2.75	3.80	2.75	12.00		4.13
Final TSS Loading (Kg/day)	19.72	11.93	19.11	24.39	31.18	19.26	11.20	7.60	11.39	18.11	13.40	87.13	274.43	44.10
Final TKN (mg/l)	0.50	0.68	0.55	0.52	0.73	0.80	0.50	0.73	0.63	0.94	0.83	0.94		0.70
Final TKN Loading (Kg/day)	2.63	2.93	5.26	4.23	3.48	3.63	2.00	2.76	2.59	4.48	4.02	6.83	44.82	7.25
Final NH3 (mg/l)	0.10	0.10	0.18	0.12	0.50	0.10	0.10	0.10	0.10	0.10	0.08	0.14		0.14
Final NH3 Loading (Kg/day)	0.53	0.43	1.67	0.98	2.40	0.45	0.40	0.38	0.41	0.48	0.38	1.02	9.52	1.54
Final Unionized Ammonia (ug/l)	1.000	1.000	1.000	1.000	1.000	1.000		1.000	1.000	1.000	1.000	1.000		1.000
Final TP (mg/l)	0.29	0.27	0.24	0.29	0.49	0.52	0.50	0.62	0.48	0.57	0.50	0.56		0.45
Final TP Loading (Kg/day)	1.54	1.15	2.29	2.39	2.33	2.35	2.02	2.34	1.97	2.70	2.42	4.05	27.54	4.46
Final pH (SU)	7.90	7.79	7.97	7.92	7.85	7.69	7.66	7.62	7.52	7.57	7.69	7.76		7.74
Final Nitrite (mg/l)	0.03	0.05	0.24	0.05	0.04	0.03	0.03	0.03	0.03	0.04	0.03	0.03		0.05
Final Nitrate (mg/l)	15.58	16.23	11.83	13.14	15.90	17.48	15.26	15.65	16.93	15.72	14.70	12.22		14.98
Bacteria E. Coli (cfu/100ml)	5	4	15	7	3	3	6	3	2	12	29	75		14
Sludge Hauled (Loads)	6.0	6.0	5.0	7.0	7.0	8.0	7.0	8.0	8.0	5.0	8.0		75.0	6.82
Sludge Hauled (Tonnes)														

*Final Unionized Ammonia numbers shown in the Monthly report are not correct and not used. Averages are taken from weekly final effluent results analyses as shown in Table 2.4.2 | 2025 Final Effluent Weekly Sample Results

APPENDIX “B”

2025 CALIBRATION CERTIFICATE

EFFLUENT FLOW METER

Certificate of Calibration

Electro-Magnetic Flow Meter

Advanced Meter Service
 548-388-4696
amsmeter@outlook.com
 Ingersoll, ON N5C 1G8
advancedmeterservice.com

SCADA Instrument Reading Verification

Instrument	SCADA	% Deviation
------------	-------	-------------

Calibration:
 Verification:

Customer Information
 Veolia Water North America
 130 Wallace St
 Walkerton On N0G 2V0

Verification/Calibration Date: Jul-25
 Verification/Calibrtrn Due Date: Jul-26

Job Number: Veolia-2024	Manufacturer: Mil itonics	Totalizer Reading: M3
Contact: Steve Walmsley	Sensor Tube Model: OCMII	
Site Location: Goderich	Sensor Tube SN#: Not Seen	mA Output Range: 0-31000CM/D
Site Name: 211 Sunset Dr	Transmitter Model: OCMII	Current Output : 4-20mA
Flow Meter Tag#: Sewage Plant	Transmitter SN#: Not Seen	Flow Units : L/S
Application:	Flow Meter Size (mm):	Meter Operation (PASS/FAIL): PASS

Reference L/S	As Found L/S	% Deviation	As Left L/S	% Deviation	PASS/FAIL
3940 CM/D	3940 CM/D	0.00%	3940 CM/D	0.00%	PASS
3980 CM/D	3980 CM/D	0.00%	3980 CM/D	0.00%	PASS
4000 CM/D	4000 CM/D	0.00%	4000 CM/D	0.00%	PASS
4026 CM/D	4026 CM/D	0.00%	4026 CM/D	0.00%	PASS

Reference mA	As Found mA	% Deviation	As Left mA	% Deviation	PASS/FAIL
6.03 mA	6.04 ma	0.16%	6.04 ma	0.16%	PASS
6.05 mA	6.07 ma	0.33%	6.07 ma	0.33%	PASS
6.06 mA	6.08 mA	0.33%	6.08 mA	0.33%	PASS
6.07 mA	6.09 mA	0.32%	6.09 mA	0.32%	PASS

Reference L/S	Time(Minutes)	Ultrasonic Flow Monitor L/S	% Deviation	PASS/FAIL
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Technician Remarks:

Make/Description	SN#	Calibration/Verification Device Used	Calibration Due Date
FLUKE15B+	61280422W5		Dec-25
BV Ultrasonic	52241796H		Dec-25

S.Pate
 Service Technician :
 Signature