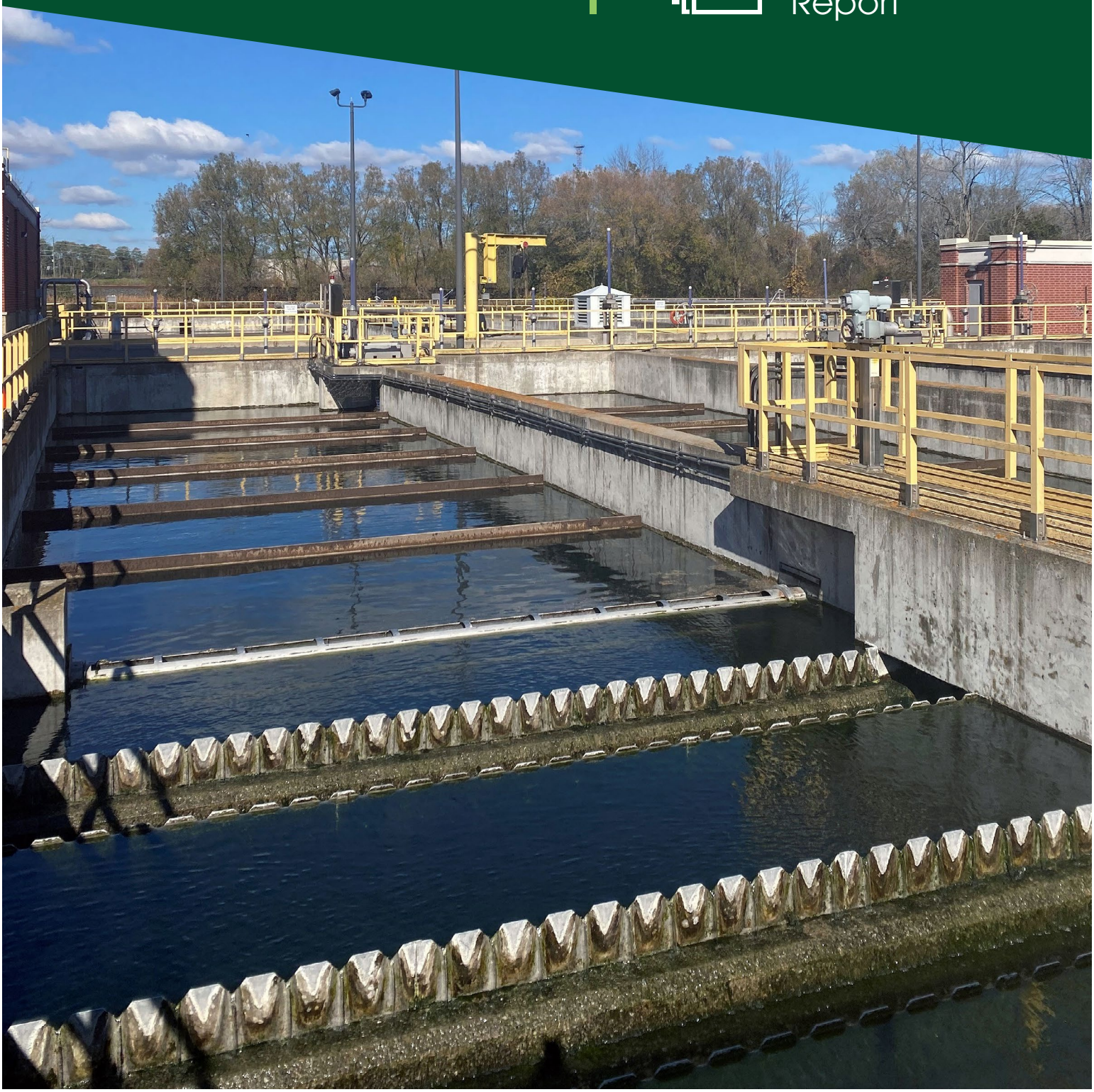
MUNICIPALITY OF
PORT HOPE
ENVIRONMENTAL SERVICES

Wastewater Treatment Plant

2025 Annual Performance Report



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April 7, 2026

Municipality of Port Hope
56 Queen Street
Port Hope, ON
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Re: 2025 Annual Performance Report - Port Hope Wastewater Treatment Plant

Dear Mr. Mike Melinyshyn,

We are pleased to provide the 2025 Annual Performance Report for the Municipality of Port Hope's **Wastewater Treatment Plant**, located at 100 Lake Street, Port Hope, Ontario. This report has been completed in accordance with the Environmental Compliance Approval #8519-BKNN7C, Section 11 (4), dated March 26, 2020, and issued to The Corporation of the Municipality of Port Hope.

The report covers the period from January 1, 2025, to December 31, 2025.

Sincerely,

Kevin Yule
Manager, Wastewater
Municipality of Port Hope

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Executive Summary

The Port Hope Wastewater Treatment Plant (WWTP) is located at 100 Lake Street, in the Municipality of Port Hope, and services the community of Port Hope with a population of approximately 17,300. The facility is owned and operated by the Municipality of Port Hope in accordance with Environmental Compliance Approval (ECA) #8519-BKNN7C, issued March 26, 2020. The WWTP is a Class III Wastewater Treatment Plant and has a rated capacity of 11,300 m^3/day.

The facility is described as an extended aeration activated sludge treatment plant with aerobic digestion. The facility is equipped with a septage receiving station, which receives raw sewage and septic waste from hauler trucks. The headworks equipment provides for screening and grit removal and is present to protect the mechanical equipment downstream from damage by removing solid particles contained in the raw sewage as well as providing preliminary treatment. By gravity, the screened and degritted wastewater, from the headworks, flows into three (3) aeration tanks, on a flow displacement basis. The mixed liquor from the aeration tanks flows into the three (3) rectangular secondary clarifiers, on a flow displacement basis. In the clarifiers, the solids are settled to the bottom of the tank and the clarified liquid at the top of the tank overflows into several rectangular weirs located at the discharge end of the clarifiers. This clarified liquid (secondary effluent) is then conveyed to the chlorine contact tanks for disinfection. Final effluent is then dechlorinated with sodium bisulphite, prior to being discharged to Lake Ontario.

During the reporting period (January 1st - December 31st, 2025), no bypass or overflow events occurred, and no customer complaints were reported for the WWTP. No reportable incidents (see Table G and Table L below for more details) involving a spill, were observed during the reporting period.

No Ministry of the Environment, Conservation and Parks (Ministry) inspection occurred during the reporting period.

2025 Annual Performance Report – Wastewater Treatment Plant

In accordance with the ECA #8519-BKNN7C, Section 11 (4) - REPORTING, the Municipality of Port Hope, as the Owner of the Port Hope Wastewater Treatment Plant, shall prepare a performance report on a calendar year basis and submit it to the Ministry by March 31 of the calendar year following the period being reported upon.

Section 11(4) - REPORTING requires the Performance Report to contain the following:

(a) a summary and interpretation of all Influent, monitoring data, and a review of the historical trend of the sewage characteristics and flow rates.
(b) a summary and interpretation of all final effluent monitoring data, including concentration, flow rates, and a comparison to the design objectives and compliance limits, including an overview of the success and adequacy of the Works.

(c) a summary of all operating issues encountered, and corrective actions taken.
(d) a summary of all normal and emergency repairs and maintenance activities carried out on any major structure, equipment, apparatus, or mechanism forming part of the Works.
(e) a summary of any effluent quality assurance or control measures undertaken.
(f) a summary of the calibration and maintenance carried out on all influent, imported sewage and final effluent monitoring equipment to ensure that the accuracy is within the tolerance of that equipment as required in the ECA or recommended by the manufacturer.
(g) a summary of efforts made to achieve the design objectives, including an assessment of the issues and recommendations for pro-active actions if any are required under the following situations:
    i. when any of the design objectives is not achieved more than 50% of the time in a year, or there is an increasing trend in deterioration of final effluent quality,
    ii. when the annual average daily influent flow reaches 80% of the rated capacity.
(h) a tabulation of the volume of sludge generated, an outline of anticipated volumes to be generated in the next reporting period and a summary of the locations to where the sludge was disposed,
(i) a summary of any complaints received, and any steps taken to address the complaints,
(j) a summary of all bypasses, overflows, other situations outside normal operating conditions and spills within the meaning of Part X of EPA and abnormal discharge events,
(k) a summary of all Notice of Modifications to Sewage Works completed under Paragraph 1.d. of Condition 10, including a report on status of implementation of all modification,
(l) a summary of efforts made to achieve conformance with Procedure F-5-1 including but not limited to projects undertaken and completed in the sanitary sewer system that result in overall by-pass/overflow elimination including expenditures and proposed projects to eliminate by-pass/overflows with estimated budget forecast for the year following that for which the report is submitted, and
(m) a summary of maintenance, inspections, and monitoring details.

The following report was generated from the records maintained by the Municipality of Port Hope for the Port Hope Wastewater Treatment Plant for the calendar year 2025:

(a) Influent and Imported Sewage Monitoring Program Summary

The following Tables A, B and C, list a summary of influent and imported sewage (septage receiving) monitoring data, including current and historic sewage characteristics and flows.

Table A - Summary of Monthly Average Influent Concentrations

	Biochemical Oxygen Demand (BOD^5) (mg/L)	Total Suspended Solids (TSS) (mg/L)	Total Phosphorus (TP) (mg/L)	Total Kjeldahl Nitrogen (TKN) (as N mg/L)
January	275	275	4.0	33.33
February	213	181	3.8	33.30
March	129	130	2.3	19.43
April	186	151	2.3	18.98
May	160	131	2.5	21.00
June	213	238	3.5	25.68
July	283	378	5.1	37.02
August	265	245	4.6	38.75
September	251	223	4.5	34.85
October	272	294	3.8	36.68
November	252	232	3.8	33.20
December	194	157	3.2	28.68
Average	**224**	**220**	**3.6**	**30.07**
3-year Average	**226**	**230**	**3.4**	**28.19**
5-year Average	**219**	**239**	**3.2**	**26.98**

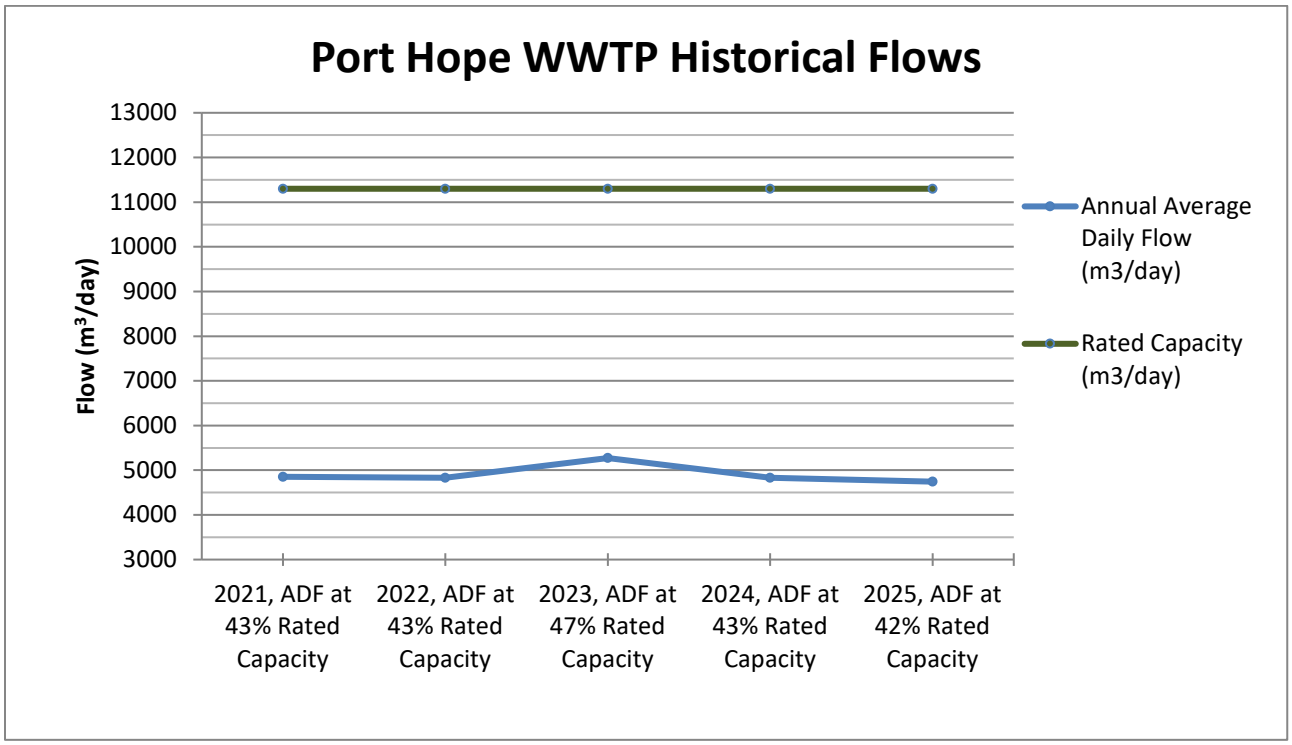
Table B - Summary of Influent Flows

	Monthly Total Flow (m^3)	Average Daily Influent Flow (m^3/day)	Max Daily Influent Flow (m^3/day)
January	128,774	4,135	5,583
February	102,991	3,678	4,463
March	237,778	7,670	14,575
April	211,133	7,038	18,097
May	228,835	7,382	20,375
June	135,620	4,521	6,376
July	116,367	3,758	4,358
August	106,261	3,428	5,334
September	104,295	3,477	4,109
October	110,355	3,560	4,424
November	111,331	3,711	4,438
December	141,625	4,569	12,104

2025 Total Influent Flow = 1,735,365 m^3/year
2025 Annual Average Daily Influent Flow (ADF) = 4,744 m^3/day
2025 Maximum Daily Influent Flow = 20,375 m^3/day

On average, the facility operates at 42% of Rated Capacity throughout reporting period.

Figure 1 - Historical Flow Comparison



Rated Capacity of Port Hope Wastewater Treatment Plant = 11,300 m^3/day
3-year Average Daily Flow = 4.906 m^3/day (43% of Rated Capacity)
5-year Average Daily Flow = 4,949 m^3/day (44% of Rated Capacity)

Table C - Imported Sewage (Septage Receiving) Monitoring Data

	Total Volume (m^3)	Monthly Average BOD^5 (mg/L)	Monthly Average TSS (mg/L)	Monthly Average TP (mg/L)	Monthly Average TKN (as N mg/L)
January	764	4180	2290	33.4	306
February	821	4310	18200	149	486
March	1084	927	2160	43.9	434
April	1624	4600	1990	44	271
May	1503	8990	23400	170	1070
June	1432	4910	29000	156	1060
July	1398	8940	27300	510	4720
August	1141	6700	17000	459	1680
September	1105	11600	4380	410	3970
October	1610	601	250	27	151

	Total Volume (m^3)	Monthly Average BOD^5 (mg/L)	Monthly Average TSS (mg/L)	Monthly Average TP (mg/L)	Monthly Average TKN (as N mg/L)
November	1453	3180	20900	225	978
December	1223	8020	6960	46	950
Total	**15157**				
Average	**1263**	**5580**	**12819**	**189**	**1340**
3-year Average	**11054**	**3678**	**11921**	**116**	**706**
5-year Average	**10828**	**3081**	**9879**	**97**	**565**

(b) Final Effluent Monitoring Program Summary

The following Tables D, E, and F list a summary of final effluent concentration results in comparison to final effluent objectives and limits as per Schedule B and Schedule C, a tabulation of un-ionized ammonia monthly average calculations, and a performance assessment of raw influent - final effluent removal efficiencies.

Effluent grab samples are collected and analyzed for acute lethality to rainbow trout and daphnia magna. With approval from the Ministry, as per Condition 5, monitoring frequency in respect of acute lethality to rainbow trout and daphnia magna can be reduced to annually, if desired. In 2025, semi-annual grab samples were collected and analyzed. Both samples resulted in a 0% mortality rate for both rainbow trout and daphnia magna.

In determining compliance with total chlorine residual limits, the following data is analyzed: DPD colorimeter grab sample results.

Table D - Summary of Monthly Final Effluent Concentrations

	Carbonaceous Biochemical Oxygen Demand (CBOD[5]) (mg/L)	TSS (mg/L)	TP (mg/L)	Geometric Mean Density of E. Coli (cfu/100ml)	Monthly MIN pH	Monthly MAX pH	Total Ammonia Nitrogen[1] (TAN) (mg/L)	Calculated Monthly Average Unionized Ammonia (mg/L)	Maximum Total Chlorine Residual (mg/L)
Design Objective	**15.0**	**15.0**	**0.8**	**100**			MAY 1 to NOV 30: 6.0 DEC 1 to APR 30: 12.0	**20**	**Non-Detectable**
Compliance Limit(s)	**25.0**	**25.0**	**1.0**	**200**	**6.0-9.5**	**6.0-9.5**	**No Limit**	**No Limit**	**>0.02**
January	2	8	0.13	1	6.66	7.93	0.10	0.16	0.02
February	4	6	0.16	4	6.54	8.90	0.10	0.08	0.02
March	3	6	0.16	9	6.68	7.10	0.10	0.22	0.02
April	2	9	0.14	24	6.65	7.19	0.10	0.10	0.02
May	2	8	0.16	18	6.48	7.05	0.10	0.22	0.02
June	2	6	0.15	11	6.46	7.03	0.10	0.10	0.02
July	2	6	0.19	2	6.30	6.83	0.10	0.06	0.02
August	2	9	0.23	27	6.25	7.10	0.10	0.07	0.02
September	2	5	0.29	2	6.38	7.05	0.10	0.05	0.02
October	2	4	0.27	2	6.39	6.77	0.10	0.03	0.02
November	3	5	0.09	0	6.37	6.91	0.10	0.02	0.02
December	2	7	0.196	1	6.31	7.17	0.12	0.06	0.02
Average	**2.4**	**6.5**	**0.18**	**8.5**			**0.10**	**0.10**	
Minimum	**2.0**	**3.6**	**0.09**	**0.0**	**6.25**		**0.10**	**0.03**	
Maximum	**3.5**	**8.8**	**0.29**	**26.9**		**8.90**	**0.12**	**0.22**	**0.02**

[1] The results of the total ammonia concentration, pH and temperature, at the time of sampling, were used for the calculation of the un-ionized ammonia.

Table E - Port Hope Wastewater Treatment Plant Performance Assessment

	BOD^5 Influent (mg/L)	$CBOD^5$ Effluent (mg/L)	TSS Influent (mg/L)	TSS Effluent (mg/L)	TSS %Removal	TP Influent (mg/L)	TP Effluent (mg/L)	TP %Removal
January	275	2.3	275	7.8	97.2%	4.00	0.13	96.9%
February	213	3.5	181	6.0	96.7%	3.77	0.16	95.8%
March	129	2.5	130	6.3	95.2%	2.34	0.16	93.3%
April	186	2.4	151	8.6	94.3%	2.26	0.14	93.8%
May	160	2.3	131	8.3	93.7%	2.50	0.16	93.8%
June	213	2.3	238	6.0	97.5%	3.47	0.15	95.6%
July	283	2.0	378	6.0	98.4%	5.07	0.19	96.2%
August	265	2.3	245	8.8	96.4%	4.56	0.23	95.0%
September	251	2.3	223	4.5	98.0%	4.47	0.29	93.5%
October	272	2.0	294	3.6	98.8%	3.81	0.27	93.0%
November	252	3.3	232	4.8	98.0%	3.80	0.09	97.6%
December	194	2.4	157	7.0	95.5%	3.15	0.20	93.8%
Average	**242**	**2.5**	**227**	**5.0**	**96.6%**	**3.81**	**0.21**	**94.9%**

Table F – Summary of Final Effluent Flows

	Monthly Total Flow (m^3)	Average Daily Final Effluent Flow (m^3/day)	Max Daily Final Effluent Flow (m^3/day)
January	122,321	3,946	4,883
February	116,358	4,156	6,049
March	278,839	8,995	65,692
April	189,850	6,328	16,341
May	201,326	6,494	17,384
June	120,908	4,030	5,461
July	112,460	3,628	4,307
August	105,247	3,395	5,270
September	109,238	3,641	4,763
October	118,076	3,809	4,823
November	117,480	3,916	4,450
December	140,417	4,681	11,071

2025 Total Final Effluent Flow = 1,732,521 m^3/year

(c) Operating Problems and Corrective Actions

Table G - Summary of Operating Problems Encountered and Corrective Actions Taken

The number of operating problems occurring during the reporting period equals two (2). If applicable, operating problems are itemized below with corresponding steps taken to address them.

Date	Operating Problem	Corrective Action Taken
January 23, 2025	Higher than normal sludge depths found in secondary clarifier #2.	Wastewater Operator found the chain and flight system not running on side two (2) of the clarifier. After investigation, it was discovered that the chain and flight sensor had overloaded and tripped due to slack in the chain. The sensor was reset and two chain links were removed to reduce the slack.
November 18 to December 15, 2025	Light tan coloured foam started to build up on the water surface of the aeration tanks.	To increase the mixed liquor suspended solids (MLSS) in the aeration tanks (for winter operations), a light-coloured surface foam began to build up. To mitigate the foam issue, Wastewater Operators increased the rate of the Waste Activated Sludge (WAS) pumping to reduce the MLSS and completed a manual transfer of

Date	Operating Problem	Corrective Action Taken
		sludge from digester #1 to digester #2 to make room for the increase in waste pumping. Wastewater Operators also increased the amount of sludge dewatering from digester #2 by running the centrifuge on a more frequent basis. By mid-December the foam dissipated as the MLSS dropped enough to optimize the aeration operation.

(d) Summary of Major Maintenance Activities
The Municipality maintains an active maintenance management program, for general maintenance and repair, to ensure that the facilities are maintained in a fit state of repair. In addition to this program, major works were upgraded or replaced as follows.

1. February 5, 2025 - Administrative building hot water tank replacement.
2. February 11, 2025 - Alum pump # 3 replacement.
3. April 14, 2025 - RAS pump #3 major maintenance and repair.
4. April 28, 2025 - Onsite Pumping Station level meter replacement.
5. May 1, 2025 - Process building HVAC unit replacement.
6. May 2, 2025 - WWTP back-up generator major maintenance and repair.
7. June 4, 2025 - Scum pump #2 major maintenance and repair.
8. June 16,2025 - Septic receiving station valve and actuator replacement.
9. October 14, 2025 – Sodium hypochlorite chemical pump #2 replacement.
10. November 17, 2025 - Aeration #2 mixer major maintenance and repair.
11. December 11, 2025 - Administrative building HVAC unit replacement.
12. December 17, 2025 - Aeration blower #2 major maintenance and repair.

All maintenance was performed on behalf of the Owner, by licenced Operators or qualified contracted services providers who exercise due diligence in ensuring the Works and the related equipment are properly operated and maintained to achieve compliance with the Approval. Daily rounds of the WWTP and pumping stations are conducted by the Operators, and any observations are being recorded.

(e) Effluent Quality Assurance/Control Measures
Final effluent quality assurance is maintained by utilizing accredited laboratories (SGS Environmental Services and Nautilus Environmental) for analysis of all final effluent parameters. Sampling requirements are issued to plant personnel that denote required

parameters and frequency of sampling. A spreadsheet is used to track in-house lab results to perform several calculations used to monitor and measure the effectiveness of the treatment plant performance.

(f) Calibration and Maintenance on Monitoring Equipment
Calibration of the flow meters, lab equipment, and analyzers were conducted as per regular annual maintenance. Cleaning of effluent monitoring equipment is performed on a regular routine basis. Accuracy of effluent monitoring equipment operation was confirmed by onsite lab effluent samples analysis and offsite third-party accredited laboratory analysis.

Table H - Summary of Calibration and Maintenance of Monitoring Equipment

Analyzer	Location	Date Calibrated/Serviced	Calibrated/Serviced by Whom
Influent flow meter – vortex #1	WWTP	October 16, 2025	Franklin Empire, Mitch Manley
Influent flow meter – vortex #2	WWTP	October 16, 2025	Franklin Empire, Mitch Manley
Septage flow meter	WWTP	October 15, 2025	Franklin Empire, Mitch Manley
Bypass flow meter	WWTP	October 16, 2025	Franklin Empire, Mitch Manley
Centrifuge	WWTP	October 15, 2025	Franklin Empire, Mitch Manley
RAS to aeration flow meter	WWTP	October 15, 2025	Franklin Empire, Mitch Manley
Polymer	WWTP	October 15, 2025	Franklin Empire, Mitch Manley
WAS to aeration flow meter	WWTP	October 15, 2025	Franklin Empire, Mitch Manley
Final effluent flow meter	WWTP	July 29, 2025	Tower Electronics Canada Inc., Dan Matchett
Gas detector	WWTP	October 15, 2025	Franklin Empire, Mitch Manley
Dissolved oxygen (DO)	WWTP	May 6, 2025	Cancoppas, James Griffin
Lab equipment, portable pH, turbidimeter, spectrophotometer, colorimeter, portable DO	WWTP	June 9, 2025	Nichol Water Services, Randy Nichol
ORPs – pre and post dechlorination	WWTP	December 11, 2025	Franklin Empire, Mitch Manley
Composite samplers	WWTP	September 9, 2025	Avensys Solutions, Amardeep Singh

(g) Summary of Efforts Made to Achieve Design Objectives

Municipal staff put forth all efforts to operate the plant at maximum removal efficiencies and within the rated capacity of the facility. The final effluent design objectives in Schedule B were consistently met for $CBOD^5$, total phosphorus, e. coli, total suspended solids, total ammonia nitrogen, toxicity to rainbow trout and daphnia magna, and total residual chlorine. See Table D of this report for a summary of monthly final effluent concentrations.

No overflow or bypass events occurred within the reporting period, and the average day influent flows were well within the rated capacity of the wastewater treatment plant. Final effluent was observed to be essentially free of floating and settable solids and did not appear to contain oil or any other substance in amounts sufficient to create a visible film, sheen, or discolouration of the receiving waters.

(h) Summary of Sludge Generation

The following Tables I, J, and K list the volume of sludge generated, total suspended solids, nutrient, and metal analysis. The anticipated volume for the next reporting period is not expected to be appreciably different from this reporting period. No change is expected from the current sludge handling methods. In 2025, transportation companies, Wakely Transportation Services (C. of A. A840183) and Don Oliver Excavating (C. of A. A841032) transported the sludge to a private contractor, GFL Environmental Inc. (ECA# 5948-7JRMAJ) disposal area.

Table I - Aerobic Digested Sludge Generated

	Volume (m^3)
January	1410
February	1971
March	2042
April	1899
May	1727
June	1571
July	2020
August	1779
September	1179[2]
October	1032[2]
November	1406
December	1418
Total Volume	**19454**
Average	**1621**
3-year Average Total Volume	**16823**

[2] The volume is estimated due to faulty centrifuge sludge feed flow meter.

	Volume (m^3)
5-year Average Total Volume	**16084**

Table J - Aerobic Digester Sludge Solids/Nutrient Analysis

	Total Solids (mg/L)	Total Phosphorus (mg/L)	Ammonia + Ammonium (N) (as N mg/L)	Nitrite + Nitrates (as N) (mg/L)	TKN (as N mg/L)	E. Coli (cfu/1g dried weight)
January	18900	465	8	46	1080	93482
February	18400	479	9	27	1070	135202
March	14100	299	32	3	890	98533
April	16100	376	4	3	908	90954
May	15800	369	4	3	697	18491
June	16500	414	8	3	824	20636
July	15700	307	5	3	230	13846
August	13500	397	1	3	904	13504
September	12700	408	3	8	504	26538
October	15400	407	3	3	762	37403
November	18000	455	4	6	954	113423
December	15400	384	14	22	1090	35864
Average	**15875**	**397**	**8**	**11**	**826**	**58156**

Table K - Aerobic Digested Sludge Metal Analysis

	As	Cd	Co	Cr	Cu	Hg	Mo	Ni	Pb	Se	U	Zn
January	0.1	0.018	0.04	0.40	10.5	0.0	0.19	0.36	0.3	0.1	0.3	11.1
February	0.1	0.013	0.03	0.34	10.0	0.0	0.16	0.33	0.3	0.1	0.3	9.0
March	0.1	0.007	0.02	0.21	5.9	0.0	0.11	0.17	0.2	0.1	0.2	5.0
April	0.1	0.010	0.03	0.31	7.0	0.0	0.12	0.22	0.2	0.1	0.3	6.0
May	0.1	0.012	0.03	0.31	8.0	0.0	0.11	0.21	0.2	0.1	0.3	6.0
June	0.1	0.014	0.03	0.33	8.6	0.0	0.12	0.22	0.3	0.1	0.3	7.0
July	0.1	0.011	0.02	0.27	6.6	0.0	0.08	0.19	0.2	0.1	0.3	6.0
August	0.1	0.014	0.02	0.30	7.8	0.0	0.10	0.19	0.3	0.1	0.2	10.0
September	0.1	0.016	0.03	0.34	8.6	0.0	0.12	0.25	0.4	0.1	0.3	11.0
October	0.1	0.021	0.03	0.32	9.4	0.0	0.15	0.26	0.4	0.1	0.3	12.0
November	0.1	0.025	0.03	0.38	9.6	0.0	0.16	0.31	0.4	0.1	0.3	13.0
December	0.1	0.020	0.03	0.33	8.4	0.0	0.14	0.28	0.4	0.1	0.2	10.0
Average	**0.1**	**0.015**	**0.03**	**0.32**	**8.4**	**0.0**	**0.13**	**0.25**	**0.3**	**0.1**	**0.3**	**8.8**

Note: As is Arsenic; Cd is Cadmium; Co is Cobalt; Cr is Chromium; Cu is Copper; Hg is Mercury; Mo is Molybdenum; Ni is Nickel; Pb is Lead; Se is Selenium; U is Uranium; Zn is Zinc. All values expressed in mg/L unless otherwise specified.

(i) Summary of Complaints Received

The number of complaints received during the reporting period, January 1-December 31, 2025, regarding the Wastewater Treatment Plant and On-site Pumping Station was zero (0).

Date of Complaint	Address	Complaint	Steps Taken to Address Complaint

(j)Summary of all By-passes, Spills or Abnormal Discharge Events
There were no environmental incidents, such as by-passes, spills, or abnormal discharges, to be reported for 2025.

Table L - Incidents of By-passes, Spills or Abnormal Discharges including Maximum Sampling Results During Event, if applicable

Date	Approx. Duration (hours)	Type of Bypass/Overflow/ Spill, Abnormal Discharge Event	Volume	$CBOD^5$	TSS	Total Cl_2[3]	TP	E. coli (cfu/ 100mL)	pH (no unit)

(k) Notice of Modifications
The number modifications completed as a result of paragraph 1.d. of Condition 10, including a report on status of implementation of all modifications totals zero (0). If applicable, completed modifications are itemized below with a corresponding status report on the implementation of each modification.

Date Initiated	Description of Modification	Status	Date Completed/Expected Completed

(l) Efforts to Achieve Conformance with Procedure F-5-1 - Determination of Treatment Requirements for Municipal and Private Sewage Treatment Works

During the 2025 reporting period, there were no incidents of a bypass or overflow at the Port Hope Wastewater Treatment Plant and therefore no new proposed projects to eliminate bypasses or overflows are forecasted for the 2026 reporting period.

(m) Summary of Maintenance, Inspections and Monitoring Details
No additional information to report.
No Ministry Inspection occurred during the reporting period.

[3] Total Cl_2 is Total Chlorine Residual. All values expressed in mg/L unless otherwise specified.

APPENDIX A –
Copy of Notice of Modification to Sewage Works