

Killaloe Wastewater System

Waterworks #110001532

Annual Report

Prepared For: The Township of Killaloe, Hagarty and Richards

Reporting Period of January 1st – December 31st 2025

Issued: February 20, 2026

Revision: 1

Operating Authority:



This report has been prepared as a general summary of results and events as the Certificate of Approval governing this facility does not require an annual report to be prepared, or define effluent objectives and limits. It is there by operated based solely on provincial guidelines. This report has been prepared to meet the requirements set out in the collection system ECA listed below.

Document	Document #	Issue Date	Issue Number
Facility ECA	1-575-78-005	1978-08-22	N/A
ECA for Municipal Sewage Collection System	259-W601	2022-03-03	1

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1 Revision History

Date	Rev#	Revisions	Revised By
2026-02-20	0	Annual Report Issued	Megan Lockwood, OCWA
2026-02-20	1	Revised date in Section 9	Megan Lockwood, OCWA

2 Operations and Compliance Reliability Indices

Compliance Event	Details
Ministry of Environment Inspections	0
Ministry of Labour Inspections	0
Non-Compliance	0
Community Complaints	0
Spills	0
Overflows	0
Bypass	0
Sewer Main Blockages	0 - Sewer main blockages 0 - Lateral blockages

3 Process Description

The Killaloe Wastewater Treatment System consists of a sewage treatment plant and one sewage pumping station. Wastewater from the Village of Killaloe is collected at the Henry Street pumping station and is then pumped to the Class II Wastewater Treatment Facility located at 113 Keetch Street. Upon entering the facility, the incoming wastewater receives preliminary treatment by passing through two grit removal channels equipped with proportional weirs, an emergency by-pass bar screen and a three inch Parshall Flume for measuring the influent flow.

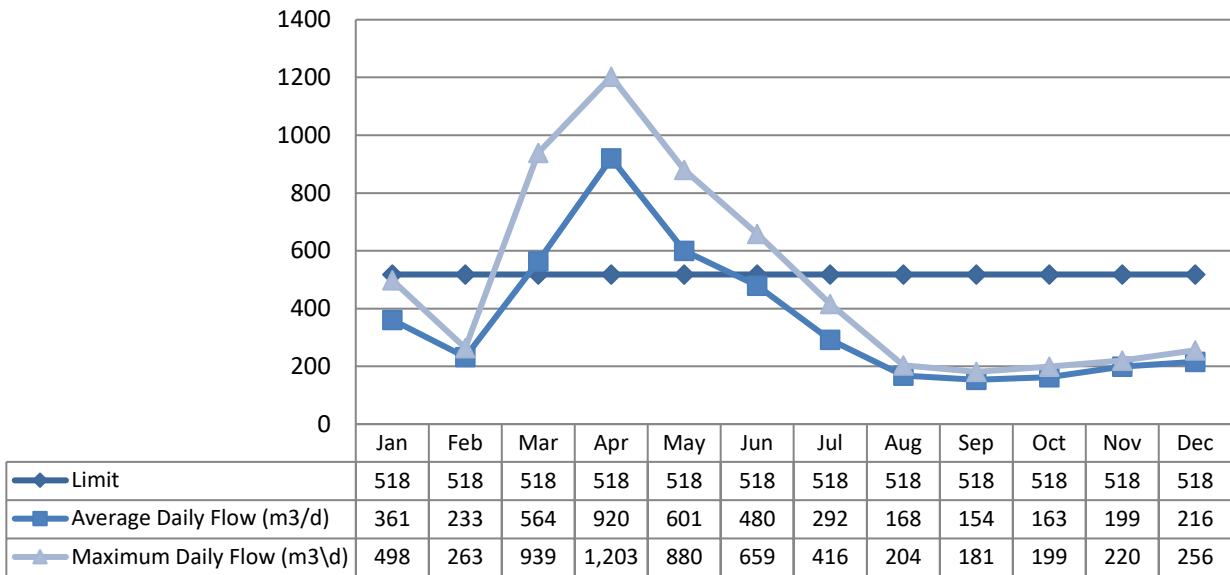
Primary and secondary treatment is achieved through the Extended Aeration Process consisting of a comminutor, a clarifier with the chemical addition of PAS-8 for phosphorus removal, an aeration chamber with fine bubble aeration, and an aerated sludge holding tank/digester. The activated sludge which settles to the bottom of the clarifier is either returned to the head of the aeration tank or is diverted to the digester. Bio-solids are aerobically digested, stored on site and later land applied under the Nutrient Management Act. The treated effluent overflows the clarifier weirs and is collected and sent to the chlorine contact chamber. Disinfection is achieved in the contact chamber with the addition of sodium hypochlorite prior to being de-chlorinated by calcium thiosulfate in the 12-inch diameter outfall sewer before discharging into Brennan's Creek and ultimately Golden Lake.

4 Treatment Flows

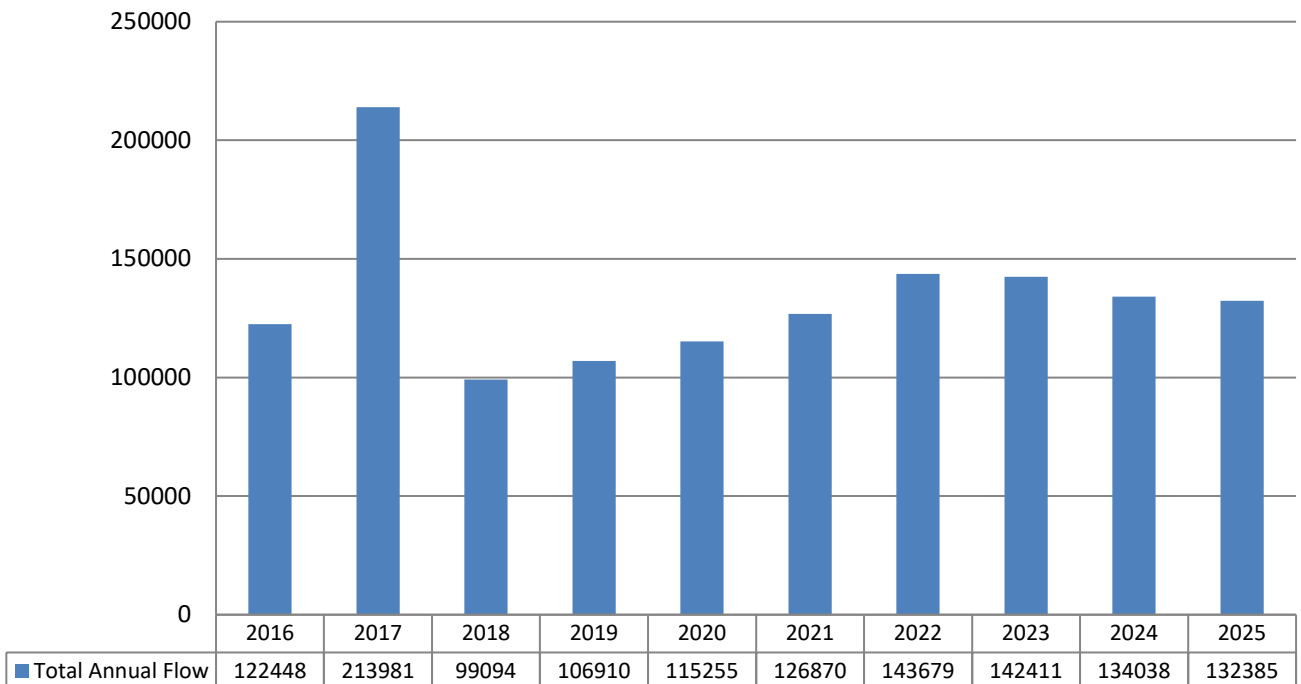
The annual average daily flow for 2025 was 363 m³/d, which represents 70% of the facility’s 518 m³/d rated capacity.

4.1 Raw/Treated Flow (m³/d)

4.1.1 2025 Raw/Treated Flow



4.1.2 Annual Effluent Flow Comparison (m³)

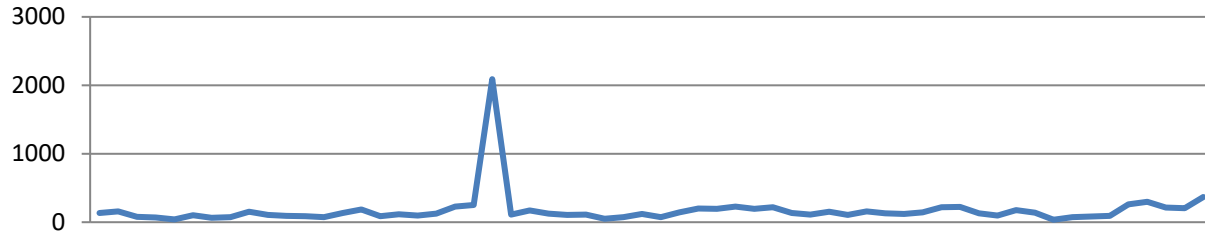


5 Raw Sewage Quality

5 Year Average Trends for Raw Sewage Quality are graphed below:

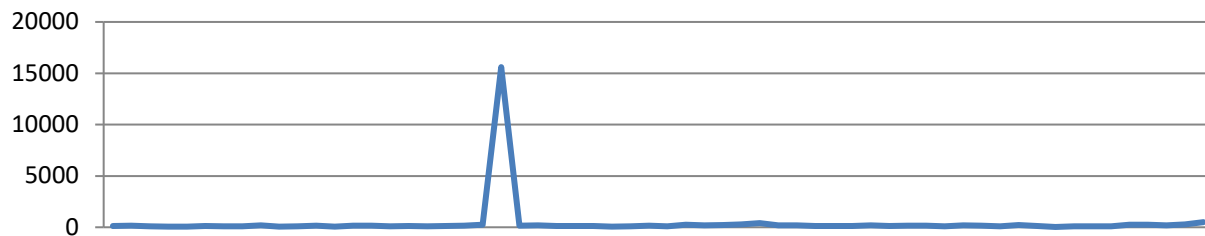
5.1 Biochemical Oxygen Demand (5 Day)

The graph below represents the monthly average of BOD5 measured in mg/L from 2021-2025.



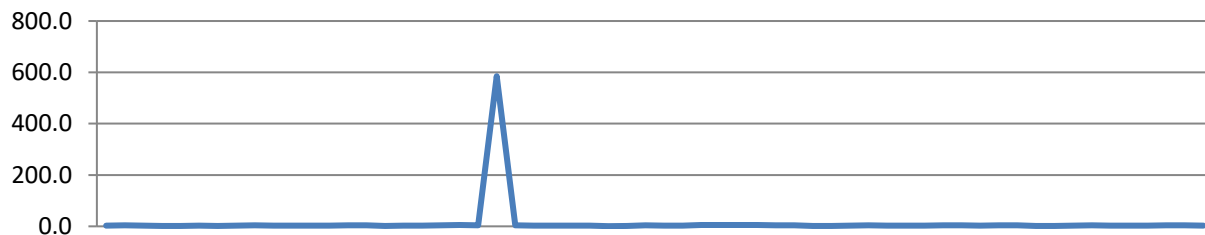
5.2 Total Suspended Solids

The graph below represents the monthly average of TSS measured in mg/L from 2021-2025.



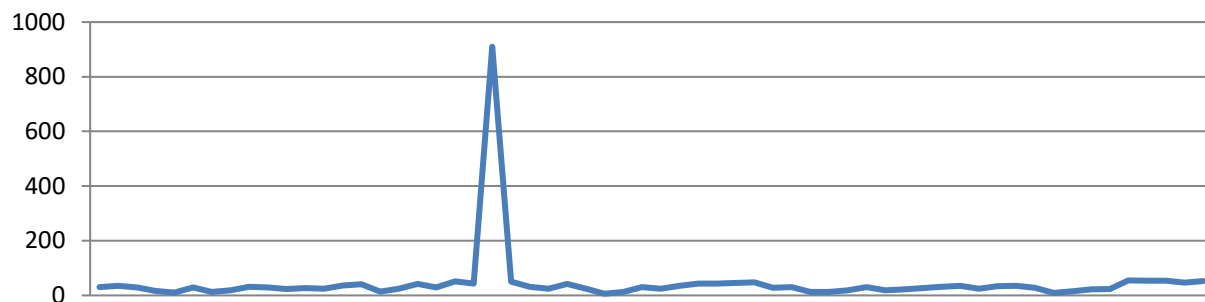
5.3 Total Phosphorus

The graph below represents the monthly average of TP measured in mg/L from 2021-2025.



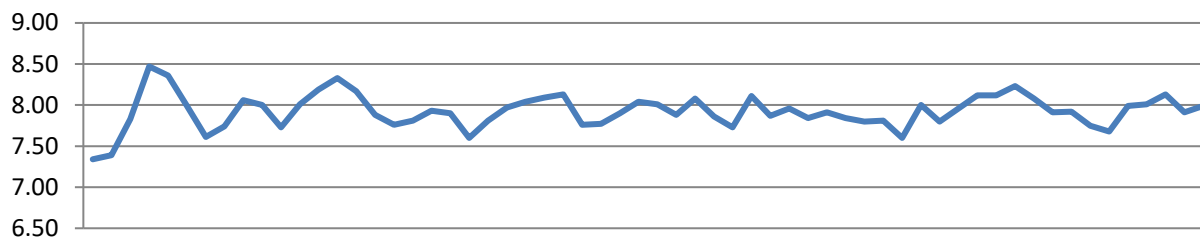
5.4 Total Ammonia Nitrogen

The graph below represents the monthly average of TAN measured in mg/L from 2021-2025.



5.5 pH

The graph below represents the monthly average of pH from 2021-2025, there is no measured unit for pH.



6 Effluent Quality

There are no effluent objectives or limits defined in the Certificate of Approval for this facility. This facility operates to ensure current provincial guidelines are not exceeded. However, there were five instances when the Ministry's F-Guideline Monthly Geometric Mean Density of 200 CFU/100 mL for E.Coli was exceeded in 2025. See the Operating Issues/Problems section of this report for further details.

The Federal Government also regulates the effluent flow, and the monthly average CBOD₅ and total suspended solids in the effluent under the Federal Fisheries Act. The results are submitted to Environment and Climate Change Canada's effluent regulatory reporting information system, under wastewater systems effluent regulations (WSER) on a quarterly basis.

Effluent results from the Killaloe wastewater treatment facility for 2025 are tabulated on pages 6-10 of this report.

6.1 Effluent Quality Assurance and Control Measures Taken

This system is part of OCWA's Madawaska Cluster. The cluster is supported by the Eastern Regional Hub, and corporate resources. Operational Services are delivered by OCWA staff that live and work in the community. The systems are operated to meet compliance with applicable regulations. The system has comprehensive manuals detailing operations, maintenance, instrumentation, and emergency procedures. All procedures are treated as active documents and are updated as required. These documents are also part of OCWA's Quality & Environmental Management System.

The process is reviewed and maintained by certified operators. These operators complete in-house rounds and testing to monitor the process. All sampling and analysis follow approved methods and protocols for sampling, analysis and recording as specified in the Ministry's Procedure F-10-1, "Procedures for Sampling and Analysis Requirements for Municipal and Private Sewage Treatment Works", the Ministry's publication, "Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater" and the publication, "Standard Methods for the Examination of Water and Wastewater".

All final effluent samples collected during the reporting period to meet legislated sampling requirements are submitted to SGS Lakefield Research Ltd. laboratory in Lakefield, Ontario for analysis, with the exception of disinfection residuals and temperature. SGS Lakefield Research Ltd. has been deemed accredited by the Canadian Association for Laboratory Accreditation (CALA), meeting strict provincial

guidelines including an extensive quality assurance/quality control program. By choosing this laboratory, the Ontario Clean Water Agency is ensuring appropriate control measures are undertaken during sample analysis. The disinfection residuals and temperature parameters are analyzed in the field at the time of sample collection by certified operators, to ensure accuracy and precision of the results obtained.

OCWA uses several computer systems which include:

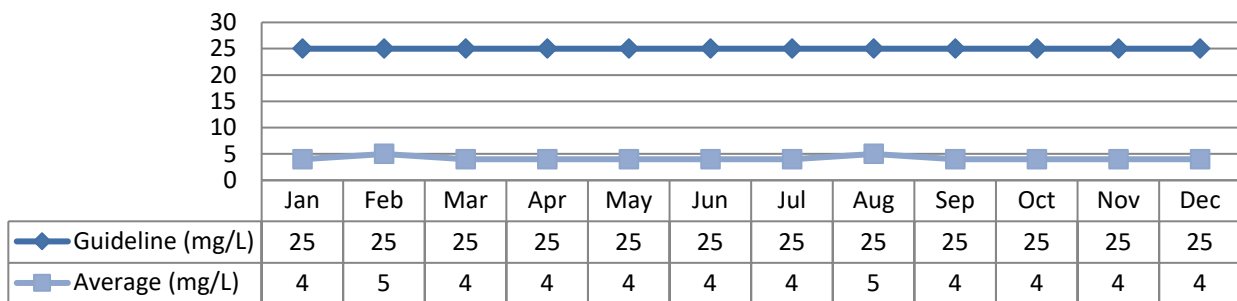
- Process Data Management (PDM)
 - This database program consolidates all operational data from a variety of sources including field data, online instrumentation, and electronic receipt of lab test results for reporting, tracking and analysis.
- Maximo – OCWA’s Work Management System (WMS)
 - This program is used to track and schedule maintenance activities for all equipment in the system. It is also used to assign tasks for specific operational tasks.
- Wonderware (OUTPOST5)/SCADA
 - Wide-area SCADA system allows for process optimization and data logging, process trending, remote alarming.

The operations team also has access to a network of operational compliance and process specialists to assist for emerging process issues. This aids in establishing additional control measures to ensure a quality effluent product.

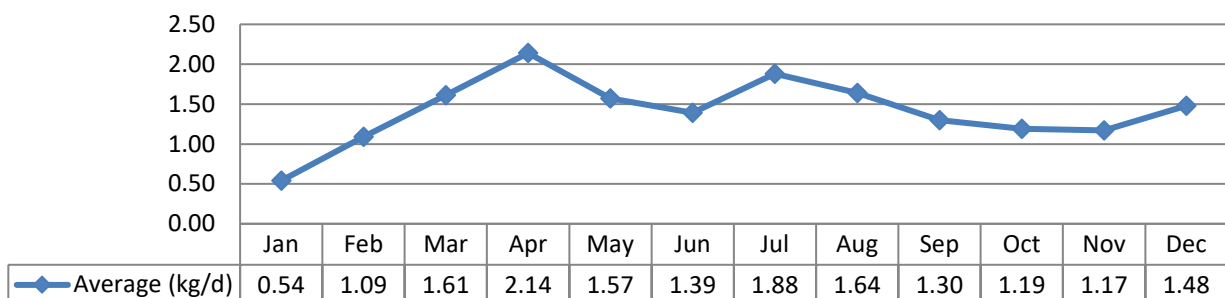
Detailed individual sample results for both raw sewage and final effluent can be requested from the operating authority.

6.2 CBOD5

6.2.1 Concentration (mg/L)

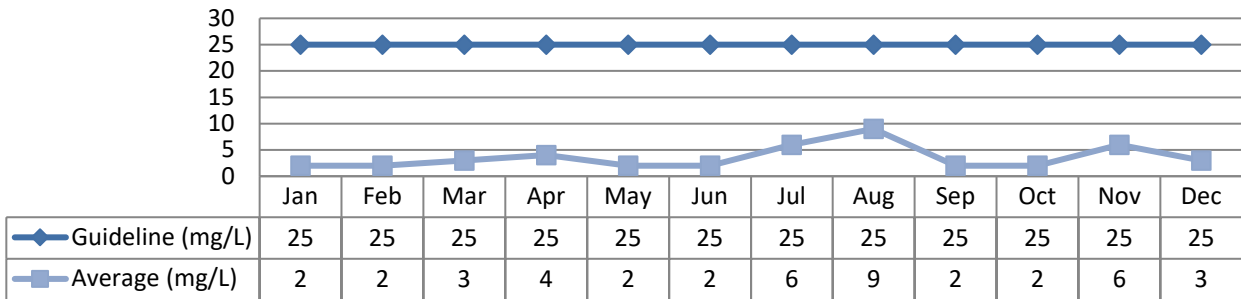


6.2.2 Loading (kg/d)

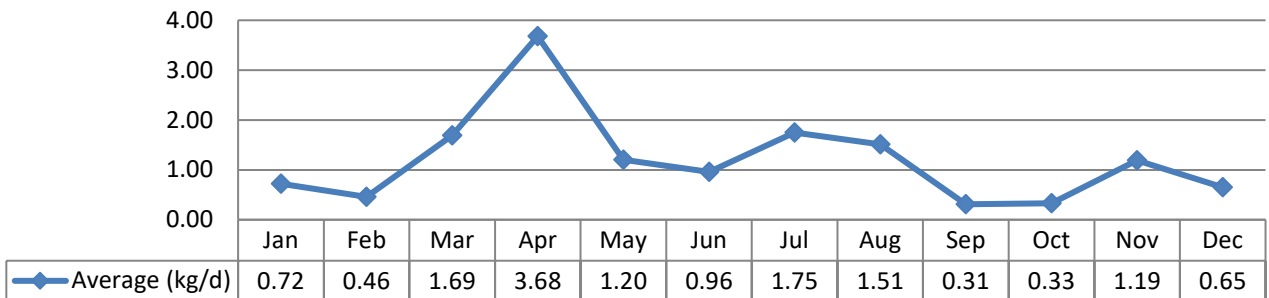


6.3 Total Suspended Solids

6.3.1 Concentration (mg/L)

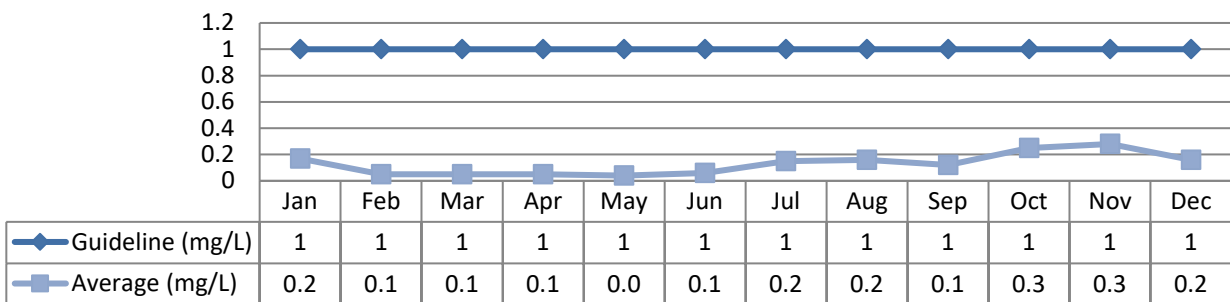


6.3.2 Loading (kg/d)

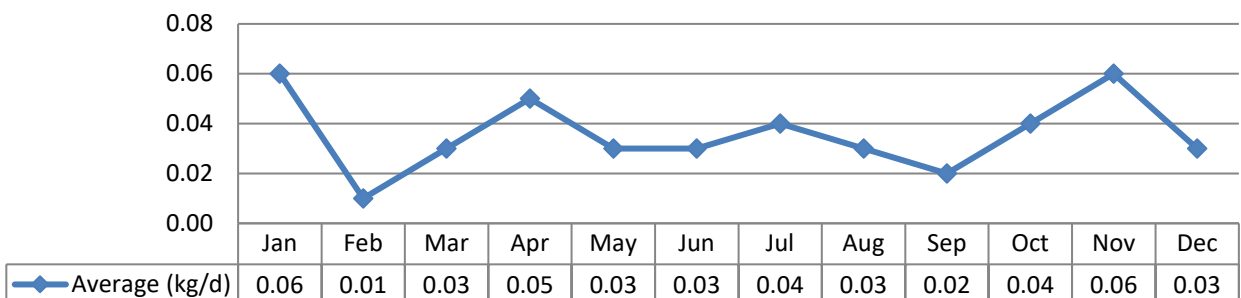


6.4 Total Phosphorus

6.4.1 Concentration (mg/L)

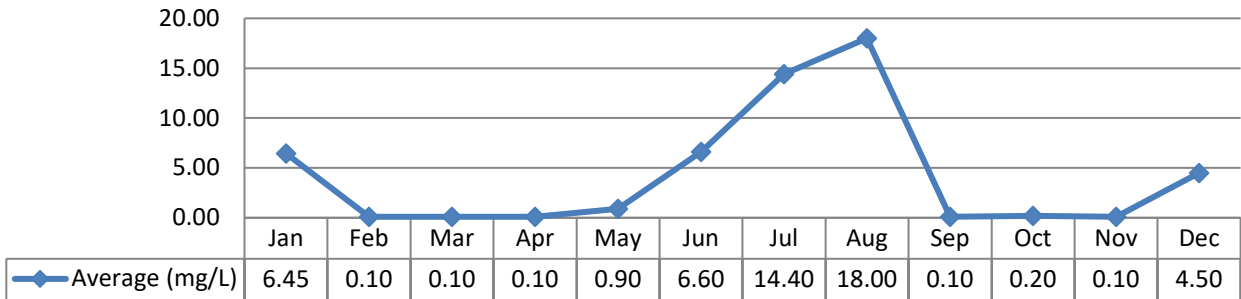


6.4.2 Loading (kg/d)



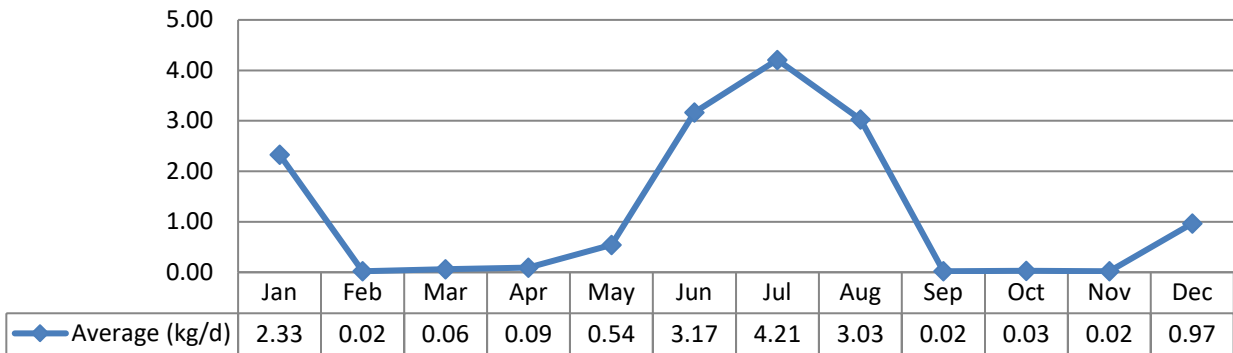
6.5 Total Ammonia Nitrogen

6.5.1 Concentration (mg/L)



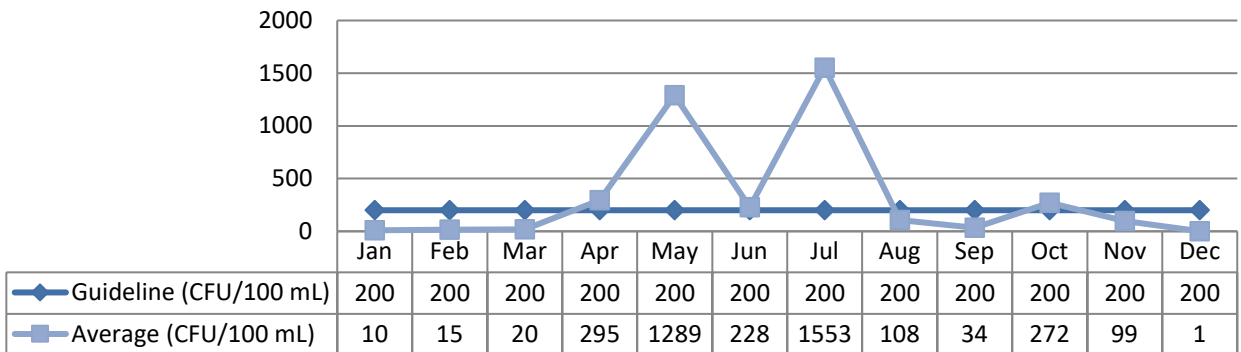
Note: There is no guideline limit on Total Ammonia Nitrogen

6.5.2 Loading (kg/d)

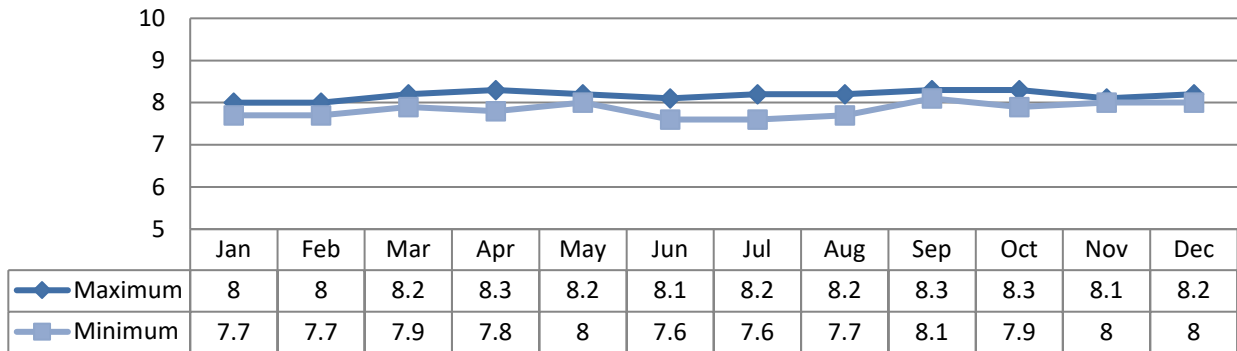


6.6 E-coli

6.6.1 Geometric Mean (CFU/100mL)



6.7 pH



7 Operating Issues/Problems

The Killaloe WPCP operated well in 2025, though there were five exceedances of the Ministry's *E.Coli* monthly geometric mean density (GMD) guideline of 200 CFU/100 mL. Since the Killaloe WPCP Certificate of Approval does not have defined effluent limits, the GMD guideline exceedance is considered a non-conformance and is not reportable to the Ministry. Actions taken for the guideline exceedances are detailed below in section 7.1.

It should also be noted that the average daily flow for 2025 was 362 m³/d, which represents 70% of the facility's 518 m³/d rated capacity. This is consistent with 2024 flows.

7.1 Effluent Quality Non-Compliance Summary

The Killaloe WPCP Certificate of Approval does not have defined effluent limits, any provincial guideline parameter exceedance is considered a guideline non-conformance and is not reportable to the Ministry.

Date	Exceedance of	Limit	Value	Corrective Action
April 2025	Ministry's Guideline: F-5 Levels of Treatment for Municipal and Private Sewage Treatment Works Discharging to Surface Waters	E.Coli monthly geometric mean density (GMD) guideline of 200 CFU/100 mL	295 CFU/100 mL	Repair chlorine feed line and adjust chlorine feed rate.
May 2025	Ministry's Guideline: F-5 Levels of Treatment for Municipal and Private Sewage Treatment Works Discharging to Surface Waters	E.Coli monthly geometric mean density (GMD) guideline of 200 CFU/100 mL	1289 CFU/100 mL	Wasting. Hauled biosolids.

Date	Exceedance of	Limit	Value	Corrective Action
June 2025	Ministry's Guideline: F-5 Levels of Treatment for Municipal and Private Sewage Treatment Works Discharging to Surface Waters	E.Coli monthly geometric mean density (GMD) guideline of 200 CFU/100 mL	228 CFU/100 mL	Repair leaking chlorine line.
July 2025	Ministry's Guideline: F-5 Levels of Treatment for Municipal and Private Sewage Treatment Works Discharging to Surface Waters	E.Coli monthly geometric mean density (GMD) guideline of 200 CFU/100 mL	1553 CFU/100 mL	Clean out chlorine contact chamber. Increased chlorine and PAS8 dosages.
October 2025	Ministry's Guideline: F-5 Levels of Treatment for Municipal and Private Sewage Treatment Works Discharging to Surface Waters	E.Coli monthly geometric mean density (GMD) guideline of 200 CFU/100 mL	272 CFU/100 mL	Monitored operations

7.2 Summary of Abnormal Sewage Discharge Events

Abnormal Discharge Events include Bypass', Overflows, Diversions and Spills of Sewage. Summary Details are included in Appendix B.

7.3 Spills (Other than Sewage)

Date	Location	Details	Volume (m3)	Start Date and Time	End Date and Time
There were no spill events reported during the reporting period.					

8 Maintenance

Routine planned maintenance activities are scheduled in WMS and include:

- Inspect, adjust and calibrate process control equipment to ensure proper operation of pumps, chemical feeders, and all other equipment installed at the facilities.
- Carry out a routine maintenance program including greasing and oiling as specified in the lubrication schedule.
- Perform day-to-day maintenance duties to equipment including checking machinery and electrical equipment when required.
- Maintain an equipment inventory
- Maintain accurate records of work conducted, activities, and achievements.

Planned maintenance activities are communicated to the person responsible for completing the task through the issuance of WMS work orders. Work orders are automatically generated on a schedule as determined based on manufacturer's recommendations and site specific operational and maintenance needs and are assigned directly to the appropriate operations personnel. This schedule is set up by the designated WMS Primary. Work orders are completed and electronically entered into WMS by the person responsible for completing the task. Unplanned maintenance is conducted as required.

8.1 Normal Maintenance and Repairs

Work Order	Details
4339484	PAS8 chem line replacement
4607907	Sludge transfer pump cable repair
4606454	Wasting timer replacement
4609625	Reprogram raw flow meter
4864292	ESA inspection/repairs

8.2 Emergency Maintenance and Repairs

Work Order	Details
No emergency maintenance performed in the 2024 operating season.	

8.3 Flow Meter Calibrations and Maintenance

Location	Date of Calibration	Additional Maintenance
Influent Flow Meter	July 22, 2025	N/A
Effluent Flow Meter	No effluent flow meter	N/A
Collection System Flow Meter	No collection system flow meter	N/A

8.4 Authorized Alterations in Collection

Work Order	Details	Significant Drinking Water Threat (Y/N)
There were no authorized alterations made to the collection system during the reporting period.		

8.5 Notice of Modifications

Date	Process	Modification	Status
There were no modifications made to the treatment facility/collection system during the reporting period.			

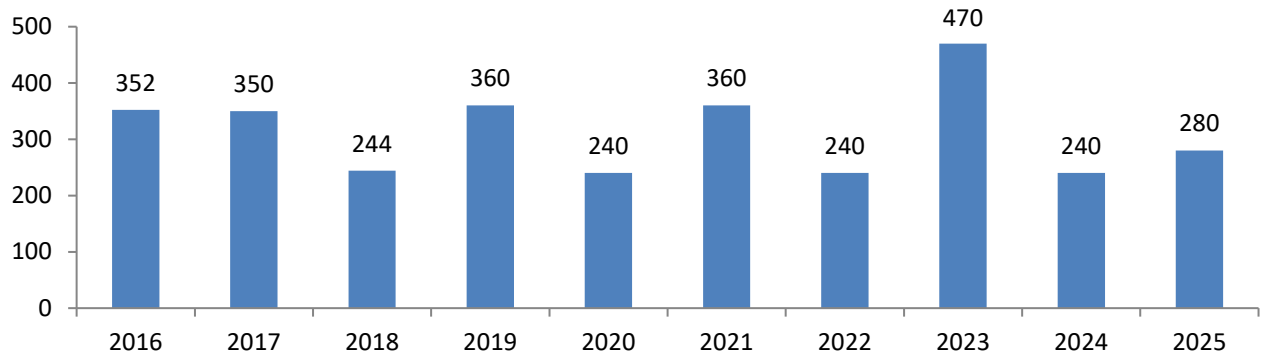
9 Sludge Generation

In 2025, a total of 280 m³ of liquid biosolids was hauled offsite by GFL Environmental Inc. and utilized as soil conditioner or hauled to processing facility. It is anticipated that approximately the same volume of sludge will be generated in 2026.

9.1 Sludge Disposal Summary

Date	Disposal Location	Approval Number	Total Volume (m ³)
May 29, 2025	GFL Storage Facility	ECA# S-3708-42	80
July 30, 2025			40
August 25, 2025			40
December 17 – 18, 2025			120
Total Annual Volume (m³)			280

9.2 Annual Comparison (m³/year)



9.3 Quality

The biosolids sampling results are summarized in Appendix A. All results met the established guidelines.

10 Summary of Complaints

Location	Date	Nature of Complaint	Actions Taken
No complaints received during the reporting period.			

Appendix A

Appendix A - Biosolids Quality Report

Biosolids Quality Report

Facility: KILLALOE WASTEWATER TREATMENT FACILITY



Solids & Nutrients

Period: 01/01/2025 to 12/31/2025

Works: 5539 / Digester Type: Aerobic

Solids & Nutrients	Metals & Criteria	Last 4 Samples
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Facility Works Number: 110001532 Receiver: Brennan Creek
 Facility Owner: Municipality: Township of Killaloe, Hagarty & Richards Service Population:
 Facility Classification: Class 2 Wastewater Treatment Total Design Capacity: 597 m3/day

Note: all parameters in this report are derived from the Bslq Station

Month	Hauled Vol. (m³)	Total Solids (mg/L)	Volatile Solids (mg/L)	Total Phosphorus (mg/L)	Total Ammonia Nitrogen (mg/L)	Nitrate as N (mg/L)	Nitrite as N (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Ammonia + Nitrate (mg/L)	Potassium (mg/L)
Parameter Short Name	HauledVol	TS	VS	TP	NH3p_NH4p_N	NO3-N	NO2-N	TKN	Calculation in Report	K
T/S	IH Month.Total	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean	- no T/S	Lab Published Month Mean
Jan		23,800.00	19,000.00	738.00	35.80	3.00	3.00	1,440.00	19.40	173.00
Feb		23,200.00	18,300.00	715.00	2.40	3.00	3.00	1,440.00	2.70	191.00
Mar		26,100.00	20,800.00	714.00	16.30	3.00	3.00	1,670.00	9.65	177.00
Apr		21,000.00	15,500.00	461.00	2.30	3.00	3.00	1,260.00	2.65	114.00
May	80.00	22,300.00	18,300.00	691.00	9.60	3.00	3.00	1,510.00	6.30	157.00
Jun		25,700.00	20,900.00	776.00	28.90	3.00	3.00	1,690.00	15.95	170.00
Jul	40.00	26,500.00	20,800.00	678.00	24.70	3.00	3.00	1,830.00	13.85	149.00
Aug	40.00	22,800.00	18,600.00	722.00	51.40	3.00	3.00	1,480.00	27.20	141.00
Sep		22,700.00	17,600.00	745.00	14.40	3.00	3.00	1,290.00	8.70	178.00
Oct		18,700.00	14,600.00	630.00	5.90	3.00	3.00	1,280.00	4.45	138.00
Nov		19,900.00	15,200.00	752.00	332.00	3.00	3.00	1,440.00	167.50	176.00
Dec	120.00	24,450.00	17,000.00	967.00	344.00	3.00	3.00	1,860.00	173.50	184.00
Average	70.00	23,095.83	18,050.00	715.75	72.31	3.00	3.00	1,515.83	37.65	162.33
Total	280.00	277,150.00	216,600.00	8,589.00	867.70	36.00	36.00	18,190.00	451.85	1,948.00

Solids & Nutrients

Metals & Criteria

Last 4 Samples

Note: all parameters in this report are derived from the Bslq Station

Month	Arsenic (mg/L)	Cadmium (mg/L)	Cobalt (mg/L)	Chromium (mg/L)	Copper (mg/L)	Mercury (mg/L)	Molybdenum (mg/L)	Nickel (mg/L)	Lead (mg/L)	Selenium (mg/L)	Zinc (mg/L)
Parameter Short Name	As	Cd	Co	Cr	Cu	Hg	Mo	Ni	Pb	Se	Zn
T/S	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean	Lab Published Month Mean
Jan	0.10	0.03	0.05	0.25	31.00	0.01	0.14	0.37	0.40	0.10	15.00
Feb	0.10	0.02	0.04	0.25	29.00	0.00	0.14	0.30	0.30	0.10	14.00
Mar	0.10	0.02	0.05	0.24	26.00	0.00	0.12	0.29	0.30	0.10	13.00
Apr	0.10	0.01	0.03	0.16	18.00	0.00	0.08	0.23	0.20	0.10	8.00
May	0.10	0.02	0.04	0.25	24.00	0.00	0.11	0.34	0.30	0.10	11.00
Jun	0.10	0.03	0.04	0.28	25.00	0.00	0.11	0.34	0.30	0.10	13.00
Jul	0.10	0.02	0.04	0.24	25.00	0.01	0.13	0.30	0.30	0.10	13.00
Aug	0.10	0.02	0.04	0.25	28.00	0.00	0.14	0.32	0.30	0.10	15.00
Sep	0.10	0.03	0.04	0.25	32.00	0.00	0.15	0.32	0.40	0.10	15.00
Oct	0.10	0.02	0.03	0.24	26.00	0.00	0.12	0.24	0.30	0.10	11.00
Nov	0.10	0.02	0.05	0.29	32.00	0.00	0.16	0.35	0.30	0.10	16.00
Dec	0.10	0.03	0.05	0.32	38.00	0.01	0.19	0.40	0.50	0.10	19.00
Average	0.10	0.02	0.04	0.25	27.83	0.00	0.13	0.32	0.33	0.10	13.58
Max. Permissible Metal Concentrations (mg/kg of Solids)	170.00	34.00	340.00	2,800.00	1,700.00	11.00	94.00	420.00	1,100.00	34.00	4,200.00
Metal Concentrations in Sludge (mg/kg)	4.33	1.01	1.80	10.90	1,205.12	0.18	5.74	13.71	14.07	4.33	588.13

Solids & Nutrients

Metals & Criteria

Last 4 Samples

Note: all parameters in this report are derived from the Bslq Station

Parameter Short Name	Time Series	09/09/2025	10/07/2025	11/04/2025	12/02/2025	Average	Metal Concentrations in Sludge (mg/kg)	Max. Permissible Metal Concentrations (mg/kg of Solids)
As (mg/L)	Lab Published	0.10	0.10	0.10	0.10	0.10	4.66	170
Cd (mg/L)	Lab Published	0.03	0.02	0.02	0.03	0.03	1.21	34
Co (mg/L)	Lab Published	0.04	0.03	0.05	0.05	0.04	1.98	340
Cr (mg/L)	Lab Published	0.25	0.24	0.29	0.32	0.28	12.83	2800
Cu (mg/L)	Lab Published	32.00	26.00	32.00	38.00	32.00	1,492.71	1700
Hg (mg/L)	Lab Published	0.00	0.00	0.00	0.01	0.00	0.22	11
Mo (mg/L)	Lab Published	0.15	0.12	0.16	0.19	0.16	7.23	94
Ni (mg/L)	Lab Published	0.32	0.24	0.35	0.40	0.33	15.28	420
Pb (mg/L)	Lab Published	0.40	0.30	0.30	0.50	0.38	17.49	1100
Se (mg/L)	Lab Published	0.10	0.10	0.10	0.10	0.10	4.66	34
Zn (mg/L)	Lab Published	15.00	11.00	16.00	19.00	15.25	711.37	4200
E.Coli Dry Wt (cfu/g)	Lab Published						E. Coli average is the GMD	
TS (mg/L)	Lab Published	22,700.00	18,700.00	19,900.00	24,450.00	21,437.50		
VS (mg/L)	Lab Published	17,600.00	14,600.00	15,200.00	17,000.00	16,100.00		
TP (mg/L)	Lab Published	745.00	630.00	752.00	967.00	773.50		
NO2-N (mg/L)	Lab Published	3.00	3.00	3.00	3.00	3.00		
TKN (mg/L)	Lab Published	1,290.00	1,280.00	1,440.00	1,860.00	1,467.50		
K (mg/L)	Lab Published	178.00	138.00	176.00	184.00	169.00		
NH3p_NH4p_N (mg/L)	Lab Published	14.40	5.90	332.00	344.00	174.08		
NO3-N (mg/L)	Lab Published	3.00	3.00	3.00	3.00	3.00		

Appendix B

Appendix B - Details of Abnormal Sewage Discharge Events

Event Details Summary

Facility Bypass

Date	Location	Details	Volume (m3)	Start Time	End Time	Duration (h)	Discharge Receiver	Disinfection Provided
There were no bypass events reported during the reporting period.								

Facility Overflow

Date	Location	Details	Volume (m3)	Start Time	End Time	Duration (h)	Discharge Receiver	Disinfection Provided
There were no overflow events reported during the reporting period.								

Collection Overflow

There are no authorized overflow locations in this system.

Spills of Sewage

Date	Location	Details	Volume (m3)	Start Time	End Time	Duration (h)	Discharge Receiver	Disinfection Provided
There were no Spill events reported during the reporting period.								

Collection System Monitoring Data

Event Date	Event Location	Volume (m3)	Parameter	mg/L	Source Loading	Any Adverse Impacts & Corrective Actions
There were no overflow or spill of sewage events in the Collection System reported during the reporting period.			BOD			
			Total Suspended Solids			
			Total Phosphorus			
			Total Kjeldahl Nitrogen (TKN)			
			E.Coli			

Appendix C

Appendix C - ECA Annual Report Requirements

Facility ECA #1-575-78-005	Section in Report
The Certificate of Approval governing this facility does not require an annual report to be prepared, or define effluent objectives and limits.	N/A
Collection CLI ECA #259-W601 Schedule E	
4.6.3 If applicable, includes a summary of all required monitoring data along with an interpretation of the data and any conclusion drawn from the data evaluation about the need for future modifications to the Authorized System or system operations.	Operating Issues and Problems
4.6.4 Includes a summary of any operating problems encountered and corrective actions taken.	Operating Issues and Problems
4.6.5 Includes a summary of all calibration, maintenance, and repairs carried out on any major structure, Equipment, apparatus, mechanism, or thing forming part of the Municipal Sewage Collection System.	Maintenance
4.6.6 Includes a summary of any complaints related to the Sewage Works received during the reporting period and any steps taken to address the complaints.	Summary of Complaints
4.6.7 Includes a summary of all Alterations to the Authorized System within the reporting period that are authorized by this Approval including a list of Alterations that pose a Significant Drinking Water Threat.	Maintenance
4.6.8 Includes a summary of all Collection System Overflow(s) and Spill(s) of Sewage, including: a) Dates; b) Volumes and durations; c) If applicable, loadings for total suspended solids, BOD, total phosphorus, and total Kjeldahl nitrogen, and sampling results for E.coli; d) Disinfection, if any; and e) Any adverse impact(s) and any corrective actions, if applicable.	Operating Issues and Problems Appendix C
4.6.9 Includes a summary of efforts made to reduce Collection System Overflows, Spills, STP Overflows, and/or STP Bypasses, including the following items, as applicable: a) A description of projects undertaken and completed in the Authorized System that result in overall overflow reduction or elimination including expenditures and proposed projects to eliminate overflows with estimated budget forecast for the year following that for which the report is submitted. b) Details of the establishment and maintenance of a PPCP, including a summary of project progresses compared to the PPCP's timelines. c) An assessment of the effectiveness of each action taken. d) An assessment of the ability to meet Procedure F-5-1 or Procedure F-5-5 objectives (as applicable) and if able to meet the objectives, an overview of next steps and estimated timelines to meet the objectives. e) Public reporting approach including proactive efforts.	Maintenance Operating Issues and Problems