



ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

2025 Annual Performance Report for the Cobalt Constructed Wetlands & Sewage Collection System

January 1, 2025 to December 31, 2025

PREPARED BY

Ontario Clean Water Agency
on behalf of the Town of Cobalt

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Executive Summary

The Cobalt Constructed Wetlands is located at 9 Hudson Bay Road in the Town of Cobalt and serves the residents of Cobalt. The Wetlands is classified as a Class 1 wastewater treatment system that is not governed by an Environmental Compliance Approval (ECA). The system currently operates under Provincial Officer's Order 1-MV9KT issued October 22, 2021 and Director's Order 1-ROGQN issued January 26, 2022. The Director's Order does not identify flow compliance limits, but the Cobalt Wetlands Operations Manual prepared by KMK Consultants Limited (2016) indicates that the average design capacity of the wetlands is 1,063 m³/day and a peak flow of 4475 m³/day.

The wetlands receives municipal sewage from the Cobalt sewage collection system and provides primary settling within the maintenance forebay before entering the constructed wetlands with the final effluent discharging to Sasaginaga Creek.

The Cobalt Sewage Collection System is a Class 1 wastewater collection system under Ontario Regulation 129/04 and follows the requirements of Environmental Compliance Approval (ECA) No. 206-W601 for Municipal Sewage Collection Systems issued on August 2, 2023.

This report summarizes the requirements of the Provincial's Officer's Order, the Director's Order and the Approval. It describes the system's operational performance to demonstrate the production of good quality effluent.

The Cobalt Constructed Wetlands currently does not operate with specified compliance limits except for pH which is required to be maintained between 6.0 and 9.5 inclusively. However, concentrations for Biochemical Oxygen demand (25 mg/L), Total Suspended Solids (25 mg/L) and Total Phosphorus (1.5 mg/L) will be used as guidelines. Based on these parameters, the wetlands produced a very good quality effluent with results falling well below these guidelines.

The system did not meet the design capacity of 1063 m³/day having an annual average daily flow of 1463 m³/day which is 138% of the capacity. The total volume of influent flow measured in 2025 was 534,339 m³ compared to the effluent flow of 594,814 m³.

The wetlands exceeded its peak design capacity on eight (8) occasions, each associated with heavy rainfall and/or snow melt events. Details of these events are provided in Section 9.

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

Introduction

Item No. 10, part 7 of Director's Order 1-ROGQN issued for the Cobalt Constructed Wetlands on January 26, 2022 requires the owner to prepare a performance report on a calendar year basis. The report is to be submitted to the District Manager of the Ministry of the Environment, Conservation and Parks by March 31st of the calendar year following the period being reported on. The report must contain, but not be limited to, the following information;

- 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, and loadings;
- a summary of all operating issues encountered and corrective actions taken;
- a summary of all normal and emergency repairs and maintenance activities carried out on any major structure, equipment, apparatus or mechanism forming part of the Works;
- a summary of any effluent quality assurance or control measures undertaken;
- 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; and,
- a summary of any complaints received, including odour complaints, and any steps taken to address the complaints.

Condition 4.0(4.6) of ECA No. 206-W601 for the Cobalt 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, BOD₅, 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 Program (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 Town of Cobalt and is based on information kept on record by OCWA.

1 System Description

Sewage System Name:	Cobalt Constructed Wetlands
Sewage System Works Number:	120002745
Sewage System Address:	9 Hudson Bay Road, Town of Cobalt, District of Timiskaming, ON
Sewage System Owner:	Corporation of the Town of Cobalt
Provincial Officer's Order:	1-MV9KT, issued October 22, 2021
Director's Order:	1-ROGQN, issued January 26, 2022
Sewage Collection ECA:	206-W601, issued August 2, 2023
Reporting Period:	January 1, 2025 to December 31, 2025

Capacity of Works:	1063 m ³ /day annual average, 4475 m ³ /day peak (as per Operations Manual by KMK Consultants)
Service Area:	Town of Cobalt
Service Population:	1260
Effluent Receiver:	Sasaginaga Creek
Major Process:	Constructed Wetlands with 3 Cells with Settling & Filtration

The Cobalt Constructed Wetlands is a municipal sewage works owned by the Town of Cobalt and operated by the Ontario Clean Water Agency. It is classified as a Class 1 Wastewater Treatment Facility that serves the Town Cobalt. The Operations Manual for the Wetlands indicates a rated capacity for the system as 1060 m³/day under normal operating conditions and a retention time of 13 days and a peak flow of 4475 m³/day.

The Cobalt Constructed Wetlands receives municipal sewage from a gravity fed collection system via an inlet chamber with a parshall flume, two grit channels, and a composite sampler. From the inlet chamber, sewage flows into the maintenance forebay and then to the three wetland cells which are operated in series.

The cells contain cattails to filter the water and berms to direct the flow through the system. Corrugated plastic baffles are used within the wetlands to limit short circuiting. The effluent outlet chamber includes a bar screen, weir and a composite sampler, all housed under covered structures. The effluent discharges to Sasaginaga Creek which joins Farr Creek and eventually flows into Lake Temiskaming.

The Wetlands were constructed within 5.0 hectares of native soils and have an overall depth of 1.0 to 1.2 meters, with the water level controlled by the outlet structure.

Cobalt sewage is collected via a gravity sewer collection system consisting of separate sewers and combined sewers that converges at the inlet chamber of the wetlands. One (1) pumping station located at the Town's water treatment plant also directs grey water to the Wetlands.



Figure 1 – Cobalt Constructed Wetlands

Grey Water Pumping Station is a 2400 mm diameter duplex station located approximately 500 meters West of Pyrite Street in Cobalt. It consists of two (2) submersible non-clog pumps each rated at 16 L/s at a total dynamic head (TDH) of 14 meters and a Flyght control panel with level and pump controls. The pumping station receives waste from the water treatment plant waste pit. The waste is directed to a forcemain which flows to the Cobalt Wetlands for treatment.

A 180 kW standby generator is located adjacent to the water treatment plant and supplies power to the station during power outages

2 Monitoring Program

2.1 Monitoring Program as Outlined in the Environmental Compliance Approval

Table 1: Analytical Parameters

BOD₅	Five Day Biochemical Oxygen Demand – is measured in an unfiltered sample; includes carbonaceous and nitrogenous oxygen demand. It refers to the amount
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Table 1: Analytical Parameters

	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.
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 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.
NO₂-N	Nitrogen as Nitrite – can cause excessive algae and plant growth which can deplete oxygen of waterbodies resulting in the death of fish and other aquatic organisms.
NO₃-N	Nitrogen as Nitrate – nitrates are essential plant nutrients, but in excess amounts they can cause significant algae and plant growth and contribute to water quality problems.
Alkalinity	Alkalinity is an acid neutralizing agent that resists changes in pH. Wastewater systems which include biological processes function best at an optimal pH and alkalinity is needed to ensure pH remains in the optimal range.
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

Table 1: Analytical Parameters

	corrosive to pipes, screening equipment and pumps, can damage biological processes and form undesirable toxic gases or heavy metals.
DO	Dissolved Oxygen – the amount of oxygen that is available in water to sustain life, including living bacteria.
Total Coliforms	A group of bacteria that are naturally found on plants and in soils, water, and in the intestines of humans and warm blooded animals.
Fecal Coliforms	A group of the total coliforms that are present in the intestine and faeces of warm blooded animals.
<i>E. coli</i>	<i>Escherichia coli</i> – Thermally tolerant forms of Escherichia bacteria that can live in the intestines of humans and warm-blooded animals. There are hundreds of <i>E. coli</i> strains and most are relatively harmless, however a notorious exception is <i>E. coli</i> strain 0157:H7, an emerging pathogen that produces a powerful toxin and can cause severe illness. <i>E. coli</i> is used as the most widely adopted indicator of faecal pollution in water and wastewater.
Sulphate	Is part of sulphur compounds which potentially inhibit plant growth and microbial activities in receiving water and it is important to reduce concentrations in wastewater to acceptable levels before discharging to the aquatic environment.
Hydrogen Sulphide	A dissolved gas that gives a “rotten egg” odour and is poisonous and corrosive. Sulfide is considered to be the main product of sulfate reduction, and can severely inhibit ammonium/carbon removal and plant photosynthesis, which decreases the treatment efficiency of the wetlands.

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

Parameter	Type of Sample	Minimum Frequency
BOD ₅	24 hour composite	monthly
TSS	24 hour composite	monthly
TP	24 hour composite	monthly
TKN	24 hour composite	monthly
TAN	24 hour composite	monthly

Table 3: Sampling Requirements for the Final Effluent

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
TAN	24 hour composite	weekly
Alkalinity	24 hour composite	weekly
pH	24 hour composite	weekly
Temperature	grab	weekly
Dissolved Oxygen	grab	weekly
<i>E. coli</i>	grab	weekly
Total Coliforms	grab	weekly
Fecal Coliforms	grab	weekly
Sulfate	24 hour composite	monthly
Hydrogen Sulfide	24 hour composite	monthly
Sulfur	24 hour composite	monthly
Arsenic, Copper, Iron, Lead, Nickel, Zinc	24 hour composite	bi-annually*

* April 15 - May 15 & August 15 - September 15

Table 4: Sampling Requirements for Upstream and Downstream Discharge Points

Parameter	Type of Sample	Minimum Frequency
BOD ₅	grab	monthly
TSS	grab	monthly
TP	grab	monthly
TAN	grab	monthly
pH	grab	monthly
Temperature	grab	monthly
Dissolved Oxygen	grab	monthly
<i>E. coli</i>	grab	monthly
Total Coliforms	grab	monthly

Parameter	Type of Sample	Minimum Frequency
Fecal Coliforms	grab	monthly
Sulfate	grab	monthly
Hydrogen Sulfide	grab	monthly
Sulfur	grab	monthly
Arsenic, Copper, Iron, Lead, Nickel, Zinc	grab	bi-annually*

* April 15 - May 15 & August 15 - September 15

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. The system uses a parshall flume to measure raw sewage flow which is installed at the inlet works.

The Cobalt Wetlands Operations Manual prepared by KMK Consultants indicates that the average design capacity of the plant is 1,063 m³/day. The average daily flow is defined as the total influent flow to the sewage treatment system during a calendar year divided by the number of days during which sewage was flowing to the sewage treatment plant that year.

The Cobalt Wetlands Operations Manual also identifies a design peak flow value of 4475 m³/day.

The average daily flow measured for 2025 was 1463 m³/day which is 138% of the design capacity. A peak flow of 7000 m³ occurred on March 16th during heavy rain event and snow melt.

The total amount of wastewater received by the wetlands in 2025 was 534,339 m³.

Table 5 and Figure 2 compares the monthly influent flow rates recorded in 2025 to the design capacity of the plant.

Flow trends are critical to assessing the adequacy of size of the treatment system. Figure 4 shows both the annual average and annual peak values from 2016 to 2025 plotted against the design capacity of the wastewater system.

Monthly Influent Flows

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

Month	Total Influent Flow (m ³ /d)	Average Daily Influent Flow (m ³ /d)	% of the Avg. Design Capacity (1063 m ³ /d)	Maximum Influent Flow (m ³ /d)	% of the Max. Capacity (4475 m ³ /d)
January	39,689	1280	120%*	1973	44%
February	33,174	1184	111%*	1270	28%
March	58,648	1892	178%*	7000	156%**
April	97,106	3237	304%*	6633	148%**
May	67,805	2187	206%*	4538	101%**
June	37,592	1253	118%*	1623	36%
July	38,839	1253	118%*	3059	69%
August	31,956	1031	97%	1276	29%
September	28,744	958	90%	999	22%
October	31,344	1011	95%	1581	35%
November	32,326	1078	101%*	1302	29%
December	37,116	1197	113%*	1722	38%

* The system operated above its average design capacity during several months of 2025, with the exception of August, September, and October.

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

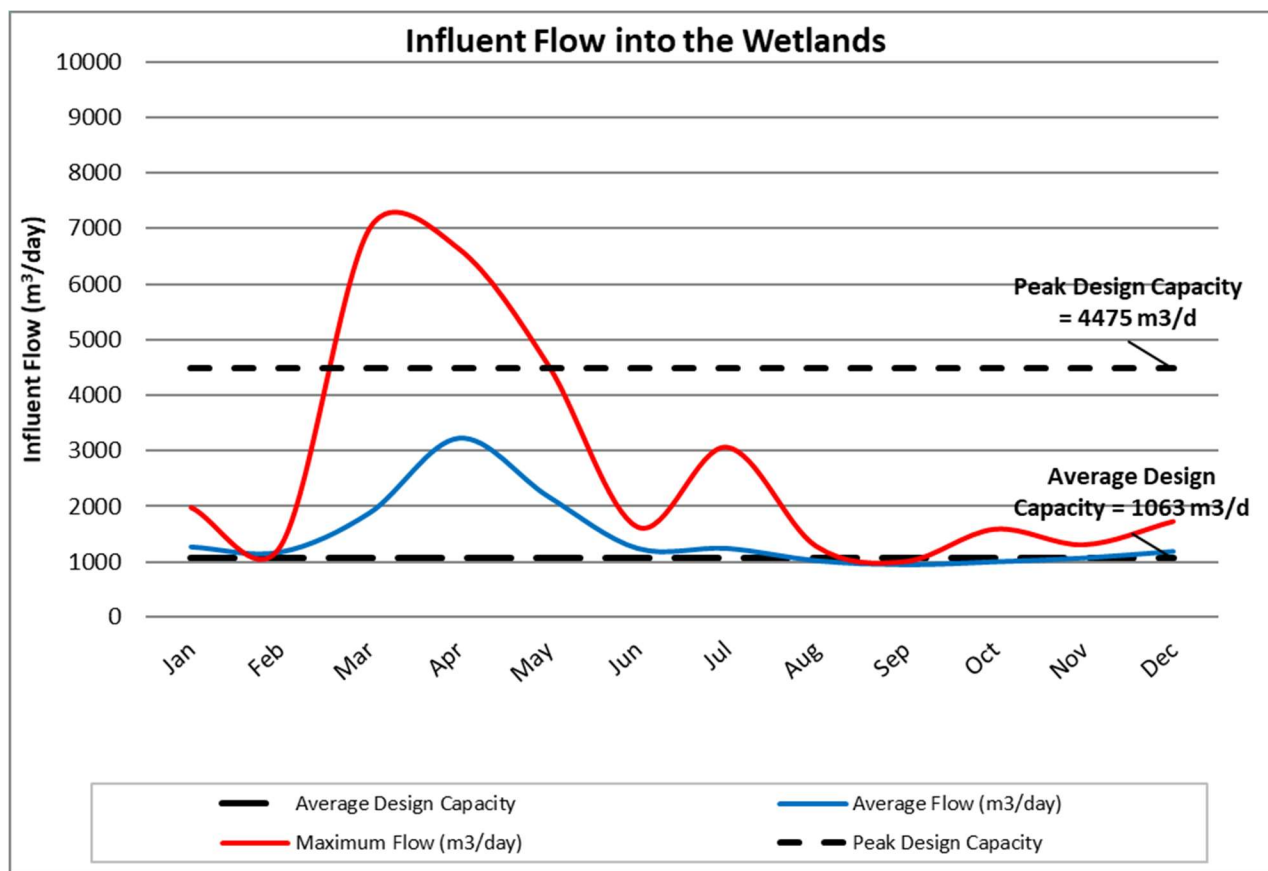


Figure 2 – 2025 Influent Flow into the Cobalt Wetlands

3.1.1 Annual Influent Flows

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

Average Design Capacity (m ³ /day)	1063	Maximum Flow Capacity (m ³ /day)	4475
2025 Average Flow (m ³ /day)	1463	2025 Maximum Flow (m ³ /day)	7000
Percent of Capacity (%)	138%	Percent of Capacity (%)	156%
Total volume of wastewater influent in 2025		534,339 m ³	

3.1.2 Historical Influent Flows

Table 7: Comparison of Historical Influent Flows (2016 to 2025)

Year	Total Influent Flow (m ³ /d)	Average Day Flow (m ³ /d)	% of the Avg. Capacity (1063 m ³ /d)	Maximum Influent Flow (m ³ /d)	% of the Max. Capacity (4475 m ³ /d)
2025	534,339	1463	138%	7000	156%

Year	Total Influent Flow (m ³ /d)	Average Day Flow (m ³ /d)	% of the Avg. Capacity (1063 m ³ /d)	Maximum Influent Flow (m ³ /d)	% of the Max. Capacity (4475 m ³ /d)
2024	517,008	1414	133%	7841	175%
2023	523,614	1,435	135%	6926	155%
2022	386,073	1,058	100%	2792	62%
2021	267,242	732	69%	1157	26%
2020	337,341	923	87%	7825	175%
2019	294,152	806	76%	2341	52%
2018	222,421	643	60%	1899	42%
2017	263,051	721	68%	1813	41%
2016	318,860	874	84%	1472	33%

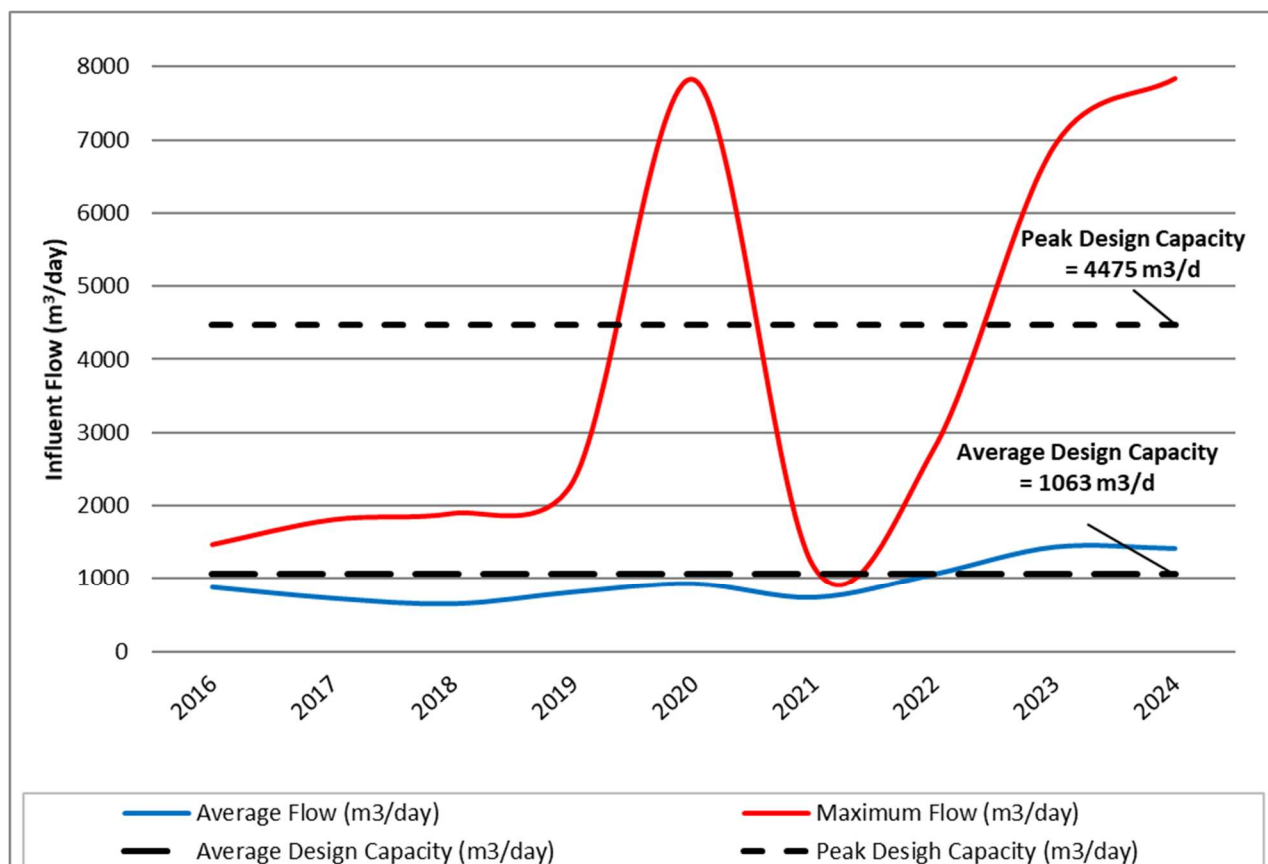


Figure 3 – Historical Influent Flow Trends (2016 to 2025)

3.2 Effluent Flows

The effluent flow passes through a 1200 mm wide rectangular weir gate located at outlet building which measures flow discharging to Sasaginaga Creek. A summary of monthly effluent flows are provided in Table 8.

Table 8: Monthly Effluent Flow for 2025

Month	Total Effluent Flow (m ³)	Maximum Effluent Flow (m ³ /day)	Average Effluent Flow (m ³ /day)
January	44,483	3029	1435
February	32,385	1791	1153
March	69,728	10,939	2249
April	109,569	6904	3652
May	74,224	4822	2394
June	43,180	2155	1439
July	45,286	3591	1461
August	31,260	1438	1008
September	27,294	1025	910
October	37,132	2288	1198
November	40,515	1765	1350
December	39,860	2062	1286
2025	594,814	10,939	1628

3.3 Influent Verses Effluent Flows

The total volume of influent flow measured in 2025 was 534,339 m³ compared to the effluent flow of 594,814 m³.

Influent and effluent flows are continuously recorded and the differences in the total flow volumes are monitored.

Figure 4 compares the 2025 influent flows to the effluent flows. Flows are comparable except during high flow events.

Table 9 and Figure 5 compare the influent and effluent flows from 2016 to 2025. The annual effluent flows are higher than the influent flows. A comminutor was removed in 2022 when it was determined not to be the appropriate technology for the system. It failed multiple times or

plugged resulting in unaccounted wastewater bypassing the Forebay and influent flow meter. Historical data show that the flow discrepancies have improved since 2022.

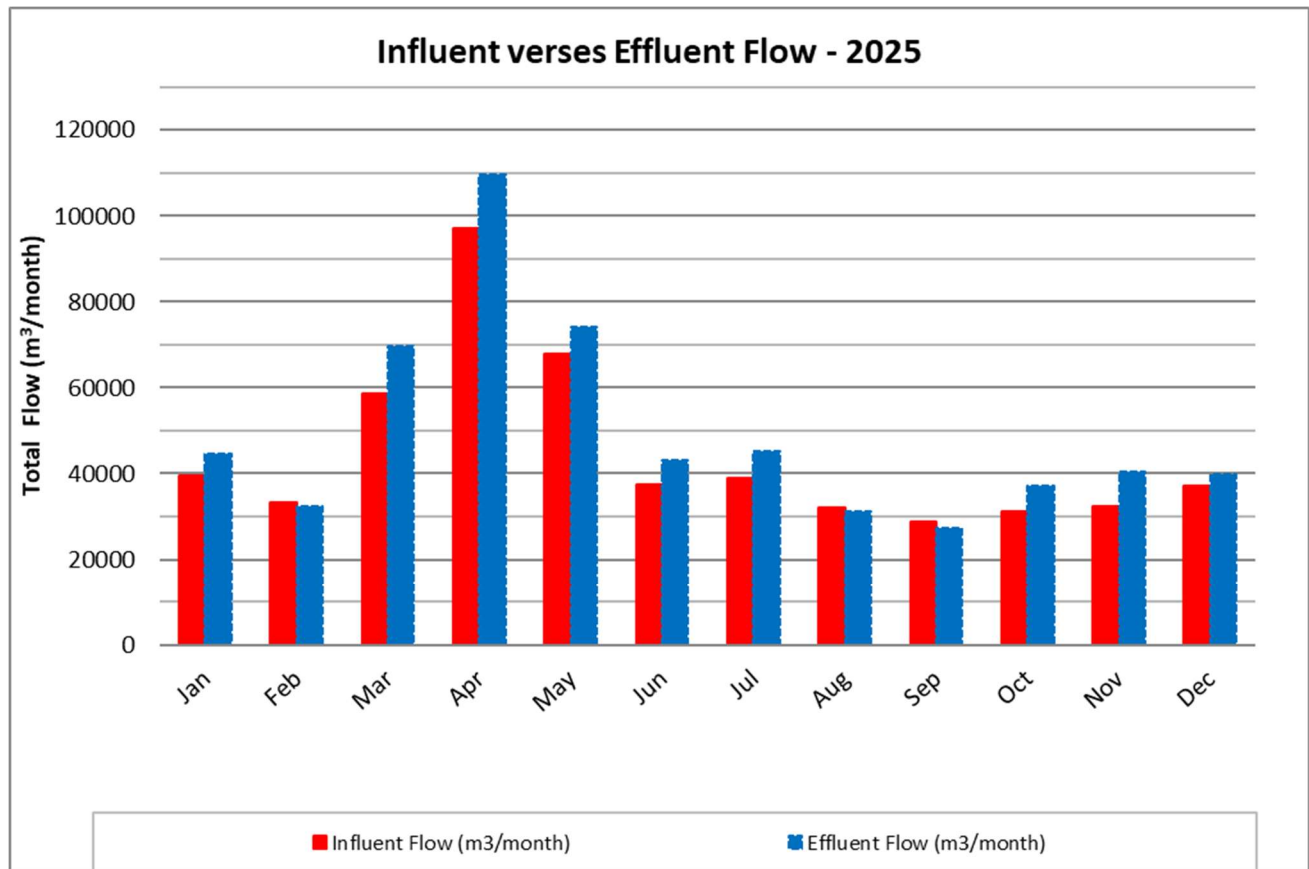


Figure 4 – Comparison of Influent and Effluent Flows (2025)

Table 9: Comparison of Historical Influent and Effluent Flows (2016 to 2025)

Year	Total Influent Flow (m³)	Total Effluent Flow (m³)	Difference (m³)	% Difference
2025	534,339	594,814	60,475	10%
2024	517,008	601,967	84,959	14%
2023	523,614	676,743	153,129	23%
2022	386,073	668,395	282,322	42%
2021	267,242	591,549	335,407	56%
2020	337,341	526,387	249,741	53%
2019	294,152	587,081	292,929	50%

Year	Total Influent Flow (m ³)	Total Effluent Flow (m ³)	Difference (m ³)	% Difference
2018	222,421	370,072	147,652	40%
2017	263,051	641,731	378,680	59%
2016	318,860	663,442	344,582	52%

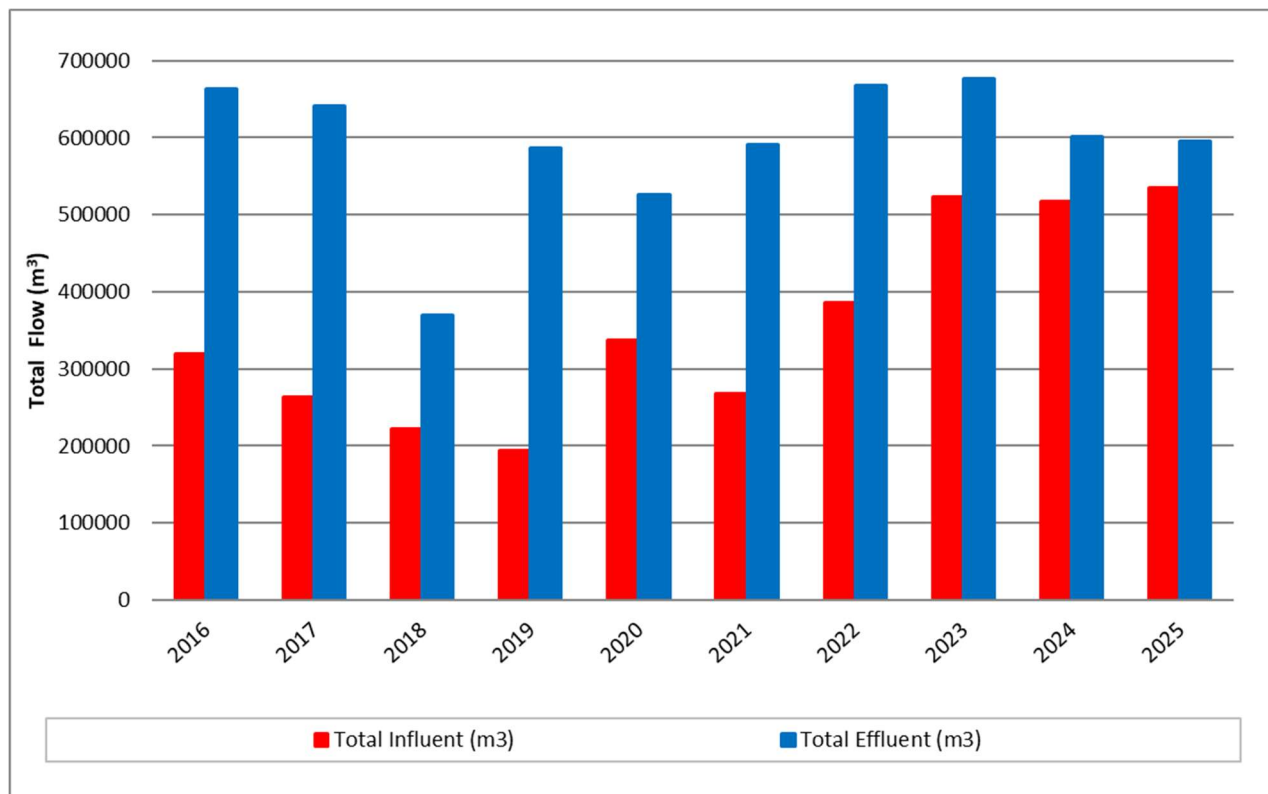


Figure 5 – Comparison of Influent and Effluent Flows (2016 to 2025)

3.4 Influent (Raw Sewage) Quality

Influent samples are required to be collected on a monthly basis. This section summaries annual average and maximum concentrations of analytical parameters tested in 2025. A summary of the monthly monitoring data is available in Appendix A.

Table 10: Influent Concentrations

Parameter	Annual Average	Annual Maximum
BOD ₅ (mg/L)	39.7	120
TSS (mg/L)	49.8	192
TP (mg/L)	1.09	3.50
TAN (mg/L)	7.11	15.7
TKN (mg/L)	10.6	24.3

3.4.1 Historical Trends of Influent Characteristics

The characteristics of the raw wastewater influences the design and overall performance of the treatment process.

Table 11 and the trends in Figure 6 indicate that the average parameter concentrations have remained relatively stable over the years, with an apparent increase in 2023 due to problems with the influent sampler feed line location. After the sampling line was relocated, the system began collecting more representative samples of the influent.

Table 11: Influent – Average Historical Influent Results

Parameter	2017	2018	2019	2020	2021	2022	2023	2024	2025
BOD ₅ (mg/L)	59	64	56	24	31	93	228	60	40
TSS (mg/L)	62	55	65	47	46	76	293	79	50
TP (mg/L)	1.40	1.50	2.40	1.10	1.20	2.50	7.60	1.70	1.09
TAN (mg/L)	7.7	11.0	17.0	9.5	7.4	7.4	14.0	6.2	7.1
TKN (mg/L)	13.0	15.0	20.0	14.0	13.0	15.0	27.0	13.0	10.6

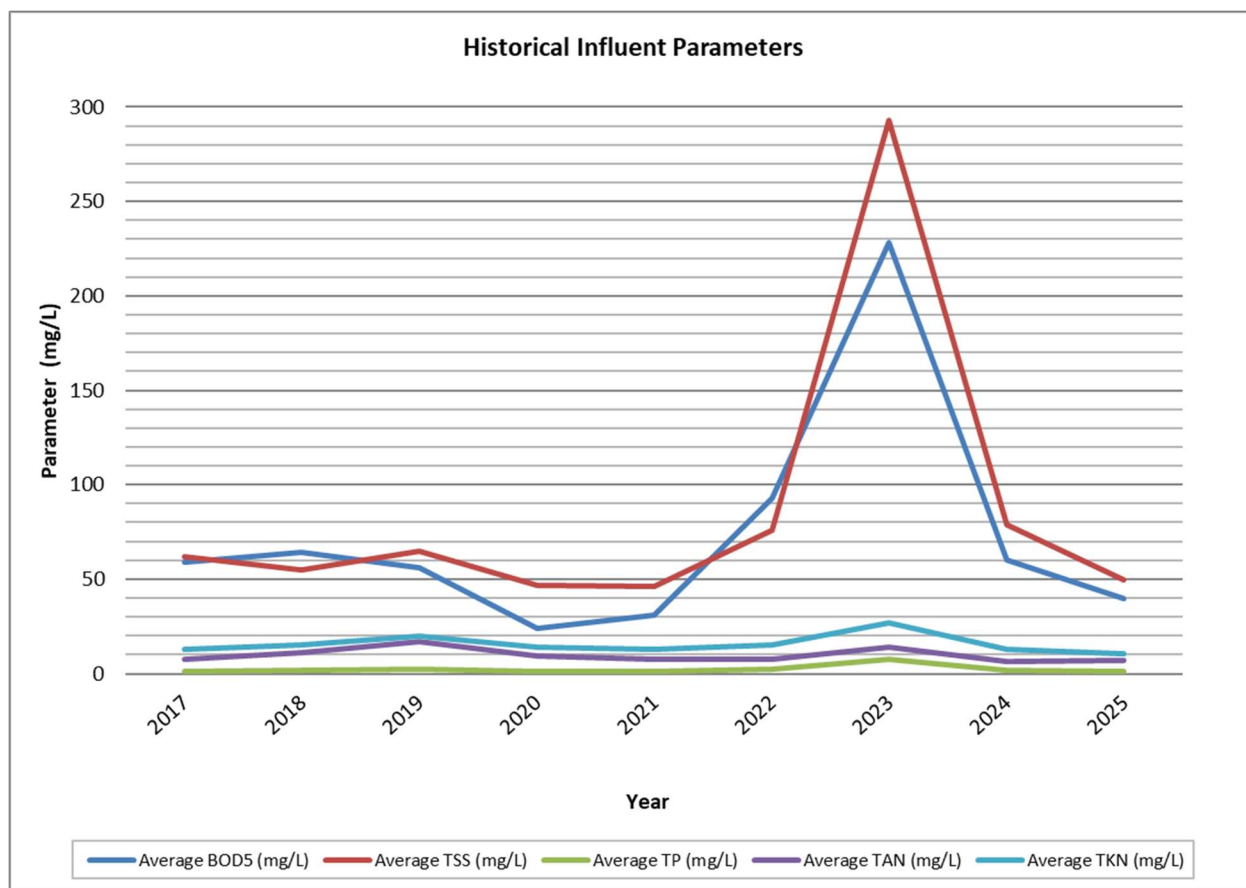


Figure 6 – Historical Trends showing Average Influent Concentrations (2017 to 2025)

3.5 Effluent Quality

Effluent samples are collected and tested as specified in Schedule A of Director’s Order 1-ROGQN. This section summarizes the results of the effluent samples. While effluent quality is assessed based on these parameters; there is currently no compliance limits in place for any of these parameters with the exception of pH which is required to be maintained between 6.0 and 9.5 at all times. However, a memo from the Ministry’s Regional Surface Water Assessment Department, dated November 4, 2019 indicates that a discharge concentration of 25 mg/L BOD₅, 25 mg/L TSS and 1.5 mg/L TP could lead to adverse impacts to the aquatic habitat downstream of the discharge point. These values will be used as guidelines in this report. Table 12 shows that the average BOD₅, TSS and TP levels fell well below the guidelines and the pH complied with the compliance range.

Effluent samples are normally collected twice per year from April 15th to May 15th and from August 15th to September 15th for metals analysis.

Additional effluent samples were collected on several days in March and April during periods when influent flows exceeded the system's peak design capacity. These results are included in the effluent monitoring data.

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

Table 12: Effluent Concentrations

Parameter	Minimum	Maximum	Average	Guidelines
BOD ₅ (mg/L)	0.90	16.0	3.76	25*
TSS (mg/L)	<0.67	20	< 2.6	25*
TP (mg/L)	0.089	1.38	0.322	1.5*
TAN (mg/L)	0.27	10.7	4.85	N/A
TKN (mg/L)	1.60	12.3	6.55	N/A
Alkalinity (mg/L)	88	143	116	N/A
pH (units)	6.11	7.37	6.82	6.0 to 9.5
Temperature °C	0.2	22.6	8.8	N/A
Dissolved Oxygen (mg/L)	1.29	9.39	3.55	N/A
E. coli (cfu/100mL)	< 5	39,400	< 5087	N/A
Fecal Coliforms (cfu/100mL)	5	28,400	4109	N/A
Total Coliforms (cfu/100mL)	66	54600	9202	N/A
Sulphate (mg/L)	< 1.0	13.9	< 7.3	N/A
Hydrogen Sulfide (mg/L)	< 0.02	0.05	< 0.02	N/A
Sulfur (mg/L)	1.30	7.40	3.94	N/A
Arsenic (mg/L)	0.033	0.114	0.083	N/A
Copper (mg/L)	0.0010	0.0040	0.0018	N/A
Iron (mg/L)	0.27	0.80	0.40	N/A
Lead (mg/L)	0.00010	0.00080	0.00041	N/A
Nickel (mg/L)	0.0020	0.0040	0.0024	N/A
Zinc (mg/L)	0.0020	0.0040	0.0023	N/A

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

cfu = colony forming units.

3.5.1 Effluent Loadings

The monthly effluent loadings for BOD₅, TSS and TP are required to be calculated in kilograms, but no loading limits are specified in the Director's Order (No. 1-ROGON). The monthly effluent loadings are provided in Table 13 and trended in Figures 7 to 9.

Table 13: Monthly Effluent Loadings

Parameter	BOD ₅ (kg/month)	TSS (kg/month)	TP (kg/month)
January	310	62.7	23.9
February	321	58.9	17.6
March	413	572	38.6
April	272	187	42.3
May	144	239	16.6
June	135	119	9.24
July	123	146	9.84
August	64.1	46.9	4.84
September	68.2	20.5	2.67
October	131	142	6.76
November	94.2	33.5	6.85
December	151	56.1	19.1

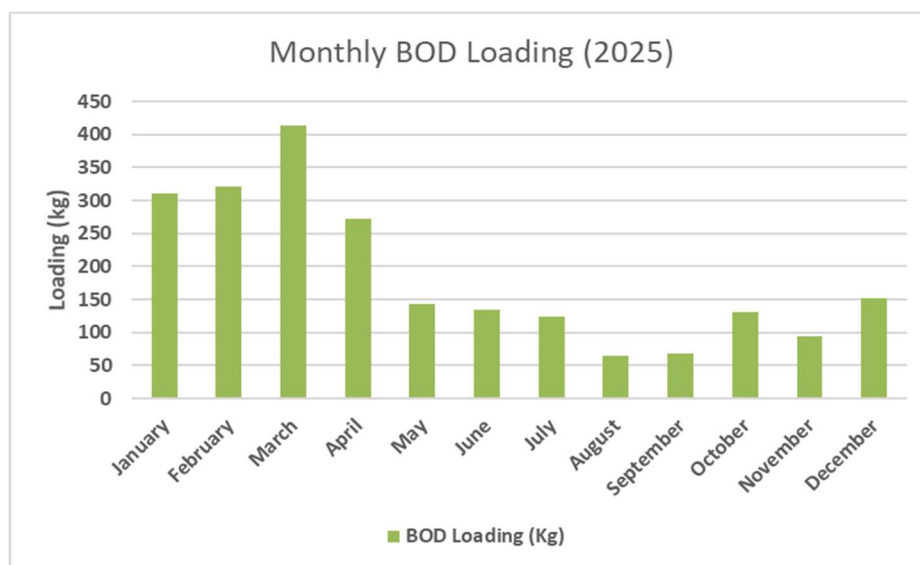


Figure 7 – Monthly BOD₅ Loadings

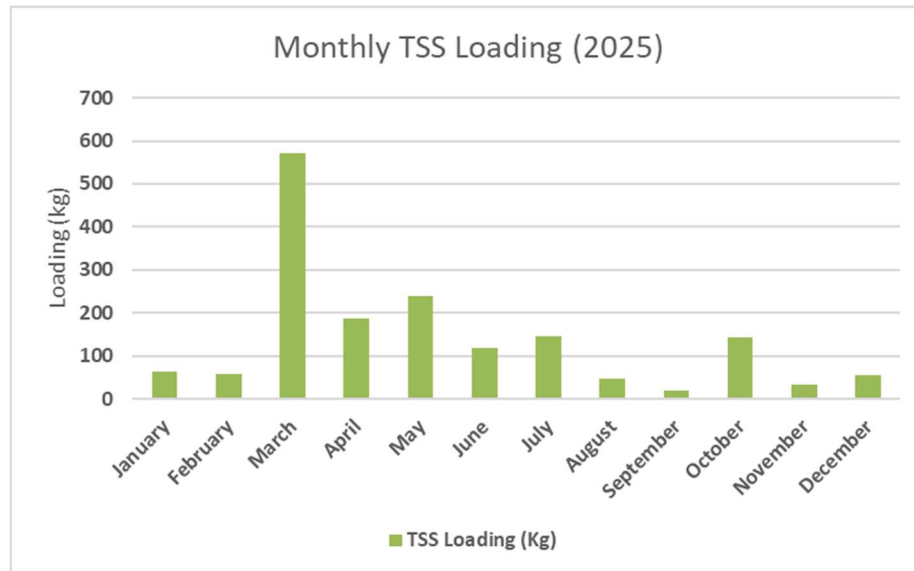


Figure 8 – Monthly TSS Loadings

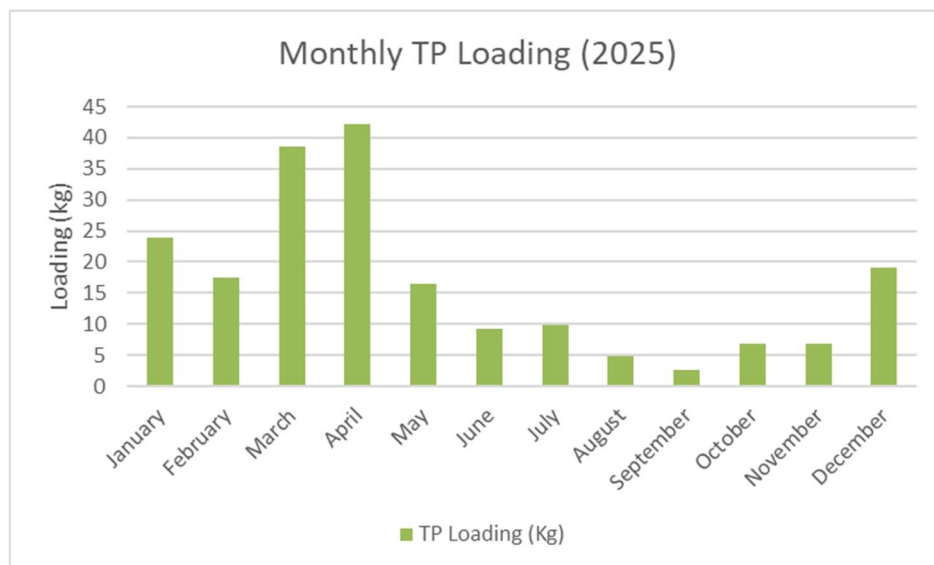


Figure 9 – Monthly TP Loadings

3.5.2 Historical Trends of Effluent Characteristics

Table 14 presents average effluent concentrations from 2017 through 2025, while the trends in Figure 10 illustrate historical performance for BOD₅, TSS, TP, TAN, and TKN. Across this period, effluent BOD₅, TSS, and TP consistently remained below their respective guideline values of 25 mg/L, 25 mg/L, and 1.5 mg/L, indicating stable treatment performance for these key parameters.

Table 14: Effluent – Average Historical Influent Result

Parameters	2017	2018	2019	2020	2021	2022	2023	2024	2025
<i>BOD5 (mg/L)</i>	6.4	10.4	5.6	5.0	5.0	4.5	3.9	5.1	3.8
<i>TSS (mg/L)</i>	3.5	3.6	3.0	4.4	3.8	2.0	2.2	3.7	2.6
<i>TP (mg/L)</i>	0.431	0.510	0.550	0.520	0.510	0.296	0.353	0.361	0.322
<i>TAN (mg/L)</i>	6.4	8.6	8.1	7.4	8.2	4.7	4.4	4.4	4.9
<i>TKN (mg/L)</i>	7.8	9.6	9.4	9.6	10	6.9	6.2	6.5	6.6
<i>Alkalinity (mg/L)</i>	125.0	149.0	151.0	145.0	135	120.0	73.0	122.0	116.0
<i>pH</i>	7.10	6.90	6.80	6.80	6.84	7.08	7.02	6.86	6.82
<i>Temperature (°C)</i>	9.1	7.9	7.8	8.4	9.9	9.9	9.6	8.6	8.8
<i>Dissolved Oxygen (mg/L)</i>	2.71	1.64	2.57	2.32	2.50	2.92	3.29	3.69	3.55
<i>E.coli (cfu/100mL)</i>	6,002	14,536	7,557	15,254	17,191	14,197	4,842	16,749	5,087
<i>Faecal Coliforms (cfu/100mL)</i>	5,160	56,122	4,456	20,435	14,864	10,085	3,973	12,930	4,109
<i>Total Coliforms (cfu/100mL)</i>	22,326	73,965	29,224	37,870	56,545	44,328	19,774	73,965	9,202
<i>Sulphate (mg/L)</i>	10.9	9.08	8.67	8.83	7.60	7.20	7.97	7.77	7.28
<i>Hydrogen Sulphide (mg/L)</i>	0.103	0.090	0.028	0.029	0.040	0.040	0.070	0.060	0.022
<i>Sulphur (mg/L)</i>	3.5	3.3	3.2	3.8	2.7	N/A	7.6	4.1	3.9
<i>Arsenic (mg/L)</i>	0.062	0.048	0.066	0.077	0.049	0.058	0.073	0.058	0.033
<i>Copper (mg/L)</i>	0.0023	0.0014	0.0012	0.0024	0.0013	0.0020	0.0040	0.0018	0.0024
<i>Iron (mg/L)</i>	0.41	0.46	0.63	0.46	0.44	0.32	0.42	0.36	0.40
<i>Lead (mg/L)</i>	0.0003	0.0005	0.0005	0.0004	0.0005	0.0006	0.0005	0.0005	0.0041
<i>Nickel (mg/L)</i>	0.0039	0.0031	0.0041	0.0038	0.0031	0.0025	0.003	0.0023	0.0024
<i>Zinc (mg/L)</i>	0.009	0.004	0.003	0.006	0.007	0.005	0.005	0.003	0.002

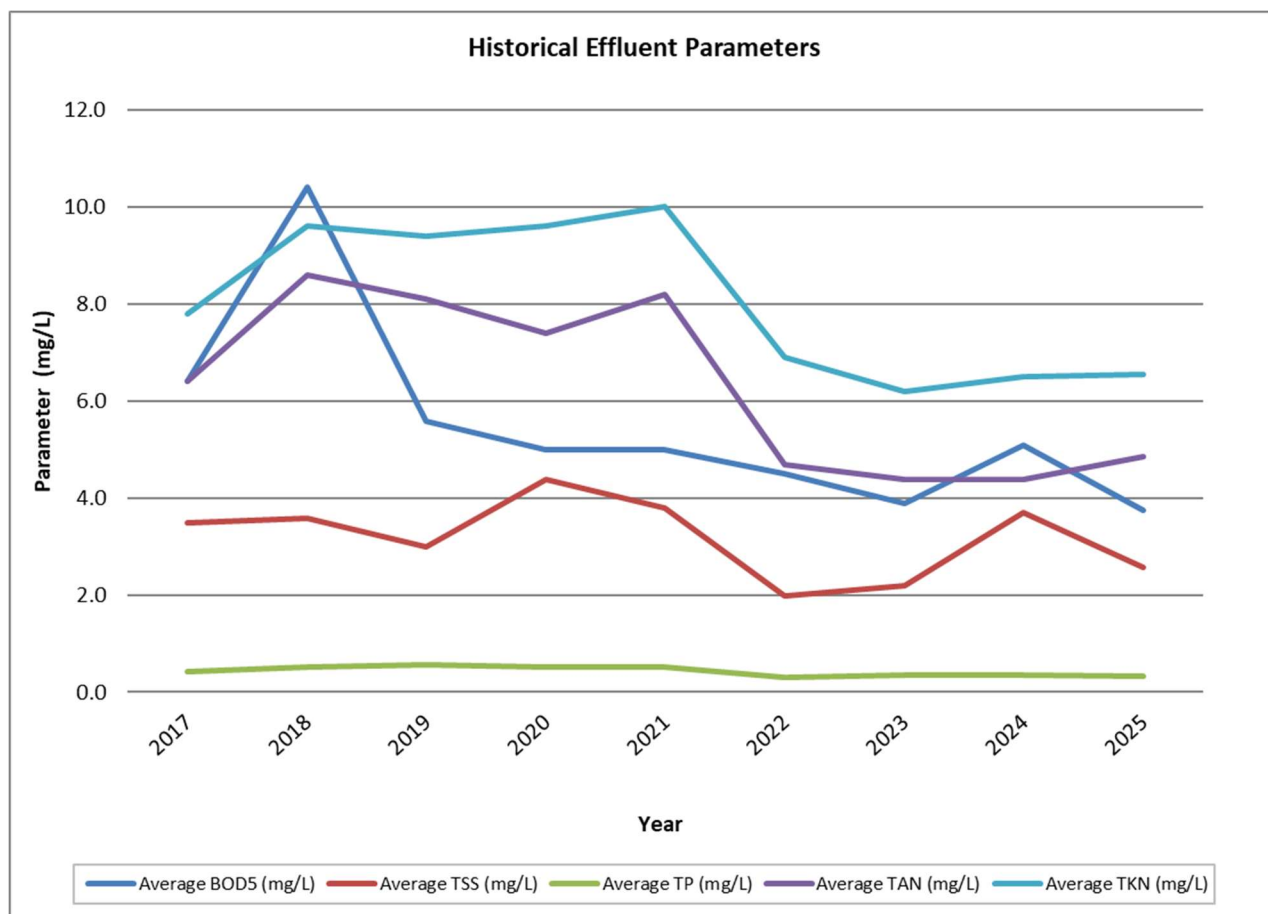


Figure 10 – Historical Trends showing Average Effluent Concentrations (2017 to 2025)

3.6 Sewage Treatment Program Success and Adequacy

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

Table 15 demonstrates that the system’s treatment process was successful in reducing the levels of BOD₅, TSS and TP from the influent, producing good quality effluent.

Table 15: Performance Summary

Parameter	Influent (annual average)	Effluent (annual average)	% Removal
BOD ₅ (mg/L)	39.7	3.76	91%
TSS (mg/L)	49.8	< 2.59	95%
TP (mg/L)	1.09	0.322	70%

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 wastewater 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 have a high level of regulatory competence. New staff receives on-going training to achieve operational knowledge and regulatory competence.
- The wetlands site is 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 by a remote monitoring system.
- In-house tests; pH, temperature and DO, 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 located in Kirkland Lake, Ontario. 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 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 Director's Order.
- Operations and Compliance staff review facility round sheets and laboratory reports to monitor the routine operation of the treatment system.
- 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.
- 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.

- Regular sludge removal from the Forebay helps improve effluent quality. The Forebay acts as a settling chamber allowing solids that pass through the inlet chamber to settle before entering the wetlands. Regular maintenance ensures low solids into the wetlands.

5 Sasaginaga Creek Monitoring

1. Samples for Sasaginaga Creek are sampled and tested monthly as specified in Schedule A of Director's Order 1-ROGQN. Table 16 and

Table 17 presents the results for 2025.

Table 16: Sasaginaga Creek – Upstream of Discharge Point

Parameter	Min	Max	Average
BOD ₅ (mg/L)	< 0.50	8.70	< 1.58
TSS (mg/L)	< 0.67	41	< 5.9
TP (mg/L)	0.011	0.251	0.089
TAN (mg/L)	< 0.01	7.99	< 1.02
pH (units)	6.80	7.82	7.39
Temperature °C	0.8	24.4	9.6
Dissolved Oxygen (mg/L)	5.97	12.9	9.82
<i>E. coli</i> (cfu/100mL)	< 5	145	< 36
Fecal Coliforms (cfu/100mL)	< 5	40	< 15
Total Coliforms (cfu/100mL)	45	1160	345
Sulphate (mg/L)	2.5	16	7.9
Hydrogen Sulfide (mg/L)	< 0.020	< 0.020	< 0.020
Sulfur (mg/L)	1.40	6.70	3.48
Arsenic (mg/L)	0.095	0.440	0.258
Copper (mg/L)	0.0030	0.0040	0.0033
Iron (mg/L)	0.20	0.44	0.32
Lead (mg/L)	0.00010	0.00060	0.00027
Nickel (mg/L)	0.0060	0.0090	0.0077
Zinc (mg/L)	0.0020	0.0120	0.0567

Table 17: Sasaginaga Creek – Downstream of Discharge Point

Parameter	Min	Max	Average
BOD ₅ (mg/L)	0.5	17	4.0
TSS (mg/L)	1.0	80	16

Parameter	Min	Max	Average
TP (mg/L)	0.063	0.591	0.181
TAN (mg/L)	0.17	8.67	2.74
pH (units)	6.59	7.67	7.16
Temperature °C	1.7	24	9.6
Dissolved Oxygen (mg/L)	1.21	12.4	7.23
<i>E. coli</i> (cfu/100mL)	10	610	153
Fecal Coliforms (cfu/100mL)	5	975	186
Total Coliforms (cfu/100mL)	65	1720	566
Sulphate (mg/L)	4.0	11	6.4
Hydrogen Sulfide (mg/L)	< 0.020	0.060	< 0.028
Sulfur (mg/L)	1.30	5.00	3.13
Arsenic (mg/L)	0.078	0.190	0.133
Copper (mg/L)	0.0020	0.0030	0.0023
Iron (mg/L)	0.32	1.00	0.56
Lead (mg/L)	0.00040	0.00080	0.00053
Nickel (mg/L)	0.0050	0.0070	0.0060
Zinc (mg/L)	0.0040	0.0090	0.0057

Notes:

“<” means values include results that were less than the laboratory’s method detection limit.

6 Forebay Management

6.1 Monthly Forebay Sludge Monitoring

The Maintenance Forebay area acts as a settling chamber allowing solids which pass through the inlet chamber to settle before entering the wetlands. Sampling of the Forebay contents began in January 2023 and is conducted monthly to monitor the BOD₅, TSS, TP, TAN and TKN concentrations. This monitoring plan was implemented to help determine a clean out frequency for the Forebay. Results from 2025 are provided in Table 18 and graphed in Figure 11.

Table 18: Monthly Forebay Results

Month	BOD ₅ (mg/L)	TSS (mg/L)	TP (mg/L)	TAN (mg/L)	TKN (mg/L)
January	28	64	0.917	5.74	12.5
February	54	70	2.18	15.6	27.4

Month	BOD ₅ (mg/L)	TSS (mg/L)	TP (mg/L)	TAN (mg/L)	TKN (mg/L)
March	43	24	1.57	8.83	13.3
April*	24	21	0.532	1.34	4.6
May	36	70	1.62	6.27	11.8
June	39	83	1.28	7.68	11.6
July	27	59	1.45	8.80	12.2
August	27	39	1.69	11.8	16.3
September	37	57	2.02	15.6	19.4
October	39	41	1.07	8.63	10.5
November	45	25	0.453	4.43	9.0
December	33	56	1.17	6.07	13.2

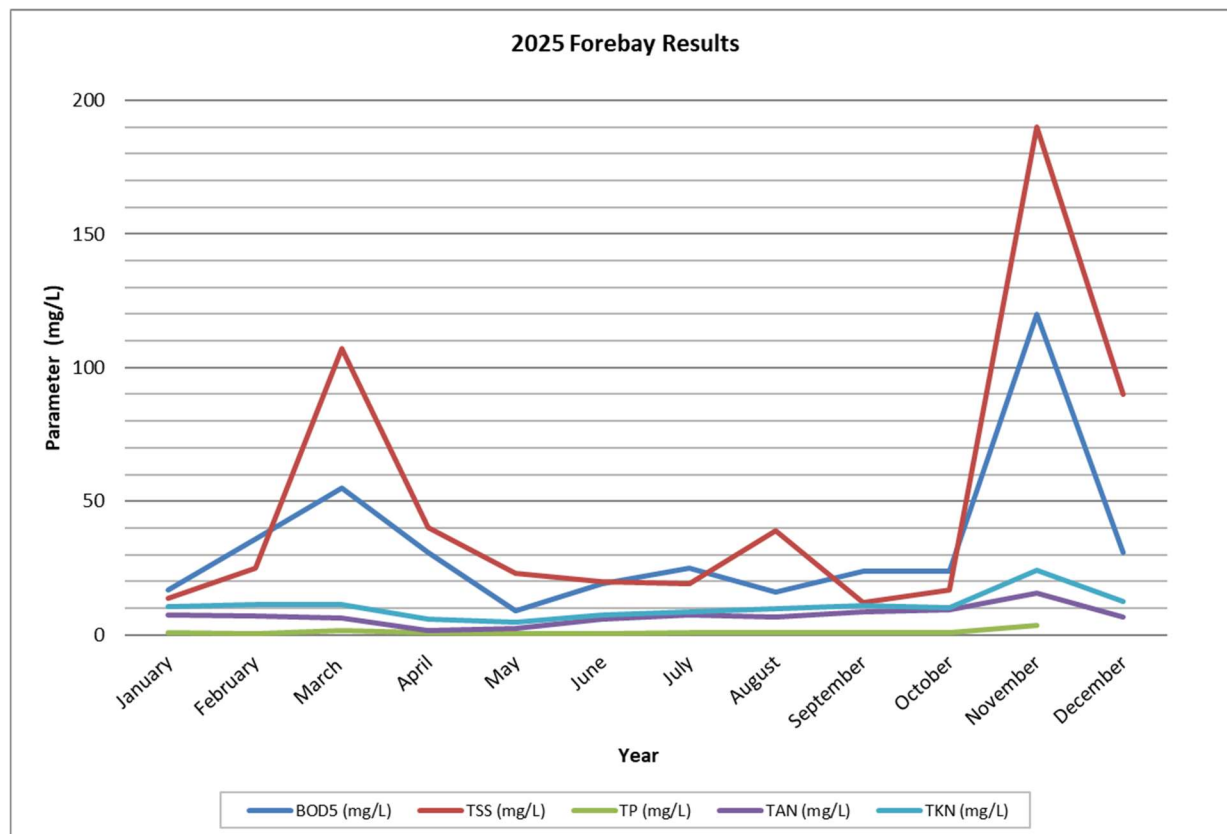


Figure 11 – 2025 Forebay Monitoring

6.2 Forebay Sludge Levels

Item 6 of the Director’s Order requires a Management Plan for the sludge which includes measuring the sludge levels annually and monitoring the sludge generation. Sludge depths were measured in November 2022, in November 2023, November 2024 and October 2025 and results are presented in Table 19.

The Forebay was cleaned in June of 2022 and again in February 2024. Sludge levels would normally be expected to be lower in November 2024 than in 2023, however, the measurements show significantly higher sludge levels in 2024. One likely factor is the change in measurement method: in 2024, operators entered the Forebay and measured directly at the designated points, whereas in previous years they tried to reach those points from the edge, which produced less accurate readings.

Sludge removal was scheduled for the Fall of 2025, but the work was delayed when the certified hauler, Northern Equipment Services, was ordered to cease operations by the Ministry due to allegations of illegal waste disposal. As a result, they were unable to use their certified trench site until testing confirmed that no unauthorized dumping had occurred. After the issue was resolved and Northern Equipment Services was approved to resume operations, winter conditions set in, making hauling impractical. As a result, the sludge removal was deferred to Spring 2026, after the thaw and snow melt.

Table 19: Forebay - Sludge Depths

Date	Sample Points	Average Sludge Depths (m)	Sludge Volume (m ³)	% Capacity
November 14, 2022	6	0.27	28	27%
November 3, 2023	12	0.33	35	33%
November 19, 2024	12	0.72	76	72%
October 31, 2025	12	0.43	45	43%

Estimated operating depth = 1 m, Area = 105 m², Operating Capacity = 105 m³

The sludge volume generated in 2026 is expected to be lower than the 2025 volume, as sludge removal is scheduled for completion in spring 2026.

7 Maintenance Procedures Performed on the Works

7.1 Routine Maintenance and Repairs

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 B.

Maintenance and improvements that took place during 2025 include:

- Influent and effluent flows were recorded continuously and operational staff ensured that the flow meters and chart recorders were working properly.
- The weir, effluent chamber and bar screen were inspected at least twice a week and any debris/obstructions was removed as required. Once temperatures dropped to below 0°C, inspections were increased to three times per week.
- Any ice was removed from the influent and effluent flow measuring devices.
- The effluent building and chamber were kept clean and easily accessible.
- The equipment used to prevent freezing (heat trace in still well, effluent building heater and wind break at the back of the effluent building) were maintained and kept in good repair.
- A failing DO sensor cap was replaced.
- The valves in the Forebay were exercised in preparation for the annual sludge clean out; however, the work was postponed until Spring 2026 due to hauler availability issues.

7.2 Emergency Repairs

There were no emergency repairs performed in 2025.

7.3 Calibration of Monitoring Equipment

Influent and effluent monitoring equipment is calibrated at least every 12 months as per the Director's Order or manufactures recommendations. Flow meters are calibrated annually to ensure a required accuracy of +/- 15%. pH and DO meters 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 20 for calibrations conducted in 2025.

Table 20: Calibration Summary

Instrument	Calibration Date	% Accuracy
Raw Flow Meter	April 4, 2025	99.0%
Effluent Flow Meter	April 4, 2025	99.0%
Portable DO/pH Meter	Jan. 9, Apr. 1, Jul. 23 and Oct. 7, 2025	Within tolerance

8 Operating Problems & Corrective Actions

No major operating problems were encountered in 2025.

9 Abnormal Discharge Events

9.1 Overflow, Bypass and Spill Events

No abnormal discharge events occurred at the wetlands or in the collection system during the reporting period.

9.2 Situations Outside Normal Operating Conditions

Additional effluent sampling is required under Item No. 2, Condition 6 of Provincial Officer Order No. 1-MV9KT issued October 2, 2012 and Item No. 4 of Director's Order 1-ROGQN issued January 26, 2022 which states that daily samples of the final effluent are to be collected 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, TP, TKN, TAN, Alkalinity, sulphur, sulphate, hydrogen sulphide and metals).

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 Cobalt Wetlands exceeded its peak design capacity eight (8) times in 2025 in April and May during periods of heavy rainfall and snow melt. Additional daily sampling as per the system's ECA was initiated and results are included in the effluent monitoring.

Table 21: Peak Design Capacity Exceedances

Event Number	Date	Effluent Flow (peak = 4475m ³ /d)
1	April 22	4531
2	April 23	4513

Event Number	Date	Effluent Flow (peak = 4475m ³ /d)
3	April 24	4637
4	April 25	4896
5	April 26	6633
6	April 27	5139
7	April 29	5012
8	May 2	4538

9.3 Efforts Made to Reduce System Overflows and Bypasses

There are no designed bypass or overflow points in the collection system.

Planned bypasses of the maintenance Forebay are required when cleaning out the sludge/septage from the Forebay. MECP approval is requested during these projects.

Overflow points are located between Cell 1 and 2 and between Cell 2 and 3 of the wetlands, but no events have occurred. Regular maintenance and inspection of the system and surrounding environment prevent the occurrence of overflows.

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

- Emergency backup generator is installed at the grey water pumping station.
- A SCADA system is used to monitor the Grey Water Pumping Station and an alarm system is in place to alert operators of any issues; high levels and equipment failures.
- 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 B.
- Repairs to the collection system are done promptly as issues occur.

9.4 Summary of Alterations to the System to Reduce Overflows

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

9.5 Public Notification

No designed overflow points are located in the sewage collection system, therefore no public signage is required.

10 Complaints

No complaints were received during the reporting period.

11 Proposed Alterations to the Works

- Replace the rectangular effluent weir gate with a flow measuring device to provide more accurate measurement of the effluent discharged from the Wetlands to Sasaginaga Creek.
- Replace a failing auto sampler, as it frequently loses its program for composite sampling.

12 Other Information

The Assimilative Capacity Study (ACS) required under the Director's Order was completed by Story Environmental and submitted to the Ministry of the Environment, Conservation and Parks (MECP) on July 31, 2024; however the Ministry rejected the study.

EXP Engineering Services was since been retained to repeat the ACS and to complete a feasibility study to determine an optimal design.

APPENDIX A

Monthly Process Data Report



Influent - Raw Sewage		2025															
S-1 Raw		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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			
	Lab Month.Max	17.0	36.0	55.0	31.0	8.9	19.0	25.0	86.0	24.0	24.0	120.0	31.0			120.0	
	Lab Month.Mean	17.0	36.0	55.0	31.0	8.9	19.0	25.0	86.0	24.0	24.0	120.0	31.0		39.7		
	Lab Month.Min	17.0	36.0	55.0	31.0	8.9	19.0	25.0	86.0	24.0	24.0	120.0	31.0				8.9
Total Ammonia Nitrogen: NH3 + NH4+ as N - mg/L																	
	Lab Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			
	Lab Month.Max	7.43	7.01	6.16	1.73	2.52	5.99	7.32	6.68	8.71	9.53	15.70	6.57			15.70	
	Lab Month.Mean	7.43	7.01	6.16	1.73	2.52	5.99	7.32	6.68	8.71	9.53	15.70	6.57		7.11		
	Lab Month.Min	7.43	7.01	6.16	1.73	2.52	5.99	7.32	6.68	8.71	9.53	15.70	6.57				1.73
Total Kjeldahl Nitrogen: TKN - mg/L																	
	Lab Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			
	Lab Month.Max	10.70	11.50	11.20	5.90	4.80	7.30	8.70	9.90	10.80	10.10	24.30	12.40			24.30	
	Lab Month.Mean	10.70	11.50	11.20	5.90	4.80	7.30	8.70	9.90	10.80	10.10	24.30	12.40		10.63		
	Lab Month.Min	10.70	11.50	11.20	5.90	4.80	7.30	8.70	9.90	10.80	10.10	24.30	12.40				4.80
Total Phosphorus: TP - mg/L																	
	Lab Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			
	Lab Month.Max	0.736	0.576	1.680	0.717	0.456	0.624	0.843	0.796	0.825	0.805	3.500	1.570			3.500	
	Lab Month.Mean	0.736	0.576	1.680	0.717	0.456	0.624	0.843	0.796	0.825	0.805	3.500	1.570		1.094		
	Lab Month.Min	0.736	0.576	1.680	0.717	0.456	0.624	0.843	0.796	0.825	0.805	3.500	1.570				0.456
Total Suspended Solids: TSS - mg/L																	
	Lab Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			
	Lab Month.Max	14	25	107	40	23	20	19	39	12	17	192	90			192	
	Lab Month.Mean	14	25	107	40	23	20	19	39	12	17	192	90		50		
	Lab Month.Min	14	25	107	40	23	20	19	39	12	17	192	90				12
Forebay Contents		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	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			
	Lab Month.Max	28	54	43	24	36	39	27	27	37	39	45	33			54	
	Lab Month.Mean	28	54	43	24	36	39	27	27	37	39	45	33		36		
	Lab Month.Min	28	54	43	24	36	39	27	27	37	39	45	33				24



	Total Ammonia Nitrogen: NH3 + NH4+ as N - mg/L																	
	Lab Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			15.60	
	Lab Month.Max	5.74	15.60	8.83	1.34	6.27	7.68	8.80	11.80	15.60	8.63	4.43	6.07					
	Lab Month.Mean	5.74	15.60	8.83	1.34	6.27	7.68	8.80	11.80	15.60	8.63	4.43	6.07		8.40			
	Lab Month.Min	5.74	15.60	8.83	1.34	6.27	7.68	8.80	11.80	15.60	8.63	4.43	6.07					1.34
	Total Kjeldahl Nitrogen: TKN - mg/L																	
	Lab Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00				
	Lab Month.Max	12.5	27.4	13.3	4.6	11.8	11.6	12.2	16.3	19.4	10.5	9.0	13.2				27.4	
	Lab Month.Mean	12.5	27.4	13.3	4.6	11.8	11.6	12.2	16.3	19.4	10.5	9.0	13.2		13.5			
	Lab Month.Min	12.5	27.4	13.3	4.6	11.8	11.6	12.2	16.3	19.4	10.5	9.0	13.2					4.6
	Total Phosphorus: TP - mg/L																	
	Lab Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00				
	Lab Month.Max	0.917	2.180	1.570	0.532	1.620	1.280	1.450	1.690	2.020	1.070	0.453	1.170				2.180	
	Lab Month.Mean	0.917	2.180	1.570	0.532	1.620	1.280	1.450	1.690	2.020	1.070	0.453	1.170		1.329			
	Lab Month.Min	0.917	2.180	1.570	0.532	1.620	1.280	1.450	1.690	2.020	1.070	0.453	1.170					0.453
	Total Suspended Solids: TSS - mg/L																	
	Lab Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00				
	Lab Month.Max	64	70	24	21	70	83	59	39	57	41	25	56				83	
	Lab Month.Mean	64	70	24	21	70	83	59	39	57	41	25	56		51			
	Lab Month.Min	64	70	24	21	70	83	59	39	57	41	25	56					21
Final Effluent																		
S-4/S-5 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	
	Alkalinity (as CaCO3) - mg/L																	
	Lab Count	4.00	4.00	5.00	10.00	5.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	59.00				
	Lab Month.Max	142.00	143.00	123.00	127.00	125.00	125.00	121.00	113.00	117.00	117.00	103.00	131.00				143.00	
	Lab Month.Mean	134.50	130.50	109.60	109.10	119.40	114.75	115.20	111.25	113.75	115.00	100.50	121.60		115.53			
	Lab Month.Min	127.00	121.00	88.00	99.00	112.00	95.00	108.00	109.00	109.00	110.00	93.00	115.00					88.00
	Arsenic: As - µg/l																	
	Lab Count			1.00	6.00	1.00			1.00	1.00				10.00				
	Lab Month.Max			114.00	104.00	109.00			41.00	33.00							114.00	
	Lab Month.Mean			114.00	88.67	109.00			41.00	33.00					82.90			
	Lab Month.Min			114.00	58.00	109.00			41.00	33.00								33.00
	Biochemical Oxygen Demand: BOD5 - mg/L																	
	Lab Count	4.00	4.00	5.00	10.00	5.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	59.00				
	Lab Month.Max	16.00	11.00	10.00	4.30	3.00	7.00	5.30	3.00	3.50	5.80	2.70	5.10				16.00	
	Lab Month.Mean	6.98	9.95	5.92	2.48	1.94	3.13	2.72	2.05	2.50	3.54	2.33	3.80		3.76			
	Lab Month.Min	3.60	8.00	3.60	0.90	1.00	1.50	1.30	1.30	2.00	1.30	2.10	2.50					0.90



Carbonaceous Biochemical Oxygen Demand: CBOD5 - mg/L																			
	Lab Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			9.40		
	Lab Month.Max	3.50	9.40	3.00	3.00	< 0.50	1.00	0.90	1.70	1.20	1.80	1.10	2.10						
	Lab Month.Mean	3.50	9.40	3.00	3.00	< 0.50	1.00	0.90	1.70	1.20	1.80	1.10	2.10		< 2.43				
	Lab Month.Min	3.50	9.40	3.00	3.00	< 0.50	1.00	0.90	1.70	1.20	1.80	1.10	2.10					< 0.50	
Copper: Cu - µg/l																			
	Lab Count			1.00	6.00	1.00			1.00	1.00				10.00			4.00		
	Lab Month.Max			4.00	2.00	2.00			1.00	1.00									
	Lab Month.Mean			4.00	1.67	2.00			1.00	1.00					1.80				
	Lab Month.Min			4.00	1.00	2.00			1.00	1.00								1.00	
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	4.25	5.70	4.26	3.52	9.39	6.23	4.82	3.22	2.88	5.59	6.08	9.14				9.39		
	IH Month.Mean	2.47	2.93	3.56	2.56	6.29	4.44	4.01	2.83	2.57	3.60	4.26	3.27		3.55				
	IH Month.Min	1.41	1.29	2.26	1.84	3.92	2.30	3.43	2.41	1.72	2.08	3.10	1.41					1.29	
E. Coli: EC - cfu/100mL																			
	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	9300	28400	16800	18800	< 200	200	30	250	135	780	800	39400				39400		
	Lab Month.Mean	6701	11593	11050	9731	< 200	91	22	104	< 51	258	443	18712		< 5087				
	Lab Month.Min	404	72	6200	25	< 200	30	9	10	< 5	40	80	740					< 5	
Iron: Fe - mg/L																			
	Lab Count			1.00	6.00	1.00			1.00	1.00				10.00			0.80		
	Lab Month.Max			0.31	0.40	0.27			0.80	0.52									
	Lab Month.Mean			0.31	0.35	0.27			0.80	0.52					0.40				
	Lab Month.Min			0.31	0.32	0.27			0.80	0.52								0.27	
Fecal Coliform: FC - cfu/100mL																			
	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	10800	21600	28400	15200	< 200	< 200	40	135	185	360	300	25800				28400		
	Lab Month.Mean	7715	9804	18275	7181	< 200	< 90	19	66	58	150	146	6300		< 4109				
	Lab Month.Min	1460	116	11900	33	< 200	30	10	10	5	60	40	198					5	
Hydrogen Sulphide: H2S - mg/L																			
	Lab Count	1.00	1.00	2.00	6.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	19.00					
	Lab Month.Max	< 0.020	0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	0.050	< 0.020	< 0.020	< 0.020	< 0.020				0.050		
	Lab Month.Mean	< 0.020	0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	0.050	< 0.020	< 0.020	< 0.020	< 0.020		< 0.022				
	Lab Month.Min	< 0.020	0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	0.050	< 0.020	< 0.020	< 0.020	< 0.020					< 0.020	



Total Ammonia Nitrogen: NH3 + NH4+ as N - mg/L																		
Lab Count		4.00	4.00	5.00	10.00	5.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	59.00			10.70	
Lab Month.Max		8.60	10.70	9.02	7.05	1.45	1.56	4.00	4.49	6.42	8.37	7.85	8.01					
Lab Month.Mean		7.68	9.04	6.30	3.14	1.09	0.70	3.24	3.52	5.10	6.84	6.38	7.59		4.85			
Lab Month.Min		6.14	7.91	4.05	1.08	0.46	0.27	2.65	2.57	4.25	4.85	4.38	6.62					0.27
Nickel: Ni - µg/l																		
Lab Count				1.00	6.00	1.00			1.00	1.00				10.00				
Lab Month.Max				3.00	2.00	2.00			4.00	3.00						4.00		
Lab Month.Mean				3.00	2.00	2.00			4.00	3.00					2.40			
Lab Month.Min				3.00	2.00	2.00			4.00	3.00								2.00
Lead: Pb - µg/l																		
Lab Count				1.00	6.00	1.00			1.00	1.00				10.00				
Lab Month.Max				0.80	0.50	0.50			0.60	0.50						0.80		
Lab Month.Mean				0.80	0.28	0.50			0.60	0.50					0.41			
Lab Month.Min				0.80	0.10	0.50			0.60	0.50								0.10
pH Field: Lab Upload - ---																		
IH Edited Count		4.00	4.00	5.00	9.00	5.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	58.00				
IH Month.Max		6.78	7.37	7.30	7.03	7.25	7.18	6.88	6.56	6.43	7.25	7.07	7.02				7.37	
IH Month.Mean		6.66	6.77	7.08	6.96	7.20	7.02	6.78	6.47	6.39	6.78	6.85	6.63		6.82			
IH Month.Min		6.55	6.24	6.90	6.81	7.05	6.88	6.66	6.40	6.36	6.41	6.60	6.11					6.11
Sulphur: S - mg/L																		
Lab Count		1.00	1.00	2.00	6.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	19.00				
Lab Month.Max		2.80	4.40	7.40	5.90	4.10	2.10	2.90	3.00	1.30	3.00	4.60	3.90				7.40	
Lab Month.Mean		2.80	4.40	5.95	4.67	3.45	2.10	2.90	3.00	1.30	3.00	4.60	3.90		3.94			
Lab Month.Min		2.80	4.40	4.50	3.60	2.80	2.10	2.90	3.00	1.30	3.00	4.60	3.90					1.30
Sulphate: SO4 - mg/L																		
Lab Count		1.00	1.00	2.00	6.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	19.00				
Lab Month.Max		8.0	6.6	10.7	10.7	13.9	4.8	4.7	< 1.0	5.2	5.9	8.6	6.0				13.9	
Lab Month.Mean		8.0	6.6	7.1	8.7	10.6	4.8	4.7	< 1.0	5.2	5.9	8.6	6.0		< 7.3			
Lab Month.Min		8.0	6.6	3.5	5.5	7.3	4.8	4.7	< 1.0	5.2	5.9	8.6	6.0				< 1.0	
Total Coliform: TC - cfu/100mL																		
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		14100	41800	30000	30600	7200	3800	210	475	465	3480	1920	54600				54600	
Lab Month.Mean		9843	18666	24800	17076	3500	1094	138	335	241	1940	> 1470	28584		> 9202			
Lab Month.Min		772	125	21600	78	1200	125	66	130	100	580	> 1000	2980					66



Temperature Field: Lab Upload - °C																				
	IH Edited Count	4.00	4.00	5.00	9.00	5.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	58.00			22.60			
	IH Month.Max	5.70	3.90	9.10	6.10	15.20	21.80	22.20	22.60	15.90	12.50	8.90	1.70				8.81			
	IH Month.Mean	2.90	2.20	4.84	3.58	12.12	18.35	19.60	17.48	14.27	10.14	4.90	1.00							
	IH Month.Min	0.30	0.50	3.00	0.30	8.00	15.30	17.30	13.60	13.30	7.70	2.20	0.20						0.20	
Total Kjeldahl Nitrogen: TKN - mg/L																				
	Lab Count	4.00	4.00	5.00	10.00	5.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	59.00			12.30			
	Lab Month.Max	10.10	12.30	9.80	7.80	2.50	4.80	5.70	6.30	8.50	8.90	9.90	12.20				6.55			
	Lab Month.Mean	8.78	11.00	7.16	4.96	2.26	2.88	4.44	5.38	6.98	8.24	8.58	10.36							
	Lab Month.Min	7.30	9.70	4.70	3.60	2.00	1.60	3.50	4.10	5.70	7.30	7.50	7.80						1.60	
Total Phosphorus: TP - mg/L																				
	Lab Count	4.00	4.00	5.00	10.00	5.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	59.00						
	Lab Month.Max	0.564	0.610	0.898	1.380	0.239	0.299	0.270	0.179	0.108	0.332	0.225	0.655				1.380			
	Lab Month.Mean	0.537	0.545	0.553	0.386	0.223	0.214	0.217	0.155	0.098	0.182	0.169	0.479				0.322			
	Lab Month.Min	0.512	0.484	0.223	0.222	0.206	0.154	0.107	0.132	0.089	0.115	0.115	0.389						0.089	
Total Suspended Solids: TSS - mg/L																				
	Lab Count	4.00	4.00	5.00	10.00	5.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	59.00						
	Lab Month.Max	3.30	3.00	20.00	3.00	6.70	3.00	9.00	2.00	1.00	6.50	1.30	2.00				20.00			
	Lab Month.Mean	< 1.41	1.83	< 8.20	< 1.70	< 3.21	2.75	< 3.23	< 1.50	< 0.75	< 3.83	< 0.83	< 1.41			< 2.59				
	Lab Month.Min	< 0.67	1.00	< 1.00	< 0.67	< 0.67	2.30	< 0.67	< 1.00	< 0.67	< 0.67	< 0.67	< 0.67					<	0.67	
Zinc: Zn - µg/l																				
	Lab Count			1.00	6.00	1.00			1.00	1.00				10.00			4.00			
	Lab Month.Max			4.00	2.00	2.00			3.00	2.00										
	Lab Month.Mean			4.00	2.00	2.00			3.00	2.00						2.30				
	Lab Month.Min			4.00	2.00	2.00			3.00	2.00									2.00	
Sasaginaga Creek - Downstream of Discharge Point																	2025			
S-3 Down		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			
	Arsenic: As - µg/l																			
	Lab Count				1.00				1.00	1.00				3.00			190.00			
	Lab Month.Max				87.00				190.00	121.00										
	Lab Month.Mean				87.00				190.00	121.00					132.67					
	Lab Month.Min				87.00				190.00	121.00									87.00	
Biochemical Oxygen Demand: BOD5 - mg/L																				
	Lab Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00						
	Lab Month.Max	1.1	5.6	3.8	1.5	0.5	1.3	3.5	17.0	2.5	2.1	4.2	4.4				17.0			
	Lab Month.Mean	1.1	5.6	3.8	1.5	0.5	1.3	3.5	17.0	2.5	2.1	4.2	4.4			4.0				
	Lab Month.Min	1.1	5.6	3.8	1.5	0.50	1.3	3.5	17.0	2.5	2.1	4.2	4.4						0.50	



Copper: Cu - µg/l																			
	Lab Count					1.00					1.00	1.00				3.00			
	Lab Month.Max					3.00					2.00	2.00						3.00	
	Lab Month.Mean					3.00					2.00	2.00				2.33			
	Lab Month.Min					3.00					2.00	2.00							2.00
Dissolved Oxygen: DO Field: Lab Upload - mg/L																			
	IH Edited Count		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00				
	IH Month.Max		12.38	8.27	11.93	11.24	9.75	7.14	4.68	2.85	5.27	8.09	3.98	1.21				12.38	
	IH Month.Mean		12.38	8.27	11.93	11.24	9.75	7.14	4.68	2.85	5.27	8.09	3.98	1.21			7.23		
	IH Month.Min		12.38	8.27	11.93	11.24	9.75	7.14	4.68	2.85	5.27	8.09	3.98	1.21					1.21
E. Coli: EC - cfu/100mL																			
	Lab Count		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00				
	Lab Month.Max		520	300	15	610	15	20	30	10	105	45	85	80				610	
	Lab Month.Mean		520	300	15	610	15	20	30	10	105	45	85	80			153		
	Lab Month.Min		520	300	15	610	15	20	30	10	105	45	85	80					10
Iron: Fe - mg/L																			
	Lab Count					1.00					1.00	1.00				3.00			
	Lab Month.Max					0.32					1.00	0.36						1.00	
	Lab Month.Mean					0.32					1.00	0.36					0.56		
	Lab Month.Min					0.32					1.00	0.36							0.32
Fecal Coliform: FC - cfu/100mL																			
	Lab Count		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00				
	Lab Month.Max		475	975	30	580	10	35	45	10	5	15	15	40				975	
	Lab Month.Mean		475	975	30	580	10	35	45	10	5	15	15	40			186		
	Lab Month.Min		475	975	30	580	10	35	45	10	5	15	15	40					5
Hydrogen Sulphide: H2S - mg/L																			
	Lab Count		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00				
	Lab Month.Max	<	0.020	0.030	<	0.020	<	0.020	<	0.020	<	0.020	<	0.020	0.060			0.060	
	Lab Month.Mean	<	0.020	0.030	<	0.020	<	0.020	<	0.020	<	0.020	<	0.020	0.060		<	0.028	
	Lab Month.Min	<	0.020	0.030	<	0.020	<	0.020	<	0.020	<	0.020	<	0.020	0.060				< 0.020
Total Ammonia Nitrogen: NH3 + NH4+ as N - mg/L																			
	Lab Count		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00				
	Lab Month.Max		1.04	2.82	3.17	0.88	0.22	0.17	1.16	2.25	2.30	5.62	8.67	4.55				8.67	
	Lab Month.Mean		1.04	2.82	3.17	0.88	0.22	0.17	1.16	2.25	2.30	5.62	8.67	4.55			2.74		
	Lab Month.Min		1.04	2.82	3.17	0.88	0.22	0.17	1.16	2.25	2.30	5.62	8.67	4.55					0.17



Nickel: Ni - µg/l																			
	Lab Count				1.00					1.00	1.00				3.00			7.00	
	Lab Month.Max				7.00					6.00	5.00								
	Lab Month.Mean				7.00					6.00	5.00				6.00				
	Lab Month.Min				7.00					6.00	5.00								5.00
Lead: Pb - µg/l																			
	Lab Count				1.00					1.00	1.00				3.00			0.80	
	Lab Month.Max				0.40					0.80	0.40								
	Lab Month.Mean				0.40					0.80	0.40				0.53				
	Lab Month.Min				0.40					0.80	0.40								0.40
pH Field: Lab Upload - ---																			
	IH Edited Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00				7.67	
	IH Month.Max	6.99	7.15	7.67	7.29	7.64	7.47	7.12	6.59	6.60	7.47	6.93	7.04						
	IH Month.Mean	6.99	7.15	7.67	7.29	7.64	7.47	7.12	6.59	6.60	7.47	6.93	7.04		7.16				
	IH Month.Min	6.99	7.15	7.67	7.29	7.64	7.47	7.12	6.59	6.60	7.47	6.93	7.04						6.59
Sulphur: S - mg/L																			
	Lab Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00				5.00	
	Lab Month.Max	1.30	4.60	4.00	3.40	1.80	2.00	3.20	3.20	2.00	2.60	4.50	5.00						
	Lab Month.Mean	1.30	4.60	4.00	3.40	1.80	2.00	3.20	3.20	2.00	2.60	4.50	5.00		3.13				
	Lab Month.Min	1.30	4.60	4.00	3.40	1.80	2.00	3.20	3.20	2.00	2.60	4.50	5.00						1.30
Sulphate: SO4 - mg/L																			
	Lab Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00				11.0	
	Lab Month.Max	5.7	5.6	5.9	4.0	4.8	5.7	4.4	11.0	5.9	6.0	8.5	9.8						
	Lab Month.Mean	5.7	5.6	5.9	4.0	4.8	5.7	4.4	11.0	5.9	6.0	8.5	9.8		6.4				
	Lab Month.Min	5.7	5.6	5.9	4.0	4.8	5.7	4.4	11.0	5.9	6.0	8.5	9.8						4.0
Total Coliform: TC - cfu/100mL																			
	Lab Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00					
	Lab Month.Max	1720	615	100	915	730	175	640	65	185	485	255	910					1720	
	Lab Month.Mean	1720	615	100	915	730	175	640	65	185	485	255	910		566				
	Lab Month.Min	1720	615	100	915	730	175	640	65	185	485	255	910						65
Temperature Field: Lab Upload - °C																			
	IH Edited Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00					
	IH Month.Max	2.60	2.80	2.00	2.30	17.60	15.40	24.00	18.20	14.30	11.60	2.10	1.70					24.00	
	IH Month.Mean	2.60	2.80	2.00	2.30	17.60	15.40	24.00	18.20	14.30	11.60	2.10	1.70		9.55				
	IH Month.Min	2.60	2.80	2.00	2.30	17.60	15.40	24.00	18.20	14.30	11.60	2.10	1.70						1.70



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

Total Phosphorus: TP - mg/L																		
Lab Count		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			0.591	
Lab Month.Max		0.091	0.202	0.171	0.075	0.078	0.136	0.316	0.235	0.063	0.066	0.149	0.591					
Lab Month.Mean		0.091	0.202	0.171	0.075	0.078	0.136	0.316	0.235	0.063	0.066	0.149	0.591		0.181			
Lab Month.Min		0.091	0.202	0.171	0.075	0.078	0.136	0.316	0.235	0.063	0.066	0.149	0.591					0.063
Total Suspended Solids: TSS - mg/L																		
Lab Count		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00				
Lab Month.Max		1.0	25.5	3.3	5.0	1.3	2.3	15.0	43.0	2.7	4.7	7.5	80.0				80.0	
Lab Month.Mean		1.0	25.5	3.3	5.0	1.3	2.3	15.0	43.0	2.7	4.7	7.5	80.0		15.9			
Lab Month.Min		1.0	25.5	3.3	5.0	1.3	2.3	15.0	43.0	2.7	4.7	7.5	80.0					1.0
Zinc: Zn - µg/l																		
Lab Count					1.00				1.00	1.00				3.00				
Lab Month.Max					9.00				4.00	4.00							9.00	
Lab Month.Mean					9.00				4.00	4.00					5.67			
Lab Month.Min					9.00				4.00	4.00								4.00
Sasaginaga Creek - Upstream of Discharge Point																		
S-2 Up		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	
Arsenic: As - µg/l																		
Lab Count					1.00				1.00	1.00				3.00				
Lab Month.Max					95.00				440.00	240.00							440.00	
Lab Month.Mean					95.00				440.00	240.00					258.33			
Lab Month.Min					95.00				440.00	240.00								95.00
Biochemical Oxygen Demand: BOD5 - mg/L																		
Lab Count		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00				
Lab Month.Max		0.50	2.20	0.70	0.70	< 0.50	0.60	< 0.50	0.80	1.40	1.90	8.70	0.50				8.70	
Lab Month.Mean		0.50	2.20	0.70	0.70	< 0.50	0.60	< 0.50	0.80	1.40	1.90	8.70	0.50		< 1.58			
Lab Month.Min		0.50	2.20	0.70	0.70	< 0.50	0.60	< 0.50	0.80	1.40	1.90	8.70	0.50				< 0.50	
Copper: Cu - µg/l																		
Lab Count					1.00				1.00	1.00				3.00				
Lab Month.Max					4.00				3.00	3.00							4.00	
Lab Month.Mean					4.00				3.00	3.00					3.33			
Lab Month.Min					4.00				3.00	3.00								3.00



	Dissolved Oxygen: DO Field: Lab Upload - mg/L																	
	IH Edited Count		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00		12.85	
	IH Month.Max		12.27	11.89	12.85	12.78	10.22	9.97	7.79	5.97	7.96	12.65	6.24	7.26				
	IH Month.Mean		12.27	11.89	12.85	12.78	10.22	9.97	7.79	5.97	7.96	12.65	6.24	7.26		9.82		
	IH Month.Min		12.27	11.89	12.85	12.78	10.22	9.97	7.79	5.97	7.96	12.65	6.24	7.26				5.97
	E. Coli: EC - cfu/100mL																	
	Lab Count		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			
	Lab Month.Max	<	20	5	10	<	5	5	145	15	5	80	40	100	5		145	
	Lab Month.Mean	<	20	5	10	<	5	5	145	15	5	80	40	100	5	<	36	
	Lab Month.Min	<	20	5	10	<	5	5	145	15	5	80	40	100	5			< 5
	Iron: Fe - mg/L																	
	Lab Count					1.00				1.00	1.00				3.00			
	Lab Month.Max					0.33				0.44	0.20						0.44	
	Lab Month.Mean					0.33				0.44	0.20					0.32		
	Lab Month.Min					0.33				0.44	0.20							0.20
	Fecal Coliform: FC - cfu/100mL																	
	Lab Count		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			
	Lab Month.Max	<	5	5	10	<	5	<	5	25	30	<	5	10	40	35	<	5
	Lab Month.Mean	<	5	5	10	<	5	<	5	25	30	<	5	10	40	35	<	5
	Lab Month.Min	<	5	5	10	<	5	<	5	25	30	<	5	10	40	35	<	5
	Hydrogen Sulphide: H2S - mg/L																	
	Lab Count		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00		
	Lab Month.Max	<	0.020	0.020	<	0.020	<	0.020	<	0.020	<	0.020	<	0.020	<	0.020	<	0.020
	Lab Month.Mean	<	0.020	0.020	<	0.020	<	0.020	<	0.020	<	0.020	<	0.020	<	0.020	<	0.020
	Lab Month.Min	<	0.020	0.020	<	0.020	<	0.020	<	0.020	<	0.020	<	0.020	<	0.020	<	0.020
	Total Ammonia Nitrogen: NH3 + NH4+ as N - mg/L																	
	Lab Count		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			
	Lab Month.Max		0.04	0.04	0.08	<	0.01	0.01	<	0.01	<	0.01	0.01	0.48	3.38	7.99	0.12	
	Lab Month.Mean		0.04	0.04	0.08	<	0.01	0.01	<	0.01	<	0.01	0.01	0.48	3.38	7.99	0.12	<
	Lab Month.Min		0.04	0.04	0.08	<	0.01	0.01	<	0.01	<	0.01	0.01	0.48	3.38	7.99	0.12	<
	Nickel: Ni - µg/l																	
	Lab Count					1.00				1.00	1.00				3.00			
	Lab Month.Max					8.00				9.00	6.00						9.00	
	Lab Month.Mean					8.00				9.00	6.00					7.67		
	Lab Month.Min					8.00				9.00	6.00							6.00



	Lead: Pb - µg/l																	
	Lab Count				1.00				1.00	1.00				3.00			0.600	
	Lab Month.Max				0.600				0.100	0.100								
	Lab Month.Mean				0.600				0.100	0.100					0.267			
	Lab Month.Min				0.600				0.100	0.100								0.100
	pH Field: Lab Upload - ---																	
	IH Edited Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			7.82	
	IH Month.Max	6.95	7.36	7.79	7.48	7.82	7.77	7.68	6.98	6.80	7.66	7.10	7.32				7.82	
	IH Month.Mean	6.95	7.36	7.79	7.48	7.82	7.77	7.68	6.98	6.80	7.66	7.10	7.32			7.39		
	IH Month.Min	6.95	7.36	7.79	7.48	7.82	7.77	7.68	6.98	6.80	7.66	7.10	7.32					6.80
	Sulphur: S - mg/L																	
	Lab Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00				
	Lab Month.Max	2.10	4.20	3.30	4.00	1.50	2.20	5.50	3.50	1.40	2.70	4.70	6.70				6.70	
	Lab Month.Mean	2.10	4.20	3.30	4.00	1.50	2.20	5.50	3.50	1.40	2.70	4.70	6.70			3.48		
	Lab Month.Min	2.10	4.20	3.30	4.00	1.50	2.20	5.50	3.50	1.40	2.70	4.70	6.70					1.40
	Sulphate: SO4 - mg/L																	
	Lab Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00				
	Lab Month.Max	5.3	5.3	2.5	3.7	2.8	6.8	12.5	16.0	7.0	6.0	9.2	15.0				16.0	
	Lab Month.Mean	5.3	5.3	2.5	3.7	2.8	6.8	12.5	16.0	7.0	6.0	9.2	15.0			7.7		
	Lab Month.Min	5.3	5.3	2.5	3.7	2.8	6.8	12.5	16.0	7.0	6.0	9.2	15.0					2.5
	Total Coliform: TC - cfu/100mL																	
	Lab Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00				
	Lab Month.Max	200	145	380	510	1160	320	140	45	200	240	385	420				1160	
	Lab Month.Mean	200	145	380	510	1160	320	140	45	200	240	385	420			345		
	Lab Month.Min	200	145	380	510	1160	320	140	45	200	240	385	420					45
	Temperature Field: Lab Upload - °C																	
	IH Edited Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00				
	IH Month.Max	0.80	3.10	1.80	2.50	18.40	15.50	24.40	18.50	14.80	12.30	2.10	1.30				24.40	
	IH Month.Mean	0.80	3.10	1.80	2.50	18.40	15.50	24.40	18.50	14.80	12.30	2.10	1.30			9.63		
	IH Month.Min	0.80	3.10	1.80	2.50	18.40	15.50	24.40	18.50	14.80	12.30	2.10	1.30					0.80
	Total Phosphorus: TP - mg/L																	
	Lab Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00				
	Lab Month.Max	0.011	0.251	0.022	0.024	0.047	0.117	0.189	0.125	0.050	0.051	0.148	0.036				0.251	
	Lab Month.Mean	0.011	0.251	0.022	0.024	0.047	0.117	0.189	0.125	0.050	0.051	0.148	0.036			0.089		
	Lab Month.Min	0.011	0.251	0.022	0.024	0.047	0.117	0.189	0.125	0.050	0.051	0.148	0.036					0.011



	Total Suspended Solids: TSS - mg/L																		
	Lab Count		1.00		1.00		1.00		1.00		1.00		1.00		1.00		12.00		
	Lab Month.Max	<	0.67		13.00	<	0.67		4.50		2.70		1.00	<	0.67		2.70		41.00
	Lab Month.Mean	<	0.67		13.00	<	0.67		4.50		2.70		1.00	<	0.67		2.70		41.00
	Lab Month.Min	<	0.67		13.00	<	0.67		4.50		2.70		1.00	<	0.67		2.70		41.00
	Zinc: Zn - µg/l																		
	Lab Count								1.00				1.00		1.00				3.00
	Lab Month.Max								12.00				3.00		2.00				12.00
	Lab Month.Mean								12.00				3.00		2.00				5.67
	Lab Month.Min								12.00				3.00		2.00				2.00

APPENDIX B

Maintenance Summary



Workorder Summary Report

Report Start Date: Jan 1, 2025 12:00 AM

Report End Date: Dec 31, 2025 11:59 PM

Location: 6022*

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
4304097			6022, Cobalt Wetlands	OPER	Inspection	1	YEARS	Daily O&M Activities WasteWater Treatment (1y) 6022	COMP	1/1/25 12:00 AM	1/8/26 02:06 PM	1/8/26 02:06 PM	
4319283			6022, Cobalt Wetlands	PM	Compliance	1	MONTHS	Cobalt Wetlands Monthly Report to MECP	CLOSE	1/1/25 12:00 AM	1/21/25 03:58 PM	1/21/25 03:58 PM	Cobalt Wetlands Monthly Report to MECP - Completed December report and sent to SOM for review. Cobalt Wetlands Monthly Report to MECP - Finalized and submitted the December Report to MECP, OCWA Engineering and Story Environmental
4333804			6022, Cobalt Wetlands	CAP	Refurbish/ Replace/Repair	0		Replace Failing Portable DO Sensor Cap 6022	CLOSE		1/13/25 07:47 AM	1/13/25 07:47 AM	Replace Failing Portable DO Sensor Cap 6022 - Replace DO sensor cap.
4358156	0000115320	SAMPLER RAW	6022, Cobalt Wetlands	PM	Refurbish/ Replace/Repair	1	YEARS	Sampler Raw Inspection/Program (1Y) 6022	CLOSE	2/1/25 12:00 AM	6/4/25 01:31 PM	6/4/25 01:31 PM	-This pm has been deactivated as we are responsible for this facility.
4367024			6022, Cobalt Wetlands	PM	Compliance	1	MONTHS	Cobalt Wetlands Monthly Report to MECP	CLOSE	2/1/25 12:00 AM	2/21/25 01:22 PM	2/21/25 01:22 PM	Cobalt Wetlands Monthly Report to MECP - Completed WISKI review and draft report for January Cobalt Wetlands Monthly Report to MECP - The January report was reviewed, finalized and submitted to the MECP District Manager, MECP inspector, Owner, OCWA Engineering and Story Environmental
4411593			6022, Cobalt Wetlands	PM	Compliance	1	MONTHS	Cobalt Wetlands Monthly Report to MECP	CLOSE	3/1/25 12:00 AM	3/31/25 07:47 AM	3/31/25 07:47 AM	Cobalt Wetlands Monthly Report to MECP - Completed draft report for February. Submitted to Manager for review. Cobalt Wetlands February submitted to MECP -
4452276	0000115322	METER FLOW	6022, Cobalt Wetlands	PM	Calibration	1	YEARS	Meter Flow Raw Sampling Calibration Notify PCT (1y) 6022	CLOSE	4/1/25 12:00 AM	4/4/25 01:55 PM	4/4/25 01:55 PM	-Please refer to shared drive for cal slip

Workorder Summary Report

Report Start Date: Jan 1, 2025 12:00 AM

Report End Date: Dec 31, 2025 11:59 PM

Location: 6022*

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
4452282	0000293641	RECORDER DATA LOGGER EFFLUENT	6022, Cobalt Wetlands	PM	Refurbish/ Replace/Repair	1	YEARS	Recorder Chart Inspection EFF (1y) 6022	CLOSE	4/1/25 12:00 AM	4/4/25 01:33 PM	4/4/25 01:33 PM	-Please refer to shared drive for cal slip
4453736	0000277415	METER FLOW EFFLUENT	6022, Cobalt Wetlands	PM	Calibration	1	YEARS	Meter Flow Effluent Inspection/ Calibration Notify PCT (1Y) 6022	CLOSE	4/1/25 12:00 AM	4/8/25 08:41 AM	4/8/25 08:41 AM	-Please refer to shared drive for cal slip.
4462670	0000277432	RECORDER DATA LOGGER Raw Cobalt Wetlands 6022	6022, Cobalt Wetlands	PM	Refurbish/ Replace/Repair	1	YEARS	Data Logger Raw Cobalt Wetlands Verification (1Y) 6022	CLOSE	4/1/25 12:00 AM	4/4/25 01:31 PM	4/4/25 01:31 PM	-Please refer to shared drive for cal slip
4463828			6022, Cobalt Wetlands	PM	Compliance	1	MONTHS	Cobalt Wetlands Monthly Report to MECP	CLOSE	4/1/25 12:00 AM	6/27/25 09:44 AM	6/27/25 09:44 AM	Cobalt Wetlands Monthly Report to MECP -Prepared the May 2025 report and submitted draft report for review. Cobalt Wetlands Monthly Report to MECP - Review and finalize May report. Submit to MECP and Owner
4489741			6022, Cobalt Wetlands	CAP	Compliance	0		Cobalt Wetlands Abnormal Sampling Due to Flow Exceedance 6022	CLOSE		7/17/25 09:33 AM	7/17/25 09:33 AM	Cobalt Wetlands Abnormal Sampling Due to Flow Exceedance 6022 - collected abnormal samples due to heavy rains and snow melting. Also collected pH and temperature of grab samples. Re-programmed sampler to continue composite sampling for tomorrow.
4521698			6022, Cobalt Wetlands	PM	Compliance	1	MONTHS	Cobalt Wetlands Monthly Report to MECP	CLOSE	5/1/25 12:00 AM	5/16/25 08:02 AM	5/16/25 08:02 AM	Cobalt Wetlands Monthly Report to MECP - Reviewed WISKI data for April and prepared Monthly report. Review and submit report to MEPC and Owner -
4541690			6022, Cobalt Wetlands	OPER	Inspection	1	YEARS	Grating Insp (1y) - 6022, Cobalt Wetlands	CLOSE	5/1/25 12:00 AM	7/17/25 10:12 AM	7/17/25 10:12 AM	-completed grating inspection last week forgot to close up work order
4551587			6022, Cobalt Wetlands	CAP	Compliance	0		Cobalt Wetlands Effluent Flow Meter 6022	CLOSE		5/30/25 08:10 AM	5/30/25 08:10 AM	Collect info For WT infrastructure -

Workorder Summary Report

Report Start Date: Jan 1, 2025 12:00 AM

Report End Date: Dec 31, 2025 11:59 PM

Location: 6022*

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
4590115			6022, Cobalt Wetlands	PM	Compliance	1	MONTHS	Cobalt Wetlands Monthly Report to MECP	CLOSE	6/1/25 12:00 AM	7/7/25 07:36 AM	7/7/25 07:36 AM	Cobalt Wetlands Monthly Report to MECP -Report completed and submitted
4608337			6022, Cobalt Wetlands	CAP	Compliance	0		Cobalt DWS - HSWS Funding Information - 6022	CLOSE	6/19/25 08:00 AM	6/19/25 09:00 AM	6/19/25 12:00 PM	Cobalt DWS - HSWS Funding Information - 6022 -Compiled and submitted data for the HSWS application being completed by OCWA's PPD Group
4648922	0000293658	ANALYZER DO & pH Sewage Portable	6022, Cobalt Wetlands	PM	Inspection	3	MONTHS	Analyzer DO/pH Portable Kit Calibration/Inspection (3m) 6022	CLOSE	7/2/25 12:00 AM	7/23/25 11:32 AM	7/23/25 11:32 AM	-see shared drive for cal slip
4655384			6022, Cobalt Wetlands	PM	Compliance	1	MONTHS	Cobalt Wetlands Monthly Report to MECP	CLOSE	7/3/25 12:00 AM	8/1/25 02:31 PM	8/1/25 02:31 PM	Cobalt Wetlands Monthly Report to MECP -Worked on June's monthly report Cobalt Wetlands Monthly Report to MECP -Finalized and submitted the report to MECP and the owner.
4663605			6022, Cobalt Wetlands	CAP	Refurbish/ Replace/Repair	0		Cobalt ACS and ECA Wetlands 6022	CLOSE		10/28/25 10:16 AM	10/28/25 10:16 AM	Preliminary plan meeting -
4663650			6022, Cobalt Wetlands	CAP	Compliance	0		Cobalt Wetlands Pre Consultation Review 6022	CLOSE		10/22/25 09:30 AM	10/22/25 09:30 AM	
4693546			6022, Cobalt Wetlands	PM	Compliance	1	MONTHS	Cobalt Wetlands Monthly Report to MECP	CLOSE	8/1/25 12:00 AM	9/2/25 08:02 AM	9/2/25 08:02 AM	Cobalt Wetlands Monthly Report to MECP -Completed Cobalt Wetlands report for July and submitted to MECP as required under the Director's Order
4744392			6022, Cobalt Wetlands	PM	Compliance	1	MONTHS	Cobalt Wetlands Monthly Report to MECP	CLOSE	9/1/25 12:00 AM	10/2/25 11:26 AM	10/2/25 11:26 AM	Cobalt Wetlands Monthly Report to MECP -Started the August report on Friday, September 19th, but was unable to finish due to WISKI issues. Cobalt Wetlands Monthly Report to MECP -Report finalized and submitted to the MECP and Owner

Workorder Summary Report

Report Start Date: Jan 1, 2025 12:00 AM

Report End Date: Dec 31, 2025 11:59 PM

Location: 6022*

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
4793456	0000293658	ANALYZER DO & pH Sewage Portable	6022, Cobalt Wetlands	PM	Inspection	3	MONTHS	Analyzer DO/pH Portable Kit Calibration/Inspection (3m) 6022	CLOSE	10/1/25 12:00 AM	10/7/25 01:43 PM	10/7/25 01:43 PM	Analyzer DO/pH Portable Kit Calibration/Inspection (3m) 6022 - Please refer to the calibration record which can be found on the shared drive.
4798794			6022, Cobalt Wetlands	PM	Compliance	1	MONTHS	Cobalt Wetlands Monthly Report to MECP	CLOSE	10/1/25 12:00 AM	10/15/25 01:48 PM	10/15/25 01:48 PM	Cobalt Wetlands Monthly Report to MECP -Finalized and submitted the September 2025 report Cobalt Wetlands Monthly Report to MECP -Completed the September report. Sent out for review.
4803082			6022, Cobalt Wetlands	PM	Inspection	1	YEARS	Cobalt Wetlands Forebay SludgeJudge 6022	CLOSE	10/1/25 12:00 AM	10/31/25 12:59 PM	10/31/25 12:59 PM	Cobalt Wetlands Forebay SludgeJudge 6022 -Completed Cobalt Wetlands Forebay Sludge depth measuring. Everything looks good.
4847357			6022, Cobalt Wetlands	PM	Compliance	1	MONTHS	Cobalt Wetlands Monthly Report to MECP	CLOSE	11/1/25 12:00 AM	11/24/25 06:53 AM	11/24/25 06:53 AM	Cobalt Wetlands Monthly Report to MECP -Completed draft report. Cobalt Wetlands Monthly Report to MECP -Finalized and submitted report to MECP and Owner
4862805			6022, Cobalt Wetlands	CAP	Refurbish/ Replace/Repair	0		EXP Pre Consult Change order For Tech Meme to Ministry 6022	CLOSE		11/25/25 09:17 AM	12/2/25 09:45 AM	
4892649			6022, Cobalt Wetlands	PM	Compliance	1	MONTHS	Cobalt Wetlands Monthly Report to MECP	COMP	12/1/25 12:00 AM	12/16/25 02:46 PM	12/16/25 02:46 PM	Cobalt Wetlands Monthly Report to MECP -Complete Cobalt Wetland report for November