ONTARIO CLEAN WATER AGENCY
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2025 Annual Performance Report for the Haileybury Sewage Treatment System & Sewage Collection System

January 1, 2025 to December 31, 2025

PREPARED BY

Ontario Clean Water Agency
on behalf of the City of Temiskaming Shores

March 19, 2026
Rev: 0

Revision History

Rev. No.	Date	Prepared by:	Approved by:	Description
0	March 19, 2026	I. Bruneau, PCT	B. Logan, Senior Operations Manager	Revision 0 issued

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Executive Summary

The Haileybury Sewage Treatment System is located at 275 View Street in the community of Haileybury within the City of Temiskaming Shores. The sewage treatment plant is designed to treat a daily average flow of 2728 m^3/day and a peak flow of 7392 m^3/day. It is classified as a Class 2 wastewater treatment system under Ontario Regulation 129/04 and operates under Environmental Compliance Approval (ECA) No. 7579-BTFKMN for Municipal and Private Sewage Works issued on September 18, 2020.

The Haileybury Sewage Collection System is a Class 1 wastewater collection system under Ontario Regulation 129/04 that follows the requirements of ECA No. 218-W601 for Municipal Sewage Collection Systems issued on October 27, 2023.

This report summarizes the requirements of each Approval and describes the system's operational performance to demonstrate the production of quality effluent.

The Haileybury sewage treatment system operated well in 2025 producing a high quality effluent that met the effluent limits and objectives specified in the system's ECA.

The system met the rated capacity limit having an annual average daily flow to the treatment plant of 1678 m^3, which is 62% of the rated capacity. The total volume of influent flow measured in 2025 was 612,646 m^3.

One (1) loss of chlorination event occurred at the sewage treatment plant during the reporting period which his described in Section 10.

All requirements specified in the system's ECA and any issues experienced at the facility are further explained throughout the report.

Introduction

Condition 11(4) of ECA No. 7579-BTFKMN for the Haileybury Sewage Treatment Plant requires the Owner to prepare and submit a performance report to the Ministry of the Environment's District Manager on an annual basis by March 31st for the preceding calendar year. The 2025 Annual Performance Report was prepared by the Ontario Clean Water Agency (OCWA) on behalf of the City of Temiskaming Shores and is based on information kept on record by OCWA. The report has been completed in accordance with the approval and contains, but is not limited to the following information outlined in the ECA:

- A summary and interpretation of all influent monitoring data and a review of the historical trend of the sewage characteristics and flow rates;
- A summary and interpretation of all final effluent monitoring data, including concentration, flow rates, loading and a comparison to the design objectives and compliance limits in this Approval, including an overview of the success and adequacy of the Works;
- A summary of any deviation from the monitoring schedule and reasons for the current reporting year and a schedule for the next reporting year;
- A summary of all operating issues encountered and corrective actions taken;
- A summary of all normal and emergency repairs and maintenance carried out on any major structure, equipment, apparatus or mechanism forming part of the Works;
- A summary of any effluent quality assurance or control measures undertaken;
- A summary or the calibration and maintenance carried out on all influent monitoring equipment to ensure that the accuracy is within the tolerance of that equipment as required in this Approval or recommended by the manufacturer;
- A summary of efforts made to achieve the design objectives in the Approval, including an assessment of the issues and recommendations for proactive 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;
- 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;
- A summary of any complaints received and any steps taken to address the complaints;
- 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;

- A summary of all Notice of Modifications to Sewage Works completed under paragraph 1.d of Condition 10, including a report on the status of implementation of all modifications;
- 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 bypass/overflow elimination including expenditures and proposed projects to eliminate bypass/overflows with estimated budget forecast for the year following that for which the report is submitted;
- Any changes or updates to the schedule for the completion of construction and commissioning operation of major process(es)/equipment groups in the Proposed Works.

Condition 4.0(4.6) of the ECA No. 218-W601 for the Haileybury Sewage Collection System requires the Owner to prepare and submit an annual performance report to the Ministry of the Environment's Director on or before March 31st of each year and covers a period from January 1st to December 31st of the preceding calendar year. This report must include, but is not limited to the following information;

- 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;
- Includes a summary of any operating problems encountered and corrective actions taken;
- 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;
- Includes a summary of any complaints related to the Sewage Works received during the reporting period and any steps taken to address the complaints.
- 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;
- Includes a summary of all Collection System Overflow(s) and Spill(s) of Sewage, including: dates, volumes and durations. If applicable, loadings for total suspended solids, BOD_5, total phosphorus, and total Kjeldahl nitrogen, and sampling results for *E.coli*, disinfection, if any and any adverse impact(s) and any corrective actions, if applicable;
- 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) If applicable, details of the establishment and maintenance of a Pollution Prevention Control Plan (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.

The two reports have been merged into one and is presented as the 2025 Annual Performance Report. The report was prepared by the Ontario Clean Water Agency (OCWA) on behalf of the City of Temiskaming Shores and is based on information kept on record by OCWA.

1 System Description

Sewage System Name:	**Haileybury Sewage Treatment System**
Sewage System Works Number:	110000310
Sewage System Address:	275 View Street, Haileybury Ontario
Sewage System Owner:	Corporation of the City of Temiskaming Shores
Sewage Treatment ECA:	7579-BTFKMN, issued September 18, 2020
Sewage Collection ECA:	218-W601, issued October 27, 2023
Reporting Period:	January 1, 2025 to December 31, 2025

Capacity of Works:	2728 m^3/day annual average, 7392 m^3/day peak
Service Area:	Community of Haileybury
Service Population:	4200
Effluent Receiver:	Lake Timiskaming
Major Process:	Activated Sludge and Extended Aeration Sewage Treatment Plant

The Haileybury Sewage Treatment Plant is a Class 2 wastewater treatment plant located at 275 View Street in the City of Temiskaming Shores. It serves a population of approximately 4200 residents within the community of Haileybury and has an average rated capacity of 2728 m^3/day and peak flow capacity of 7392 m^3/day. The facility consists of two is an extended aeration treatment trains; Unit 1 constructed in 1965 and Unit 2 constructed in 1984. The wastewater treatment plant consists of the following:

Inlet Headworks – is comprised of a grit channel, manual coarse bar screens, and a flow splitting weir to divide the raw sewage flow into two (2) parallel treatment Units, 1 and 2. There is an emergency overflow weir with a 450 mm diameter by-pass pipe to the chlorine contact tank (Treatment Unit #2).

The Control Building – inside the building there are two (2) air blowers, one duty and one standby, that supply compressed air to fine bubble diffusers in the aeration tanks and sludge holding tanks (aerobic digester), and pumps in both Treatment Units #1 and #2 to transfer sludge from the holding tanks for disposal.

The chemical feed system is comprised of two (2) chemical storage tanks and two (2) feed pumps for sodium hypochlorite injection into both chlorine contact chambers. The system is used seasonally from May 1st to November 1st each year.

There is one 200 kW emergency standby diesel generator located just outside the building. This stand-by generator can maintain all aspects of the operation during a power outage.

Treatment Units – Treatment Unit #1 has a rated capacity of approximately 1120 m^3/day (peak flow of 3032 m^3/day) and Treatment Unit #2 has a rated capacity of approximately 1610 m^3/day (peak flow of 4360 m^3/day). Both Treatment Units contain; a grinder unit equipped with emergency overflow provisions, aeration tanks equipped with fine air bubble diffusers, clarifier tanks, chlorine contact chambers for seasonal disinfection from May 1st to October 31st, sludge holding tanks (aerobic digestion) equipped with medium/coarse air bubble diffusers and a flow measurement system consisting of an ultrasonic flow metering device (Milltronics) over a weir. One outfall sewer combines the effluent from both treatment units prior to discharging into Lake Temiskaming.

Dechlorination System – A temporary dechlorination system consisting of a chemical solution (sodium bisulphite) and a pace-to-flow chemical pumping system is used to reduce the effluent total chlorine residual levels to the Federal regulatory requirements set out in the Wastewater System Effluent Regulation (WSER) effective January 1, 2021 (<= 0.02 mg/L). The injection point is located on piping where the effluent from the two plants combine before discharging into Lake Timiskaming.

Digester – Two digesters produce aerobic sludge which is hauled to the New Liskeard Lagoon for disposal (approved under ECA No. 5103-CDFJWC). The New Liskeard Lagoon ECA allows a maximum sludge volume of 8800 m^3/year that can be imported from the Haileybury sewage treatment plant to the sludge storage lagoon.

The Haileybury sewage collection system consists of truck sewers, separate sewers, nominally separate sewers, forcemains and two (2) sewage pumping stations that direct sanitary sewage to the Haileybury sewage treatment plant. One station is located on Farr Drive and the other on Brewster Street.

Farr Drive SPS is located at 299 Farr Drive. The station consists of a 32.6 m^3 concrete wet well that is equipped with two (2) suction pipes that are connected to two (2) dry mounted pumps (one duty and one standby) with variable frequency drives. Each pump is rated at 139 L/s at TDH of 19.5 m. The station has an emergency overflow pipe that discharges to Lake Temiskaming. The station is powered by a motor control center (MCC) and is fully controlled by a PLC SCADA system. A 200 mm diameter force main directs sewage from the pumping station to the Haileybury wastewater treatment plant.

Back up power is fed to the station by an over head power line fed from a Diesel Generator located at the Haileybury sewage treatment plant.

Brewster Street SPS is located on the corner Lakeshore Road and Brewster Street. The station consists of a 4.4 m diameter by approximately 10 meter deep fiberglass wet well with a capacity of 46.7 m^3. It is equipped with two (2) submersible pumps, (one duty and one stand-by). Each pump has a rated capacity of 24.7 L/s at a TDH of 10.2 m, complete with an ultrasonic transducer with back-up float level switches, control panel, provision for connection to a portable generator, ventilation pipes, discharge piping, valves and all other appurtenances to allow for the complete operation of the pumping station. The station is powered by a motor control center (MCC) and is fully controlled by a PLC SCADA system.

During normal flow conditions, the wastewater is pumped to the Farr Drive sewage pumping station. During high flow events, a 30 kW portable diesel generator is installed to allow the wastewater to continue to be pumped to the Farr Drive sewage pumping station.

2 Monitoring Program

2.1 Monitoring Program as Outlined in the Environmental Compliance Approval

Table 1: Analytical Parameters

BOD_5	Five Day Biochemical Oxygen Demand – is measured in an unfiltered sample; includes carbonaceous and nitrogenous oxygen demand. It refers to the amount of oxygen consumed by organic matter in a specific volume of water at a specific temperature over a 5 day period. High BOD_5 in effluent means a large quantity of oxygen was needed to break down the organic matter and identifies a large amount of organic matter in the effluent indicating inadequate treatment.
$cBOD_5$	Five-day carbonaceous biochemical oxygen demand – represents the oxygen depletion associated with the biodegradation of organic compounds and the oxidation of inorganic compounds such as ferrous iron and sulphide within 5 day period and at a specific temperature. High $cBOD_5$ in sewage effluent means a large quantity of oxygen was needed to break down the organic and inorganic matter in the effluent indicating inadequate treatment.
TSS	Total Suspended Solids – the dry weight of suspended particles that are not dissolved in water and can be filtered. TSS is composed of settleable solids and non-settleable 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. High TSS may decrease water's natural dissolved oxygen levels and increase water temperature which may prevent organisms from surviving in the waters.
TP	Total Phosphorus – a measure of all phosphorus found in a sample, whether it is dissolved or particulate. Phosphorus is an essential nutrient that contributes to

Table 1: Analytical Parameters

	plant productivity. TP is commonly used to determine the health of water bodies and excess TP can stimulate algae and weed growth that may cause fluctuations in dissolved oxygen in the receiving waters.
TAN	Total Ammonia Nitrogen – the total amount of nitrogen in the forms of Ammonium (NH_4) and Ammonia (NH_3). Ammonia is one of several forms of nitrogen that exist in aquatic environments and can cause direct toxic effects on aquatic life. High levels of ammonia can corrode and damage critical pieces of infrastructure.
TKN	Total Kjeldahl Nitrogen – measures both total organic nitrogen and ammonium. Excess nitrogen in water bodies can lead to harmful algal blooms and other negative impacts on aquatic ecosystems.
NH_3	Un-ionized Ammonia - a neutral toxic form of nitrogen in an un-ionized state. Ammonia is an environmental concern, especially because of its danger to human or aquatic life.
DO	Dissolved Oxygen – the amount of oxygen that is available in water to sustain life, including living bacteria.
E. coli	*Escherichia coli* – Thermally tolerant forms of Escherichia bacteria that can live in the intestines of humans and warm-blooded animals. There are hundreds of *E. coli* strains and most are relatively harmless, however a notorious exception is *E. coli* strain 0157:H7, an emerging pathogen that produces a powerful toxin and can cause severe illness. *E. coli* is used as the most widely adopted indicator of faecal pollution in water and wastewater.
pH	Potential of Hydrogen – expresses the degree or intensity of both acidic and alkaline reactions on a scale from 0 to 14 with 7 being neutral, number less than 7 signify increasingly greater acidic solutions, and numbers greater than 7 signify increasingly basic or alkaline reactions. 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.
TCR	Total Residual Chlorine – is the sum of the free chlorine residual and the combined available chlorine residual. Chlorine is the most widely used disinfectant for municipal wastewater because it destroys target organisms by oxidizing cellular material.

Table 2: Sampling Requirements for the Raw Sewage (Influent)

Parameter	Type of Sample	Minimum Frequency
BOD_5	24 hour composite	weekly
TSS	24 hour composite	weekly
TP	24 hour composite	weekly
TKN	24 hour composite	weekly

Table 3: Sampling Requirements for the Final Effluent

Parameter	Type of Sample	Minimum Frequency
$cBOD_5$	24 hour composite	weekly
TSS	24 hour composite	weekly
TP	24 hour composite	weekly
TAN (NH_3^- + NH_4 as N)	24 hour composite	weekly
E.coli	grab	weekly
DO	grab/field	weekly
pH	grab/field	weekly
Temperature	grab/field	weekly
TCR	grab/field	Daily
Unionized Ammonia	calculation	weekly

Notes:

TCR is measured daily from May 1 to October 31, except weekends and statutory holidays during seasonal disinfection.

pH and temperature of the Final Effluent are determined in the field at the time of sampling for Total Ammonia Nitrogen in order to calculate unionized ammonia.

Table 4: Influent and Effluent Monitoring Schedule

2025 Sample Schedule	2025 Actual Sample Dates	2026 Sample Schedule
Weekly on Wednesdays (Refer to Appendix A)	Refer to Appendix A	Weekly on Tuesdays (Refer to Appendix A)

2.2 Deviations from the Monitoring Program

In 2025, influent and effluent samples were collected on a rotational basis between 0800 hours to 1600 hours every Wednesday unless, it was holiday (i.e. Easter Monday, Canada Day, Christmas Day, New Year Day etc…) or samples did not arrive to the laboratory on time due to shipping issues or frozen samples upon delivery. Sample dates were never changed due to effluent quality.

Four (4) sampling deviations occurred during in 2025:

- **Scheduled Sample Date: Wednesday, March 5th** – samples were collected on Tuesday, March 4th due to a winter storm. To ensure operators safety, the Senior Operations Manager directed operations staff to collect samples on Tuesday, March 4th rather than the scheduled day of Wednesday, March 5th to prevent unnecessary travel during a storm.
- **Scheduled Sample Date: Wednesday, April 16th** – samples were collected on Tuesday, April 15th to prevent holiday charges on Good Friday (statutory Holiday).
- **Scheduled Sample Date: Wednesday, December 24st** – samples were collected on Monday, December 22nd to allow the samples to be shipped to the laboratory for December 24th for processing. December 25th was a statutory holiday.
- **Scheduled Sample Date: Wednesday, December 31st** – samples were collected on Monday, December 29th to allow the samples to be shipped to the laboratory for December 31st for processing. January 1st was a statutory holiday.

Sampling will occur on every Tuesday in 2026 because regular sampling on Mondays is not practical. On Mondays, operation staff are focused on maintaining, monitoring and performing routine water quality sampling at water treatment systems across the cluster to ensure safe and reliable drinking water to consumers

Thursday and Friday could result in extra weekend charges, not to mention, if the sample didn't arrive at the laboratory due to courier issues or freezing then the system would be out of compliance with no opportunity to resample for the week. Sampling on the weekend is also not feasible due to excess shipping, lab and overtime charges.

Refer to Appendix A for the 2025 and 2026 sample schedule for the Haileybury Sewage Treatment System.

3 Interpretation of Monitoring and Analytical Data

3.1 Influent Flow

The influent flow is a measurement based on the total volume of wastewater taken in each day. Influent flows are estimated using the flow measurements of the final effluent as the flow streams are not significantly different in flow rates and quantities.

The rated capacity of the Haileybury Sewage Treatment Plant is of 2728 m^3/day (average daily flow). The average daily flow is defined as the cumulative total sewage flow of influent into the sewage treatment plant during a calendar year divided by the number of days during which sewage was flowing to the sewage treatment plant that year.

Compliance is achieved when the annual average daily flow does not exceed 2728 m^3/day or a peak design flow of 7392 m^3/day. The annual average daily flow for 2025 was 1678 m^3/day, which represents 62% of the rated capacity. A peak flow of 11,233 m^3/day was reached on March 16th during heavy rain and snow melt.

The total amount of sewage received by the plant in 2025 was 612,646 m^3.

In the last 16 years the system reached or exceeded 80% of the average rated capacity three times; in 2010 (80%), 2011 (82%) and in 2019 (81%).

In an effort to keep annual flows below 80%, the City has a program in place to reduce infiltration using municipal service permits that address proper connections to the sanitary sewer system for new construction. They conduct routine maintenance and perform regular camera inspections of the sanitary sewer system to identify sources of inflow, infiltration and restrictive conditions. Also, the frequency and duration of bypass and overflow events are monitored which will help determine steps to reduce the infiltration into the system.

Table 5 and Figure 1 compares the monthly influent flow rates recorded in 2025 to the rated capacity and peak capacity of the plant.

Flow trends are critical to assessing the adequacy of size of the treatment system. Figure 2 shows both the annual average and annual peak values from 2010 to 2025 plotted against the rated capacity and peak flow capacity of the wastewater system.

3.1.1 Monthly Influent Flows

Table 5: Comparison of the Monthly Influent Flows to the Rated Capacity

Month	Total Influent Flow (m^3/d)	Average Daily Influent Flow (m^3/d)	% of the Avg. Capacity (2728 m^3/d)	Maximum Influent Flow (m^3/d)	% of the Max. Capacity (7392 m^3/d)
January	46,341	1495	55%	3188	43%
February	30,141	1076	39%	1195	16%
March	73,502	2371	87%	11,233	152%**
April	134,104	4470	164%*	9494	128%**
May	67,410	2175	80%	5958	81%
June	45,751	1525	56%	2604	35%
July	46,886	1512	55%	4348	59%

Month	Total Influent Flow (m^3/d)	Average Daily Influent Flow (m^3/d)	% of the Avg. Capacity (2728 m^3/d)	Maximum Influent Flow (m^3/d)	% of the Max. Capacity (7392 m^3/d)
August	35,235	1137	42%	1576	21%
September	31,998	1067	39%	1314	18%
October	34,955	1128	41%	1962	27%
November	32,870	1096	40%	1455	20%
December	33,454	1079	39%	2168	29%

* Snow melt and heavy rainfall resulted in the system exceeding its average rated capacity in April.

** Snow melt and/or heavy rainfall caused the plant to exceed its maximum rated capacity in March and April.

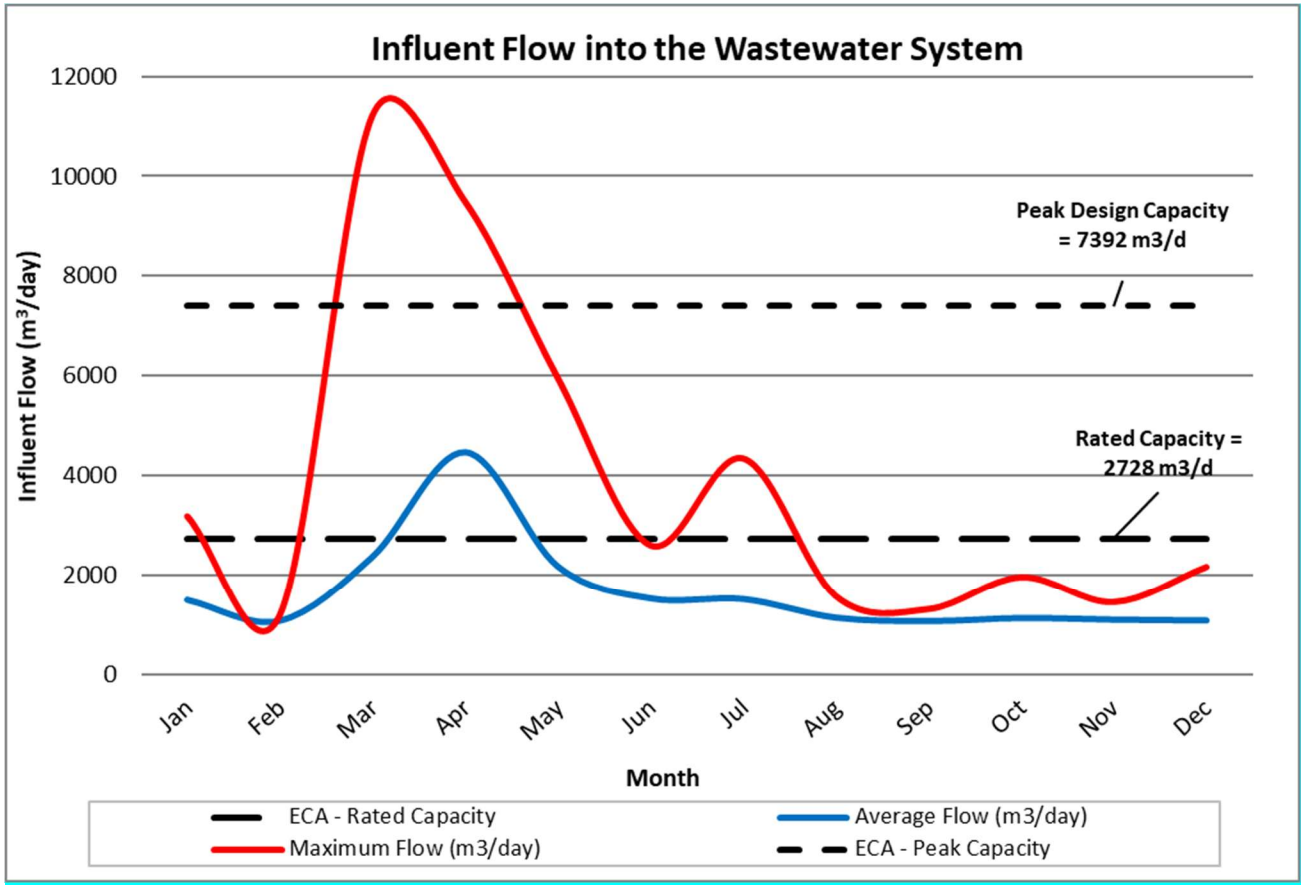


Figure 1 – 2025 Influent Flow into the Haileybury Sewage Treatment Plant

3.1.2 Annual Influent Flows

Table 6: Comparison of the Annual Influent Flow to the Rated Capacity

Rated Design Capacity (m^3/day)	2728	Maximum Flow Capacity (m^3/day)	7392
2025 Average Flow (m^3/day)	1678	2025 Maximum Flow (m^3/day)	11,233
Percent of Capacity (%)	62%	Percent of Capacity (%)	152%
Total volume of sewage influent in 2025		612,646 m^3	

3.1.3 Historical Influent Flows

Table 7: Comparison of Historical Influent Flows (2010 to 2025)

Year	Total Influent Flow (m^3/d)	Average Day Flow (m^3/d)	% of the Avg. Capacity (2728 m^3/d)	Maximum Influent Flow (m^3/d)	% of the Max. Capacity (7392 m^3/d)
2025	612,646	1678	62%	11,233	152%
2024	694,784	1898	70%	11,244	152%
2023	753,081	2063	76%	11,387	154%
2022	664,391	1820	67%	9615	130%
2021	626,414	1716	63%	9818	133%
2020	756,825	2068	76%	9606	130%
2019	802,526	2199	81%	12,029	163%
2018	600,743	1646	60%	8484	115%
2017	666,403	1826	67%	8253	112%
2016	656,451	1794	66%	8139	110%
2015	663,598	1818	67%	11,337	146%
2014	788,837	2161	79%	10,780	146%
2013	736,314	2017	74%	11,501	156%
2012	687,953	1880	69%	10,953	148%
2011	811,578	2224	82%	12,404	168%
2010	793,820	2175	80%	14,021	190%

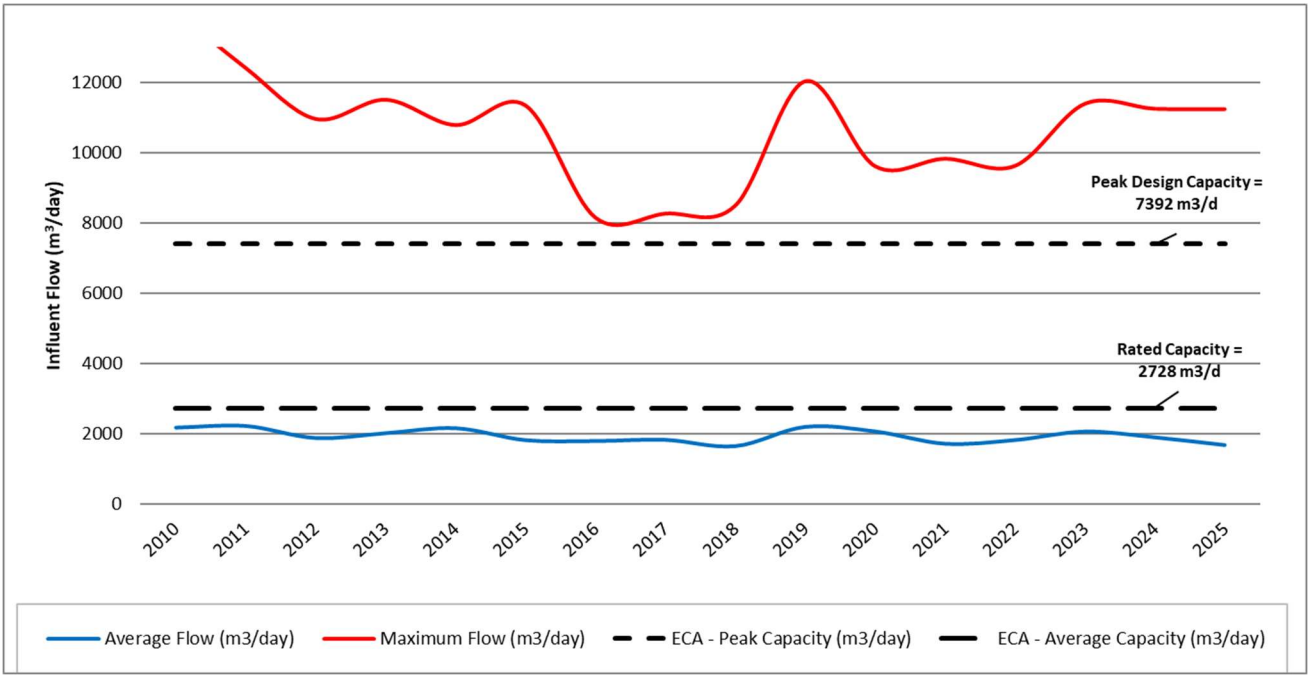


Figure 2 – Historical Influent Flow Trends (2010 to 2025)

3.2 Effluent Flows

The effluent from the clarifiers in both treatment trains passes through v-notch weirs equipped with milltronics measuring devices before discharging to Lake Temiskaming through a combined outfall. For this facility, the influent flow is measured using the effluent flows meters as the flow streams are similar in flow rate and quantity. A summary and interpretation of the flow data is found in Section 3.1.

3.3 Influent (Raw Sewage) Quality

The system's ECA indicates that 24 hour composite influent samples are to be collected on a weekly basis. This section summaries the annual average and annual maximum concentrations of analytical parameters tested in 2025. A monthly summary of the influent data is available in Appendix B.

Table 8: Influent Concentrations

Parameter	Annual Average	Annual Maximum
BOD_5 (mg/L)	84.9	332
TSS (mg/L)	144	1940
TP (mg/L)	2.23	8.66
TKN (mg/L)	22.0	53.4

"<" means values include results that were less than the laboratory's method detection limit

3.3.1 Historical Trends of Influent Characteristics

The characteristics of the raw wastewater influence the design and efficacy of the wastewater treatment process. Influent data and trend analyses for BOD_5, TSS, TP and TAN/TKN covering the period from 2010 to 2025 are presented in Appendix C.

The trends show that the average BOD_5 concentration varied from 44 to 153 mg/L over the last 16 years with a maximum level of 1100 mg/L in September 2022.

The average TSS concentration ranged from 46 to 363 mg/L with a maximum concentration of 11,800 mg/L in August 2022.

The average TP levels varied slightly from 1.4 to 3.8 mg/L with a maximum result of 24.6 mg/L in August 2022.

The average ammonia concentrations fluctuated from 8.8 to 26.0 mg/L with a maximum concentration of 60 mg/L in 2024.

3.4 Effluent Quality

The Haileybury sewage effluent quality is based on the carbonaceous biochemical oxygen demand ($cBOD_5$), total suspended solids (TSS), total phosphorus (TP), pH, total chlorine residual and *E.coli* levels. In 2025, the system produced a high quality effluent which met the compliance limits specified in the system's ECA. An annual summary of the final effluent parameter levels are shown in Table 9, along with the monthly *E.coli* levels. An annual summary of the effluent loadings are provided in Table 10.

Table 9: Effluent Concentrations

Parameter	Annual Minimum	Annual Maximum	Annual Average	Compliance Limit	Exceedance
$cBOD_5$ (mg/L)	< 0.50	46.0	< 2.57	25 (annual average)	No
TSS (mg/L)	< 0.67	232	< 8.46	25 (annual average)	No
TP (mg/L)	0.039	4.20	0.215	1.0 (annual average)	No
TAN (mg/L)	< 0.010	1.31	< 0.176	N/A	No
pH	6.19	7.83	7.11	6.0 to 9.5 (inclusive)	No
Dissolved Oxygen	3.69	11.3	8.97	N/A	N/A
Temperature (°C)	8.3	28.6	14.9	N/A	N/A
Un-ionized Ammonia (mg/L)	0.00002	0.00721	0.00067	N/A	N/A
TCR (mg/L) [1]	0.00	0.20	0.01	0.5 (maximum) [1]	No

Parameter	Monthly Minimum	Monthly Maximum	Monthly Average	Compliance Limit	Exceedance
E.coli (cfu/100mL)	1.4	25	8.7	200 (monthly MGM) [2]	No
E.coli (cfu/100mL)	1.4	51195	8673	Results for entire reporting period (monthly MGM)	N/A

"<" means values include results that were less than the laboratory's method detection limit.

cfu ≡ colony forming units.

NOTE 1: The Provincial total residual chlorine (TRC) limit of 0.5 mg/L (maximum at any time) only comes into effect when chlorination is carried out between May 1st and October 31st each year.

A Federal regulatory limit of <= 0.02 mg/L for total chlorine residual in wastewater effluent came into effect on January 1, 2021.

NOTE 2: The *E. coli* limit of 200 cfu/100mL as a monthly geometric mean (MGM) only comes into effect when chlorination is carried out between May 1st and October 31st each year. Minimum, maximum and geometric average results are calculated from results during this period.

Table 10: Effluent Loadings

Parameter	Annual Minimum	Annual Maximum	Annual Average	Compliance Limit (Annual Avg.)	Exceedance
$cBOD_5$ (kg/d)	< 0.864	38.1	< 4.37	68.2	No
TSS (kg/d)	< 1.24	117	< 14.2	68.2	No
TP (kg/d)	0.082	2.32	0.36	2.7	No

"<" means values include results that were less than the laboratory's method detection limit.

Appendix B includes a Monthly Process Data Report which summarizes the effluent monitoring and analysis conducted at the facility during the reporting period.

3.5 Sewage Treatment Program Success and Adequacy

The Performance Summary shows the efficiency of the plant performance through pollutant removal rates from raw sewage through to the final effluent.

Table 11 demonstrates that the system's treatment process was very successful in reducing the levels of BOD_5/$cBOD_5$, TSS, TP and total ammonia (TKN/TAN) from the influent, producing high quality effluent.

Table 11: Performance Summary

Parameter	Influent *(annual average)*	Effluent *(annual average)*	% Removal
BOD_5/$cBOD_5$ (mg/L)	84.9 (BOD_5)	< 2.57 ($cBOD_5$)	97%
TSS (mg/L)	144	< 8.46	94%
TP (mg/L)	2.23	0.215	90%
TKN/TAN (mg/L)	22.0 (TKN)	< 0.176 (TAN)	99%

4 Effluent Quality Assurance and Control Measures Undertaken

The following activities are included in regular operator and supervisory activities to assure high level performance of the sewage treatment operations including high effluent quality and accurate flow monitoring:

- Operational staff have current and appropriate level of certification for the operation of the facility and continue to learn and achieve knowledge of the process and equipment. Experienced staff has a high level of regulatory competence. New staff receives on-going training to achieve operational knowledge and regulatory competence.
- The pumping stations and the treatment plant are inspected by a certified OCWA operator regularly during the work week.
- Certified operators conduct daily reviews of selected data from continuous monitoring equipment which is captured on-site via data logging devices or by a remote monitoring system.
- In-house tests; pH, temperature, DO and total chlorine residual are conducted by licensed operators for monitoring purposes using standard methods for Water and Wastewater.
- Samples are collected as required and analyzed by Testmark Laboratories. Analysis of the samples is conducted in accordance with the Standard Council of Canada (SCC), in cooperation with the Canadian Association for Laboratory Accreditation Inc. (CALA).

Quality control procedures are method specific and include laboratory duplicate samples, spiked blanks and spiked duplicates.

- A sampling system which includes an excel developed sample calendar, which is updated at the beginning of each year, and a chain of custody binder are used to ensure all samples are collected as per the requirements identified in the system's ECA.
- Operations and Compliance staff review facility round sheets and laboratory reports to monitor the routine operation of the treatment system and ensure compliance with the ECA.
- All process and laboratory data is logged in a process data management system.
- Routine maintenance is scheduled and tracked to completion using OCWA's Workplace Maintenance System (WMS). Instrumentation equipment is tested and maintained as per manufacturer's recommendations.
- Certified operators monitor chemical usage and make adjustments as required.
- Sodium hypochlorite is added to the treatment process from May 1st to October 31st to reduce *E.coli* levels and sodium bisulphite is added to the effluent to lower the chlorine concentration before discharging to Lake Temiskaming.

  The Haileybury sewage effluent had a history of elevated *E. coli* levels during the seasonal disinfection period when trying to meet the Federal regulatory requirement for total chlorine residual set out in the Wastewater System Effluent Regulation (<= 0.02 mg/L; quarterly average). In May of 2022, a chemical solution (sodium bisulphite) and feed system was implemented to allow better operational control of the dechlorination process and improve the reduction of *E. coli* levels. No total chlorine residual or *E.coli* exceedances occurred in 2025 demonstrating that the control measure was effective.
- Any bypass, overflow or upset events that occur in the system are tested, monitored and reported to the local Health Unit and Spills Action Center (SAC).
- All flow, influent and effluent quality data is reviewed by the Overall Responsible Operator and Compliance staff to identify any changes in concentrations and/or emerging trends. All non-compliances are reported to Ministry's Spills Action Center (SAC) and the local MECP inspector.

5 Efforts Made to Meet Effluent Objectives

The Effluent Design Objectives represents the performance levels which can be achieved by treatment processes when operating under optimum conditions on normal strength municipal sewage. A sewage treatment facility should be able to produce effluent quality approximately equal to the Effluent Design Objectives, but should not exceed the Effluent Compliance Limits. The objectives are used to promote continuous improvement in the operations of the works and to trigger corrective action before environmental impairment occurs.

OCWA uses a number of best efforts to achieve the Effluent Objectives.

- Certified operational staff have a high level of process knowledge and regulatory proficiency.
- The mechanical elements in the facility are regularly inspected, well maintained and kept in good repair. OCWA uses a computerized maintenance management program which generates work orders to ensure maintenance of equipment is proactively performed.
- Raw wastewater and effluent samples are collected as required and analyzed by Testmark Laboratories, an accredited laboratory. OCWA reviews these results on a regular basis to confirm compliance with ECA objective and limits.
- In-house sampling and testing for selected operational parameters provides real-time results which are used to enhance process and operational performance.
- Operations, maintenance and emergency procedures are available to ensure facilities are operated in compliance with applicable legal instruments. Facility staff have access to a network of operational compliance and support experts at the region and corporate levels.
- Sodium hypochlorite is added to the treatment process from May 1st to October 31st to reduce effluent *E.coli* levels within regulatory limits and objectives.
- Sodium bisulphite is also added from May 1st to October 31st to ensure effluent total chlorine residuals are maintained within effluent limits and objectives.
- A five year rolling recommended capital and major maintenance report is used to assist the Owner and OCWA with planning infrastructure needs for the short and long terms. A letter summarizing capital work recommendations a provided to the Owner each year for their approval.

The systems' ECA requires a summary of efforts made to achieve the design objectives in the Approval, including an assessment of the issues and recommendations for proactive actions if any are required under the following situations:

- when any of the design objectives are not achieved more than 50% of the time in a year, or if there is an increasing trend in deterioration of final effluent quality;

During the reporting period, the Haileybury wastewater treatment plant consistently met the monthly effluent objectives for $cBOD_5$, TSS, TP and TAN. Effluent pH, total chlorine residual and *E.coli* also remained within the established design objective ranges. A summary of the monitoring results is presented in the table below.

Table 12: Effluent Concentration Objectives

Parameter	Annual Average	Objective	Averaging Period	Exceedance
$cBOD_5$ (mg/L)	< 2.57	15	Annual average	No

Parameter	Annual Average	Objective	Averaging Period	Exceedance
TSS (mg/L)	< 8.46	15	Annual average	No
TP (mg/L)	0.215	1.0	Annual average	No
TAN (mg/L)	< 0.176	10	Annual average	No

Parameter	Annual Results (min to max)	Objective	Averaging Period	Exceedance
pH	6.19 to 7.83	6.0 to 9.5	Inclusive	No
TRC (mg/L)	0.00 to 0.02	0.5	Single result [1]	No
E.coli (cfu/100 mL)	1.4 to 25	150	Monthly MGM [1]	No

"<" means values include results that were less than the laboratory's method detection limit.

cfu ≡ colony forming units.

NOTE 1: The *E. coli* objective of 150 cfu/100mL as a monthly geometric mean (MGM) and the TCR objective of 0.5 mg/L only comes into effect when chlorination is carried out between May 1st and October 31st each year.

6 Operating Problems & Corrective Actions

Operating problems encountered during 2025 are summarized below.

1. The Haileybury sewage treatment plant exceeded its peak design capacity for Train No. 1 and/or train No. 2 on six (6) occasions in 2025. Heavy snowmelt and /or rainfall caused the plant to exceed its allowable peak flow capacities on March 16th and 17th, April 14th, 15th and 19th and 26th. Refer to Table 12 under Section 10.2.

   Additional sampling was conducted for the above mentioned exceedances as required under Condition 9(2) of the system's ECA that requires daily effluent sampling on any day there is a situation outside normal operating conditions. Additional sampling results are included in the effluent monitoring.

2. Blower No. 1 failures occurred twice in 2025. Blower No. 2 was placed into service while the Blower No. 1 failures were investigated and corrected. Because these situations are considered abnormal operations, additional effluent sampling was performed.

3. A skimmer arm failure occurred on Plant No. 2. The arm was removed and a new arm will be constructed and installed in the summer of 2026.

4. Loss of chlorination and dechlorination occurred for approximately 5 hours when power was lost during a generator test. Power was restored and both the hypochlorite pump

and the bisulphite pump were returned to service. An estimated volume of 687 m^3 was released. Refer to Section 10.1 for additional details.

7 Maintenance Procedures Performed on the Works

Routine maintenance schedules are entered in OCWA's computerized Workplace Management System (WMS). This is a comprehensive maintenance program that is based on a pro-active and preventive approach. This program includes but is not limited to running weekly, monthly, and annually checks as required or as recommended by manufacturer's instructions. All routine and preventative maintenance was conducted in 2025. A summary of maintenance performed, which includes preventative work, capital projects and emergency repairs is available in Appendix D.

Significant maintenance that took place during 2025:

Haileybury Sewage Treatment Plant

- Replaced return blower selector switch,
- Replaced wiper blades on clarifier level monitor,
- Replaced faulty sludge level sensor
- Replaced DO sensor cap,
- Replaced de-chlorination pump,
- Replaced belts and sheaves for Aerzen blower,
- Rebuild and test back flow preventer,
- Install heat trace and replace sample line,
- Replaced smoke alarm in the sodium hypochlorite room,

Farr Drive Sewage Pumping Station

- Replaced power fail relay
- Replaced pH probe.

8 Calibration & Maintenance of all Monitoring Equipment

Influent and effluent monitoring equipment is calibrated based on requirements of the system's ECA or manufactures recommendations. Flow meters are calibrated annually to ensure a required accuracy of +/- 15%. pH meters, DO meters and chlorine residual analyzers are calibrated to ensure an acceptable tolerance and accuracy as specified by the manufacturer.

Routine maintenance was conducted as scheduled by qualified Instrumentation Technicians during the reporting period. Refer to Table 13 for a summary of calibrations conducted in 2025.

Table 13: Calibration Summary

Instrument	Calibration Dates	% Accuracy	Requirement
Effluent Flow Meter – Train 1	April 3, 2025	99.4%	+/- 15%
Effluent Flow Meter – Train 2	April 3, 2025	100%	+/- 15%
On-line DO Analyzer – Train 1	April 28, 2025	Within tolerance	
On-line DO Analyzer – Train 2	April 28, 2025	Within tolerance	
Portable Chlorine Analyzer – Farr Drive SPS	Jan. 20 & Jul. 23, 2025	Within tolerance	
Portable Chlorine Analyzer – STP	May 22 & Nov. 13, 2025	Within tolerance	
Portable pH Ultrapen	Jan. 19, Apr. 4, Jul. 23 (Ultrapen removed from service on Nov. 3, 2025)	Within tolerance	
Portable pH/DO Analyzer	Jan. 3, Apr. 4, Jul. 23 and Oct. 7, 2025	Within tolerance	

9 Sludge Generation and Disposal

A total sludge volume of 2843 m^3 was removed from the Haileybury Sewage Treatment Plant in 2025 and hauled to the New Liskeard Lagoon for disposal which is approved under ECA No. 5103-CDFJWC. The New Liskeard Lagoon ECA allows a maximum sludge volume of 8800 m^3/year that can be imported from the Haileybury STP to the Cell E of the lagoon for disposal. It is anticipated that the volume of sludge generated in 2026 will be similar to 2025 as no changes to population or process are expected.

All digested sludge is removed regularly on an as-needed basis by certified haulage trucks owned by the City of Temiskaming Shores (ECA No. A841393) or by Phippen Waste Management (ECA No. AB17724).

The sludge is tested on an annual basis and analyzed for the parameters listed in Appendix E - Sludge Quality.

Table 14: Summary of Hauled Sludge Volumes

Month	Volume of Sludge Hauled (m^3)
January	435.2

Month	Volume of Sludge Hauled (m^3)
April	245.4
May	748.0
August	163.2
September	408.0
October	584.8
November	190.4
December	68.0
Total (m^3)	**2843**

10 Abnormal Discharge Events

10.1 Overflow, Bypass and Spill Events

No overflow or bypass events occurred during the 2025 reporting period; however a loss of effluent chlorination was reported as a spill to the Ministry of the Environment's Spills Action Center (SAC) as per the system's approval, to Environment Canada as required under the Federal Fisheries Act and to the local Health Unit.

On May 20th, both the sodium hypochlorite and sodium bisulphite pumps tripped, resulting in a loss of chlorination and de-chlorination for approximately five hours. The operator determined that an automatic generator run test caused the power interruption with a simultaneous failure of the chlorine pump UPS.

Power was restored immediately after the issue was discovered. The hypochlorite pump was returned to service at 2:23 PM and the bisulphite pump at 2:26 PM. Chlorine residuals were tested at 2:50 PM, showing TCRs of 0.10 mg/L (Chamber 1) and 0.14 mg/L (Chamber 2). Earlier effluent testing at 2:04 PM showed a TCR of 0.01 mg/L. The total estimated volume released was 687 m^3.

Table 15 summarizes the event and Appendix F provides a detailed record including sample results.

Table 15: Summary of Abnormal Discharge Events in 2025

Date	Location	Duration (hours)	Type	Cause	Adverse Impacts	Estimated Volume (m^3)
May 20	STP	4.9	Spill – Loss of effluent chlorination	Power failure	None	687

10.2 Situations Outside Normal Operating Conditions

Condition 9(2) of ECA 7579-BTFKMN indicates that in addition to the scheduled monitoring program, the Owner shall collect daily sample(s) of the Final Effluent on any day when there is any situation outside Normal Operating Conditions. The sample(s) are to be analyzed for all effluent parameters outlined in the Compliance Limits condition that require composite samples (cBOD5, TSS and TP).

Normal operating conditions means the condition when all the unit process(es), excluding preliminary treatment in a treatment train is operating normally and within design capacity and there are no significant observable changes in wastewater characteristics that could cause an impairment to the treatment process.

The Haileybury sewage treatment plant exceeded its peak design capacity for Train No. 1 and/or Train No. 2 on six (6) occasions in 2025 during periods of heavy rainfall and/or snow melt. Blower failures occurred twice in 2025 on August 3rd and December 25th. Additional daily sampling as per the system's ECA was conducted and results are included in the effluent monitoring.

Table 16: Peak Design Capacity Exceedances

Date	Train No. 1 Flow (peak = 3032 m^3/d)	Train No. 2 Flow (peak = 4360 m^3/d)	Combined Flow (peak = 7392 m^3/d)
March 16	3397	7836	11,233
March 17	1822	4511	6333
April 14	1460	4737	6196
April 15	1559	5665	7224
April 19	2074	4460	6533
April 26	2829	6664	9494

10.3 Efforts Made to Reduce System Overflows and Bypasses

The Haileybury Sewage Treatment Plant operated well below its annual average rated capacity of 2728 m^3/day for the past several years. The system is also designed to treat a peak flow rate of 7392 m^3/day. The plant exceeded its peak design capacity six times in 2025 during periods of heavy rainfall or snow melt.

A review of historical data (2010 to 2025) shows that bypass and overflow events do not occur at the sewage treatment plant, but in the collection system at the Farr Drive Sewage Pumping Station during heavy rains and/or snow melt.

In an effort to reduce and/or eliminate overflow, bypass and spill events and to conform with Procedure F-5-1, the following measures are in place.

- Emergency backup generators are installed at the plant which also supplies power to the Farr Drive pumping station.
- A SCADA system is used to accurately monitor the sewage network and an alarm system is in place at key points in the process and at the sewage pumping station to alert operators of any issues; power failures, high levels, equipment failures, loss of communication and intrusion.
- Regular routine maintenance is performed to help reduce overflows/bypasses/spills events. For example: monthly generator tests to ensure the generator will start during a power failure and equipment will continue to operate normally, monthly alarm testing and equipment maintenance as outlined in the Maintenance Summary found in Appendix D.
- Repairs to the collection system are done promptly as issues occur.
- A program is in place to prevent roof leaders and sump pumps from being connected with sanitary new builds.
- To more accurately measure and monitor overflow volumes, a procedure has been developed to calculate overflow volumes from the Farr Drive station.
- An evaluation of wet-weather and dry-weather flows within the authorized sanitary sewer collection system was completed by EXP Services Inc. The report, dated January 20, 2025, identified the following key findings:
    - Extended data collection is recommended to better characterize localized surcharging conditions that may be occurring within the collection system.
    - Routine inspections have been carried out in accordance with established operational procedures.
    - Long-term corrective measures remain challenging to define due to the uncertainties associated with climate change; however, the municipality continues to pursue improvements to the sanitary collection system.

10.4 Summary of Alterations to the System to Reduce Overflows

There have been no projects done in 2025 to reduce overflows/bypasses/spills.

10.5 Public Notification

The system has a Public Notification Procedure to notify the public and downstream users that may be adversely affected in the event of an overflow or bypass at the plant.

Signage was posted at publicly accessible points located near all sewage collection system overflow outfall locations before May 21, 2025 as required under the ECA.

11 Complaints

No complaints were received during the reporting period.

12 Notice of Modifications on Sewage Works

No Sewage Modification forms were completed in 2025.

13 Proposed Alterations to the Works

- Sodium hypochlorite storage building with containment
- Addition of a second blower for the aeration system

APPENDIX A

2025 and 2026 Influent and Effluent Sampling Schedule

Temiskaming Shores Cluster Sewage Treatment Systems – Haileybury Sewage Treatment System

2025 & 2026 Sampling Schedules

For the Haileybury Sewage Treatment System, influent and effluent samples are required to be collected and tested weekly as per Schedule D of the system's ECA No. 7579-BTFKMN.

2025 Schedule	2025 Sample Dates	2026 Sample Schedule
January 8, 2025	January 8, 2025	January 6, 2026
January 15, 2025	January 15, 2025	January 13, 2026
January 22, 2025	January 22, 2025	January 20, 2026
January 29, 2025	January 29, 2025	January 27, 2026
February 5, 2025	February 5, 2025	February 3, 2026
February 12, 2025	February 12, 2025	February 10, 2026
February 19, 2025	February 19, 2025	February 17, 2026
February 26, 2025	February 26, 2025	February 24, 2026
March 5, 2025	March 4, 2025*	March 3, 2026
March 12, 2025	March 12, 2025	March 10, 2026
March 19, 2025	March 19, 2025	March 17, 2026
March 26, 2025	March 4, 2025	March 24, 2026
April 2, 2025	April 2, 2025	March 31, 2026
April 9, 2025	April 9, 2025	April 7, 2026
April 16, 2025	April 15, 2025*	April 14, 2026
April 23, 2025	April 23, 2025	April 21, 2026
April 30, 2025	April 30, 2025	April 28, 2026
May 7, 2025	May 7, 2025	May 5, 2026
May 14, 2025	May 14, 2025	May 12, 2026
May 21, 2025	May 21, 2025	May 19, 2026
May 28, 2025	May 28, 2025	May 26, 2026
June 4, 2025	June 4, 2025	June 2, 2026
June 11, 2025	June 11, 2025	June 9 2026
June 18, 2025	June 18, 2025	June 16, 2026
June 25, 2025	June 25, 2025	June 23, 2026
July 2, 2025	July 2, 2025	June 30, 2026
July 9, 2025	July 9, 2025	July 7, 2026
July 16, 2025	July 16, 2025	July 14, 2026
July 23, 2025	July 23, 2025	July 21, 2026
July 30, 2025	July 30, 2025	July 28, 2026
August 6, 2025	August 6, 2025	August 4, 2026
August 13, 2025	August 13, 2025	August 11, 2026
August 20, 2025	August 20, 2025	August 18, 2026

Temiskaming Shores Cluster Sewage Treatment Systems – Haileybury Sewage Treatment System

2025 & 2026 Sampling Schedules

2025 Schedule	2025 Sample Dates	2026 Sample Schedule
August 27, 2025	August 27, 2025	August 25, 2026
September 3, 2025	September 3, 2025	September 1, 2026
September 10, 2025	September 10, 2025	September 8, 2026
September 17, 2025	September 17, 2025	September 15, 2026
September 24, 2025	September 24, 2025	September 22, 2026
October 1, 2025	October 1, 2025	September 29, 2026
October 8, 2025	October 8, 2025	October 6, 2026
October 15, 2025	October 15, 2025	October 13, 2026
October 22, 2025	October 22, 2025	October 20, 2026
October 29, 2025	October 29, 2025	October 27, 2026
November 5, 2025	November 5, 2025	November 53 2026
November 12, 2025	November 12, 2025	November 10, 2026
November 19, 2025	November 19, 2025	November 17, 2026
November 26, 2025	November 26, 2025	November 24, 2026
December 3, 2025	December 3, 2025	December 1, 2026
December 10, 2025	December 10, 2025	December 8, 2026
December 17, 2025	December 17, 2025	December 15, 2026
December 24, 2025	December 22, 2025*	December 22, 2026
December 31, 2025	December 29, 2025*	December 29, 2026

* Note:

In 2025, four sampling deviations were recorded: one resulting from a winter storm and three associated with statutory holidays.

APPENDIX B
Monthly Process Data Report

NE_Haileybury WWTF_Annual Reg Report

From 01/01/2025 to 12/31/2025

Facility Name: HAILEYBURY WASTEWATER TREATMENT FACLITY

Facility Org Number: 5726
Facility Owner: Municipality: Temiskaming Shores
Service Population: 4200

Works: 110000310
Facility Classification: Class 2 Wastewater Treatment
Total Design Capacity: 2728 m3/day

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

													2025			
Influent - Raw Sewage	**Jan 2025**	**Feb 2025**	**Mar 2025**	**Apr 2025**	**May 2025**	**Jun 2025**	**Jul 2025**	**Aug 2025**	**Sep 2025**	**Oct 2025**	**Nov 2025**	**Dec 2025**	**Total**	**Avg**	**Max**	**Min**
Biochemical Oxygen Demand: BOD5 - mg/L																
Lab Count	4.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	52.00			
Lab Month.Max	240.00	322.00	332.00	140.00	64.40	36.00	160.00	130.00	70.30	88.00	89.00	130.00			332.00	
Lab Month.Mean	143.45	230.50	148.75	43.00	32.35	27.00	98.60	68.00	57.33	53.26	64.75	70.32		84.89		
Lab Month.Min	73.80	130.00	42.00	11.00	17.00	19.00	35.00	39.00	43.00	31.00	30.00	35.00				11.00
Total Kjeldahl Nitrogen: TKN - mg/L																
Lab Count	4.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	52.00			
Lab Month.Max	22.50	53.40	41.50	15.70	16.50	21.00	38.20	47.60	31.60	21.20	28.00	27.00			53.40	
Lab Month.Mean	20.80	36.40	20.95	10.68	14.23	16.95	25.74	27.58	25.18	20.34	23.00	24.06		22.01		
Lab Month.Min	18.60	22.70	6.40	7.20	11.90	10.70	15.50	19.10	21.70	19.60	18.10	22.10				6.40
Total Phosphorus: TP - mg/L																
Lab Count	4.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	52.00			
Lab Month.Max	2.46	8.46	8.66	6.51	1.30	1.21	4.74	4.00	2.33	2.15	2.95	2.76			8.66	
Lab Month.Mean	2.36	4.52	3.59	1.68	0.94	0.81	3.54	2.40	1.73	1.56	2.11	1.66		2.23		
Lab Month.Min	2.31	2.48	0.85	0.37	0.45	0.60	1.61	1.38	1.31	1.27	1.38	0.98				0.37
Total Suspended Solids: TSS - mg/L																
Lab Count	4.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	52.00			
Lab Month.Max	170.00	464.00	1940.00	168.00	120.00	54.00	405.00	238.00	119.00	170.00	165.00	215.00			1940.00	
Lab Month.Mean	127.00	234.25	575.88	54.20	64.50	41.63	183.80	121.50	93.00	70.40	88.00	108.20		143.58		
Lab Month.Min	87.00	137.00	37.50	17.50	36.00	26.50	23.00	45.00	70.00	20.00	31.00	36.00				17.50

Final Effluent	**Jan 2025**	**Feb 2025**	**Mar 2025**	**Apr 2025**	**May 2025**	**Jun 2025**	**Jul 2025**	**Aug 2025**	**Sep 2025**	**Oct 2025**	**Nov 2025**	**Dec 2025**	**Total**	**Avg**	**Max**	**Min**
CBOD5 (25 mg/L - Quarterly) - mg/L																
Lab Count	4.00	4.00	6.00	8.00	4.00	4.00	5.00	5.00	4.00	5.00	4.00	6.00	59.00			
Lab Month.Max	5.20	7.40	46.00	3.70	2.20	1.00	1.40	1.10	1.40	1.10	1.80	1.30			46.00	
Lab Month.Mean	2.73	5.28	11.87	1.96	< 0.95	0.88	< 0.82	< 0.76	< 0.95	0.84	1.00	0.90		< 2.57		
Lab Month.Min	1.30	4.20	1.30	1.10	< 0.50	0.60	< 0.50	< 0.50	< 0.50	0.60	0.60	0.60				< 0.50
Dissolved Oxygen: DO Field: Lab Upload - mg/L																
IH Edited Count	4.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	52.00			
IH Month.Max	10.56	9.82	9.85	11.25	10.97	9.60	9.70	8.60	9.02	8.95	9.60	9.84			11.25	
IH Month.Mean	10.22	9.69	7.57	9.33	9.84	9.39	9.15	8.47	6.81	8.51	9.33	9.26		8.97		
IH Month.Min	9.79	9.42	3.98	4.78	9.20	9.17	8.51	8.33	3.69	7.93	8.62	8.75				3.69

E. Coli: (200 monthly geomean) - cfu/100mL																
GMD	2814.96	4983.86	51195.48	44412.86	**17.00**	**25.12**	**2.61**	**3.76**	**2.45**	**1.43**	414.94	204.56		8673.25	51195.48	1.43
Lab Count	4.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	5.00	6.00	54.00			4.00
Lab Month.Max	5000.00	75000.00	116000.00	200000.00	< 100.00	675.00	5.00	5.00	12.00	3.00	1970.00	370.00			200000.00	
Lab Month.Mean	3012.50	20265.00	66750.00	81920.00	< 40.00	185.25	2.80	4.00	4.25	1.20	687.00	216.40		< 14894.12		
Lab Month.Min	1950.00	1920.00	14000.00	9600.00	0.00	2.00	2.00	2.00	1.00	0.00	198.00	150.00				0.00
Un-ionized Ammonia: NH3 - mg/L																
IH Edited Count	4.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	52.00			
IH Month.Max	0.00721	0.00022	0.00400	0.00439	0.00028	0.00034	0.00010	0.00037	0.00018	0.00116	0.00013	0.00216			0.00721	
IH Month.Mean	0.00229	0.00014	0.00243	0.00169	0.00016	0.00018	0.00004	0.00012	0.00008	0.00030	0.00010	0.00057		0.00067		
IH Month.Min	0.00029	0.00003	0.00070	0.00035	0.00005	0.00008	0.00003	0.00002	0.00002	0.00002	0.00007	0.00004				0.00002
Total Ammonia Nitrogen: NH3 + NH4+ as N - mg/L																
Lab Count	4.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	52.00			
Lab Month.Max	1.310	0.110	0.940	1.160	0.040	0.030	0.030	0.070	0.040	0.290	0.040	0.930			1.310	
Lab Month.Mean	0.505	0.065	0.658	0.404	< 0.028	0.023	< 0.016	0.030	< 0.025	< 0.098	0.028	< 0.222		< 0.176		
Lab Month.Min	0.090	0.030	0.270	0.060	< 0.010	0.020	< 0.010	0.010	< 0.010	< 0.010	0.020	< 0.010				< 0.010
pH Field: Lab Upload (6.0 - 9.5) - ---																
IH Edited Count	4.00	4.00	6.00	8.00	4.00	4.00	5.00	5.00	4.00	5.00	4.00	6.00	59.00			
IH Month.Max	7.49	7.12	7.38	7.83	7.39	7.76	7.27	6.86	7.12	7.10	7.37	7.46			7.83	
IH Month.Mean	7.21	6.88	7.17	7.48	7.33	7.32	6.97	6.69	6.88	6.69	7.22	7.28		7.11		
IH Month.Min	6.98	6.72	6.82	7.15	7.28	6.97	6.19	6.60	6.58	6.47	6.92	6.97				6.19
Temperature Field: Lab Upload - °C																
IH Edited Count	4.00	4.00	6.00	8.00	4.00	4.00	5.00	5.00	4.00	5.00	4.00	6.00	59.00			
IH Month.Max	15.20	16.70	17.10	12.70	18.20	21.40	26.20	28.60	28.20	24.70	12.70	13.80			28.60	
IH Month.Mean	10.55	13.23	13.13	9.63	14.20	17.70	15.92	23.04	17.75	21.50	11.80	12.82		14.85		
IH Month.Min	8.60	10.30	9.60	8.30	10.20	11.90	9.20	20.80	11.10	17.00	11.00	11.40				8.30
TP (1 mg/L - Annual) - mg/L																
Lab Count	4.00	4.00	6.00	8.00	4.00	4.00	5.00	5.00	4.00	5.00	4.00	6.00	59.00			
Lab Month.Max	0.140	0.536	4.200	0.334	0.077	0.091	0.126	0.401	0.111	0.119	0.132	0.152			4.200	
Lab Month.Mean	0.106	0.425	0.978	0.153	0.069	0.069	0.102	0.164	0.077	0.085	0.088	0.081		0.215		
Lab Month.Min	0.072	0.240	0.080	0.064	0.050	0.049	0.074	0.064	0.051	0.056	0.053	0.039				0.039
TSS (25 mg/L - Quarterly) - mg/L																
Lab Count	4.00	4.00	6.00	8.00	4.00	4.00	5.00	5.00	4.00	5.00	4.00	6.00	59.00			
Lab Month.Max	6.00	23.00	232.00	11.50	3.00	4.00	4.00	10.50	2.00	4.00	3.30	9.33			232.00	
Lab Month.Mean	< 4.02	15.96	49.53	4.49	1.83	< 2.29	< 2.13	4.43	< 1.16	< 1.73	< 1.64	< 2.84		< 8.46		
Lab Month.Min	< 0.67	7.33	1.00	1.30	1.30	< 0.67	< 0.67	1.30	< 0.67	< 0.67	< 0.67	< 0.67				< 0.67

Cl Residual: Total (0.02 mg/L) - mg/L																				
IH Edited Count						2.00		21.00		21.00		22.00		20.00		20.00		22.00		128.00				
IH Month.Max						0.010		0.020		0.020		0.020		0.020		0.020		0.020				0.020		
IH Month.Mean						0.005		0.012		0.012		0.011		0.011		0.014		0.010				0.011		
IH Month.Min						0.000		0.000		0.000		0.000		0.000		0.000		0.000						0.000

Notes:

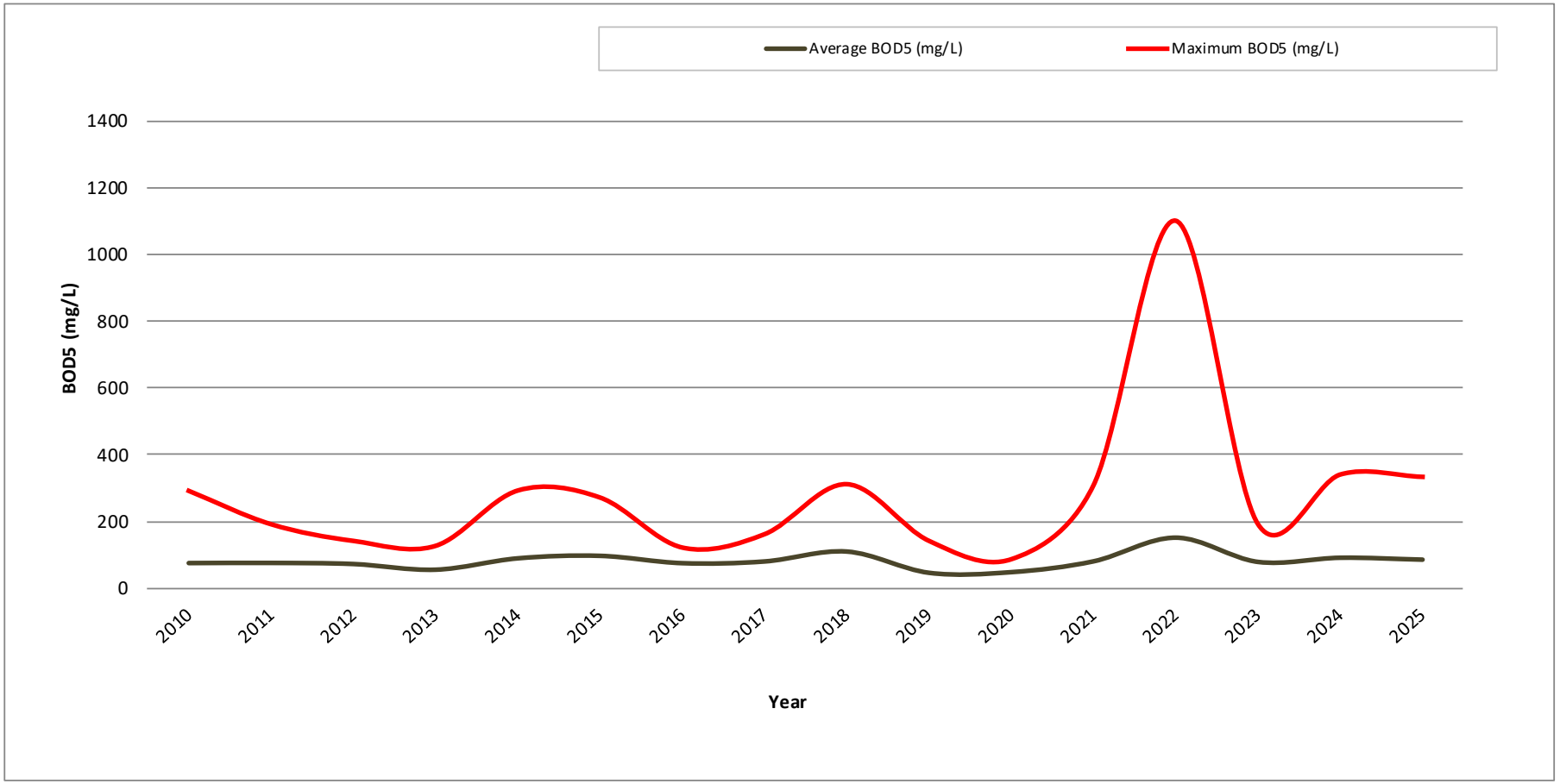
1. The *E. coli* limit of 200 cfu/100mL as a monthly geometric mean (MGM) only comes into effect when chlorination is carried out between May 1st and October 31st each year. Minimum, maximum and geometric average results are calculated from results during this period.
2. Total chlorine residual testing is required daily (except weekends) from May 1st to October 31st when chlorination is carried out.

APPENDIX C
Historical Trends of Influent Characteristics

Haileybury Sewage Treatment Plant
Influent Characteristics – Historical Results (2010 to 2025)

BOD5 – Five Day Biochemical Oxygen Demand

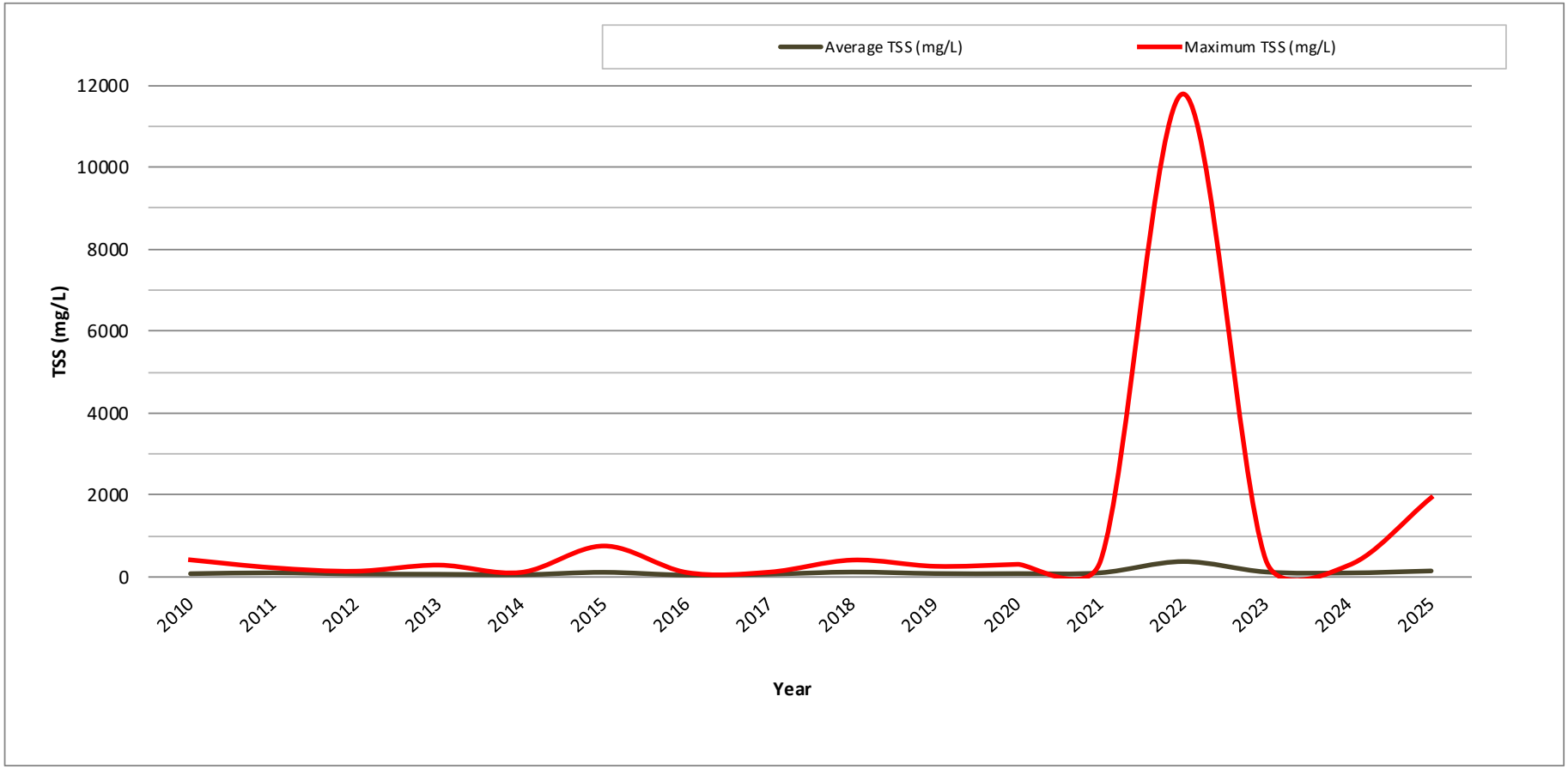
	2010	***2011***	***2012***	***2013***	***2014***	***2015***	***2016***	***2017***	***2018***	***2019***	***2020***	***2021***	***2022***	***2023***	***2024***	***2025***
Average BOD5 (mg/L)	74	75	71	54	89	97	74	79	110	44	46	80	153	78	91	85
Maximum BOD5 (mg/L)	290	190	140	125	291	270	120	160	310	140	85	307	1100	190	339	332



Haileybury Sewage Treatment Plant
Influent Characteristics – Historical Results (2010 to 2025)

TSS – Total Suspended Solids

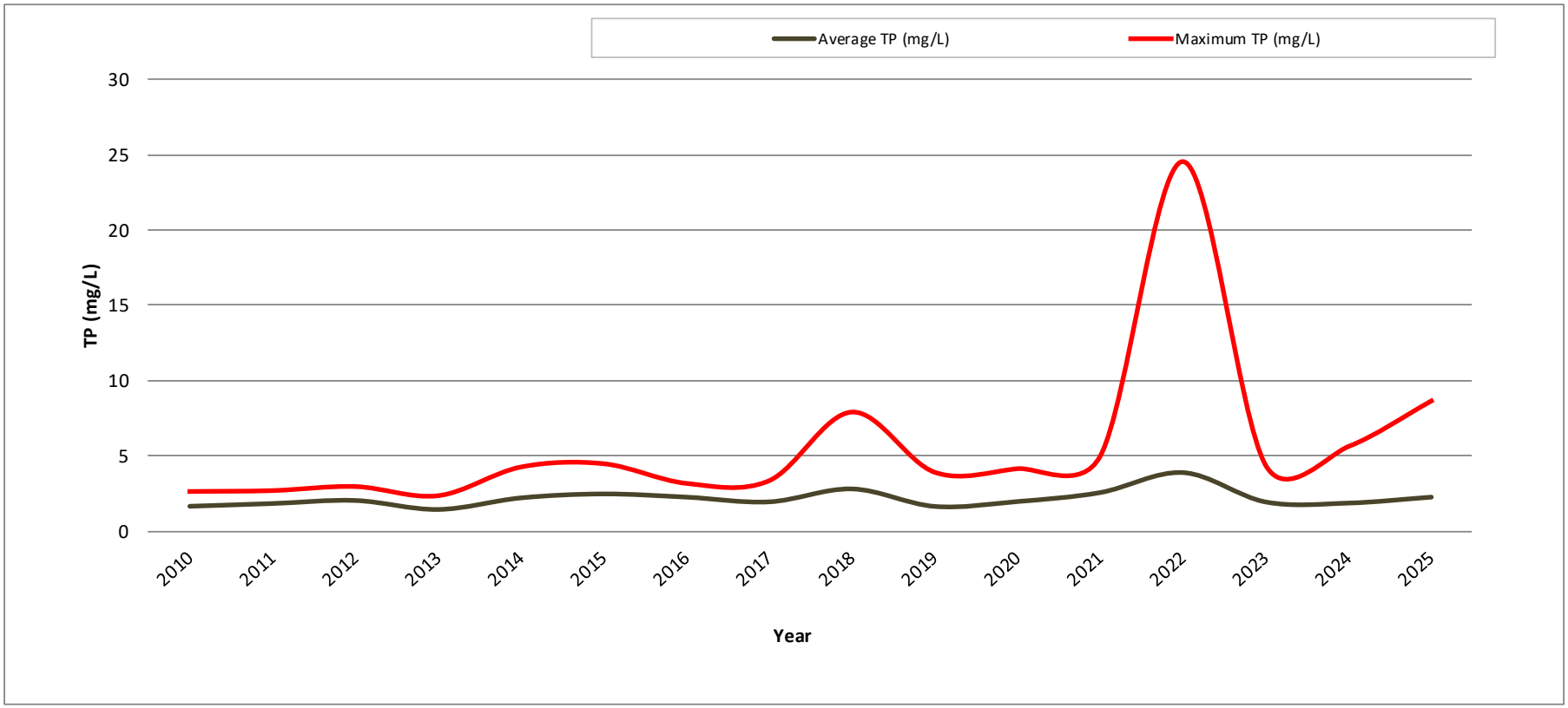
	2010	***2011***	***2012***	***2013***	***2014***	***2015***	***2016***	***2017***	***2018***	***2019***	***2020***	***2021***	***2022***	***2023***	***2024***	***2025***
Average TSS (mg/L)	80	100	74	67	56	112	46	70	118	83	82	101	363	120	97	144
Maximum TSS (mg/L)	420	228	144	293	116	760	112	121	416	264	312	383	11800	420	287	1940



Haileybury Sewage Treatment Plant
Influent Characteristics – Historical Results (2010 to 2025)

TP - Total Phosphorus

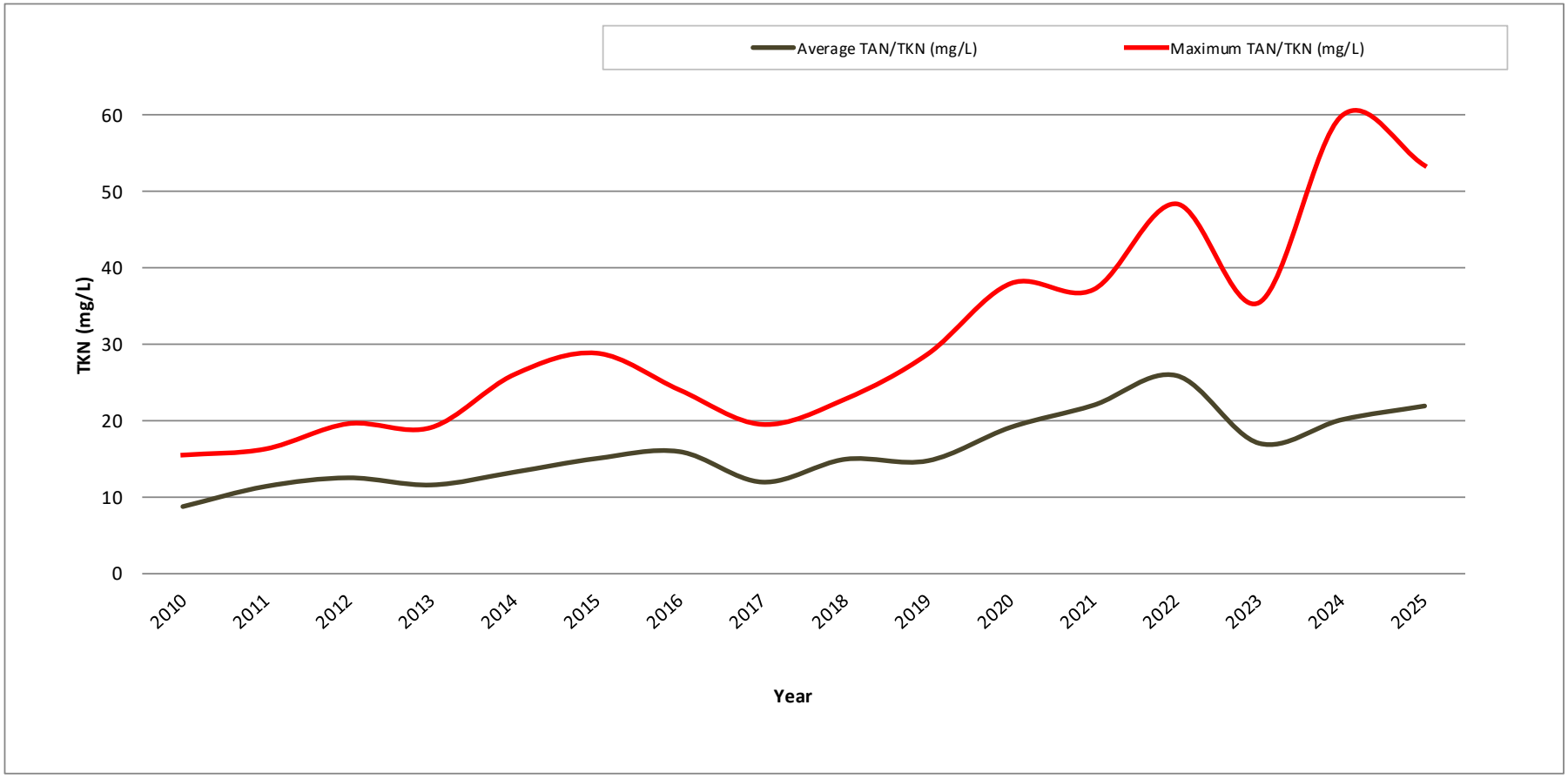
	2010	***2011***	***2012***	***2013***	***2014***	***2015***	***2016***	***2017***	***2018***	***2019***	***2020***	***2021***	***2022***	***2023***	***2024***	***2025***
Average TP (mg/L)	1.6	1.8	2.0	1.4	2.2	2.4	2.2	1.9	2.8	1.6	1.9	2.5	3.8	1.9	1.8	2.2
Maximum TP (mg/L)	2.6	2.7	3.0	2.4	4.3	4.5	3.2	3.4	7.9	3.9	4.2	5.0	24.6	4.4	5.6	8.7



Haileybury Sewage Treatment Plant
Influent Characteristics – Historical Results (2010 to 2025)

TAN – Total Ammonia Nitrogen / TKN – Total Kjeldahl Nitrogen

	2010	***2011***	***2012***	***2013***	***2014***	***2015***	***2016***	***2017***	***2018***	***2019***	***2020***	***2021***	***2022***	***2023***	***2024***	***2025***
Average TAN/TKN (mg/L)	8.8	11.4	12.6	11.6	13.3	15.1	16.0	12.0	15.0	14.8	19.2	22.1	26.0	17.1	20.2	22.0
Maximum TAN/TKN (mg/L)	16	16	20	19	26	29	24	20	23	29	38	37	48	36	60	53



* Note - TAN samples were required monthly from 2010 to March 2019 and TKN samples were required weekly after that under a new ECA.

APPENDIX D
Maintenance Summary

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Workorder Summary Report

Report Start Date: Jan 1, 2025 12:00 AM
Report End Date: Dec 31, 2025 11:59 PM
Location: 5726*
Work Order Type: CALL,CAP,CORR,EMER,OPER,PM
Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4282841	0000293160	ANALYZER CHLORINE PORTABLE Farr Dr. PS	5726, Farr Pumping Station	PM	Refurbish/ Replace/Repair	6	MONTHS	Analyzer Chlorine Portable Farr PS Inspection (6m) 5752	CLOSE	1/1/25 12:00 AM	1/20/25 12:46 PM	1/20/25 12:46 PM	-Verified Calibration against Hack LR DPD Secondary Standards Lot # A4268 Exp Sept/26. Standard HH 0.23+-0.09 0.22 0.91+-0.10 0.92 1.61+-0.14 1.65 All readings were well within factory tolerance.
4283336			5726, Haileybury STP	PM	HEALTH AND SAFETY	1	YEARS	WHMIS/SDS/NSF Review and Update (1y) 5726	CLOSE	1/1/25 12:00 AM	1/17/25 08:00 AM	1/17/25 08:00 AM	Yearly SDS Review - Research SDS for chemicals. Copy/organize in rounds binders
4287146	0000060172	TANK PROCESS CONTACT CHAMBER 02	5726, Haileybury STP, Process, Disinfection	PM	Refurbish/ Replace/Repair	6	MONTHS	Gritt Channels and Contact Chamber Inspection (6m) 5726	CLOSE	1/1/25 12:00 AM	5/20/25 12:28 PM	5/20/25 12:28 PM	Gritt Channels and Contact Chamber Inspection (6m) 5726 - Cleaned gritt channels and bar screen with pressure washer and VAC truck. Used 3" hose to clean out the contact chambers with VAC truck
4287165	0000076731	TANK STORAGE 01 WET WELL	5726, Lakeshore Pumping Station	PM	Refurbish/ Replace/Repair	6	MONTHS	Tank Wet Well Farr Drive Inspection (6m) 5726	CLOSE	1/1/25 12:00 AM	7/18/25 02:45 PM	7/18/25 02:45 PM	Tank Wet Well Farr Drive Inspection (6m) 5726 -Visually inspected wet well. Wet well in good condition
4287246	0000293160	ANALYZER CHLORINE PORTABLE Farr Dr. PS	5726, Farr Pumping Station	PM	Inspection	1	MONTHS	Analyzer Chlorine Portable Cassie Inspection/Service (1m) 5752	CLOSE	1/1/25 12:00 AM	2/11/25 10:16 AM	2/11/25 10:16 AM	Analyzer Chlorine Portable Cassie Inspection/Service (1m) 5752 - I am not assigned the portable
4306765			5726, Farr Pumping Station	PM	Inspection	1	YEARS	ALARM PLANT FARR SPS ANNUAL TESTING (1Y) 5726	CLOSE	1/1/25 12:00 AM	6/27/25 03:13 PM	6/27/25 03:13 PM	ALARM PLANT FARR SPS ANNUAL TESTING (1Y) 5726 -Completed alarm testing and verified a call to the on call operator as required. ALARM PLANT FARR SPS ANNUAL TESTING (1Y) 5726 -all alarms have no been tested and verified

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Workorder Summary Report

Report Start Date: Jan 1, 2025 12:00 AM
Report End Date: Dec 31, 2025 11:59 PM
Location: 5726*
Work Order Type: CALL,CAP,CORR,EMER,OPER,PM
Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4306768			5726, Haileybury STP	PM	Inspection	1	YEARS	ALARM PLANT HAIL STP ANNUAL TESTING (1Y) 5726	CLOSE	1/1/25 12:00 AM	6/26/25 02:58 PM	6/26/25 02:58 PM	ALARM PLANT HAIL STP ANNUAL TESTING (1Y) 5726 - Completed annual alarm testing Verified each alarm performed as it should and called out to the on call operator as required.
4307210	0000076750	GENERATOR 25KW Portable Generator	5726, Lakeshore Pumping Station	PM	Refurbish/ Replace/Repair	1	MONTHS	Portable Generator Inspect/Service 5726 (1m)	CLOSE	1/1/25 12:00 AM	1/7/25 03:23 PM	1/7/25 03:23 PM	Portable Generator Inspect/Service 5726 (1m) - Visually inspected generator. Performed monthly generator pm. Filled out generator maintenance sheet.
4307506	0000293147	PORTABLE DO METER	5726, Haileybury STP, Facility	PM	Inspection	3	MONTHS	Analyzer Dissolved Oxygen/pH Portable Calibration/Inspection (3m) 5726	CLOSE	1/1/25 12:00 AM	1/3/25 11:13 AM	1/3/25 11:13 AM	Analyzer pH Portable Calibration/ Inspection (3m) 5726 - Completed pH calibration as per manufacturer's instructions. Calibration report located on Shared Drive. Need a new sponge in pH probe storage.
4308097	0000277374	ENGINE DIESEL	5726, Haileybury STP, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	YEARS	Diesel Generator Genset Inspection/ Functional Test (1Y) 5726	CLOSE	1/1/25 12:00 AM	5/12/25 01:51 PM	5/12/25 01:51 PM	Completed by Contractors -
4319715	0000277442	ANALYZER DO Haileybury STP	5726, Haileybury STP, Facility	PM	Inspection	1	YEARS	Analyzer DO Pen Calibration 5726	CLOSE	1/1/25 12:00 AM	2/28/25 09:15 AM	2/28/25 09:15 AM	
4320370	0000293700	ANALYZER PH Ultrapen Farr Pumping St.	5726, Farr Pumping Station	PM	Calibration	3	MONTHS	Analyzer pH Ultrapen Calibration (3m) 5726	CLOSE	1/1/25 12:00 AM	1/17/25 11:43 AM	1/17/25 11:43 AM	-verified as per manufactures instructions. Please refer to shared drive for cal slip.

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Workorder Summary Report

Report Start Date: Jan 1, 2025 12:00 AM
Report End Date: Dec 31, 2025 11:59 PM
Location: 5726*
Work Order Type: CALL,CAP,CORR,EMER,OPER,PM
Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4331606			5726, Haileybury STP	OPER	Inspection	1	YEARS	Daily O&M Activities Wastewater Treatment (1y) 5726	COMP	1/1/25 12:00 AM	1/8/26 02:05 PM	1/8/26 02:05 PM	- Replace UPS batteries in plc cabinet. Ran blower in manual while controls were down. - inspect raw sampler operation. Reprogram Farr sampler and find an extension cord to plug the fridge into so its not plugged into the UPS. Help Cassie troubleshoot the no2 sludge monitor for no operation. - Re connect security system and test. Ventilate plant for a bit and inspect operation. -Inspect no 1 plant hypo pump no operation. Inspect diaphragm, check valves and suction line. Remove backflow prv from line and put in a connector. prime pump and put back in service. Run pump in manual for a few min to add some chlorine to contact chamber. -Get no 2 plant scum bucket working and show Trevor
4331611	0000277374	ENGINE DIESEL	5726, Haileybury STP, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Genset Inspection/ Functional Test (1m) 5726	CLOSE	1/1/25 12:00 AM	1/7/25 03:24 PM	1/7/25 03:24 PM	Diesel Generator Genset Inspection/ Functional Test (1m) 5726 - Visually inspected generator. Performed monthly generator pm. Filled out generator maintenance sheet.
4331627			5726, Haileybury STP	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 5726	CLOSE	1/1/25 12:00 AM	1/25/25 04:06 PM	1/25/25 04:06 PM	TPM Inspection/Maintenance (1m) 5726 - Toured building and inspected equipment. Found no deficiencies.

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Workorder Summary Report

Report Start Date: Jan 1, 2025 12:00 AM
Report End Date: Dec 31, 2025 11:59 PM
Location: 5726*
Work Order Type: CALL,CAP,CORR,EMER,OPER,PM
Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4331647	0000060125	BLOWER CENTRIFUGAL 02	5726, Haileybury STP, Process, Secondary Treatment	PM	Refurbish/ Replace/Repair	1	YEARS	Blower Centrifugal 02 Inspection/ Service (1y) 5726	CLOSE	1/1/25 12:00 AM	10/7/25 08:46 AM	10/7/25 08:46 AM	Belt Replaced by CB on WO 4711624 -
4333865			5726, Haileybury STP	CAP	Refurbish/ Replace/Repair	0		Hail STP Replacement DO Sensor Cap 5726	CLOSE		3/27/25 11:39 AM	3/27/25 11:39 AM	
4334063			5726, Haileybury STP	CAP	Compliance	0		Haileybury STP Chemicals 5726	COMP		1/13/26 01:17 PM	1/13/26 01:17 PM	
4337792	0000293190	SAMPLER Raw	5726, Haileybury STP, Process, Headworks	CORR	Refurbish/ Replace/Repair	0		Repaired Faulty Sampler possibly caused by extreme weather this past weekend and last week	CLOSE		1/23/25 03:04 PM	1/23/25 03:04 PM	-The sampler was faulted and seized complete operation due to multiple issues which may have been caused by the cold weather we had lately. The peristaltic pump was not turning, the pressure switch was frozen, the sample line was plugged again and the pump tubing had to be replaced. Once all of these issues were resolved the unit was reprogrammed, tested and placed back online.
4343390	0000293160	ANALYZER CHLORINE PORTABLE Farr Dr. PS	5726, Farr Pumping Station	PM	Inspection	1	MONTHS	Analyzer Chlorine Portable Cassie Inspection/Service (1m) 5752	CLOSE	2/1/25 12:00 AM	2/11/25 10:18 AM	2/11/25 10:18 AM	- lot number A3348 expiry dec 2025 asset number 293160 standards handheld std 1 0.25 0.24 std 2 0.96 0.95 std 3 1.60 1.58 Analyzer Chlorine Portable Cassie Inspection/Service (1m) 5752 - I am not assigned to the Portable.
4358482	0000076750	GENERATOR 25KW Portable Generator	5726, Lakeshore Pumping Station	PM	Refurbish/ Replace/Repair	1	MONTHS	Portable Generator Inspect/Service 5726 (1m)	CLOSE	2/1/25 12:00 AM	2/28/25 03:42 PM	2/28/25 03:42 PM	Tested -Assisted Trevor by showing him how to properly run/test the portable generator. Portable Generator Inspect/Service 5726 (1m) - Inspected and tested portable diesel generator for the Brewster St SPS for 30min. No issues found during inspection.

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Workorder Summary Report

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Location: 5726*
Work Order Type: CALL,CAP,CORR,EMER,OPER,PM
Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4376831	0000277374	ENGINE DIESEL	5726, Haileybury STP, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Genset Inspection/ Functional Test (1m) 5726	CLOSE	2/1/25 12:00 AM	2/27/25 07:34 AM	2/27/25 07:34 AM	Diesel Generator Genset Inspection/ Functional Test - Inspected and tested Diesel Generator with load for 45mins. Power transfer worked properly and no issues found.
4376847			5726, Haileybury STP	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 5726	CLOSE	2/1/25 12:00 AM	2/20/25 08:31 AM	2/20/25 08:31 AM	TPM Inspection/Maintenance - WWTP TPM inspection ; All exit lights working, door ways clear of obstructions, All fire extinguishers inspected, ventilation and heat working properly.
4380987			5726, Haileybury STP, Facility	CALL	Refurbish/ Replace/Repair	0		Intrusion Alarm at Haileybury STP 5726	CLOSE		2/18/25 07:11 PM	2/18/25 07:15 PM	Intrusion Alarm at Haileybury STP -Call at 1726 for a major alarm. Logged into Scada remotely and noticed an intrusion alarm was active. Drove to site and arrived at 1749. Walked around the building and all doors were closed. I pulled on the compressor room door as I noticed somebody snow blowed earlier in the day, sure enough the door was not latched. I disabled the alarm and made sure all doors were latched and locked and I reenabled the intrusion alarm before leaving site.
4382256			5726, Haileybury STP	CAP	Refurbish/ Replace/Repair	0		Replace Failed Clarifier Level Monitor Wiper Blades 5726	CLOSE		4/29/25 11:58 AM	4/29/25 11:58 AM	Ordered Parts -
4382310			5726, Haileybury STP	CAP	Refurbish/ Replace/Repair	0		Replace Faulty Return Blower Selector Switch 5726	CLOSE		3/5/25 02:58 PM	3/5/25 02:58 PM	- Isolate circuit, remove old switch and replace with new one.

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Workorder Summary Report

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Location: 5726*
Work Order Type: CALL,CAP,CORR,EMER,OPER,PM
Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4387075	0000293160	ANALYZER CHLORINE PORTABLE Farr Dr. PS	5726, Farr Pumping Station	PM	Inspection	1	MONTHS	Analyzer Chlorine Portable Farr Dr Inspection/Service (1m) 5726	CLOSE	3/1/25 12:00 AM	3/7/25 02:56 PM	3/7/25 02:56 PM	- lot number A3352 expiry dec 2025 asset number 293160 standards handheld std 1 0.24 0.25 std 2 0.96 0.95 std 3 1.60 1.57
4403035	0000076750	GENERATOR 25KW Portable Generator	5726, Lakeshore Pumping Station	PM	Refurbish/ Replace/Repair	1	MONTHS	Portable Generator Inspect/Service 5726 (1m)	CLOSE	3/1/25 12:00 AM	3/6/25 03:15 PM	3/6/25 03:15 PM	Portable Generator Inspect/Service 5726 - Tested and inspected Brewster SPS Portable Genset at Town Garage. All readings and levels are in the proper ranges. No issues with start up and no alarms relating to the Auxiliary fault alarm. Voltage was sitting at 600v across the board.
4422600	0000277374	ENGINE DIESEL	5726, Haileybury STP, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Genset Inspection/ Functional Test (1m) 5726	CLOSE	3/1/25 12:00 AM	3/4/25 03:54 PM	3/4/25 03:54 PM	- recorded generator hours, checked oil, coolant ran for 30 minutes and recorded numbers put back in auto
4422616			5726, Haileybury STP	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 5726	CLOSE	3/1/25 12:00 AM	3/26/25 03:23 PM	3/26/25 03:23 PM	- no unusual sounds all vents are in good working condition didn't notice any weird smells throughout the month blowers have the right amount of oil

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Workorder Summary Report

Report Start Date: Jan 1, 2025 12:00 AM
Report End Date: Dec 31, 2025 11:59 PM
Location: 5726*
Work Order Type: CALL,CAP,CORR,EMER,OPER,PM
Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4426775			5726, Farr Pumping Station	CALL	Predictive Maintenance	0		Called In - Pump Fault and Lockout at Farr SPS during high flows, 5726	CLOSE		3/16/25 04:08 PM	3/16/25 05:00 PM	Called In - Pump Fault and Lockout at Farr SPS, 5726 - Called in at Farr SPS. Logged in remotely and pump 1 lockout and would not reset on SCADA. Drove to site and turned off the break to pump 1 and waited a min and turned back on and was able to reset the lockout/ fault on SCADA and pump started back up. Wetwell level reached 3.64m and overflow starts at 3.65m. Therefore no overflow. Pump fault caused from over temp according to VFD display.
4426957			5726, Farr Pumping Station	CALL	Refurbish/ Replace/Repair	0		haileybury stp flow exceedence 5726	CLOSE		3/17/25 11:25 PM	3/18/25 12:15 AM	total daily flow exceedence - As per oic Got called at 23:05 for total flow exceedence for Haileybury wwtp. Collected effluent grab samples from Farr drive. Completed in house temperature and ph reading of effluent
4433849	0000060067	SAMPLER EFFLUENT FINAL 01 MONTHLY COMPOSITE	5726, Haileybury STP, Facility	PM	Refurbish/ Replace/Repair	1	YEARS	Sampler Effluent Final Inspection (1y) 5726	CLOSE	4/1/25 12:00 AM	6/20/25 02:35 PM	6/20/25 02:35 PM	-Replaced tubing, inspected sampler, verified calibration and operation
4433858	0000293190	SAMPLER Raw	5726, Haileybury STP, Process, Headworks	PM	Refurbish/ Replace/Repair	1	YEARS	Sampler Raw Inspection (1y) 5726	CLOSE	4/1/25 12:00 AM	4/4/25 08:59 AM	4/4/25 08:59 AM	-Inspected sampler for proper operation. Verified calibration and adjusted sample hose for proper slope to help prevent freezing of line.

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4433867	0000076735	TANK STORAGE 02 WET WELL	5726, Farr Pumping Station	PM	Refurbish/ Replace/Repair	6	MONTHS	Tank Wet Well 02 Inspection (6m) 5726	CLOSE	4/1/25 12:00 AM	7/18/25 02:47 PM	7/18/25 02:47 PM	Tank Wet Well 02 Inspection (6m) 5726 -Hatches were very hard to open. Wet well in good condition
4433870	0000277382	METER FLOW 01 EFFLUENT	5726, Haileybury STP, Process, Process Controls	PM	Calibration	1	YEARS	Meter Flow Stp #1 Effluent Calibration (1y) 5726	CLOSE	4/1/25 12:00 AM	4/4/25 09:00 AM	4/4/25 09:00 AM	-Please refer to shared drive for cal slip.
4433876	0000277383	METER FLOW 02 EFFLUENT	5726, Haileybury STP, Process, Process Controls	PM	Calibration	1	YEARS	Meter Flow Stp #2 Effluent Calibration (1y) 5726	CLOSE	4/1/25 12:00 AM	4/4/25 09:02 AM	4/4/25 09:02 AM	-Please refer to shared drive for cal slip.
4433924	0000293160	ANALYZER CHLORINE PORTABLE Farr Dr. PS	5726, Farr Pumping Station	PM	Inspection	1	MONTHS	Analyzer Chlorine Portable Farr Dr Inspection/Service (1m) 5726	CLOSE	4/1/25 12:00 AM	4/29/25 09:16 AM	4/29/25 09:16 AM	Analyzer Chlorine Portable Farr Dr Inspection/Service (1m) 5726 - Completed verification and results listed below are within tolerance: STD1: 0.24 STD2: 0.95 STD3: 1.57
4450589	0000277386	DATALOGGER STP	5726, Haileybury STP, Process, Process Controls	PM	Calibration	1	YEARS	DATALOGGER CALIBRATION VERIFICATION (1Y) 5726	CLOSE	4/1/25 12:00 AM	4/23/25 09:37 AM	4/23/25 09:37 AM	- Verify calibration of recorder by applying an equivalent mA input at 0, 25, 50,75 and 100% levels and compare to display.
4450718	0000293304	RECORDER DATALOGGER SPS	5726, Farr Pumping Station	PM	Calibration	1	YEARS	DATALOGGER FARR SPS CALIBRATION / VERIF (1Y) 5726	CLOSE	4/1/25 12:00 AM	4/23/25 09:43 AM	4/23/25 09:43 AM	- Use a Fluke processmeter to apply an equivalent mA value to 0, 25, 50, 75 and 100% level reading and compare to display on recorder. Unit needed no adjustment.
4452770	0000076750	GENERATOR 25KW Portable Generator	5726, Lakeshore Pumping Station	PM	Refurbish/ Replace/Repair	1	MONTHS	Portable Generator Inspect/Service 5726 (1m)	CLOSE	4/1/25 12:00 AM	4/14/25 03:54 PM	4/14/25 03:54 PM	Portable Generator Inspect/Service 5726 (1m) - Competed genset test: checked fuel, coolant, block heater and oil. ok no faults displayed recorded running values on sheet.
4453012	0000293147	PORTABLE DO METER	5726, Haileybury STP, Facility	PM	Inspection	3	MONTHS	Analyzer Dissolved Oxygen/pH Portable Calibration/Inspection (3m) 5726	CLOSE	4/1/25 12:00 AM	4/4/25 02:30 PM	4/4/25 02:30 PM	-Please refer to shared drive for cal slip

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4453031	0000293627	TRANSMITTER PRESSURE AIR HEADER	5726, Haileybury STP, Process, Piping and Valves	PM	Refurbish/ Replace/Repair	1	YEARS	Transmitter Pressure Air Header Calibration (1Y) 5726	CLOSE	4/1/25 12:00 AM	4/8/25 02:36 PM	4/8/25 02:36 PM	-Please refer to shared drive for cal slip.
4454317	0000277379	TRANSMITTER LEVEL WETWELL	5726, Lakeshore Pumping Station	PM	Calibration	1	YEARS	METER LEVEL LAKESHORE SPS OPERATION / VERIF. (1Y) 5726	CLOSE	4/1/25 12:00 AM	7/23/25 11:29 AM	7/23/25 11:29 AM	-See shared drive for cal slip
4464911	0000293700	ANALYZER PH Ultrapen Farr Pumping St.	5726, Farr Pumping Station	PM	Calibration	3	MONTHS	Analyzer pH Ultrapen Calibration (3m) 5726	CLOSE	4/1/25 12:00 AM	4/4/25 02:37 PM	4/4/25 02:37 PM	-Please refer to shared drive for cal slip
4468237	0000293183	ANALYZER DO Haileybury STP 1	5726, Haileybury STP, Process	PM	Inspection	1	YEARS	Analyzer DO Plant 1 Calibration 5726 (1y)	CLOSE	4/1/25 12:00 AM	4/29/25 08:33 AM	4/29/25 08:33 AM	-Please refer to shared drive for cal slip.
4468242	0000293184	ANALYZER DO Haileybury STP 2	5726, Haileybury STP, Process	PM	Inspection	1	YEARS	Analyzer DO Plant 2 Calibration 5726 (1y)	CLOSE	4/1/25 12:00 AM	4/29/25 08:36 AM	4/29/25 08:36 AM	-Please refer to shared drive for cal slip.
4483397	0000277374	ENGINE DIESEL	5726, Haileybury STP, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Genset Inspection/ Functional Test (1m) 5726	CLOSE	4/1/25 12:00 AM	5/1/25 04:38 PM	5/1/25 04:38 PM	Diesel Generator Genset Inspection/ Functional Test (1m) 5726 - Completed genset test: checked fuel, coolant, block heater and oil level no faults displayed recorded running values on sheet.
4483424			5726, Haileybury STP	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 5726	CLOSE	4/1/25 12:00 AM	5/1/25 04:41 PM	5/1/25 04:41 PM	TPM Inspection/Maintenance (1m) 5726 - Visually checked rake on plant 1 and plant 2. Completed wasting on weekly basis. ok Visually checked main blower oil level. Ok Visually checked exterior blowers. ok Switched farr sps wetwell pumps on weekly basis

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4489751			5726, Farr Pumping Station	CALL	Refurbish/ Replace/Repair	0		Farr SPS reprogramming/NL Lagoon sampling	CLOSE		4/27/25 07:30 AM	4/27/25 11:00 AM	Farr SPS reprogramming/NL Lagoon sampling -Re-programmed sampler at Farr Drive SPS due to flow exceedances and took samples from New Liskeard Lagoon due to flow exceedances.
4494487	293785	PUMP DIAPHRAGM 01 HYPO	5726, Haileybury STP	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Diaphragm Hypo 01 Inspection/Service (1y) 5726	CLOSE	5/1/25 12:00 AM	9/19/25 12:51 PM	9/19/25 12:51 PM	Pump Diaphragm Hypo 01 Inspection/Service (1y) 5726 - Performed visual inspection of hypo pump and ensured no leaks/defects. Pump was pumping according to pace to flow settings.
4494493	293786	PUMP DIAPHRAGM 02 HYPO	5726, Haileybury STP	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Diaphragm Hypo 02 Inspection/Service (1y) 5726	CLOSE	5/1/25 12:00 AM	9/19/25 12:52 PM	9/19/25 12:52 PM	Pump Diaphragm Hypo 02 Inspection/Service (1y) 5726 - Performed visual inspection of hypo pump and ensured no leaks/defects. Pump was pumping according to pace to flow settings.
4494573	0000293160	ANALYZER CHLORINE PORTABLE Farr Dr. PS	5726, Farr Pumping Station	PM	Inspection	1	MONTHS	Analyzer Chlorine Portable Farr Dr Inspection/Service (1m) 5726	CLOSE	5/1/25 12:00 AM	5/27/25 11:57 AM	5/27/25 11:57 AM	Analyzer Chlorine Portable Farr Dr Inspection/Service (1m) 5726 - Visually inspected pocket colorimeter Performed verification using standards DPD-Chlorine-LR Secondary standards kit CAT no: 2635300 Lot A3348 Exp: Dec-25 Blank: 0.00 STD1: 0.25 STD2: 0.95 STD3: 1.57
4512639	0000076750	GENERATOR 25KW Portable Generator	5726, Lakeshore Pumping Station	PM	Refurbish/ Replace/Repair	1	MONTHS	Portable Generator Inspect/Service 5726 (1m)	CLOSE	5/1/25 12:00 AM	5/27/25 11:55 AM	5/27/25 11:55 AM	Portable Generator Inspect/Service 5726 (1m) - Visually inspected generator. Performed monthly generator pm. Filled out generator maintenance sheet.

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4539261			5726, Farr Pumping Station	OPER	Inspection	1	YEARS	Grating Insp (1y) - 5726, Farr Pumping Station	CLOSE	5/1/25 12:00 AM	6/20/25 08:54 AM	6/20/25 08:54 AM	-Report submitted to the health and safety rep Mark Ziller
4539273			5726, Haileybury STP	OPER	Inspection	1	YEARS	Grating Insp (1y) - 5726, Haileybury STP	CLOSE	5/1/25 12:00 AM	6/17/25 03:41 PM	6/17/25 03:41 PM	Annual Grating Inspection - Checked all the gratings from the bar screen/grit channel area and Plant 2 walkway to the clarifier, all stair gratings and toe boards. Plant 1 toe boards are good and walkways are steel plates.
4539285			5726, Lakeshore Pumping Station	OPER	Inspection	1	YEARS	Grating Insp (1y) - 5726, Lakeshore Pumping Station	CLOSE	5/1/25 12:00 AM	7/3/25 06:07 AM	7/3/25 06:07 AM	No Surface Grating on SIte -
4549992	0000277374	ENGINE DIESEL	5726, Haileybury STP, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Genset Inspection/ Functional Test (1m) 5726	CLOSE	5/1/25 12:00 AM	5/21/25 03:44 PM	5/21/25 03:44 PM	Diesel Generator Genset Inspection/ Functional Test (1m) 5726 - Visually inspected generator. Performed monthly generator pm. Filled out generator maintenance sheet.
4550008			5726, Haileybury STP	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 5726	CLOSE	5/1/25 12:00 AM	5/27/25 02:26 PM	5/27/25 02:26 PM	TPM Inspection/Maintenance (1m) 5726 - Toured facility. Anchors on post of loading dock are partially pulled out of the concrete.
4550028	0000060189	TANK PROCESS 01 CLARIFIER	5726, Haileybury STP, Process, Secondary Treatment	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Clarifier #1 Inspection/Service (1y) 5726	CLOSE	5/1/25 12:00 AM	10/6/25 02:49 PM	10/6/25 02:49 PM	Tank 1 Clarifier #1 Inspection/ Service -Cleaned the debris from the clarifier ring and checked scum trap. Checked the clarifier arm for proper operation and lubrication. Replace the fibreglass covers for the winter season.
4550042	0000060167	TANK PROCESS 02 CLARIFIER	5726, Haileybury STP, Process, Secondary Treatment	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Clarifier #2 Inspection/Service (1y) 5726	CLOSE	5/1/25 12:00 AM	10/6/25 02:51 PM	10/6/25 02:51 PM	Tank #2 Clarifier Inspection/Service -Cleaned the debris from the clarifier ring and checked scum trap. Checked the clarifier arm for proper operation and lubrication. Replace the fibreglass covers for the winter season.

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4550056	0000060174	GRINDER COMMINUTOR 02	5726, Haileybury STP, Process, Headworks	PM	Refurbish/ Replace/Repair	1	YEARS	Grinder Clean/Inspection (1y) 5726	CLOSE	5/1/25 12:00 AM	11/3/25 11:24 AM	11/3/25 11:24 AM	Grinder Clean Inspection -Grinder working as per normal. No issues found with excess rags and debris that require attention. Bearings have adequate grease and gear oil OK.
4551786			5726, Haileybury STP	CAP	Refurbish/ Replace/Repair	0		PM Kits For De-chlore Pump 5726	CLOSE		5/29/25 12:39 PM	5/29/25 12:39 PM	
4551787			5726, Haileybury STP	CAP	Refurbish/ Replace/Repair	0		Replace Failed Sludge Level Sensor 5726	CLOSE		5/29/25 12:31 PM	5/29/25 12:31 PM	
4554217			5726, Haileybury STP	CORR	Predictive Maintenance	0		Plant 1 - changed wiper on Hack Sonatax sc Sludge Level at Hai STP, 5726	CLOSE		5/16/25 01:53 PM	5/16/25 01:53 PM	Plant 1 - changed wiper on Hack Sonatax sc Sludge Level at Hai STP, 5726 - Removed the Sludge Level from the clarifier and cleaned it. Replace the wiper and reset hours. Inspector sensor. ok
4558118			5726, Haileybury STP	PM	Compliance	1	YEARS	Facility Emergency Plan Review (1y) 5726	CLOSE	6/1/25 12:00 AM	8/18/25 07:49 AM	8/18/25 07:49 AM	Facility Emergency Plan Review (1y) 5726 -FEP binder reviewed and updated as needed. Facility Emergency Plan Review (1y) 5726 -FEP binder reviewed by operator during meeting.
4558119			5726, Haileybury STP	PM	Compliance	1	YEARS	FEP Site Contingency Plan Review (1y) 5726	CLOSE	6/1/25 12:00 AM	10/30/25 06:32 AM	10/30/25 06:32 AM	FEP Site Contingency Plan Review (1y) 5726 -Completed annual contingency plan review and test (Spill Response)
4283330			5726, Haileybury STP	OPER	HEALTH AND SAFETY	1	YEARS	OCWA Annual Workplace Inspection (1y) 5726	CLOSE	1/1/25 12:00 AM	3/14/25 03:29 PM	3/14/25 03:29 PM	Haileybury STP Annual Workplace Inspection -Performed annual building inspection and noted three items that required more attention. New fire extinguisher tags, a new WSIB Form 82 was needed and the SCBA unit should be mounted to the wall.

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4561107	0000060270	ANALYZER CHLORINE PORTABLE HAILEYBURY STP	5726, Haileybury STP, Process	PM	Inspection	1	MONTHS	Analyzer Chlorine Portable-Inspection/Service Hail STP (1m) 5752	CLOSE	6/1/25 12:00 AM	6/8/25 03:54 PM	6/8/25 03:54 PM	Analyzer Chlorine Portable-Inspection/Service Hail STP (1m) 5752 - Verification with Hlby STP portable chlorine meter; STD 1: 0.23, STD 2: 0.86, STD 3: 1.44.
4561122	0000293160	ANALYZER CHLORINE PORTABLE Farr Dr. PS	5726, Farr Pumping Station	PM	Inspection	1	MONTHS	Analyzer Chlorine Portable Farr Dr Inspection/Service (1m) 5726	CLOSE	6/1/25 12:00 AM	6/8/25 04:00 PM	6/8/25 04:00 PM	Analyzer Chlorine Portable Farr Dr Inspection/Service (1m) 5726 - Farr Dr SPS Portable chlorine meter verification; STD 1: 0.24, STD 2: 0.94, STD 3: 1.56. All in range.
4580576	0000076750	GENERATOR 25KW Portable Generator	5726, Lakeshore Pumping Station	PM	Refurbish/ Replace/Repair	1	MONTHS	Portable Generator Inspect/Service 5726 (1m)	CLOSE	6/1/25 12:00 AM	6/27/25 03:14 PM	6/27/25 03:14 PM	Portable Generator Inspect/Service 5726 (1m) -Ran and tested the Lakeshore SPS (Brewster St) portable diesel generator for 1 hour. Started on first try, levels look good, no unusual noises or leaks.
4603079	0000277374	ENGINE DIESEL	5726, Haileybury STP, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Genset Inspection/ Functional Test (1m) 5726	CLOSE	6/1/25 12:00 AM	6/8/25 03:52 PM	6/8/25 03:52 PM	Diesel Generator Genset Inspection/ Functional Test (1m) 5726 - Inspected and tested diesel generator a HLBY STP for 30mins with load. Started on 2nd try. Recorded numbers and levels, no leaks found.
4603095			5726, Haileybury STP	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 5726	CLOSE	6/1/25 12:00 AM	6/8/25 03:56 PM	6/8/25 03:56 PM	TPM Inspection/Maintenance (1m) 5726 - TPM inspections; checked ventilation for blowers no blockages, exit signs are visible, lighting is good in all rooms, doors clear of obstructions.

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4605969			5726, Lakeshore Pumping Station	CALL	Refurbish/ Replace/Repair	0		Critical alarm due to power flic Lakeshore PS 5726	CLOSE		6/10/25 07:45 AM	6/10/25 07:50 AM	- Called for a critical alarm. Arrived to find UPS off and in alarm. Plc was dead along with LIT. Reset UPS and made sure hydro power meter was on. Restored operation and monitored station for a bit. Checked both pumps operation. OK.
4606170			5726, Haileybury STP	CORR	Refurbish/ Replace/Repair	0		Hai STP - Hypo Leak Repair	CLOSE		6/11/25 03:54 PM	6/11/25 03:54 PM	Hai STP - Hypo Leak Repair - Severe hypo leak after the pump. causing low chlorine residual in the contact chamber. Replace a 3/8" and 1/2" on hypo pump 1. Primed the pump and chlorine increased.
4609146			5726, Haileybury STP	CAP	Refurbish/ Replace/Repair	0		Replace Failed Smoke Alarm In Hypo Room STP 5726	CLOSE		8/19/25 01:01 PM	8/19/25 01:01 PM	
4619428	0000277374	ENGINE DIESEL	5726, Haileybury STP, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Genset Inspection/ Functional Test (1m) 5726	CLOSE	7/1/25 12:00 AM	7/16/25 03:42 PM	7/16/25 03:42 PM	-Checked the oil, coolant and fuel levels, Checked the block heater operation. All OK. Ran for 52 min and then recorded the operational data. put back in auto
4619444			5726, Haileybury STP	PM	Refurbish/ Replace/Repair	1	YEARS	Diesel Generator Genset Inspection/ Functional Test (1y) 5726	CLOSE	7/1/25 12:00 AM	7/17/25 09:44 AM	7/17/25 09:44 AM	
4619456			5726, Haileybury STP	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 5726	CLOSE	7/1/25 12:00 AM	7/25/25 02:58 PM	7/25/25 02:58 PM	- Visually checked oil when blower at rest. oil level good Visually checked belt at rest and in use. belt looks good no unusual sounds. grinder for plant 2 back up and running now.
4621155	0000293160	ANALYZER CHLORINE PORTABLE Farr Dr. PS	5726, Farr Pumping Station	PM	Refurbish/ Replace/Repair	6	MONTHS	Analyzer Chlorine Portable Farr PS Inspection (6m) 5752	CLOSE	7/1/25 12:00 AM	7/23/25 11:28 AM	7/23/25 11:28 AM	-See shared drive for cal slip

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4623844			5726, Farr Pumping Station	CALL	Refurbish/ Replace/Repair	0		Hydro Power Failure at Farr SPS 5726	CLOSE		7/1/25 01:49 PM	7/1/25 01:53 PM	Hydro Power Failure at Farr SPS 5726 -Got a call for a critical alarm at Farr SPS at 2150. Tried to log in remotely but couldn't access. Drove to site and noticed the hydro power failure alarm was active and no pumps were running. The level was at 1.76m. No worry for a high level. All surrounding houses had power. I tried to reset the breaker 2 times with no success to clear the alarm. I tried to run the pump in manual with the switch with no success but could run it in manual on the HMI. I went up to the STP to verify there were no issues with the generator. All good. Went back to Farr SPS, tried to reset the breaker for longer, no success and pump 2 VFD now has a fault showing to replace the battery. I had no success to clear the fault on the VFD. Called Marc and he recommended to check the relay in the PLC cabinet at Farr. I touched the relay and it cleared the alarm right away. Pump 1 started running instantly. Pump 2 is off until it can be looked at

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4624442	0000060172	TANK PROCESS CONTACT CHAMBER 02	5726, Haileybury STP, Process, Disinfection	PM	Refurbish/ Replace/Repair	6	MONTHS	Gritt Channels and Contact Chamber Inspection (6m) 5726	CLOSE	7/1/25 12:00 AM	9/19/25 07:52 AM	9/19/25 07:52 AM	Gritt Channels and Contact Chamber Inspection (6m) 5726 - Cleaned the bar screen and all three grit channels with City Vac Truck and low pressure washer. Cleaned contact chamber #2 with 3" hose. There was not much solids. Gritt Channels and Contact Chamber Inspection (6m) 5726 -Vacuumed and pressured washed Haileybury STP grit channels, grating, barscreens, weirs and plant 2 contact chamber with Cassie and Ken from township.

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Work Order Type: CALL,CAP,CORR,EMER,OPER,PM
Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4624461	0000076731	TANK STORAGE 01 WET WELL	5726, Lakeshore Pumping Station	PM	Refurbish/ Replace/Repair	6	MONTHS	Tank Wet Well Farr Drive Inspection (6m) 5726	CLOSE	7/1/25 12:00 AM	9/19/25 07:53 AM	9/19/25 07:53 AM	Tank Wet Well Farr Drive Inspection (6m) 5726 - Manually started pump to drain wetwell and exposed top of intake pipes. Cleaned wetwell with high pressure washer and hot water. Inspected concrete structure and frost straps. ok Located high level floats. Tank Wet Well Farr Drive Inspection (6m) 5726 -Pressure washed Farr Dr SPS grating, bar screens, piping and concrete walls with Cassie and Ken. Farr Dr SPS & Brewster SPS Wet Well inspection - Concrete walls look good no cracking, no signs of infiltration. Grating is good and cleared . Float level sensors are clean and wires look good. Ladder looks good and intact.
4624491	0000060270	ANALYZER CHLORINE PORTABLE HAILEYBURY STP	5726, Haileybury STP, Process	PM	Inspection	1	MONTHS	Analyzer Chlorine Portable-Inspection/Service Hail STP (1m) 5752	CLOSE	7/1/25 12:00 AM	7/18/25 03:52 PM	7/18/25 03:52 PM	- lot number A3348 exp dec 2025 standard results std 1 0.23 0.22 std 2 0.89 0.87 std 3 1.48 1.45
4624506	0000293160	ANALYZER CHLORINE PORTABLE Farr Dr. PS	5726, Farr Pumping Station	PM	Inspection	1	MONTHS	Analyzer Chlorine Portable Farr Dr Inspection/Service (1m) 5726	CLOSE	7/1/25 12:00 AM	7/23/25 03:40 PM	7/23/25 03:40 PM	- expiry dec 2025 lot number A3348 asset number 0000293160 standards results std 1 0.25 mg/l 0.23 mg/l std 2 0.96 v 0.94 v std 3 1.60 v 1.57 v

ONTARIO CLEAN WATER AGENCY
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Workorder Summary Report

Report Start Date: Jan 1, 2025 12:00 AM
Report End Date: Dec 31, 2025 11:59 PM
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Work Order Type: CALL,CAP,CORR,EMER,OPER,PM
Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4642166	0000076750	GENERATOR 25KW Portable Generator	5726, Lakeshore Pumping Station	PM	Refurbish/ Replace/Repair	1	MONTHS	Portable Generator Inspect/Service 5726 (1m)	CLOSE	7/2/25 12:00 AM	7/15/25 03:34 PM	7/15/25 03:34 PM	- Checked the oil, coolant and fuel levels, Checked the block heater operation. All OK. Ran for 40 min and then recorded the operational data on the monthly checklist.
4643044	0000293147	PORTABLE DO METER	5726, Haileybury STP, Facility	PM	Inspection	3	MONTHS	Analyzer Dissolved Oxygen/pH Portable Calibration/Inspection (3m) 5726	CLOSE	7/2/25 12:00 AM	7/23/25 11:25 AM	7/23/25 11:25 AM	-See shared drive for cal slip
4655951	0000293700	ANALYZER PH Ultrapen Farr Pumping St.	5726, Farr Pumping Station	PM	Calibration	3	MONTHS	Analyzer pH Ultrapen Calibration (3m) 5726	CLOSE	7/3/25 12:00 AM	7/23/25 11:11 AM	7/23/25 11:11 AM	- Calibrated pH pen against Hach Singlet prepackaged buffer solutions as per manufactures instruction.
4660421			5726, Haileybury STP, Facility	CALL	Inspection	0		Intrusion Alarm Haileybury STP 5726	CLOSE		7/8/25 08:06 AM	7/8/25 08:13 AM	-Called for major alarm at Haileybury STP, Checked SCADA for an intrusion alarm. Inspect grounds and all doors. Found blower room door unlocked. Entered building and looked around, all OK. Secured door and reset alarm.
4660455			5726, Farr Pumping Station	CAP	Refurbish/ Replace/Repair	0		Replace Faulty Power Fail Relay at Farr Drive SPS 5726	CLOSE		8/19/25 12:13 PM	8/19/25 12:13 PM	
4663733			5726, Haileybury STP, Process, Headworks	CORR	Refurbish/ Replace/Repair	0		Repair No 2 Plant grinder wiring 5726	CLOSE		7/24/25 03:47 PM	7/24/25 03:47 PM	-Wiring in ground from local disconnect to grinder was shorted causing the drive to trip out. Found some used tech and replaced wire from disconnect to grinder to restore operation.

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4669161	0000060270	ANALYZER CHLORINE PORTABLE HAILEYBURY STP	5726, Haileybury STP, Process	PM	Inspection	1	MONTHS	Analyzer Chlorine Portable-Inspection/Service Hail STP (1m) 5752	CLOSE	8/1/25 12:00 AM	8/13/25 06:57 PM	8/13/25 06:57 PM	Analyzer Chlorine Portable-Inspection/Service Hail STP (1m) 5752 - Completed verification and results listed below are within tolerance: STD1: 0.22 STD2: 0.86 STD3: 1.43 Hach DPD Chlorine LR Secondary Standard Kit - Cat No. 2635300 Lot A3348 Exp Dec 25
4669176	0000293160	ANALYZER CHLORINE PORTABLE Farr Dr. PS	5726, Farr Pumping Station	PM	Inspection	1	MONTHS	Analyzer Chlorine Portable Farr Dr Inspection/Service (1m) 5726	CLOSE	8/1/25 12:00 AM	8/28/25 11:47 AM	8/28/25 11:47 AM	Analyzer Chlorine Portable Farr Dr Inspection/Service (1m) 5726 - Completed verification and results listed below are within tolerance: STD1: 0.26 STD2: 0.96 STD3: 1.58
4684820	0000076750	GENERATOR 25KW Portable Generator	5726, Lakeshore Pumping Station	PM	Refurbish/ Replace/Repair	1	MONTHS	Portable Generator Inspect/Service 5726 (1m)	CLOSE	8/1/25 12:00 AM	8/20/25 10:08 AM	8/20/25 10:08 AM	- recorded generator hours, fuel level and oil level. checked block heater. good. ran for 30 minutes recorded generator sheet numbers while in operation. recorded generator hours - -
4706357	0000277374	ENGINE DIESEL	5726, Haileybury STP, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Genset Inspection/ Functional Test (1m) 5726	CLOSE	8/2/25 12:00 AM	8/7/25 08:02 AM	8/7/25 08:02 AM	Diesel Generator Genset Inspection/ Functional Test (1m) 5726 - Completed genset test: checked fuel, coolant, block heater and oil. ok no faults displayed recorded running values on sheet

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Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4706373			5726, Haileybury STP	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 5726	CLOSE	8/2/25 12:00 AM	8/29/25 03:11 PM	8/29/25 03:11 PM	TPM Inspection/Maintenance (1m) 5726 - Visually checked oil levels of all blowers and recorded hours. Stitched duty blower on weekly basis.
4706778			5726, Haileybury STP, Facility	CALL	Refurbish/ Replace/Repair	0		Power fail Causing Blower Failure Hail STP 5726	CLOSE		8/3/25 01:19 PM	8/3/25 01:24 PM	-Called for major alarm due to blower belt slipping causing reduced air pressure. Powered up spare blower and checked plant operation. Adjusted air pressure to approx 8 psi. Sampled effluent at Farr drive.
4709039			5726, Farr Pumping Station	CAP	Refurbish/ Replace/Repair	0		Replace Failed PH Probe 5726	CLOSE		9/16/25 08:41 AM	9/16/25 08:41 AM	
4709070			5726, Haileybury STP	CAP	Refurbish/ Replace/Repair	0		Replace Failing Dechlore Pump 5726	CLOSE		8/28/25 03:05 PM	8/28/25 03:05 PM	Replace Failing Dechlore Pump 5726 -Replaced faulty dechlor pump with Marc and made sure it was operating properly
4711624			5726, Haileybury STP	CAP	Refurbish/ Replace/Repair	0		Replacement Belts and Sheaves for Aerzen Blower 5726	CLOSE		9/25/25 08:17 AM	9/25/25 08:17 AM	-Nov 10 Attempt to replace pulleys and belt but they were the wrong ones. Attempted to re align belt but it proved to be difficult. -Nov 12 Used a laser to align pulleys but belt still wants to walk off of the blower pulley because there is no end plate on the pulley. Will order another one and replace it .

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				WorkOrder		PM Schedule		Workorder Details					
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4716349	0000060270	ANALYZER CHLORINE PORTABLE HAILEYBURY STP	5726, Haileybury STP, Process	PM	Inspection	1	MONTHS	Analyzer Chlorine Portable-Inspection/Service Hail STP (1m) 5752	CLOSE	9/1/25 12:00 AM	9/4/25 03:19 PM	9/4/25 03:19 PM	Analyzer Chlorine Portable-Inspection/Service Hail STP (1m) 5752 - Visually inspected pocket colorimeter Performed verification using standards DPD-Chlorine-LR Secondary standards kit CAT no: 2635300 Lot A3348 Exp: Dec-25 Blank: 0.00 STD1: 0.23 STD2: 0.88 STD3: 1.45
4716364	0000293160	ANALYZER CHLORINE PORTABLE Farr Dr. PS	5726, Farr Pumping Station	PM	Inspection	1	MONTHS	Analyzer Chlorine Portable Farr Dr Inspection/Service (1m) 5726	CLOSE	9/1/25 12:00 AM	9/4/25 03:24 PM	9/4/25 03:24 PM	Analyzer Chlorine Portable Farr Dr Inspection/Service (1m) 5726 - Visually inspected pocket colorimeter Performed verification using standards DPD-Chlorine-LR Secondary standards kit CAT no: 2635300 Lot A3348 Exp: Dec-25 Blank: 0.00 STD1: 0.27 STD2: 0.96 STD3: 1.58
4734756	0000076750	GENERATOR 25KW Portable Generator	5726, Lakeshore Pumping Station	PM	Refurbish/ Replace/Repair	1	MONTHS	Portable Generator Inspect/Service 5726 (1m)	CLOSE	9/1/25 12:00 AM	9/5/25 03:29 PM	9/5/25 03:29 PM	Portable Generator Inspect/Service 5726 (1m) - Visually inspected generator. Performed monthly generator pm. Filled out generator maintenance sheet.

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4758442	0000277374	ENGINE DIESEL	5726, Haileybury STP, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Genset Inspection/ Functional Test (1m) 5726	CLOSE	9/2/25 12:00 AM	9/9/25 02:38 PM	9/9/25 02:38 PM	Diesel Generator Genset Inspection/ Functional Test (1m) 5726 - Visually inspected generator. Performed monthly generator pm. Filled out generator maintenance sheet.
4758458			5726, Haileybury STP	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 5726	CLOSE	9/2/25 12:00 AM	9/11/25 07:41 AM	9/11/25 07:41 AM	TPM Inspection/Maintenance (1m) 5726 - Toured facility and inspected equipment visually and audibly for any abnormalities.
4761355			5726, Haileybury STP	CAP	Refurbish/ Replace/Repair	0		Electra Effluent Flow Verification For EXP	BUSCOMP		11/25/25 09:23 AM	12/2/25 09:45 AM	
4766242			5726, Haileybury STP	PM	Compliance	2	YEARS	Operation SOP Manual Review and Update (2y) 5726	CLOSE	10/1/25 12:00 AM	10/1/25 07:35 AM	10/1/25 07:35 AM	Operation SOP Manual Review and Update (2y) 5726 -O&M and FEP binder review and updated completed in April 2025.

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				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4769447	0000076735	TANK STORAGE 02 WET WELL	5726, Farr Pumping Station	PM	Refurbish/ Replace/Repair	6	MONTHS	Tank Wet Well 02 Inspection (6m) 5726	COMP	10/1/25 12:00 AM	12/19/25 01:53 PM	12/19/25 01:53 PM	Tank Wet Well 02 Inspection (6m) 5726 - Sept 17, 2025 - Pressure washed Farr Dr SPS grating, bar screens, piping and concrete walls with Cassie and Ken. Farr Dr SPS & Brewster SPS Wet Well inspection - Concrete walls look good no cracking, no signs of infiltration. Grating is good and cleared . Float level sensors are clean and wires look good. Ladder looks good and intact. Dec 18, 2025 - Inspected Farr Dr SPS tank wet well, no damage on wall structure, hatches are working, ladder looks intact, exhaust pipes are clear and well looks clean.
4769483	0000060270	ANALYZER CHLORINE PORTABLE HAILEYBURY STP	5726, Haileybury STP, Process	PM	Inspection	1	MONTHS	Analyzer Chlorine Portable-Inspection/Service Hail STP (1m) 5752	CLOSE	10/1/25 12:00 AM	10/14/25 01:04 PM	10/14/25 01:04 PM	Analyzer Chlorine Portable-Inspection/Service Hail STP (1m) 5752 -Verified Hlby WWTP portable chlorine meter; STD 1: 0.22, STD 2: 0.87, STD 3: 1.45. All in good range.
4769498	0000293160	ANALYZER CHLORINE PORTABLE Farr Dr. PS	5726, Farr Pumping Station	PM	Inspection	1	MONTHS	Analyzer Chlorine Portable Farr Dr Inspection/Service (1m) 5726	CLOSE	10/1/25 12:00 AM	10/14/25 01:05 PM	10/14/25 01:05 PM	Analyzer Chlorine Portable Farr Dr Inspection/Service (1m) 5726 -Verified Farr Dr SPS portable Chlorine meter; STD 1: 0.24, STD 2: 0.96, STD 3: 1.58. All in good range.

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				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4787558	0000076750	GENERATOR 25KW Portable Generator	5726, Lakeshore Pumping Station	PM	Refurbish/ Replace/Repair	1	MONTHS	Portable Generator Inspect/Service 5726 (1m)	CLOSE	10/1/25 12:00 AM	10/30/25 02:41 PM	10/30/25 02:41 PM	- was completed on oct.7th closing up work order today oct 30th. Visually inspected generator. Performed monthly generator pm. Filled out generator maintenance sheet
4787796	0000293147	PORTABLE DO METER	5726, Haileybury STP, Facility	PM	Inspection	3	MONTHS	Analyzer Dissolved Oxygen/pH Portable Calibration/Inspection (3m) 5726	CLOSE	10/1/25 12:00 AM	10/7/25 10:13 AM	10/7/25 10:13 AM	Analyzer Dissolved Oxygen/pH Portable Calibration/Inspection (3m) 5726 - Please refer to the calibration record which can be found on the shared drive.
4807620	0000293197	BLOWER Centrifugal 01	5726, Haileybury STP, Process, Secondary Treatment	PM	Refurbish/ Replace/Repair	1	YEARS	STP Waste Return Blower Plant 1	COMP	10/1/25 12:00 AM	12/10/25 03:14 PM	12/10/25 03:14 PM	STP Waste Return Blower Plant 1 - Checked the oil and belts on return blower #1. The oil is still good but should be changed next summer. Belts are still good, not a lot of slack. Air filter will need to be changed
4813061	0000277374	ENGINE DIESEL	5726, Haileybury STP, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Genset Inspection/ Functional Test (1m) 5726	CLOSE	10/2/25 12:00 AM	10/14/25 12:56 PM	10/14/25 12:56 PM	Diesel Generator Genset Inspection/ Functional Test -Ran and tested diesel generator with load for 1 hour. Recorded levels and readings. Everthing looks good and power transfer was good.

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4813077			5726, Haileybury STP	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 5726	CLOSE	10/2/25 12:00 AM	10/21/25 04:05 PM	10/21/25 04:05 PM	TPM Inspection/Maintenance (1m) 5726 -TPM inspections; cleaned up shop area. ventilation looks okay, exit lights are visible and emergency lights working, Inspected fire extinguishers, blowers are working properly.
4813914	0000293700	ANALYZER PH Ultrapen Farr Pumping St.	5726, Farr Pumping Station	PM	Calibration	3	MONTHS	Analyzer pH Ultrapen Calibration (3m) 5726	CLOSE	10/3/25 12:00 AM	11/3/25 01:09 PM	11/3/25 01:09 PM	-This pen is inactive as it does not get used and is stored at the Haileybury WTP
4820872	0000060270	ANALYZER CHLORINE PORTABLE HAILEYBURY STP	5726, Haileybury STP, Process	PM	Calibration	6	MONTHS	Analyzer Chlorine Portable-Inspection/Service Hail STP (6m) 5726	CLOSE	11/1/25 12:00 AM	11/13/25 01:10 PM	11/13/25 01:10 PM	-See shared drive for cal slip
4823733	0000060270	ANALYZER CHLORINE PORTABLE HAILEYBURY STP	5726, Haileybury STP, Process	PM	Inspection	1	MONTHS	Analyzer Chlorine Portable-Inspection/Service Hail STP (1m) 5752	CLOSE	11/1/25 12:00 AM	11/7/25 03:02 PM	11/7/25 03:02 PM	- asset number 000060270 standard exp dec-25 lot A a3348 standard handheld 1 0.25 0.24 2 0.96 0.88 3 1.60 1.46
4823748	0000293160	ANALYZER CHLORINE PORTABLE Farr Dr. PS	5726, Farr Pumping Station	PM	Inspection	1	MONTHS	Analyzer Chlorine Portable Farr Dr Inspection/Service (1m) 5726	CLOSE	11/1/25 12:00 AM	11/7/25 03:05 PM	11/7/25 03:05 PM	- asset number 0000293160 standard exp dec-25 lot A a3348 standard handheld 1 0.25 0.23 2 0.96 0.92 3 1.60 1.55
4839039	0000076750	GENERATOR 25KW Portable Generator	5726, Lakeshore Pumping Station	PM	Refurbish/ Replace/Repair	1	MONTHS	Portable Generator Inspect/Service 5726 (1m)	CLOSE	11/1/25 12:00 AM	11/21/25 03:18 PM	11/21/25 03:18 PM	- checked oil, coolant level and fuel level. started up, recorded operating numbers. turned off

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4859984	0000277374	ENGINE DIESEL	5726, Haileybury STP, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Genset Inspection/ Functional Test (1m) 5726	CLOSE	11/2/25 12:00 AM	11/7/25 03:09 PM	11/7/25 03:09 PM	- recorded generator hours, checked oil and fuel level. switched power to generator after 30 minutes i recorded generator sheet data. good transfer and back to main power. back in auto
4860000			5726, Haileybury STP	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 5726	CLOSE	11/2/25 12:00 AM	11/13/25 02:29 PM	11/13/25 02:29 PM	- Visually checked blowers. Oil level is good. Inspected fans and vents are clear -heater in side room isnt working, city was notified
4863304			5726, Haileybury STP	CAP	Refurbish/ Replace/Repair	0		Rebuild and Test Failed Backflow Preventer 5726	BUSCOMP	12/1/25 01:31 PM		12/11/25 11:56 AM	Rebuild and Test Failed Backflow Preventer 5726 -Tested, repaired and retested the backflow preventer. It has passed inspection. Attached is the report
4864667			5726, Haileybury STP	CAP	Refurbish/ Replace/Repair	0		Install Heat trace and replace Sample line and insulate line 5726	BUSCOMP	12/17/25 10:34 AM		12/23/25 03:38 PM	

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Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4868927	0000060270	ANALYZER CHLORINE PORTABLE HAILEYBURY STP	5726, Haileybury STP, Process	PM	Inspection	1	MONTHS	Analyzer Chlorine Portable-Inspection/Service Hail STP (1m) 5752	COMP	12/1/25 12:00 AM	12/19/25 02:29 PM	12/19/25 02:29 PM	Analyzer Chlorine Portable-Inspection/Service Hail STP (1m) 5752 -Verified portable chlorine “Pocket Color - Kit PN 4670000” at stp 0000060270 Zeroed with blank Standard 1 at 0.19 read 0.18 Standard 2 at 0.85 read 0.82 Standard 3 at 1.54 read 1.48
4868942	0000293160	ANALYZER CHLORINE PORTABLE Farr Dr. PS	5726, Farr Pumping Station	PM	Inspection	1	MONTHS	Analyzer Chlorine Portable Farr Dr Inspection/Service (1m) 5726	COMP	12/1/25 12:00 AM	12/19/25 02:31 PM	12/19/25 02:31 PM	Analyzer Chlorine Portable Farr Dr Inspection/Service (1m) 5726 -Verified portable chlorine “Pocket Color II - kit PN 5870000” At Farr SPS 0000293160 Zeroed with blank Standard 1 at 0.21 read 0.19 Standard 2 at 0.92 read 0.89 Standard 3 at 1.66 read 1.62
4884303	0000076750	GENERATOR 25KW Portable Generator	5726, Lakeshore Pumping Station	PM	Refurbish/ Replace/Repair	1	MONTHS	Portable Generator Inspect/Service 5726 (1m)	COMP	12/1/25 12:00 AM	12/8/25 03:56 PM	12/8/25 03:56 PM	Portable Generator Inspect/Service 5726 (1m) -As per OIC Cassandra Legros: Tested Kohler generator. Had a hard time starting with a battery warning. Was plugged in upon arrival. Otherwise ran okay. Recorded hours and maintenance info on monthly round sheet

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				WorkOrder		PM Schedule		Workorder Details					
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4905783	0000277374	ENGINE DIESEL	5726, Haileybury STP, Facility, Power Generation	PM	Refurbish/ Replace/Repair	1	MONTHS	Diesel Generator Genset Inspection/ Functional Test (1m) 5726	COMP	12/2/25 12:00 AM	12/16/25 07:50 AM	12/16/25 07:50 AM	Diesel Generator Genset Inspection/ Functional Test (1m) 5726 -Tested the generator at the stp. Ran and switched over with no issues. No concerns at this time.
4905799			5726, Haileybury STP	PM	Inspection	1	MONTHS	TPM Inspection/Maintenance (1m) 5726	COMP	12/2/25 12:00 AM	12/16/25 07:49 AM	12/16/25 07:49 AM	TPM Inspection/Maintenance (1m) 5726 -Inspected pumps. No concerns at this time.

APPENDIX E
Sludge Quality

NE_Haileybury WWTF - Sludge Report

From 01/01/2025 to 12/31/2025

Facility Name: HAILEYBURY WASTEWATER TREATMENT FACLITY
Receiver: Lake Temiskaming

Facility Org Number: 5726
Facility Owner: Municipality: Temsikaming Shores
Service Population: 4200

Works: 110000310
Facility Classification: Class 2 Wastewater Treatment
Total Design Capacity: 2728 m3/day

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Biosolids Sludge Quality	Jan 2025	Feb 2025	Mar 2025	Apr 2025	May 2025	Jun 2025	Jul 2025	Aug 2025	Sep 2025	Oct 2025	Nov 2025	Dec 2025	Total	Avg	Max	Min
Hauled Vol. - m³																
Count	4.00	0.00	0.00	5.00	7.00	0.00	0.00	1.00	7.00	5.00	3.00	2.00	34.00			
IH Month.Total	435.20			245.40	748.00			163.20	408.00	584.80	190.40	68.00	2843.00			

STP No. 1													2025			
Bslq1 - STP #1	Jan 2025									Oct 2025			Total	Avg	Max	Min
Arsenic: As - µg/l																
Lab Count										1.00			1.00			
Lab Month.Mean										17.00				17.00		
Cadmium: Cd - µg/l																
Lab Count										1.00			1.00			
Lab Month.Mean										< 1.00				< 1.00		
Cobalt: Co - µg/l																
Lab Count										1.00			1.00			
Lab Month.Mean										4.00				4.00		
Chromium: Cr - µg/l																
Lab Count										1.00			1.00			
Lab Month.Mean										< 10.00				< 10.00		
Copper: Cu - µg/l																
Lab Count										1.00			1.00			
Lab Month.Mean										60.00				60.00		
Mercury: Hg - µg/l																
Lab Count										1.00			1.00			
Lab Month.Mean										< 0.10				< 0.10		
Potassium: K - mg/L																
Lab Count										1.00			1.00			
Lab Month.Mean										54.00				54.00		
Molybdenum: Mo - mg/L																
Lab Count										1.00			1.00			
Lab Month.Mean										< 0.01				< 0.01		

Total Ammonia Nitrogen: NH3 + NH4+ as N - mg/L																
Lab Count										1.00			1.00			
Lab Month.Mean										41.80				41.80		
Nickel: Ni - µg/l																
Lab Count										1.00			1.00			
Lab Month.Mean										10.00				10.00		
Nitrate as N: NO3-N - mg/L																
Lab Count										1.00			1.00			
Lab Month.Mean										< 0.10				< 0.10		
Lead: Pb - µg/l																
Lab Count										1.00			1.00			
Lab Month.Mean										2.00				2.00		
Selenium: Se - µg/l																
Lab Count										1.00			1.00			
Lab Month.Mean										< 2.00				< 2.00		
Total Phosphorus: TP - mg/L																
Lab Count										1.00			1.00			
Lab Month.Mean										444.00				444.00		
Total Solids: TS - mg/L																
Lab Count										1.00			1.00			
Lab Month.Mean										29300.00				29300.00		
Zinc: Zn - µg/l																
Lab Count										1.00			1.00			
Lab Month.Mean										50.00				50.00		
STP No. 2													2025			
Bslq2 - STP #2										**Oct 2025**			**Total**	**Avg**	**Max**	**Min**
Arsenic: As - µg/l																
Lab Count										1.00			1.00			
Lab Month.Mean										11.00				11.00		
Cadmium: Cd - µg/l																
Lab Count										1.00			1.00			
Lab Month.Mean										3.00				3.00		

Cobalt: Co - µg/l																
Lab Count										1.00			1.00			
Lab Month.Mean										19.00				19.00		
Chromium: Cr - µg/l																
Lab Count										1.00			1.00			
Lab Month.Mean										< 10.00				< 10.00		
Copper: Cu - µg/l																
Lab Count										1.00			1.00			
Lab Month.Mean										190.00				190.00		
Mercury: Hg - µg/l																
Lab Count										1.00			1.00			
Lab Month.Mean										< 0.10				< 0.10		
Potassium: K - mg/L																
Lab Count										1.00			1.00			
Lab Month.Mean										46.00				46.00		
Molybdenum: Mo - mg/L																
Lab Count										1.00			1.00			
Lab Month.Mean										< 0.01				< 0.01		
Total Ammonia Nitrogen: NH3 + NH4+ as N - mg/L																
Lab Count										1.00			1.00			
Lab Month.Mean										17.30				17.30		
Nickel: Ni - µg/l																
Lab Count										1.00			1.00			
Lab Month.Mean										70.00				70.00		
Nitrate as N: NO3-N - mg/L																
Lab Count										1.00			1.00			
Lab Month.Mean										< 0.10				< 0.10		
Lead: Pb - µg/l																
Lab Count										1.00			1.00			
Lab Month.Mean										2.00				2.00		

Selenium: Se - µg/l																
Lab Count										1.00			1.00			
Lab Month.Mean										< 2.00				< 2.00		
Total Phosphorus: TP - mg/L																
Lab Count										1.00			1.00			
Lab Month.Mean										266.00				266.00		
Total Solids: TS - mg/L																
Lab Count										1.00			1.00			
Lab Month.Mean										25900.00				25900.00		
Zinc: Zn - µg/l																
Lab Count										1.00			1.00			
Lab Month.Mean										2550.00				2550.00		

APPENDIX F
Spill Report

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Northeastern Ontario Regional Hub

15 Government Road East,
Kirkland Lake ON P2N 3J5
T: 705-567-3955 F: 705-567-7974

SPILL REPORT

May 21, 2025

Re: SAC Event No. # 1-OE5SNL

System:	Haileybury Sewage Treatment Plant
Location:	275 View Street
Legal Instrument:	ECA No. 7579-BTFKMN
Type of Event:	Sewage Spill (Loss of Chlorination)
Date of Event:	May 20, 2025
Time of Event:	9:30 AM to 2:23 PM
Duration of Event:	4 hours & 53 minutes

Details/Cause of the Event:

The ECA for the Haileybury STP requires chlorination of the sewage effluent from May 1st to October 31st each year. The sewage plant consists of two treatment trains (Plant No. 1 and Plant No 2).

On May 20, 2025, an operator attended the plant at 2:15 PM and discovered that both the sodium hypochlorite pump (chlorination) and sodium bisulphite (dechlorination) pumps were tripped. This resulted in the loss of the chlorination and de-chlorination processes for approximately 5 hours.

The operator conducted an investigation and found that the generator located at the STP performed an automatic run test at 9:30 AM which tripped the power source for the 2 pumps. The UPS for the chlorine pump also failed.

Corrective Actions:

The operator immediately restored power. The sodium hypochlorite pump was returned to service at 2:23 PM and the sodium bisulphite pump was back in service at 2:26 PM. The chlorine pump was primed at 100% dosage for one minute to increase levels.

The operator performed chlorine residual testing at 2:50 PM from the two contact chambers. Chamber No. 1 had a total chlorine residual (TCR) of 0.10 mg/L and Chamber No. 2 had a TCR of 0.14 mg/L. The effluent was tested earlier that day at 2:04 PM at the Farr Drive SPS with a TCR result of 0.01 mg/L.

The total amount of volume released was estimated to be 687 m3 (Plant No. 1 released 279 m3 and Plant No. 2 released 408 m3)

Reporting:

The event was verbally reported to the local Health Unit (Northeast Public Health) and the Ministry's Spills Action Center (SAC) on May 20, 2025. Refer to the attached Environmental Incident Report.

Northeastern Ontario Regional Hub

15 Government Road East,
Kirkland Lake ON P2N 3J5
T: 705-567-3955 F: 705-567-7974

Clean-up and Recovery Measures:

None

Preventative Measures:

Replaced the UPS
Further investigate the event by manually testing the generator and monitoring pump operation.

Environmental Incident Report

Temiskaming Shores Cluster - Sewage Treatment Facilities

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

TS-EIR-01F Revision 8: April 7, 2025

Facility Name: Haileybury STP	Org #: 5726
Wastewater System #: 110000310	Site Address: 275 View Street
Location of Discharge: Effluent Outfall	Receiver: Lake Timiskaming

Start of Event:	Date: May 20, 2025	Time: 9:30AM
☐ Emergency Bypass	Details/Cause of Event:	
☐ Emergency Overflow	An operator attended the Haileybury STP between 2:15 PM and discovered that both the sodium hypochlorite pump and sodium bisulphite pumps were tripped.	
☒ Spill	At approximately 9:30 AM the generator performed an automatic run test at the STP which caused the pumps to trip. The UPS for the sodium hypo. pumps also failed.	
☐ Planned Bypass	This resulted in a loss of chlorination of the sewage effluent.	
☐ Planned Overflow		
Level of Treatment	☒ Secondary or Partial Treatment ☐ Other: ☐ Raw (or No Treatment)	
Chlorination: ☐ Yes ☒ No	De-chlorination: ☐ Yes ☒ No	
Sample(s) Collected as per ECA: ☐ Yes ☒ No		
Bypass Events Only - Treatment Processes Bypassed:		
Chlorination and Dechlorination		
Treatment Processes Undergone Prior Discharge:		
Bar screens, grit removal, aeration, sedimentation		
Efforts Done to Maximize Flow Through Downstream Processes:		
None		
Corrective & Preventative Actions:		
Restored power, primed pumps and performed total chlorine residual testing of the chlorine contact chambers. Further investigate to try and determine why the pumps tripped.		

Verbal Notifications			
MOH called	Date: May 20, 2025	Time: 4:25 PM	Contact: James Sebesta
SAC called	Date: May 20, 2025	Time: 4:07 PM	Contact: Bilal Kidwai
Additional calls	Date:	Time:	Contact:
Additional calls	Date:	Time:	Contact:
If Discharge Volume 1000 m^3 or more - Notify Owner			
Owner called	Date:	Time:	Contact: N?A
SAC Event #: 1-OE5SNL		Operator Reporting Event: Ilona Bruneau	
At the beginning of the event submit report to: MOH, Environment Canada and PCT			

Environmental Incident Report

Temiskaming Shores Cluster - Sewage Treatment Facilities

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

TS-EIR-01F Revision 8 : April 7, 2025

Refer to Contact Information below for a list of phone, fax and email addresses

Termination:	Date: May 20, 2025	Time: 2:23 PM	Duration: 4 hours & 53 minutes
Approximate Volume (m^3) 687 m3		Metered Yes ☐	Estimated Yes ☒

Further Actions Required:

None

Verbal Notifications

MOH called	Date: May 20, 2025	Time: 4:25 PM	Contact: James Sebesta
SAC called	Date: May 20, 2025	Time: 4:07 PM	Contact: Bilal Kidwai
Owner called	Date:	Time:	Contact:
Additional calls	Date: May 21, 2025	Time: 10:34 AM	Contact: SAC to provide volume of spill (Ian).
Additional calls	Date:	Time:	Contact:

Comments:

Operator Reporting Termination of Event :	Ilona Bruneau

At the end of the event submit final report to: MOH, Environment Canada and PCT

Spills Action Center (SAC)	Tel: 1-800 268-6060	Verbal notification at the beginning and end of the event	
Ministry of Health (MOH)	Tel: 1-877 442-1212	Final written report provided via email. Eml: inspections@NEPH.ca	
MOH – After Hours	Tel: 705 647-3033		
Environment Canada (EC)	Tel: 1-800 268-6060 (verbal notification via SAC)	Eml: *FA-LP-On@ec.gc.ca*	Final written report provided via email