



Hearst

Sewage Treatment Lagoon Sewage Collection System

Annual Operating Report
January 1 to December 31, 2024

Table of Contents

Facility Description: 1

1.0 Monitoring Data: 1

 1.1 *Monitoring Program as Outlined in the Environmental Compliance Approval..... 1*

 1.1.1 *Raw Sewage (Influent) 1*

 1.1.2 *Final Effluent 2*

 1.2 *Data 2*

 1.2.1 *Influent Flow 2*

 1.2.2 *Summary of Influent Flow 2*

 1.2.3 *Historical Average Influent Flow 3*

 1.2.4 *Raw Sewage (Influent) 3*

 1.2.5 *Effluent Flow Summary..... 4*

 1.2.6 *Summary of Effluent Flow 4*

 1.3 *Monitoring Program as Outlined in the Sewage Collection System (CLI-ECA)..... 5*

 1.4 *CLI-ECA Additional Data 5*

 1.5 *Sewage Treatment Program Success and Adequacy..... 5*

 1.5.1 *Performance Summary 6*

2.0 Interpretation of Monitoring and Analytical Data 6

3.0 Effluent Quality Assurance and Control Measures Undertaken 8

4.0 Maintenance Procedures Performed on the Works 8

5.0 Operating Problems and Corrective Actions 8

6.0 Proposed Alterations, Extensions or Replacements to the Works 9

7.0 Calibration and Maintenance of all Monitoring Equipment..... 10

 7.1 *Calibration Summary..... 10*

8.0 Bypass, Spill and Abnormal Discharge Events 10

9.0 Complaints 10

APPENDIX A: Summary of Influent Sampling Data A

APPENDIX B: Summary of Effluent Sampling Data B

APPENDIX C: Abnormal Discharge Sampling Summary C

APPENDIX D: Overflow Loading Data D

APPENDIX E: CLI-ECA Reporting Sections E

Hearst Sewage Treatment Lagoon

Name of Facility:	Hearst Sewage Treatment Lagoon
Address:	Part of Lot 26, Concessions VIII & IX, Kendall Township, Ontario
MOE Works #:	110000338
Environmental Compliance Approval (ECA):	8457-88QJ23, issued on December 7, 2010
Sewage Collection System (CLI-ECA):	211-W601, issued on March 3, 2023
Report Period:	January 1 to December 31, 2024

Facility Description:

Capacity of Works	5,800 m ³ /day
Service Area	Town of Hearst
Service Population	4,794
Effluent Receiver	Mattawishkwia River via an unnamed creek

The Hearst Sewage Treatment Lagoon is classified as a Class I facility and has a rated capacity of 5,800 m³/day.

It consists of three aerated and four conventional lagoon cells. The lagoons discharge into an unnamed creek, and eventually flow into the Mattawishkwia River. Batch discharge occurs at any time based on loadings and river flows. There is a liquid alum system in place to treat the lagoons prior to discharge.

1.0 Monitoring Data:

1.1 Monitoring Program as Outlined in the Environmental Compliance Approval

BOD₅ - Five-day biochemical oxygen demand measured in an unfiltered sample
cBOD₅ - Five-day carbonaceous (nitrification inhibited) biochemical oxygen demand measured in an unfiltered sample
TSS - Total Suspended Solids
TP - Total Phosphorus

1.1.1 Raw Sewage (Influent)

Parameter	Type of Sample	Minimum Frequency
BOD ₅	Grab	Monthly
Total Phosphorous	Grab	Monthly
Total Suspended Solids	Grab	Monthly

Hearst Sewage Treatment Lagoon

1.1.2 Final Effluent

Parameter	Type of Sample	Minimum Frequency
cBOD ₅	Grab	Taken on the first day of discharge and weekly thereafter
pH	Grab	
Total Phosphorous	Grab	
Total Suspended Solids	Grab	

1.2 Data

1.2.1 Influent Flow

Month	Average Flow (m ³ /day)	Maximum Flow (m ³ /day)	Total Volume (m ³)
January	1,779	2,472	55,136
February	2,063	2,503	59,835
March	2,062	2,836	63,922
April	3,236	3,954	97,088
May	3,053	3,864	94,641
June	2,067	2,363	62,004
July	1,995	2,076	61,851
August	1,788	1,997	55,427
September	2,781	4,771	83,432
October	1,646	1,849	51,028
November	2,028	2,207	60,840
December	2,073	2,609	64,258

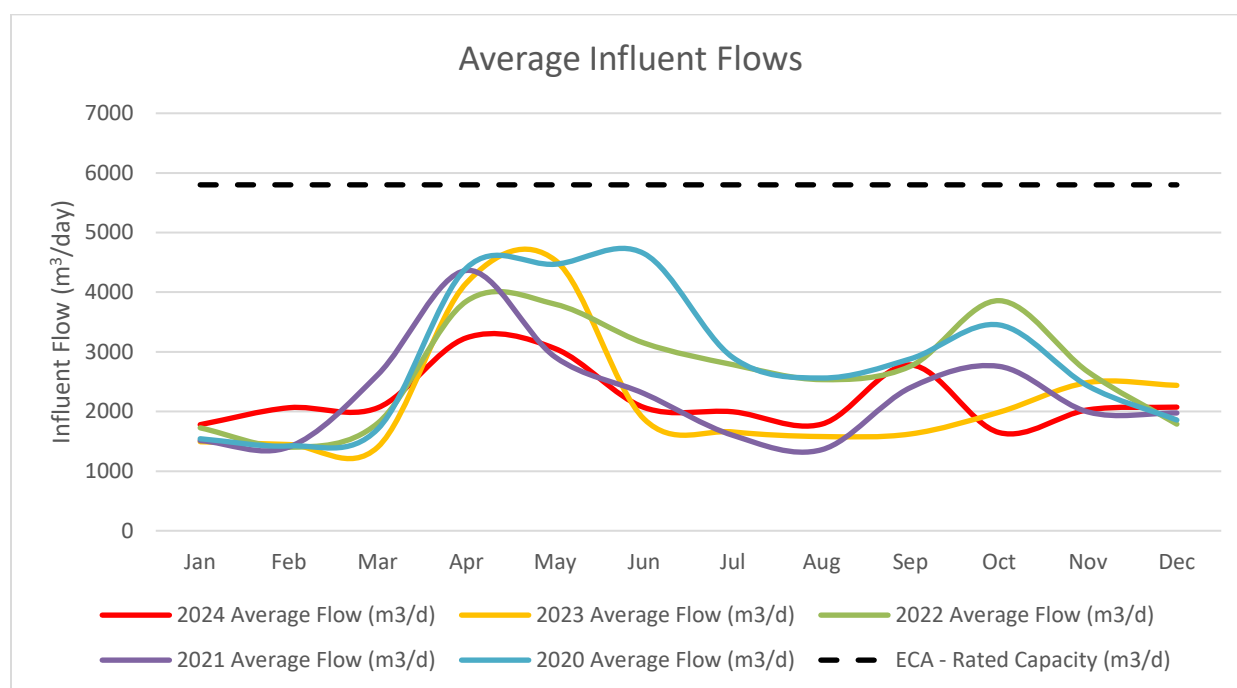
1.2.2 Summary of Influent Flow

Total Volume of Influent (m ³)	809,462
Maximum Annual Flow (m ³ /day)	4,771
Average Annual Flow (m ³ /day)	2,212
Rated Capacity (m ³ /day)	5,800
Percent of Capacity	38.1
Exceedance? (Yes/No)	No

Hearst Sewage Treatment Lagoon

1.2.3 Historical Average Influent Flow

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2024	1779	2063	2062	3236	3053	2067	1995	1788	2781	1646	2028	2073
2023	1493	1446	1403	4157	4534	1873	1657	1580	1623	1989	2486	2438
2022	1726	1400	1804	3850	3798	3147	2785	2534	2759	3858	2664	1788
2021	1512	1405	2616	4365	2911	2300	1600	1359	2401	2756	1992	1975
2020	1543	1423	1706	4407	4469	4647	2904	2561	2883	3451	2427	1857



1.2.4 Raw Sewage (Influent)

Parameter (mg/L)	Number of Samples	Average	Maximum
BOD ₅	12	139.7	270
Total Phosphorous	12	3.91	6.96
Total Suspended Solids	12	283.8	836

Refer to *Appendix A: Summary of Influent Sampling Data*, which summarizes the monitoring and sampling analysis conducted at the facility in 2024

Hearst Sewage Treatment Lagoon

1.2.5 Effluent Flow Summary

Month	Average Flow (m ³ /day)	Maximum Flow (m ³ /day)	Total Volume (m ³)	Days Discharging
January	-	-	-	-
February	-	-	-	-
March	-	-	-	-
April	3,544	8,612	77,960	22
May	7,232	8,300	224,200	31
June	4,485	6,300	17,941	4
July	-	-	-	-
August	-	-	-	-
September	-	-	-	-
October	3,506	3,871	42,073	12
November	-	-	-	-
December	2,041	2609	36,746	18

1.2.6 Summary of Effluent Flow

Total Volume of Effluent	398,920
Maximum Annual Flow (m ³ /day)	8,612
Average Annual Flow per Day Discharging (m ³ /day)	4,585

1.2.7 Effluent

Parameter (mg/L)	Effluent Criteria	2024 Result
cBOD ₅	Limit: annual average 30 mg/L	13.9
	<i>Objective: annual average 25 mg/L</i>	<i>66.6 (max result)</i>
pH (units)	Limit: range 6.0 - 9.5 inclusive	6.94 – 9.42
	<i>Objective: range 6.5 – 8.5 inclusive</i>	
Total Phosphorous	Limit: 1.54321x10 ⁻⁵ kg/day of TP per 1.0 m ³ of river flow	Exceedances as outlined in Section 5
	<i>Objective: maximum 1.0 mg/L</i>	<i>1.66 mg/L (max result)</i>
Total Suspended Solids	Limit: annual average 40 mg/L	9.65
	<i>Objective: annual average 30 mg/L</i>	<i>28 (max result)</i>

1.3 Monitoring Program as Outlined in the Sewage Collection System (CLI-ECA)

BOD₅ - Five-day biochemical oxygen demand measured in an unfiltered sample
TSS - Total Suspended Solids
TP - Total Phosphorus
TKN - Total Kjeldahl Nitrogen
E.coli - Escherichia coli

Refer to *APPENDIX D: Overflow Loading Data*, which summarizes the flows, sampling results, and loading values from all the collection system overflows during the reporting period.

1.4 CLI-ECA Additional Data

The Hearst Wastewater Collection System consists of works for the collection and transmission of sewage, consisting of trunk sewers, separate sewers, seven (7) sewage pumping stations, and force mains with discharge into one (1) Sewage Treatment Lagoon system.

In the past, there were rare occurrences of overflows at PS 4 - 10th Street Sewage Pumping Station, however, after upgrading the station with new pumps, pump panel, and a generator there has not been an overflow observed since 2014.

Although there are a few pumping stations that contain overflow locations, the only station that regularly overflows is PS 5 - 5th Street Sewage Pumping Station. This station generally overflows during heavy rain events or rapid snow melting during the spring. Over the period of 2022 to 2024, the sewage pumps at the station have been either rebuilt or replaced, resulting in an overall increased flow rate. These performance upgrades should help reduce the volume of effluent that could overflow in the future. During 2024, the low precipitation amounts and a slow melt of snow during the spring allowed the pumping stations to maintain full service. There were no sewage pumping station overflows in 2024.

The owner currently has the collection system pumping stations on a major refurbishment cycle, and has been investing in station upgrades annually. During this reporting period, five different pumps across four stations were completed.

1.5 Sewage Treatment Program Success and Adequacy

The Performance Summary details results and efficiency of the lagoon's performance demonstrating pollutant removal rates from raw sewage concentrations through to final effluent for BOD₅/cBOD₅, suspended solids and total phosphorus.

Hearst Sewage Treatment Lagoon

1.5.1 Performance Summary

Parameter (Avg)	Influent	Effluent	% Removal
BOD ₅ /cBOD ₅ (mg/L)	139.7	13.9	90.1
TP (mg/L)	3.91	0.73	81.3
TSS (mg/L)	283.8	9.65	96.6

Notes: BOD₅ analysis is required on the influent while cBOD₅ is required on the effluent
 Percent removal calculations are based on the annual average values

2.0 Interpretation of Monitoring and Analytical Data

The Hearst sewage treatment Lagoon operated within its required capacity. Most effluent monitoring parameters fell below the compliance limits specified in the facility's ECA, with the exception of total phosphorous.

Table 1.2.1 Influent Flow Data summarizes the flow data. The average and maximum daily flows are presented for each month. Compliance is achieved when the average for the year does not exceed 5,800 m³/day. The average daily flow for 2024 was 2,212 m³/day, which represents 38.1% of the design capacity. The maximum annual daily flow was 4,771 m³/day.

The effluent quality is based on the pH, carbonaceous biochemical oxygen demand, total suspended solids and total phosphorous levels. The annual averages for all parameters are listed in *Table 1.2.7 Effluent*.

The Carbonaceous Biochemical Oxygen Demand (cBOD₅) represents the oxygen demand from organic compounds and the oxidation of inorganic compounds such as ferrous iron and sulphide. High cBOD₅ in effluent means a large quantity of oxygen was needed to break down the organic and inorganic matter in the effluent indicating inadequate treatment. The annual average cBOD₅ concentration was 13.9 mg/L which complied with the limit of 30 mg/L. The objective of 25 mg/L was exceeded on April 9 (66.6 mg/L), April 16 (38 mg/L), and April 29 (28 mg/L).

Total Suspended Solids (TSS) in effluent are composed of settleable solids and nonsettleable solids depending on the size, shape and weight of the solid particles. Settable solids are large sized particles that tend to settle more rapidly in a given period of time. In 2024, the annual average TSS was 9.65 mg/L which complies with the limit of 40 mg/L. The objective of 30.0 mg/L was not exceeded during this reporting year.

Total Phosphorus (TP) refers to the amount of phosphorus in a sample. Excess TP stimulates algae and weed growth that may cause fluctuations in dissolved oxygen in the receiving waters. The annual average total phosphorous concentration was 0.73 mg/L; however, the annual maximum

Hearst Sewage Treatment Lagoon

total phosphorous concentration was 1.66 mg/L, which is above the effluent objective limit of 1.0 mg/L. Despite alum treatment to reduce the phosphorus concentration, the objective was exceeded on April 9 (1.66 mg/L), April 16 (1.42 mg/L), and April 22 (1.13 mg/L).

The compliance limit is 1.54321×10^{-5} kg/day of TP per 1.0 m^3 of river flow. This was exceeded during the fall discharge on October 10 (exceeded 2.45 kg/d), October 15 (exceeded 1.89 kg/d), and October 21 (exceeded 1.62 kg/d).

The pH of a solution is an indication of its acidic and basic properties and measured on a scale ranging between 0 and 14. Very high or very low pH levels can be corrosive to pipes, screening equipment and pumps, can damage biological processes and form undesirable toxic gases or heavy metals. The objective minimum of 6.5 was not exceeded during this reporting year. The objective maximum of 8.5 was exceeded on May 13 (8.61), May 21 (8.79), May 27 (9.03), and June 4 (9.42). The effluent pH did not exceed the compliance limits of 6.0 to 9.5, inclusive.

In 2024, the effluent quality was on par with most previous years, with a minor improvement compared to 2023. Although it met the compliance criteria established in the Environmental Compliance Approval for cBOD₅, TSS, and pH. There are occasional objective exceedances of pH. Trends have indicated that cBOD₅ concentrations have been rising year over year, with the exception of this year; however, exceedances often occur due to the lagoon cells being covered in ice. Total phosphorous frequently exceeds the objective of 1.0 mg/L when the uncontrolled spring discharge occurs due to the lagoon cells being covered in ice. This year the high total phosphorous concentrations in the spring did not result in any loading limit exceedances due to high river elevations and flow. However, in the fall although we were below our objectives for total phosphorous concentrations, the low river elevations and flow resulted in multiple loading limit exceedances and caused our fall discharge to end early.

The aeration system has received upgrades and maintenance for the blower system over the past few years; however, the ongoing issues with diffusers have caused reduced efficiency in the overall aeration system. The majority of the diffusers have failed and it will require large capital investment to replace the system.

The lagoon doses alum during the winter season to help control the overall total phosphorous concentrations. During the winter season, operations have increased the average mg/L Alum dose to improvement the effluent results. Although our objective was exceeded during April, the results were approximately half the concentration compared to the previous year. The lack of effective dosing in 2023 compared to 2024 has shown the effectiveness of Alum treatment.

Refer to *Appendix B: Summary of Effluent Sampling Data*, which summarizes the monitoring and sampling analysis conducted at the facility in 2024.

3.0 Effluent Quality Assurance and Control Measures Undertaken

Each member of the operational staff possesses a high level of process knowledge and regulatory competence.

Samples are collected as required and analyzed by Testmark Laboratories Limited. Licensed Operators conduct in-house tests for monitoring purposes using procedures as per Standard Methods of Water and Wastewater.

Any overflow or upset events that occur at the pumping stations or lagoon site are tested, monitored and reported to the Spills Action Center (SAC).

4.0 Maintenance Procedures Performed on the Works

Lagoon maintenance, including non-scheduled maintenance, is monitored using OCWA's preventative maintenance software program, Maximo. All routine and preventative maintenance measures were conducted as scheduled.

Capital Expenses:

- Main SPS – Pump #3 Refurbishing/Repairs and Install
- Wyborn SPS – Pump #1 and Pump #2 Refurbishing/Repairs
- East End SPS – Pump #1 Refurbishing/Repairs
- Diesel SPS – Pump #1 Refurbishing/Repairs
- Confined Space Equipment Inspection
- CLI-ECA – Collections System O&M Manual
- Trout Toxicity Sampling

5.0 Operating Problems and Corrective Actions

There were no major operating problems encountered in 2024. However, low precipitation levels during the summer and fall resulted in a low river elevation/flowrate leading into the fall discharge period. Although the TP effluent concentrations were below the ECA objective, due to the low river elevations, the allowable TP loading limit was also very low. As a result, the calculated loadings exceeded the limit when attempting the fall discharge. TP loadings are calculated by the operators using the formula of;

1.54321×10^{-5} kg/day of TP per 1.0 m³/day of River flow.

Hearst Sewage Treatment Lagoon

The following limit exceedances occurred in 2024:

October 10	<p>Total Phosphorous Loading Exceedance (SAC #: 1-CDF8PI) ECA# 8457-88QJ23 – Condition 7 (3) – Total Phosphorous (TP) loadings exceeded the allowable limits immediately after starting the discharge.</p> <p>Total Phosphorous result = 0.726 mg/L Allowed loading = 0.42 kg/d Actual loading = 2.86 kg/d Amount exceeding = 2.45 kg/d</p>
October 15	<p>Total Phosphorous Loading Exceedance (SAC #: 1-CFVTGI) ECA# 8457-88QJ23 – Condition 7 (3) – Total Phosphorous (TP) loadings exceeded the allowable limit. The lagoon discharge was terminated after calculating the first total phosphorous loading on October 21.</p> <p>Total Phosphorous result = 0.644 mg/L Allowed loading = 0.61 kg/d Actual loading = 2.49 kg/d Amount exceeding = 1.89 kg/d</p>
October 21	<p>Total Phosphorous Loading Exceedance (SAC #: 1-CZ4ER1) ECA# 8457-88QJ23 – Condition 7 (3) – Total Phosphorous (TP) loadings exceeded the allowable limit on the closing sample.</p> <p>Total Phosphorous result = 0.622 mg/L Allowed loading = 0.70 kg/d Actual loading = 2.32 kg/d Amount exceeding = 1.62 kg/d</p>

6.0 Proposed Alterations, Extensions or Replacements to the Works

There were no major alterations, or extensions in the process or operations for the reporting period. However, the aeration systems diffusers will likely require significant maintenance or replacement in the near future to ensure proper performance and reduction of cBOD₅ concentrations.

Hearst Sewage Treatment Lagoon

7.0 Calibration and Maintenance of all Monitoring Equipment

The flow-monitoring program, maintained in the Work Management System (WMS), incorporates a calibration of all monitoring devices once a year. This helps ensure their accuracy within plus or minus 15 % of the actual rate.

All monitoring equipment is calibrated based on the manufactures recommendations and conducted by a competent person. Refer to Table 7.1 for a summary of calibrations conducted in 2024.

7.1 Calibration Summary

Instrument	Calibration Date	Accuracy
pH meter (Oakton pH Meter Series 10)	July 29, 2024	99.5 %
Lagoon influent flow meter (E&H Promag)	June 20, 2024	94.1 %
Lagoon effluent flow meter (Greyline AVFM 5.0)	June 20, 2024	94.8%

8.0 Bypass, Spill and Abnormal Discharge Events

There were no bypasses that occurred during the 2024 reporting period. Bypasses are sampled and analyzed for BOD₅, cBOD₅, TP, TKN, TSS, E.coli, and pH when they occur.

Please note, the Ministry of Environment, Conservation and Parks (MECP) has changed the definitions of bypasses and overflows. The ECA’s definition of “bypass” is now what the MECP considers an “overflow”. Any overflow events listed in modern reports are considered bypasses by the ECA’s definition; however, they were reported to the MECP as an overflow due to these changes.

The total overflow volume for 2024 was zero cubic meters, with no events that occurred.

All events would be verbally reported to the Ministry of the Environment, Conservation and Park’s Spills Action Center, a courtesy call to the Medical Officer of Health and a written report was submitted to Environment Canada and OCWA’s Compliance Department. Refer to *Appendix C: Bypass Summary* for future records of bypass sample results.

9.0 Complaints

There were no complaints received during the reporting period

APPENDIX A: Summary of Influent Sampling Data

	01/2024	02/2024	03/2024	04/2024	05/2024	06/2024	07/2024	08/2024	09/2024	10/2024	11/2024	12/2024
Biochemical Oxygen Demand: BOD5 - mg/L												
Count Lab	1	1	1	1	1	1	1	1	1	1	1	1
Mean Lab	230	200	130	37	72.5	270	59	130	58	150	180	160
Total Phosphorus: TP - mg/L												
Count Lab	1	1	1	1	1	1	1	1	1	1	1	1
Mean Lab	6.96	5.11	2.27	1.93	3.2	5.92	1.71	4.2	2.84	3.55	3.33	5.86
Total Suspended Solids - mg/L												
Count Lab	1	1	1	1	1	1	1	1	1	1	1	1
Mean Lab	836	584	106	608	137	434	41	104	112	76	183	185

APPENDIX B: Summary of Effluent Sampling Data

	01/2024	02/2024	03/2024	04/2024	05/2024	06/2024	07/2024	08/2024	09/2024	10/2024	11/2024	12/2024
TSS (Obj 30) - mg/L												
Count Lab	0	0	0	4	4	1	0	0	0	3	0	3
Max Lab				28	22.5	1.5				8.5		2.3
Mean Lab				20.5	11.5	1.5				3.7		1.4
Min Lab				12	4.5	1.5			<	1		1
Total Phosphorus: TP - mg/L												
Count Lab	0	0	0	4	4	1	0	0	0	3	0	3
Max Lab				1.66	0.49	0.07				0.73		0.87
Mean Lab				1.26	0.32	0.07				0.66		0.86
Min Lab				0.81	0.21	0.07				0.62		0.84
cBOD5 (Obj 25) - mg/L												
Count Lab	0	0	0	4	4	1	0	0	0	3	0	3
Max Lab				66.6	16	1.1				3.9		1.2
Mean Lab				39.4	9.75	1.1				2.6		0.97
Min Lab				25	5.3	1.1				1.2		0.6
pH (Obj 6.5 - 8.5)												
Count IH	0	0	0	4	4	1	0	0	0	3	0	3
Max IH				7.23	9.03	9.42				7.14		7.57
Mean IH				7.19	8.72	9.42				7.02		7.31
Min IH				7.11	8.44	9.42				6.95		6.94

APPENDIX C: Abnormal Discharge Sampling Summary

	01/2024	02/2024	03/2024	04/2024	05/2024	06/2024	07/2024	08/2024	09/2024	10/2024	11/2024	12/2024
Main (5th St) / Volume - m³												
Count IH	0	0	0	0	0	0	0	0	0	0	0	0
Total IH												
Main (5th St) / BOD5 - mg/L												
Count Lab	0	0	0	0	0	0	0	0	0	0	0	0
Mean Lab												
Main (5th St) / CBOD5 - mg/L												
Count Lab	0	0	0	0	0	0	0	0	0	0	0	0
Mean Lab												
Main (5th St) / TSS - mg/L												
Count Lab	0	0	0	0	0	0	0	0	0	0	0	0
Mean Lab												
Main (5th St) / TKN - mg/L												
Count Lab	0	0	0	0	0	0	0	0	0	0	0	0
Mean Lab												
Main (5th St) / E.coli: EC – cfu/100 mL												
Count Lab	0	0	0	0	0	0	0	0	0	0	0	0
Mean Lab												
Main (5th St) / pH												
Count Lab	0	0	0	0	0	0	0	0	0	0	0	0
Mean Lab												

APPENDIX D: Overflow Loading Data

$$\boxed{\text{event average result } \frac{\text{mg}}{\text{L}}} \times \boxed{\frac{1000 \text{ L}}{1 \text{ m}^3}} \times \boxed{\frac{1 \text{ g}}{1000 \text{ mg}}} \times \boxed{\frac{1 \text{ kg}}{1000 \text{ g}}} \times \boxed{\text{event average flow } \frac{\text{m}^3}{\text{d}}} = \boxed{\text{loading } \frac{\text{kg}}{\text{d}}}$$

Note: No sewage pumping station overflows occurred during the 2024 reporting year.

APPENDIX E: CLI-ECA Reporting Sections

Collection ECA # 211-W601 Schedule E	Section in Report
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.	1.2.3 Historical Average Influent Flow 1.3 Monitoring Program as Outlined in the Sewage Collection System (CLI-ECA) 1.4 CLI-ECA Additional Data 6.0 Proposed Alterations, Extensions or Replacements to the Works 8.0 Bypass, Spill and Abnormal Discharge Events APPENDIX C: Abnormal Discharge Sampling Summary APPENDIX D: Overflow Loading Data
4.6.4 Includes a summary of any operating problems encountered and corrective actions taken.	5.0 Operating Problems and Corrective Actions
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.	4.0 Maintenance Procedures Performed on the Works 7.0 Calibration and Maintenance of all Monitoring Equipment
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.	9.0 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.	4.0 Maintenance Procedures Performed on the Works
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.	8.0 Bypass, Spill and Abnormal Discharge Events APPENDIX D: Overflow Loading Data

Collection ECA # 211-W601 Schedule E	Section in Report
<p>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:</p> <ul style="list-style-type: none"> 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. 	<p>1.4 CLI-ECA Additional Data 4.0 Maintenance Procedures Performed on the Works 5.0 Operating Problems and Corrective Actions</p>