March 27, 2026
Director
Ministry of the Environment, Conservation and Parks
Southwest Region
733 Exeter Rd
London, ON N6E 1L3

Re: Zurich Sewage Treatment Facility and Bluewater Municipal Sewage Collection System Annual Performance Report

Attached is the 2025 Annual Performance Report for the Zurich Sewage Treatment Facility and the Bluewater Municipal Sewage Collection System. This report has been completed in accordance with Condition 12(4) of Environmental Compliance Approval No. A-500-7203229685 dated March 11, 2025, and Schedule E, Condition 4.0 (4.6) of CLI-ECA No. 045-W601 issued on June 20, 2023. This report was prepared by the Ontario Clean Water Agency on behalf of the Bluewater Municipality based on the information we have in our records. The report covers the period of January 1st to December 31st, 2025.

If you have any questions, please do not hesitate to contact me. 519-441-0441.

Sincerely,

Katelyn Barrowcliffe
Process and Compliance Technician
Ontario Clean Water Agency

Cc Scott Gass, MECP, District Manager
Sam Smith, OCWA, Regional Hub Manager
Paul Sherban, OCWA, Senior Operations Manager
Maegan Garber, OCWA, Safety, Process and Compliance Manager
Dave Kester, Municipality of Bluewater, Manager of Public Works

Zurich Sewage Treatment Facility and Collection System Annual Performance Report

Prepared For:
The Municipality of Bluewater

Operating Authority:

OCWA
ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Reporting Period of January 1 – December 31, 2025

Issued: March 27, 2026

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Overview

The following report was prepared by Ontario Clean Water Agency on behalf of The Municipality of Bluewater in accordance with:

- Condition 10(6) (a) through (i) cited in Environmental Compliance Approval #A-500-7203229685 issued March 11, 2025, to The Corporation of the Municipality of Bluewater.
- Schedule E (4) cited in Consolidated Linear Infrastructure Environmental Compliance Approval (CLI-ECA) #045-W601 issued June 20, 2023, to The Corporation of the Municipality of Bluewater.

System Process Description

The Zurich Sewage Treatment Facility (WWTF) is located at Lot 19, Concession 10, Zurich, Ontario. The facility has a rated capacity of 495 m^3/d and is comprised of the following components:

- Wastewater collection (WWC) system and pumping stations
- Four facultative lagoons (two aerated) with supplementary treatment
- Intermittent Sand Filters (ISF)

Raw Wastewater Collection

Raw sewage flows by gravity through the collection system. When gravity flow is not possible, there are two pumping stations. Both the Knell Crescent Sewage Pumping Station (SPS) and the Zurich Main SPS have two submersible pumps. Knell Crescent SPS pumps sewage to the Zurich Main SPS, which in turn, pumps sewage to the Zurich STP. The Zurich MPS has a 250 mm overflow that discharges into the Zurich Drain. Both stations have standby generators. The Zurich Main SPS has milltronics that monitor wet well levels and control the start/stop cycle of all pumps and alarms. Pumps and alarms at the Knell Crescent SPS operate off floats.

Sewage Lagoons

The lagoon system includes four cells; two cells are equipped with aerators (Cells 1 and 2) and two cells are conventional storage cells (Cells 3 and 4). Raw sewage enters the aeration cells from the inlet structure, which contains two weirs. Sewage flows over either or both of these weirs to enter the aerated lagoon cells. Stop-gates enable or block flow over the weirs. Typically, the four lagoon cells operate in series, with raw sewage entering Cell 1 first. Four separate transfer structures are used to control flow of sewage between cells.

The lagoon cells are designed to provide secondary treatment to the raw sewage entering the facility. The aeration cells are sized to provide a minimum total hydraulic retention time of 60 days (*i.e. 30 days per cell*). The aeration system includes blowers that provide air flow to both aeration cells. The additional oxygen from the air flow enhances reactions that cause decomposition of various contaminants, thus assisting in the sewage treatment. The conventional lagoon cells are sized to provide sufficient storage to store the inflow during the freezing period when the sand filters cannot operate.

Aluminum sulfate is added to the lagoons to coagulate suspended particles in the sewage. The coagulated particles grow to sufficient size where they readily settle. This assists in removing phosphorous from the wastewater before being discharged from the lagoon.

Intermittent Sand Filters

The ISF provides filtration and treatment of effluent from the lagoon cells during the non-freezing periods. The filters are a two-cell system designed to provide 100% excess capacity. This allows one of the filter cells to be operated at any time with the other cell removed from service, while maintaining the design capacity of the facility. The Outlet Works allow treated effluent from the ISF to be fed by gravity to a discharge chamber and discharged into the Zurich Drain.

System Facts:

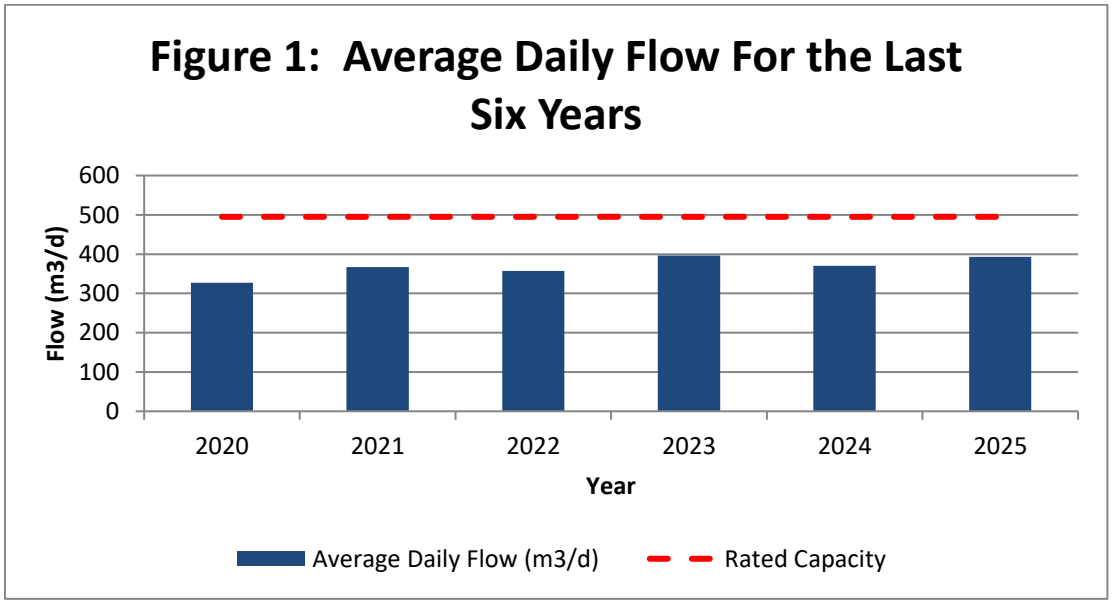
Environmental Compliance Approval	#039-877J9R (issued July 21, 2010) #A-500-7203229685 (Issued March 11, 2025)
CLI Environmental Compliance Approval	#045-W601 (issued June 20, 2025)
Rated Capacity	495 m^3/d
Receiving Water	Zurich Drain

In 2025, the Zurich WWTF was operated in accordance with Environmental Compliance approval (ECA) #039-877J9R until March 10, 2025. Beginning March 11, 2025, operations continued under the amended ECA# A-500-7203229685. The Zurich wastewater collection system was operated in accordance with Consolidated Linear Infrastructure ECA (CLI-ECA) #045-W601.

Influent and Effluent Flow Monitoring

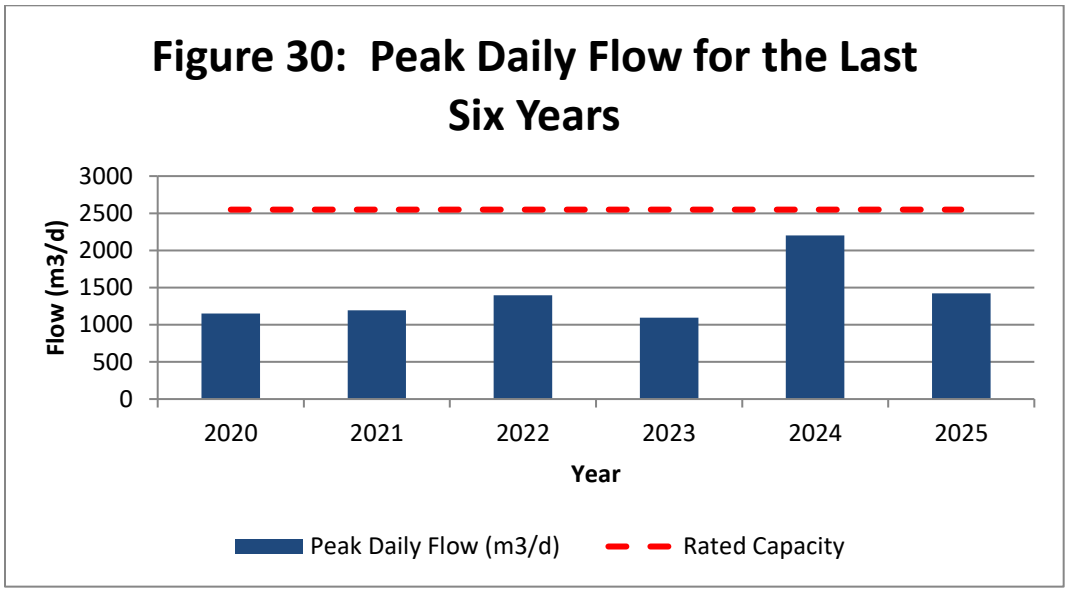
The Zurich WWTF is rated to treat an average daily flow of 454 m^3. Refer to Figure 1 for a comparison of the average daily flow for the last six years against the rated capacity. The Zurich WWTF is currently at 79% of the rated capacity.

Figure 1: *Influent Flows 2020-2025*



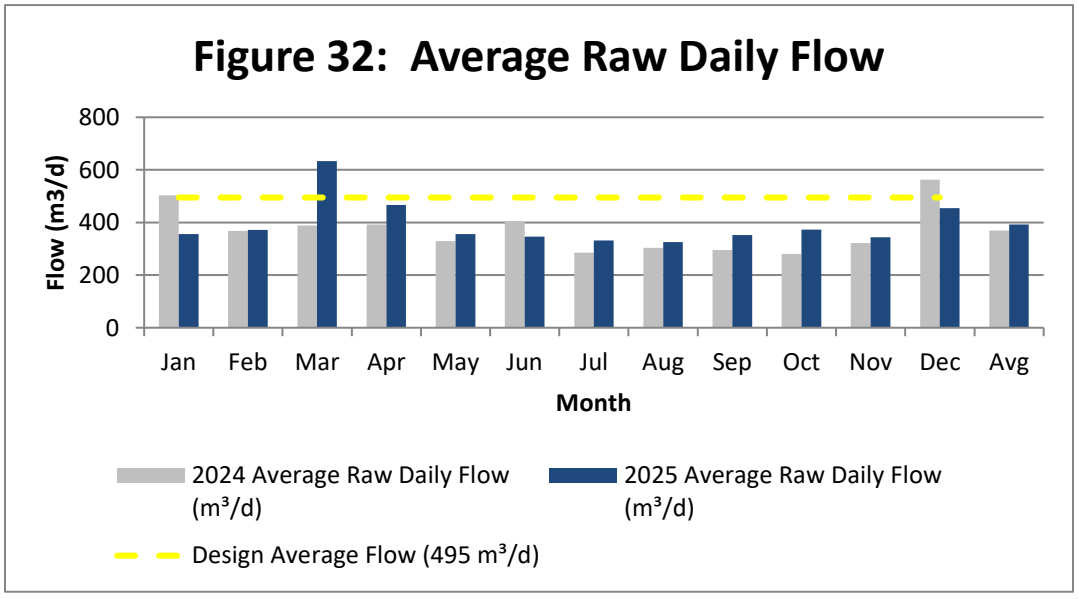
The rated capacity for peak daily flow is 2,549 m^3/d. In 2025, the highest recorded peak flow was 1424 m^3/d. There were no peak daily flow rated capacity exceedances in 2025. Refer to Figure 2 for a comparison of peak daily flows over the past six years relative to the peak daily flow rated capacity. Variations in peak flows are influenced by fluctuations during heavy precipitation events and snow melts.

Figure 2: *Peak Daily Flows 2020-2025*



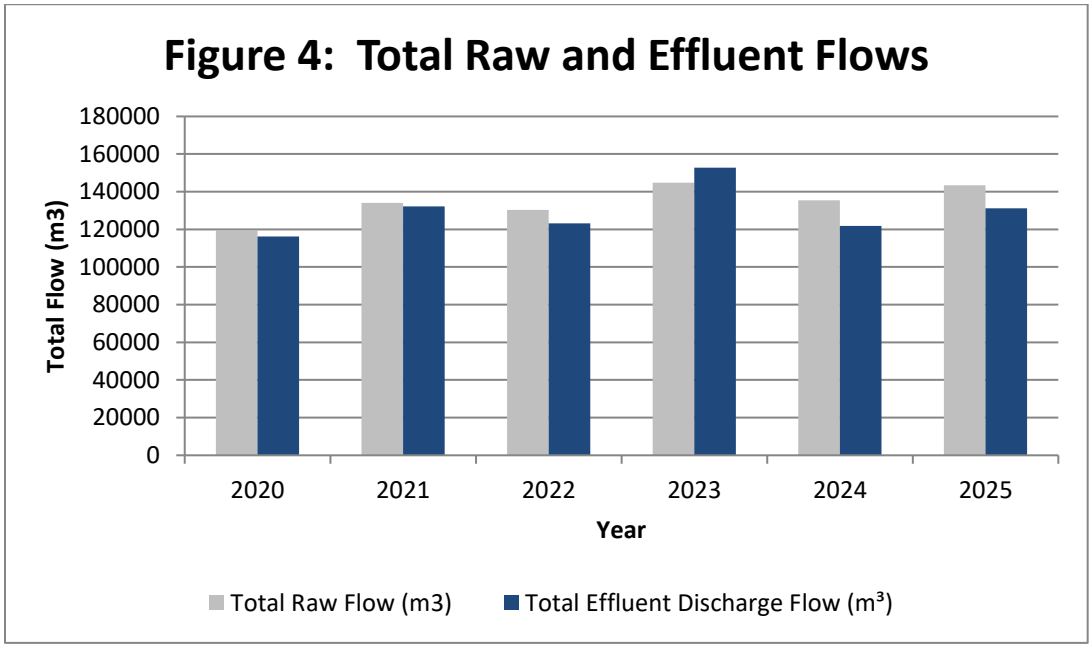
The raw sewage average daily flow was 393 m^3/d in 2025, which is a 6% increase from 2024. Refer to Figure 3 for 2025 average daily flows by month and the corresponding annual average. The design average daily flow was exceeded in March due to heavy precipitation.

Figure 3: *Average Daily Flows by Month*



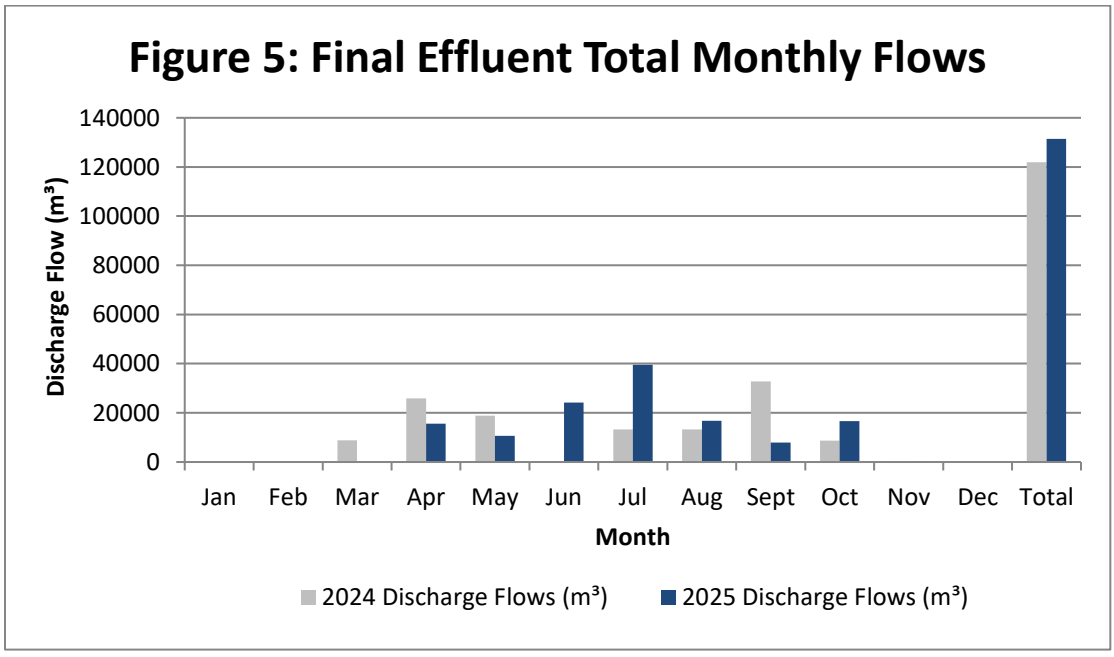
Refer to Figure 4 for the total raw and effluent flow for the past six years. Variances in effluent flow are based on capacity of the lagoons and raw incoming flow volumes.

Figure 4: *Total Raw and Effluent Flows 2020-2025*



In 2025, the lagoons discharged 131 431 m^3 of effluent from April to October. This 8% increase from 2024 is consistent with lower annual flows seen in 2024. Refer to Figure 5 for final effluent total monthly flows for 2024 and 2025.

Figure 5: *Final Effluent Total Monthly Flows*

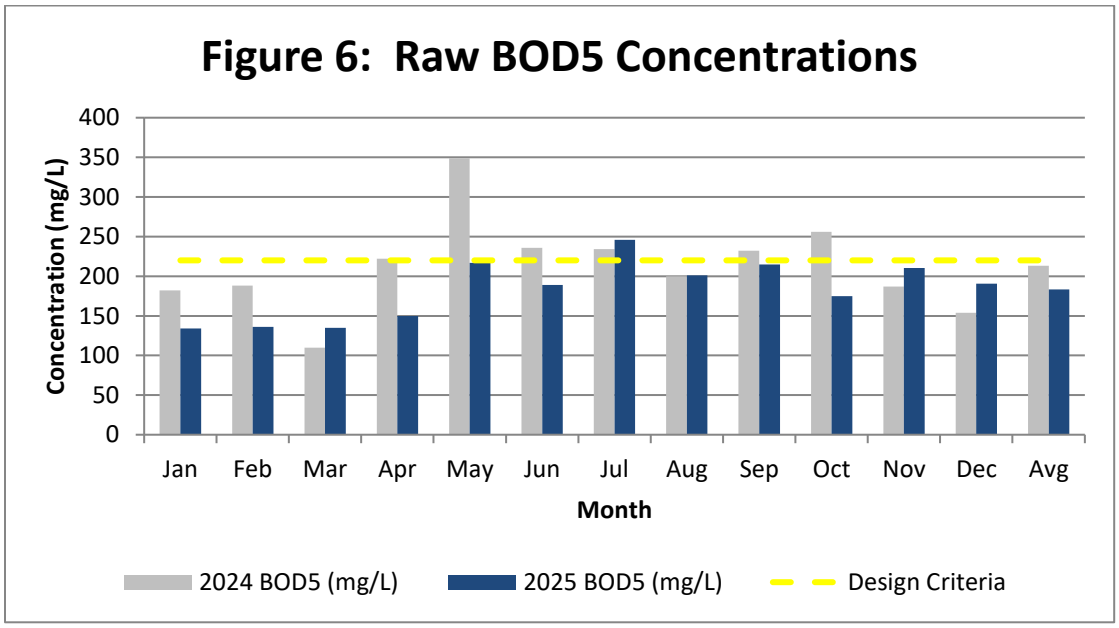


Influent Data

Influent was monitored monthly for Biological Oxygen Demand (BOD_5), Total Suspended Solids (TSS), Total Phosphorus (TP), and Total Kjeldahl Nitrogen (TKN) until the new ECA came into effect on March 11, 2025. After this date, influent sampling frequency increased to weekly. These parameters are measured through grab samples and are assessed against the Zurich WWTF's design criteria. Concentrations exceeding design values can reduce treatment effectiveness and may contribute to effluent limit exceedances. With the exception of a few months, most influent parameters were lower than reported concentrations in 2024. Despite these lower concentrations, several months showed exceedances of design criteria for all parameters except TP.

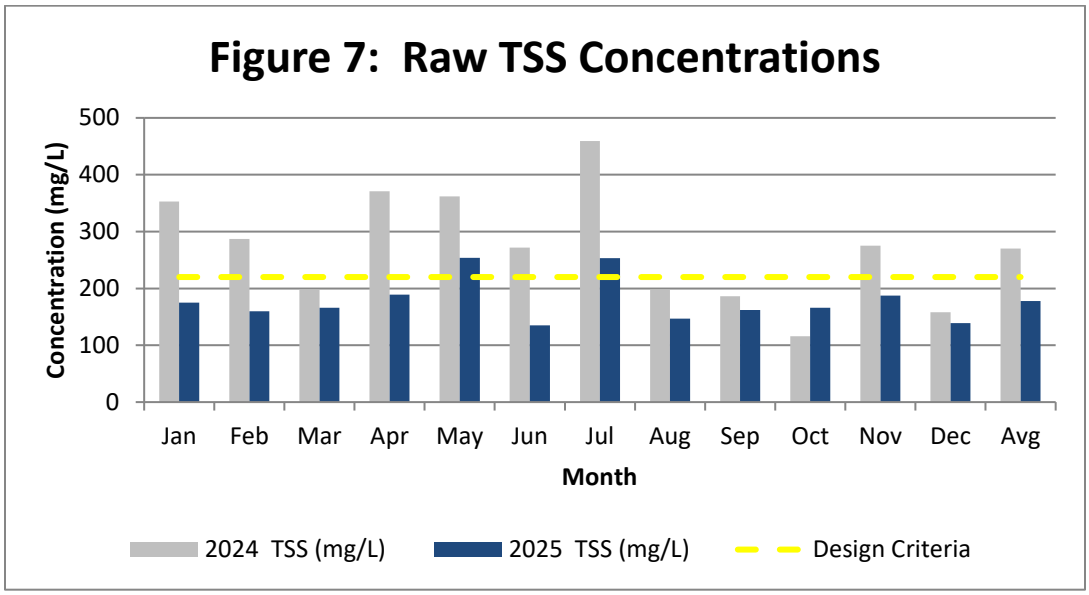
In 2025, the monthly average raw BOD_5 concentration was 183 mg/L, which is a 13% decrease from 2024. July was the only month that the concentration was over the design criteria. Refer to Figure 6 for a comparison of 2025 monthly raw BOD_5 concentrations to 2024 concentrations.

Figure 6: *Raw BOD_5 Concentrations*



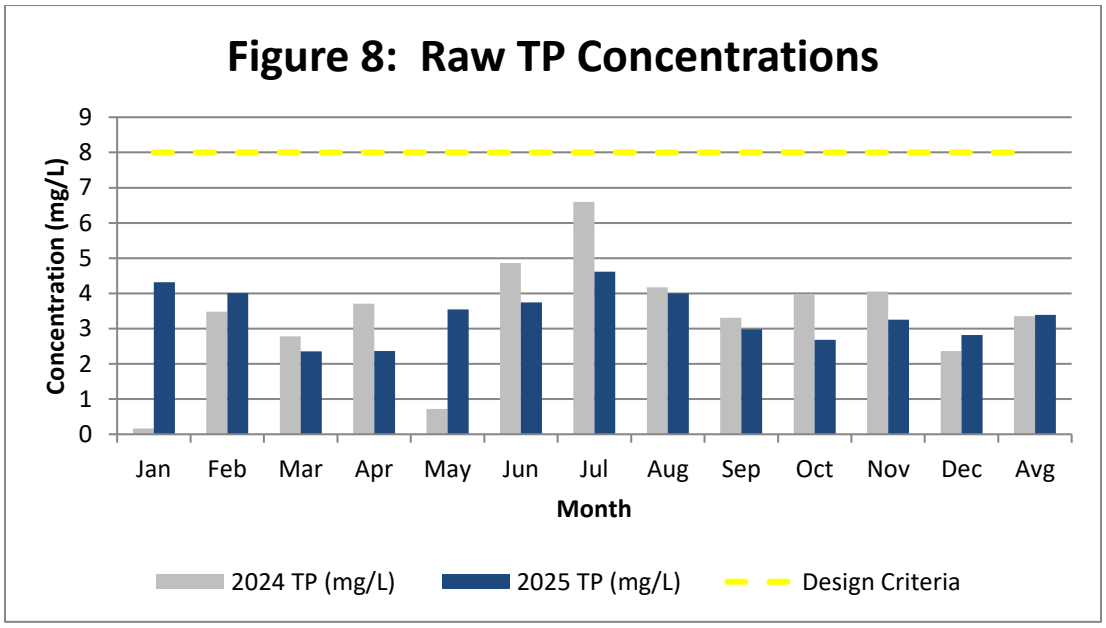
In 2025, the average monthly raw TSS concentration was 177 mg/L, which is a 34% decrease from 2024. Concentrations exceeded the design criteria in May and July. Refer to Figure 7 for a comparison of the 2025 monthly raw TSS concentrations to 2024 concentrations.

Figure 7: *Raw TSS Concentrations*



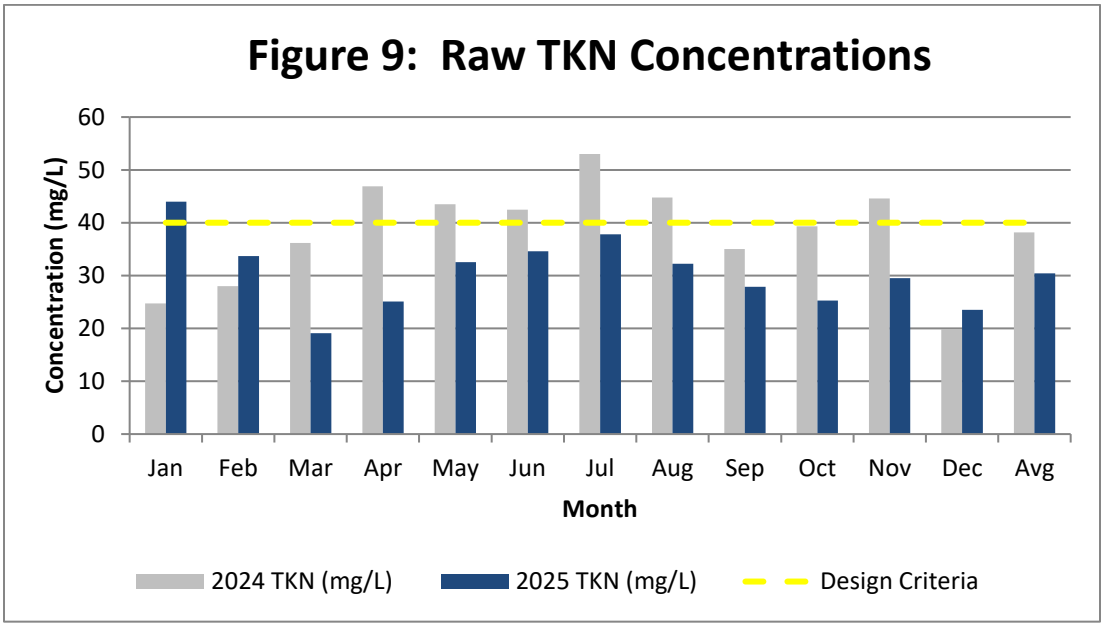
In 2025, the monthly average raw TP concentration was 3 mg/L, which is consistent with concentrations in 2024. All months remained below the design criteria. Refer to Figure 8 for a comparison of 2025 monthly raw TP concentrations to 2024 concentrations.

Figure 8: *Raw TP Concentrations*



In 2025, the monthly average raw TKN concentration was 30 mg/L, which is a 20% decrease from 2024. All months with the exception of January remained below the design criteria. Refer to Figure 9 for a comparison of 2025 monthly raw TKN concentrations to 2024 concentrations.

Figure 9: *Raw TKN Concentrations*



Imported Sewage

The Zurich WWTF is permitted to accept imported sewage under the current ECA. In 2025, the Zurich WWTF received 11.4 m^3 of septage. Refer to Table 1 below for details.

Table 1: *Imported Sewage*

Date Septage Received	Origin	Hauler
March 13, 2025	74185 Homestead Heights, Bayfield	Total Septic

Effluent Monitoring

The Zurich Sewage Treatment Facility is permitted to discharge year-round; however, discharging typically occurs during non freezing months. In 2025, discharge took place during the following periods: April 9–April 15, April 17–April 30, May 5–May 30, June 3–August 15, and September 15–October 31. Discharge was temporarily halted several times throughout the season due to pooling on the Intermittent Sand Filters (ISF) thus requiring maintenance. The lagoon officially completed discharging on October 31.

There are two discharge seasons specified in the Zurich STP ECA: April 16 to December 14 and December 15 to April 15. Each of these periods have separate ECA objectives and limits for each parameter. The

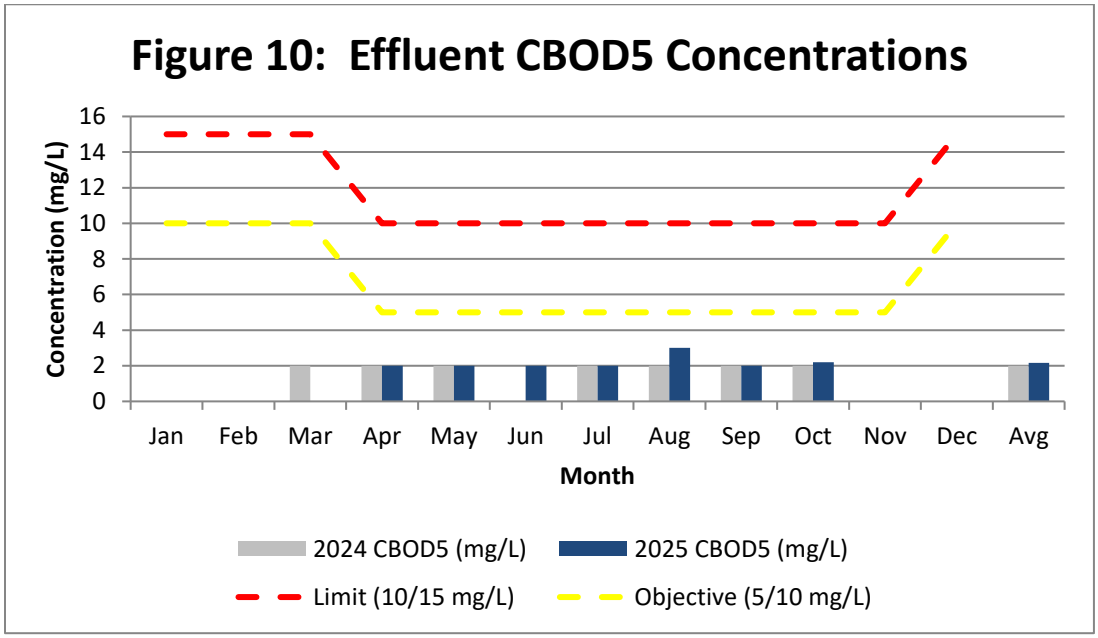
objectives and limits are more stringent during the April 16 to December 14 discharge period due to effluent loadings having a greater impact on receiving streams during warmer weather. The specific objectives and limits are noted in the figures below.

Effluent from the Zurich STP was sampled weekly byway of grab samples until March 11, 2025, when the new ECA requirements came into effect. After this date, sampling changed to composite samples. Effluent was analyzed for Carbonaceous Biochemical Oxygen Demand ($CBOD_5$), Total Suspended Solids (TSS), Total Phosphorus (TP), Total Ammonia Nitrogen (TAN), Unionized Ammonia, E. coli, pH, and temperature. Upon issuance of the new ECA, additional parameters for Nitrate as Nitrogen and Nitrite as Nitrogen, were also required.

Comparison to Compliance Limits and Objectives

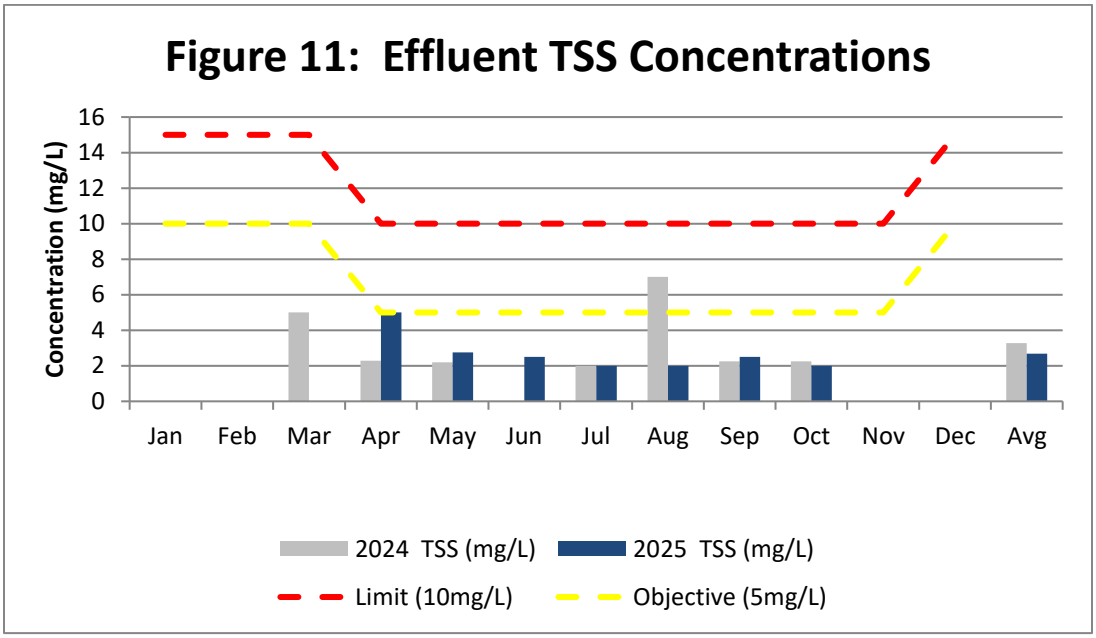
In 2025, the average monthly effluent $CBOD_5$ concentration was 2.2 mg/L, which is a 9% increase from 2024. All limits and objectives were met throughout the year. Refer to Figure 10 for a comparison of monthly effluent $CBOD_5$ concentrations in 2025 relative to 2024.

Figure 10: *Effluent $CBOD_5$ Concentrations*



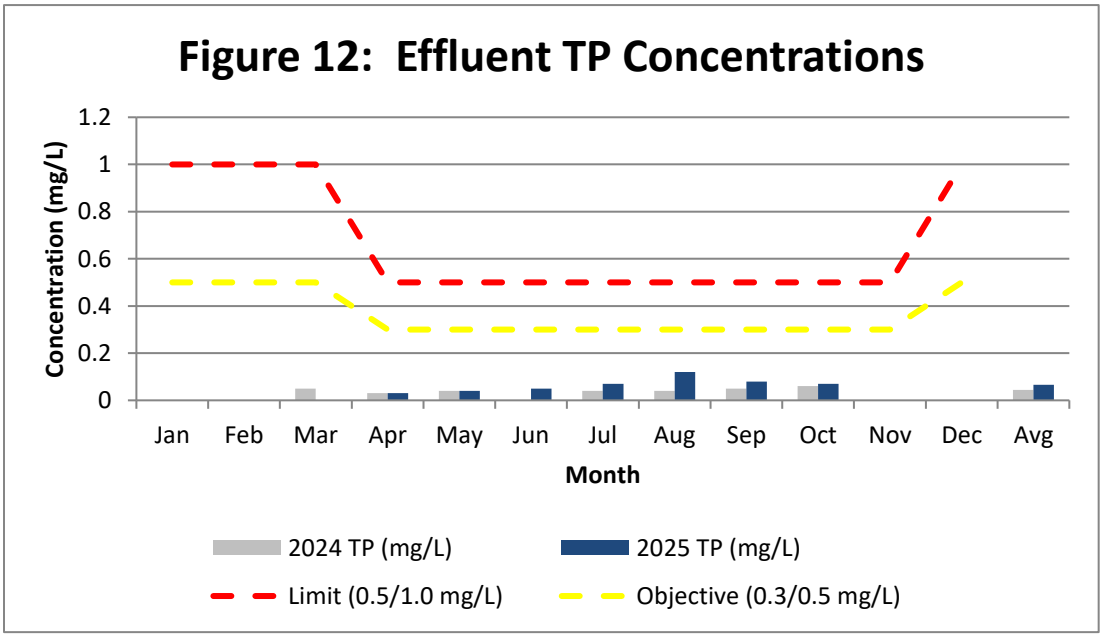
In 2025, the average monthly effluent TSS concentration was 2.6 mg/L, which is an 18% decrease from 2024. All limits and objectives were met throughout the year. Refer to Figure 11 for a comparison of 2025 monthly effluent TSS concentrations to 2024 concentrations.

Figure 11: *Effluent TSS Concentrations*



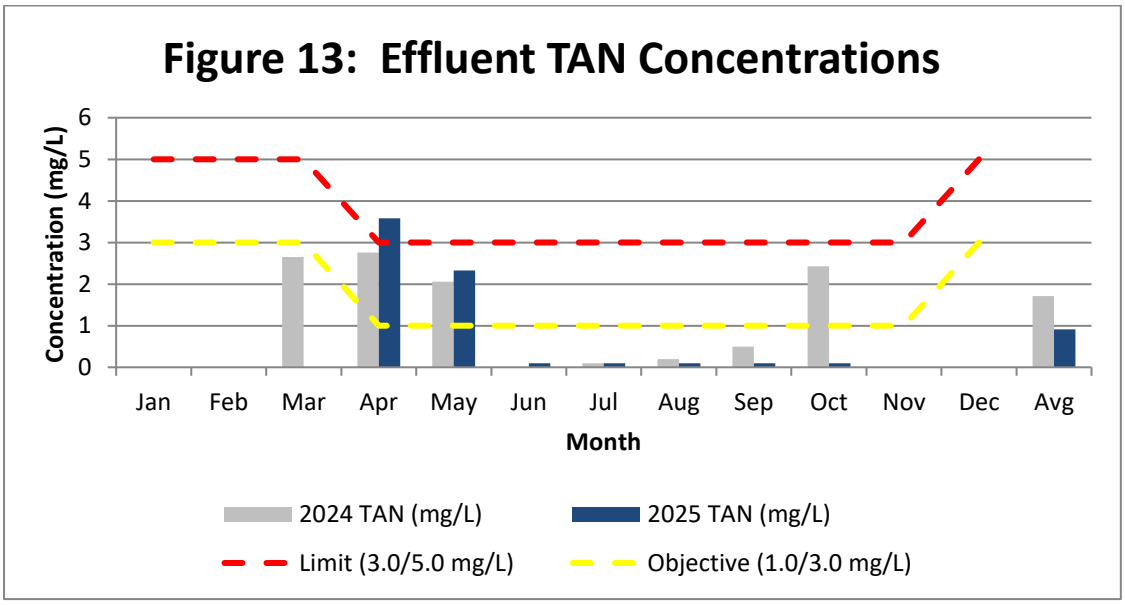
In 2025, the average monthly effluent total phosphorus (TP) concentration was 0.06 mg/L, which is a 48% increase from 2024. Despite this increase, all limits and objectives were met throughout the year. Refer to Figure 12 for a comparison of 2025 monthly effluent TP concentrations to 2024 concentrations.

Figure 12: *Effluent TP Concentrations*



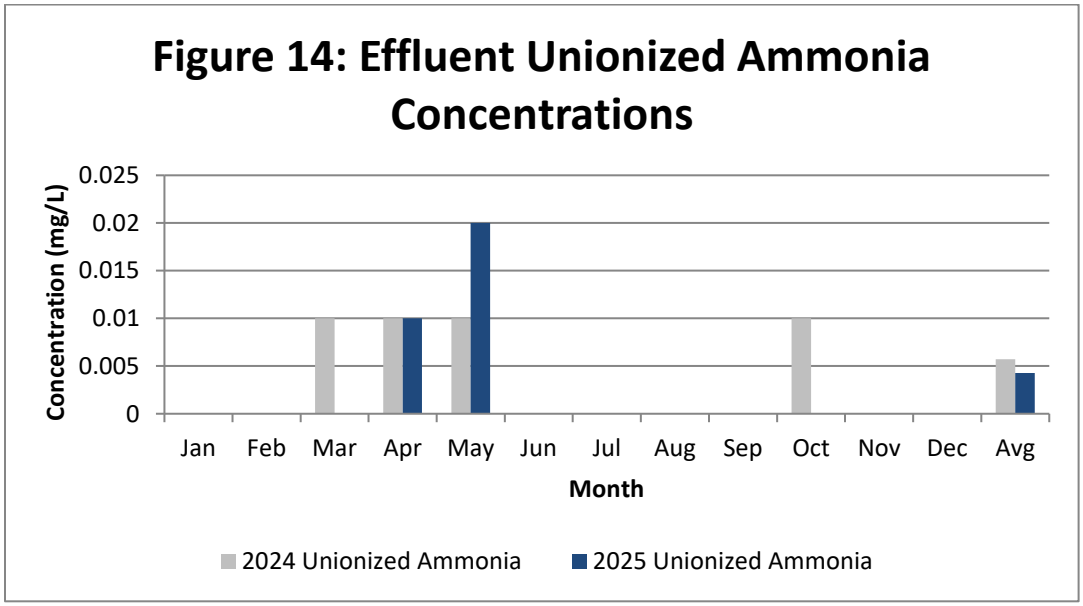
In 2025, the average monthly effluent TAN concentration was 0.9 mg/L, which is a 46% decrease from 2024. The limit was exceeded in April and the objective was not met in May. Additional details are provided in the Summary of Efforts Made to Achieve Design Objectives. Refer to Figure 13 for a comparison of 2025 monthly effluent TAN concentrations to 2024 concentrations.

Figure 13: *Effluent TAN Concentrations*



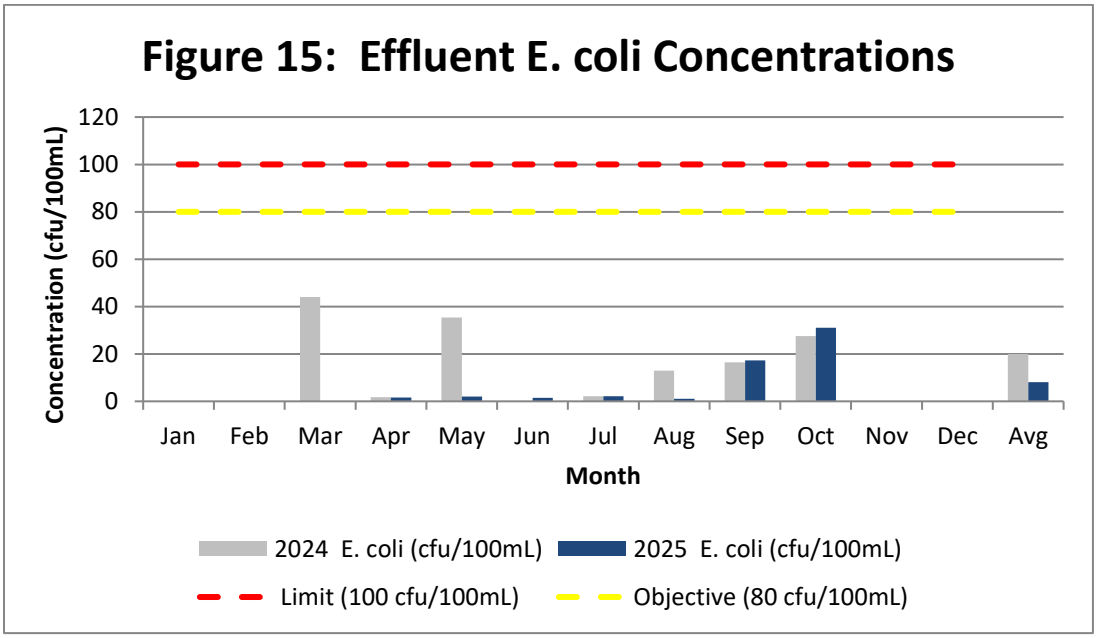
In 2025, the average monthly effluent Unionized Ammonia concentration was 0.004 mg/L, which is a 25% decrease from 2024. There are no objectives or limits for Unionized Ammonia but the 2025 values meet the Provincial Water Quality Objective (PWQO) of 0.02 mg/L. Refer to Figure 14 for a comparison of 2025 monthly effluent Unionized Ammonia concentrations to 2024 concentrations.

Figure 14: *Effluent Unionized Ammonia Concentrations*



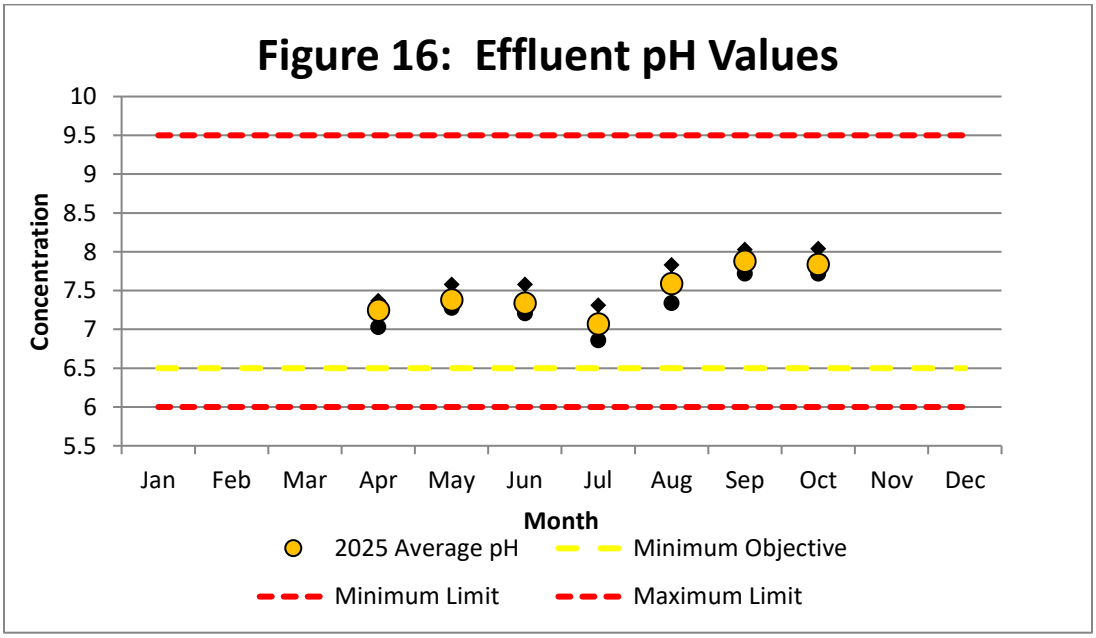
In 2025, the monthly effluent geometric mean E. coli concentration was 8 cfu/100mL, which is a 60% decrease from 2024. All limits and objectives were met throughout the year. Refer to Figure 15 for a comparison of 2025 annual effluent E. coli concentrations to 2024 concentrations.

Figure 15: *Effluent E. coli Concentrations*



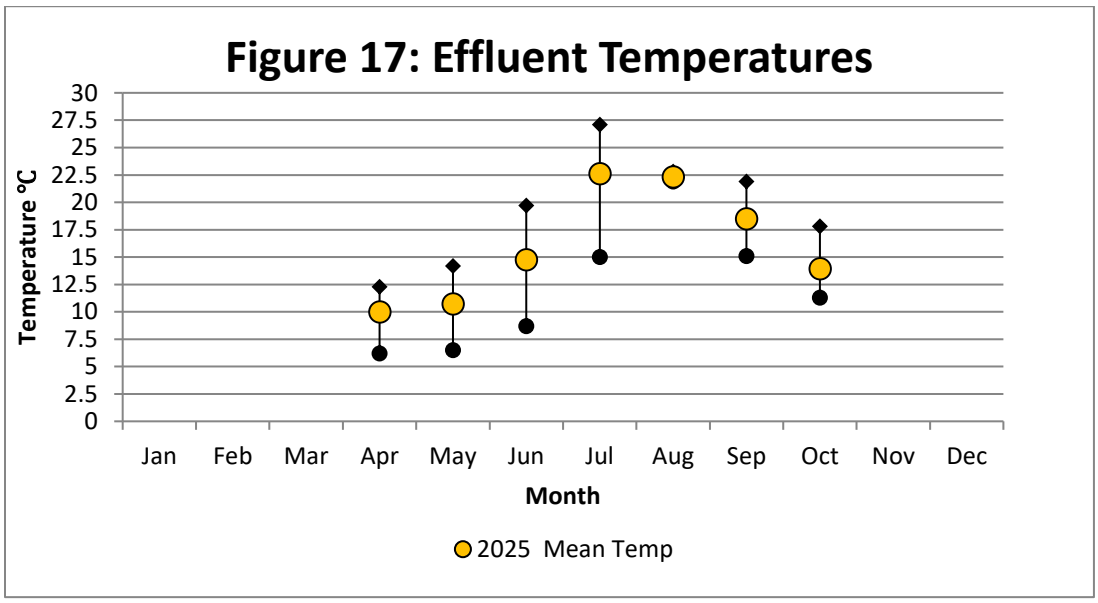
In 2025, effluent pH ranged from 6.86 to 8.04. All limits and objectives were met throughout the year. Refer to Figure 16 for a comparison of 2025 monthly effluent pH values to the objectives and limits.

Figure 16: *Effluent pH Values*



In 2025, effluent temperatures ranged from 6.2 °C to 27.1 °C. There are no objectives or limits for temperature. Refer to Figure 17 for monthly effluent temperature values in 2025.

Figure 17: *Effluent Temperatures*



In 2025, an ammendedECA was issued that introduced monitoring for Nitrite as Nitrogen (NO_2) and Nitrate as Nitrogen (NO_3). Although these parameters do not have objectives or limits, concentrations are used to assess the effectiveness of the nitrification process. Refer to Figure 18 for monthly NO_2 concentrations in 2025 and Figure 19 for monthly NO_3 concentrations in 2025.

Figure 18: *Effluent NO2 Concentrations*

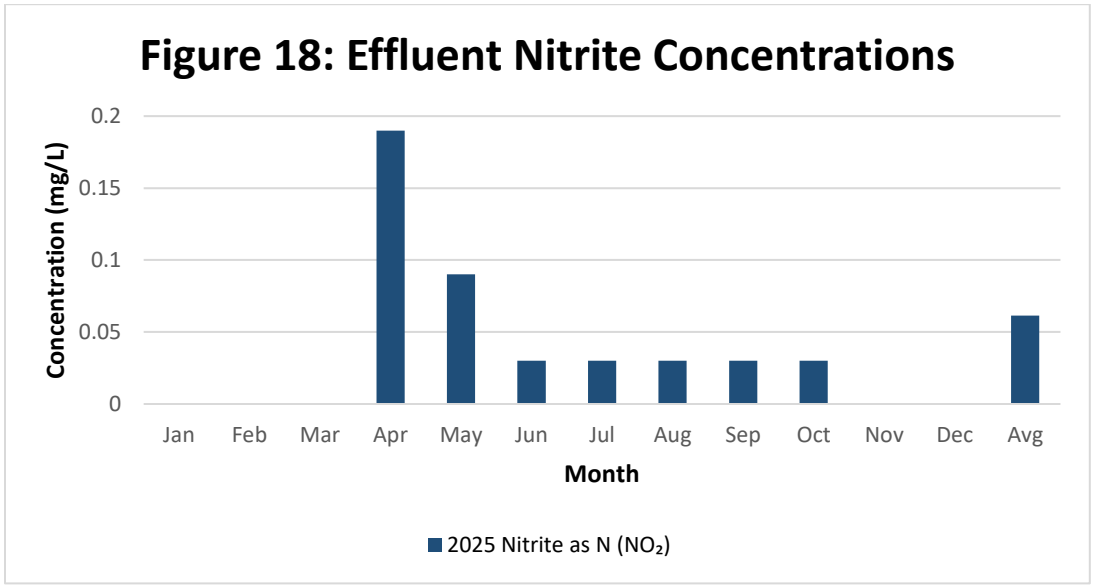
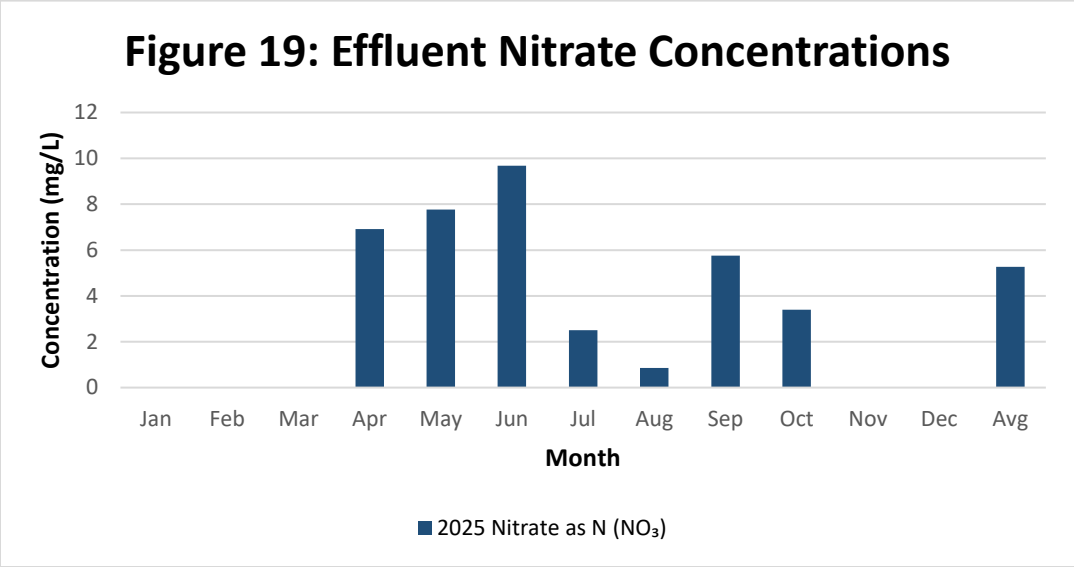


Figure 19: *Effluent NO3 Concentrations*



Deviations from Monitoring Schedule

Deviations from the 2025 sample schedule are outlined in Table 2. Refer to Appendix C for the 2026 sampling schedule.

Table 2: *Summary of Deviations from Monitoring Schedule*

Scheduled Date	Collected Date	Reason for Deviation
April 1	Not Taken	Lagoon spring discharge not started yet
April 8	Not Taken	Lagoon spring discharge not started yet
May 27	May 28	Staffing issue
August 19	Not taken	Lagoon not discharging due to filter bed pooling
August 26	Not taken	Lagoon not discharging due to filter bed pooling
September 2	Not taken	Lagoon not discharging due to filter bed pooling
September 9	Not taken	Lagoon not discharging due to filter bed pooling

Effluent Quality Assurance

Effluent quality assurance is evaluated by monitoring parameters and changes in the lagoons. Operational staff monitor plant performance by conducting in-house tests on dissolved oxygen, pH, and temperature. Staff also monitor and record chemical dosages and any adverse observations in the lagoon cells. Data collected from these tests provide valuable information to the operators to make the appropriate adjustments in the treatment process and take corrective actions before the plant reaches its effluent limits.

Summary of Efforts Made to Achieve Design Objectives

In 2025, the Total Ammonia Nitrogen (TAN) limit was exceeded in April, and the objective was exceeded in May. These exceedances were attributed to pooling on the intermittent sand filter beds and colder temperatures, both of which slow the nitrification process required for TAN removal. Refer to Table 3 for detailed results.

Design objectives were not exceeded more then 50% of the time in 2025. The average influent flow did not exceed 80% of the rated capacity.

Table 3: *Summary of Objective and Limit Exceedances*

Month	Parameter	Concentration (mg/L)	Objective (mg/L)	Limit (mg/L)
April	TAN	3.58	1.0	3.0
May	TAN	2.33	1.0	3.0

Operating Problems and Corrective Actions

The primary challenge at the Zurich WWTF continues to be maintaining proper flow through the Intermittent Sand Filters (ISF) during discharge. When the ISF is not filtering effectively, semi treated effluent begins to pool on the filter surface. This pooling results in the effluent remaining stagnant for longer than intended and being exposed to environmental conditions that inhibit proper biological treatment. The intermittent sand filters use a biological layer called *schmutzdecke*, composed of bacteria, algae, and protozoa which require conditioning or maturation periods. This process is inhibited when water pools for an extended period of time and inhibits the removal efficiency of the ISF.

When pooling is observed, the discharge must be stopped to allow the filters time to drain and to complete any required maintenance. Additionally, flow rates are required to be adjusted and monitored to prevent further exceedances. Both situations restrict the amount of effluent that can be released from the lagoon system, which can create significant capacity challenges, particularly during the winter months when discharge is not possible.

Capital and major maintenance recommendations have been submitted by OCWA to the Municipality of Bluewater to address ongoing maintenance requirements for the collection system and sewage lagoons to continue to produce high quality effluent. Items on the list for 2026 include:

- Main SPS – Sewage Pump Rebuilds
- Main SPS – Check Valve Rebuild
- Main SPS – Gate Valve Rebuild/Replacement
- Main SPS – Wet Well Wizard Install
- Main SPS – Miltronic Replacement
- Main SPS – Float System Replacement
- Knell Cres SPS – Sewage Pump Replacement
- Lagoon – Valve Rebuild/Replacement in Pump Chamber
- Lagoon – Air Valve Rebuild/Replacement in Pump Chamber

- Lagoon – Pump Rebuild/Replacement in Pump Chamber
- Lagoon – Filter Bed Sand Replacement
- Lagoon – Float System Replacement
- Lagoon – Blower Rebuild x3
- Lagoon – Blower VFD/DO Control Installation
- Lagoon – Effluent Auto Sampler

Maintenance Activities

Preventative and corrective maintenance is assigned and monitored within the Workplace Management System (WMS) program. Refer to Appendix A for the 2025 maintenance summary. Refer to Table 4 for a list of repairs and replacements that occurred in 2025.

Table 4: *Major Maintenance in 2025*

Major Maintenance Wastewater
Repaired air leak on blower #3 - Lagoon
Repaired blower #3 - Lagoon
Blower maintenance completed for all blowers – Lagoon
Replaced hour meter on blower #3 – Lagoon
Replaced two faulty floats, repaired wet well grating and installed ladder extension – Knell Cres SPS
Replaced sewage pump #1 – Knell Cres SPS
Installed mounting chains to secure catwalk in wet well – Knell Cres SPS
Cleaned both check valves – Main SPS
Replaced hour meter on sewage pump #2 – Main SPS
Installed 3 sewer clean outs – Collections System

Calibration Records

Pierce Services and Solutions Inc. calibrated influent and effluent flow meters and the wet well level sensor on June 9, 2025. Flow meters met the accuracy tolerance of being within 15% of the actual flow rate. Operational staff complete routine pH meter calibrations and verifications. Refer to Appendix B for 2025 Calibration Records.

On November 5, 2025, the flow meter register was replaced by Pierce Services due to the digital display being faded and difficult to read. Following the replacement, operations staff identified an issue with the flow readings. Pierces Services was retained and identified an issue with the flow calculations. As a result, raw flow values have been determined using pump flow rates and pump run hours

Sludge Generation

In 2025, the Zurich WWTF generated approximately 120 m^3 of sludge. There was no sludge removed from the system in 2025. It is estimated that approximately 130 m^3 of sludge will be generated in 2026. Refer to Table 5 below for the approximate sludge volumes over the past five-year period.

Table 5: *Sludge Volumes over a Five-Year Interval*

Zurich Lagoon	2021 Sludge Volume (m^3)	2022 Sludge Volume (m^3)	2023 Sludge Volume (m^3)	2024 Sludge Volume (m^3)	2025 Sludge Volume (m^3)
	21 450	21 559	21 674	21 786	21 906

Complaints

No complaints were received in 2025 for the Zurich WWTF or WWC system.

Bypass, Overflows, Spills & Abnormal Discharge Events

The ECA requires additional daily sampling for bypass, overflow or spill events. There were no bypass, overflow or spill events in 2025.

Summary of Efforts made to achieve conformance with F-5-1

The Zurich WWTF consists of four lagoon cells operated in series: two (2) aerated cells followed by two (2) conventional storage cells. While the facility is designed for year-round discharge of treated lagoon effluent, it typically only operates during the non-freezing period because the Intermittent Sand Filters (ISF) cannot function properly under freezing conditions. During winter months, the lagoon system is used for storage. Alum is continuously dosed into the influent entering Cell 1, as well as into Cell 3, to enhance solids settling and support effective phosphorus removal. The treatment components are capable of producing effluent quality that exceeds the effluent design objectives specified in Procedure F-5-1. The Zurich STP are required to achieve higher effluent quality standards than the effluent guideline criteria as specified in the ECA.

The Municipality of Bluewater has a separated collection system, therefore a Pollution Prevention Control Program is not required to be established or maintained. In 2025, there were no bypass or overflow events in the collection system. The Sewage Pumping Stations are cleaned on a biannual basis to prevent grease buildup and debris that could affect pump or pipe performance.

Notice of Modification to the Works

There were no 'Notice of Modification to Sewage Works' forms completed in 2025. Additionally, there were no alterations completed in the collection system.

Additional Information the Water Supervisor Requires

The Zurich WWTF received an amended ECA to accept imported sewage (ECA#A-500-7203229685 issued March 11, 2025). Condition 10(2) requires the prediction of the maximum volume of imported sewage for which the Zurich STP can co-treat the following year. This calculation is presented in Appendix C. As per the ECA the volume of Imported Sewage that can be co-treated on a weekly basis in 2025 is 43 m^3, with no imported sewage being received from the last 6 weeks before the end of the discharge. In 2025 11.4 m^3 was imported to the Zurich WWTF, it is estimated that 20 m^3 will be received in 2026.

Appendix A

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: 5876-SPKN,5876-WLZU,5876-WLZU-P,5876-WLZU-F,5876-WLZU-P-PC,5876-WLZU-F-HV,5876-WLZU-P-PI,5876-WLZU-P-HW,5876-WLZU-P-PT,5876-WLZU-F-PG,5876-WLZU-P-ST,5876-SPMA,5876-SPRH

Work Order Type: 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
4287910	0000249057	PANEL ALARM/ DIALER VERBATIM	5876, Main Street Pumping Station	PM	Inspection	1	MONTHS	Alarm Dialer Zurich Lift Testing (1m) 5876	CLOSE	1/1/25 12:00 AM	1/7/25 01:32 PM	1/7/25 01:32 PM	Tested generator,received alarms -
4288487	0000249054	ENGINE DIESEL STANDBY GENSET ZURICH MAIN ST PS	5876, Main Street Pumping Station	PM	Inspection	1	MONTHS	Engine Diesel Zurich WW Insp/Test (1m) 5876	CLOSE	1/1/25 12:00 AM	1/7/25 01:33 PM	1/7/25 01:33 PM	Generator monthly test -
4288506	0000249076	PANEL ALARM/ DIALER 01	5876, Zurich WWTL & CS, Process	PM	Inspection	1	MONTHS	Alarm Dialer 01 Zurich LagoonTesting (1m) 5876	CLOSE	1/1/25 12:00 AM	1/13/25 11:33 AM	1/13/25 11:33 AM	Set off alarm Jan 10/25 -
4288511	0000249107	PANEL ALARM/ DIALER 01 KNELL CRESCENT PS	5876, Knell Crescent Pumping Station	PM	Inspection	1	MONTHS	Alarm Dialer 01 Knell Cres PS Testing (1m) 5876	CLOSE	1/1/25 12:00 AM	1/6/25 01:55 PM	1/6/25 01:55 PM	Tested low level flow alarm -
4305112			5876, Zurich WWTL & CS	PM	Refurbish/ Replace/Repair	3	YEARS	MCC Zurich Lagoon Insp/Service (1y/3y) 5876	CLOSE	1/1/25 12:00 AM	1/17/25 10:19 AM	1/17/25 10:19 AM	MCC Zurich Lagoon Insp/Service (1y/3y) 5876 - • opened cabinet doors and visually inspect the MCC components. • Checked for loose connections and signs of overheating. • Manually operated all circuit breakers. • Inspected main contacts on all motor controllers. • Cleaned the cabinet with a soft brush, vacuum and lint free cloth. •
4305115			5876, Zurich WWTL & CS	PM	Refurbish/ Replace/Repair	3	YEARS	MCC Zurich PS Insp/Service (1y/3y) 5876	CLOSE	1/1/25 12:00 AM	1/17/25 10:18 AM	1/17/25 10:18 AM	MCC Zurich PS Insp/Service (1y/3y) 5876 - • opened cabinet doors and visually inspect the MCC components. • Checked for loose connections and signs of overheating. • Manually operated all circuit breakers. • Inspected main contacts on all motor controllers. • Cleaned the cabinet with a soft brush, vacuum and lint free cloth.

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: 5876-SPKN,5876-WLZU,5876-WLZU-P,5876-WLZU-F,5876-WLZU-P-PC,5876-WLZU-F-HV,5876-WLZU-P-PI,5876-WLZU-P-HW,5876-WLZU-P-PT,5876-WLZU-F-PG,5876-WLZU-P-ST,5876-SPMA,5876-SPRH

Work Order Type: 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
4319407			5876, Zurich WWTL & CS, Facility	PM	Compliance	1	YEARS	RP03 Annual Report ECA (1y) 5876	CLOSE	1/1/25 12:00 AM	3/31/25 01:54 PM	3/31/25 01:54 PM	Completed, submitted to MECP and Client -
4335128			5876, Zurich WWTL & CS, Facility	PM	Compliance	1	YEARS	WSER Quarterly Reporting (1y) 5876	CLOSE	1/12/25 12:00 AM	1/22/25 01:11 PM	1/22/25 01:11 PM	Completed WSER Reporting -
4343797	0000249057	PANEL ALARM/ DIALER VERBATIM	5876, Main Street Pumping Station	PM	Inspection	1	MONTHS	Alarm Dialer Zurich Lift Testing (1m) 5876	CLOSE	2/1/25 12:00 AM	2/7/25 12:22 PM	2/7/25 12:22 PM	Generator running alarm -
4344282	0000249054	ENGINE DIESEL STANDBY GENSET ZURICH MAIN ST PS	5876, Main Street Pumping Station	PM	Inspection	1	MONTHS	Engine Diesel Zurich WW Insp/Test (1m) 5876	CLOSE	2/1/25 12:00 AM	2/7/25 12:20 PM	2/7/25 12:20 PM	Tested generator -
4344301	0000249076	PANEL ALARM/ DIALER 01	5876, Zurich WWTL & CS, Process	PM	Inspection	1	MONTHS	Alarm Dialer 01 Zurich LagoonTesting (1m) 5876	CLOSE	2/1/25 12:00 AM	2/7/25 11:49 AM	2/7/25 11:49 AM	Alum flood alarm test -
4344306	0000249107	PANEL ALARM/ DIALER 01 KNELL CRESCENT PS	5876, Knell Crescent Pumping Station	PM	Inspection	1	MONTHS	Alarm Dialer 01 Knell Cres PS Testing (1m) 5876	CLOSE	2/1/25 12:00 AM	2/14/25 02:46 PM	2/14/25 02:46 PM	Tested alarm -
4379556	0000249102	METER FLOW 01 FINAL EFFLUENT	5876, Zurich WWTL & CS, Process, Process Control & Monitoring	PM	Calibration	1	YEARS	Meter Flow 01 Final Effluent Calibration (1y) 6676	CLOSE	3/22/25 12:00 AM	8/12/25 01:09 PM	8/12/25 01:09 PM	Completed with Greg pierce - Completed with Greg in - Ju
4379559	0000249226	METER FLOW FIT100 RAW	5876, Main Street Pumping Station	PM	Calibration	1	YEARS	Meter Flow FIT-100 Raw Calibration (1y) 6676	CLOSE	3/22/25 12:00 AM	8/12/25 01:12 PM	8/12/25 01:12 PM	Completed in June with greg -
4387602	0000249058	METER LEVEL	5876, Main Street Pumping Station	PM	Calibration	1	YEARS	Meter Level Insp/Service (1y) 5876	CLOSE	3/1/25 12:00 AM	8/12/25 01:51 PM	8/12/25 01:51 PM	Completed with Greg in june -
4387607	0000249057	PANEL ALARM/ DIALER VERBATIM	5876, Main Street Pumping Station	PM	Inspection	1	MONTHS	Alarm Dialer Zurich Lift Testing (1m) 5876	CLOSE	3/1/25 12:00 AM	3/28/25 03:36 PM	3/28/25 03:36 PM	Zurich Main SPS Alarm Testing - • "Generator running" alarm called on call phone as it should due to monthly Gen. test
4388118	0000249054	ENGINE DIESEL STANDBY GENSET ZURICH MAIN ST PS	5876, Main Street Pumping Station	PM	Inspection	1	MONTHS	Engine Diesel Zurich WW Insp/Test (1m) 5876	CLOSE	3/1/25 12:00 AM	3/28/25 03:34 PM	3/28/25 03:34 PM	Zurich Main SPS Gen. Test - • Completed Zurich Main SPS Gen. Test

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: 5876-SPKN,5876-WLZU,5876-WLZU-P,5876-WLZU-F,5876-WLZU-P-PC,5876-WLZU-F-HV,5876-WLZU-P-PI,5876-WLZU-P-HW,5876-WLZU-P-PT,5876-WLZU-F-PG,5876-WLZU-P-ST,5876-SPMA,5876-SPRH

Work Order Type: 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
4388137	0000249076	PANEL ALARM/ DIALER 01	5876, Zurich WWTL & CS, Process	PM	Inspection	1	MONTHS	Alarm Dialer 01 Zurich LagoonTesting (1m) 5876	CLOSE	3/1/25 12:00 AM	3/28/25 03:38 PM	3/28/25 03:38 PM	Zurich Lagoon Alarm Testing - • Set off "Alum room flood" alarm as a test • System called on call phone as it should
4388142	0000249107	PANEL ALARM/ DIALER 01 KNELL CRESCENT PS	5876, Knell Crescent Pumping Station	PM	Inspection	1	MONTHS	Alarm Dialer 01 Knell Cres PS Testing (1m) 5876	CLOSE	3/1/25 12:00 AM	3/17/25 11:29 AM	3/17/25 11:29 AM	Set off high level alarm -
4404525			5876, Zurich WWTL & CS	PM	Inspection	1	YEARS	Blower VFD Inspection/ Freq Increase (1y) 5876	CLOSE	3/1/25 12:00 AM	3/12/25 01:26 PM	3/12/25 01:26 PM	Blower VFD Inspection/ Freq Increase (1y) 5876 - • inspected VFD's confirmed the Hz are adjusted
4434442	0000249057	PANEL ALARM/ DIALER VERBATIM	5876, Main Street Pumping Station	PM	Inspection	1	MONTHS	Alarm Dialer Zurich Lift Testing (1m) 5876	CLOSE	4/1/25 12:00 AM	4/3/25 07:59 PM	4/3/25 07:59 PM	complete -
4434989	0000249054	ENGINE DIESEL STANDBY GENSET ZURICH MAIN ST PS	5876, Main Street Pumping Station	PM	Inspection	1	MONTHS	Engine Diesel Zurich WW Insp/Test (1m) 5876	CLOSE	4/1/25 12:00 AM	4/3/25 08:05 PM	4/3/25 08:05 PM	complete -
4435008	0000249076	PANEL ALARM/ DIALER 01	5876, Zurich WWTL & CS, Process	PM	Inspection	1	MONTHS	Alarm Dialer 01 Zurich LagoonTesting (1m) 5876	CLOSE	4/1/25 12:00 AM	4/3/25 08:06 PM	4/3/25 08:06 PM	complete -
4435013	0000249107	PANEL ALARM/ DIALER 01 KNELL CRESCENT PS	5876, Knell Crescent Pumping Station	PM	Inspection	1	MONTHS	Alarm Dialer 01 Knell Cres PS Testing (1m) 5876	CLOSE	4/1/25 12:00 AM	4/25/25 03:19 PM	4/25/25 03:19 PM	Complete -
4495169	0000249057	PANEL ALARM/ DIALER VERBATIM	5876, Main Street Pumping Station	PM	Inspection	1	MONTHS	Alarm Dialer Zurich Lift Testing (1m) 5876	CLOSE	5/1/25 12:00 AM	6/4/25 11:57 AM	6/4/25 11:57 AM	Complete -
4495683	0000249054	ENGINE DIESEL STANDBY GENSET ZURICH MAIN ST PS	5876, Main Street Pumping Station	PM	Inspection	1	MONTHS	Engine Diesel Zurich WW Insp/Test (1m) 5876	CLOSE	5/1/25 12:00 AM	6/4/25 11:59 AM	6/4/25 11:59 AM	Complete -
4495702	0000249076	PANEL ALARM/ DIALER 01	5876, Zurich WWTL & CS, Process	PM	Inspection	1	MONTHS	Alarm Dialer 01 Zurich LagoonTesting (1m) 5876	CLOSE	5/1/25 12:00 AM	6/4/25 12:00 PM	6/4/25 12:00 PM	Complete -
4495707	0000249107	PANEL ALARM/ DIALER 01 KNELL CRESCENT PS	5876, Knell Crescent Pumping Station	PM	Inspection	1	MONTHS	Alarm Dialer 01 Knell Cres PS Testing (1m) 5876	CLOSE	5/1/25 12:00 AM	6/4/25 12:03 PM	6/4/25 12:03 PM	Complete -
4528025			5876, Main Street Pumping Station	PM	Refurbish/ Replace/Repair	1	YEARS	Overflow FAC 13 Zurich Main SPS Inspection (1y) 5876	CLOSE	5/1/25 12:00 AM	7/9/25 11:04 AM	7/9/25 11:04 AM	Will inspect when weeds die off during the winter. No access - • Sign is installed

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: 5876-SPKN,5876-WLZU,5876-WLZU-P,5876-WLZU-F,5876-WLZU-P-PC,5876-WLZU-F-HV,5876-WLZU-P-PI,5876-WLZU-P-HW,5876-WLZU-P-PT,5876-WLZU-F-PG,5876-WLZU-P-ST,5876-SPMA,5876-SPRH

Work Order Type: 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
4561869	0000249057	PANEL ALARM/ DIALER VERBATIM	5876, Main Street Pumping Station	PM	Inspection	1	MONTHS	Alarm Dialer Zurich Lift Testing (1m) 5876	CLOSE	6/1/25 12:00 AM	7/2/25 11:00 AM	7/2/25 11:00 AM	Complete -
4561874	0000249064	PUMP SUBMERSIBLE FILTER INLET FP01 FILTER PS ZURICH LAGOON	5876, Zurich WWTL & CS, Process, Secondary Treatment	PM	Refurbish/ Replace/Repair	1	YEARS	Pump 01 Zurich Lagoon Filter Insp/ Service (1y) 5876	CLOSE	6/1/25 12:00 AM	7/24/25 07:05 AM	7/24/25 07:05 AM	Pump 01 Zurich Lagoon Filter Insp/ Service (1y) 5876 - • did running checks • meggered • I1 17.5 • I2 17.5 • I3 18.1 • tightened electrical connections
4561877	0000249065	PUMP SUBMERSIBLE FILTER INLET FP02 FILTER PS ZURICH LAGOON	5876, Zurich WWTL & CS, Process, Secondary Treatment	PM	Refurbish/ Replace/Repair	1	YEARS	Pump 02 Zurich Lagoon Filter Insp/ Service (1y) 5876	CLOSE	6/1/25 12:00 AM	7/24/25 07:08 AM	7/24/25 07:08 AM	Pump 02 Zurich Lagoon Filter Insp/ Service (1y) 5876 - • did running checks • meggered • tightened electrical connections • I1 16.6 amp • I2 17 amp • I3 17.5
4561880	0000249104	PUMP SUBMERSIBLE 01	5876, Knell Crescent Pumping Station	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Subm 01 Knell Crescent PS Insp/Service (1y) 5876	CLOSE	6/1/25 12:00 AM	7/24/25 07:11 AM	7/24/25 07:11 AM	Pump Subm 01 Knell Crescent PS Insp/Service (1y) 5876 - • did running checks • meggered • current readings • tightened electrical connections
4561889	0000249105	PUMP SUBMERSIBLE 02	5876, Knell Crescent Pumping Station	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Subm 02 Knell Crescent PS Insp/Service (1y) 5876	CLOSE	6/1/25 12:00 AM	7/24/25 07:13 AM	7/24/25 07:13 AM	Pump Subm 02 Knell Crescent PS Insp/Service (1y) 5876 - • did running checks • meggered • current readings • tightened electrical connections

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: 5876-SPKN,5876-WLZU,5876-WLZU-P,5876-WLZU-F,5876-WLZU-P-PC,5876-WLZU-F-HV,5876-WLZU-P-PI,5876-WLZU-P-HW,5876-WLZU-P-PT,5876-WLZU-F-PG,5876-WLZU-P-ST,5876-SPMA,5876-SPRH

Work Order Type: 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
4561898	0000249049	PUMP SUBMERSIBLE WASTE WATER	5876, Main Street Pumping Station	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Subm Zurich PS Insp/ Service (1y) 5876	CLOSE	6/1/25 12:00 AM	7/24/25 07:16 AM	7/24/25 07:16 AM	Pump Subm Zurich PS Insp/ Service (1y) 5876 - • did running checks • meggered • tightened electrical connections • I1 19.1 • I2 19.9 • I3 22.2
4561907	0000249051	PUMP SUBMERSIBLE WASTE WATER	5876, Main Street Pumping Station	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Subm Zurich PS Insp/ Service (1y) 5876	CLOSE	6/1/25 12:00 AM	7/24/25 07:40 AM	7/24/25 07:40 AM	Pump Subm Zurich PS Insp/ Service (1y) 5876 - • did running checks • meggered • tightened electrical connections • I1 27.4amp • I2 28.5amp • I3 30amp
4562551	0000249054	ENGINE DIESEL STANDBY GENSET ZURICH MAIN ST PS	5876, Main Street Pumping Station	PM	Inspection	1	MONTHS	Engine Diesel Zurich WW Insp/Test (1m) 5876	CLOSE	6/1/25 12:00 AM	7/2/25 11:04 AM	7/2/25 11:04 AM	complete -
4562570	0000249076	PANEL ALARM/ DIALER 01	5876, Zurich WWTL & CS, Process	PM	Inspection	1	MONTHS	Alarm Dialer 01 Zurich LagoonTesting (1m) 5876	CLOSE	6/1/25 12:00 AM	7/2/25 11:08 AM	7/2/25 11:08 AM	complete -
4562575	0000249107	PANEL ALARM/ DIALER 01 KNELL CRESCENT PS	5876, Knell Crescent Pumping Station	PM	Inspection	1	MONTHS	Alarm Dialer 01 Knell Cres PS Testing (1m) 5876	CLOSE	6/1/25 12:00 AM	7/2/25 11:10 AM	7/2/25 11:10 AM	Complete -
4625061	0000249057	PANEL ALARM/ DIALER VERBATIM	5876, Main Street Pumping Station	PM	Inspection	1	MONTHS	Alarm Dialer Zurich Lift Testing (1m) 5876	CLOSE	7/1/25 12:00 AM	7/4/25 12:48 PM	7/4/25 12:48 PM	
4625594	0000249054	ENGINE DIESEL STANDBY GENSET ZURICH MAIN ST PS	5876, Main Street Pumping Station	PM	Inspection	1	MONTHS	Engine Diesel Zurich WW Insp/Test (1m) 5876	CLOSE	7/1/25 12:00 AM	7/4/25 12:55 PM	7/4/25 12:55 PM	
4625613	0000249076	PANEL ALARM/ DIALER 01	5876, Zurich WWTL & CS, Process	PM	Inspection	1	MONTHS	Alarm Dialer 01 Zurich LagoonTesting (1m) 5876	CLOSE	7/1/25 12:00 AM	7/4/25 03:01 PM	7/4/25 03:01 PM	alarm testing -tested monthly alarm
4625618	0000249107	PANEL ALARM/ DIALER 01 KNELL CRESCENT PS	5876, Knell Crescent Pumping Station	PM	Inspection	1	MONTHS	Alarm Dialer 01 Knell Cres PS Testing (1m) 5876	CLOSE	7/1/25 12:00 AM	7/4/25 12:56 PM	7/4/25 12:56 PM	
4669719	0000249069	BLOWER POSITIVE DISPLACEMENT B01 AERATION ZURICH LAGOON	5876, Zurich WWTL & CS, Process	PM	Refurbish/ Replace/Repair	1	YEARS	Blower Positive Displacement 02 Insp/Service (1y) 5876	CLOSE	8/1/25 12:00 AM	9/26/25 02:09 PM	9/26/25 02:09 PM	Completed by Nevtro Sep 24, 2025 -

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: 5876-SPKN,5876-WLZU,5876-WLZU-P,5876-WLZU-F,5876-WLZU-P-PC,5876-WLZU-F-HV,5876-WLZU-P-PI,5876-WLZU-P-HW,5876-WLZU-P-PT,5876-WLZU-F-PG,5876-WLZU-P-ST,5876-SPMA,5876-SPRH

Work Order Type: 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
4669723	0000249057	PANEL ALARM/ DIALER VERBATIM	5876, Main Street Pumping Station	PM	Inspection	1	MONTHS	Alarm Dialer Zurich Lift Testing (1m) 5876	CLOSE	8/1/25 12:00 AM	8/7/25 01:11 PM	8/7/25 01:11 PM	Running generator - Dialer called out
4670247	0000249054	ENGINE DIESEL STANDBY GENSET ZURICH MAIN ST PS	5876, Main Street Pumping Station	PM	Inspection	1	MONTHS	Engine Diesel Zurich WW Insp/Test (1m) 5876	CLOSE	8/1/25 12:00 AM	8/7/25 01:13 PM	8/7/25 01:13 PM	Tested generator -
4670266	0000249076	PANEL ALARM/ DIALER 01	5876, Zurich WWTL & CS, Process	PM	Inspection	1	MONTHS	Alarm Dialer 01 Zurich LagoonTesting (1m) 5876	CLOSE	8/1/25 12:00 AM	8/7/25 01:12 PM	8/7/25 01:12 PM	Tested flood alarm -
4670271	0000249107	PANEL ALARM/ DIALER 01 KNELL CRESCENT PS	5876, Knell Crescent Pumping Station	PM	Inspection	1	MONTHS	Alarm Dialer 01 Knell Cres PS Testing (1m) 5876	CLOSE	8/1/25 12:00 AM	8/7/25 01:24 PM	8/7/25 01:24 PM	Alarm test -
4670276	0000249110	GENERATOR C/W NATURAL GAS ENGINE STANDBY POWER ZURICH KNELL PS	5876, Knell Crescent Pumping Station	PM	Refurbish/ Replace/Repair	1	MONTHS	Engine Gas 01 Inspection/Service (1m/1y) 5876	CLOSE	8/1/25 12:00 AM	11/24/25 12:52 PM	11/24/25 12:52 PM	Complete -
4679781	0000249223	BLOWER POSITIVE DISPLACEMENT B03 AERATION ZURICH LAGOON	5876, Zurich WWTL & CS, Process	PM	Refurbish/ Replace/Repair	1	YEARS	Blower Positive Displacement 03 Insp/Service (1y) 5876	CLOSE	8/1/25 12:00 AM	9/26/25 02:11 PM	9/26/25 02:11 PM	Completed by Nevtro Sep 24, 2025 -
4679785	0000249222	BLOWER POSITIVE DISPLACEMENT B02 AERATION ZURICH LAGOON	5876, Zurich WWTL & CS, Process	PM	Refurbish/ Replace/Repair	1	YEARS	Blower Positive Displacement 01 Insp/Service (1y) 5876	CLOSE	8/1/25 12:00 AM	9/26/25 02:18 PM	9/26/25 02:18 PM	Completed by Nevtro Sep 24, 2025 -
4716879	0000249057	PANEL ALARM/ DIALER VERBATIM	5876, Main Street Pumping Station	PM	Inspection	1	MONTHS	Alarm Dialer Zurich Lift Testing (1m) 5876	CLOSE	9/1/25 12:00 AM	9/10/25 03:57 PM	9/10/25 03:57 PM	Power outage September -
4717474	0000249054	ENGINE DIESEL STANDBY GENSET ZURICH MAIN ST PS	5876, Main Street Pumping Station	PM	Inspection	1	MONTHS	Engine Diesel Zurich WW Insp/Test (1m) 5876	CLOSE	9/1/25 12:00 AM	9/10/25 03:42 PM	9/10/25 03:42 PM	Power outage -
4717493	0000249054	ENGINE DIESEL STANDBY GENSET ZURICH MAIN ST PS	5876, Main Street Pumping Station	PM	Refurbish/ Replace/Repair	1	YEARS	Engine Diesel Zurich WW Insp/ Service (1y) 5876	CLOSE	9/1/25 12:00 AM	11/4/25 12:26 PM	11/4/25 12:26 PM	Completed by sommers Technician -
4717532	0000249076	PANEL ALARM/ DIALER 01	5876, Zurich WWTL & CS, Process	PM	Inspection	1	MONTHS	Alarm Dialer 01 Zurich LagoonTesting (1m) 5876	CLOSE	9/1/25 12:00 AM	9/26/25 02:20 PM	9/26/25 02:20 PM	complete -

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: 5876-SPKN,5876-WLZU,5876-WLZU-P,5876-WLZU-F,5876-WLZU-P-PC,5876-WLZU-F-HV,5876-WLZU-P-PI,5876-WLZU-P-HW,5876-WLZU-P-PT,5876-WLZU-F-PG,5876-WLZU-P-ST,5876-SPMA,5876-SPRH

Work Order Type: 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
4717537	0000249107	PANEL ALARM/ DIALER 01 KNELL CRESCENT PS	5876, Knell Crescent Pumping Station	PM	Inspection	1	MONTHS	Alarm Dialer 01 Knell Cres PS Testing (1m) 5876	CLOSE	9/1/25 12:00 AM	9/26/25 02:21 PM	9/26/25 02:21 PM	complete -
4717542	0000249110	GENERATOR C/W NATURAL GAS ENGINE STANDBY POWER ZURICH KNELL PS	5876, Knell Crescent Pumping Station	PM	Refurbish/ Replace/Repair	1	MONTHS	Engine Gas 01 Inspection/Service (1m/1y) 5876	CLOSE	9/1/25 12:00 AM	11/4/25 12:29 PM	11/4/25 12:29 PM	complete -
4732305			5876, Zurich WWTL & CS	PM	Refurbish/ Replace/Repair	1	YEARS	Engine Diesel Knell Crescent PS Insp/Service (1y) 5876	CLOSE	9/1/25 12:00 AM	11/4/25 12:33 PM	11/4/25 12:33 PM	complete -
4732344	0000404562	FILTER SAND CELL 01 ZURICH LAGOON	5876, Zurich WWTL & CS, Process	PM	Refurbish/ Replace/Repair	1	YEARS	Filter Sand 01 Insp/ Service (1y) 5876	CLOSE	9/1/25 12:00 AM	11/4/25 12:34 PM	11/4/25 12:34 PM	complete -
4732347	0000404563	FILTER SAND CELL 02 ZURICH LAGOON	5876, Zurich WWTL & CS, Process	PM	Refurbish/ Replace/Repair	1	YEARS	Filter Sand 02 Insp/ Service (1y) 5876	CLOSE	9/1/25 12:00 AM	11/4/25 12:35 PM	11/4/25 12:35 PM	complete -
4732356			5876, Zurich WWTL & CS	PM	Refurbish/ Replace/Repair	1	YEARS	Lagoon 01 Insp/Service (1y) 5876	CLOSE	9/1/25 12:00 AM	11/4/25 12:37 PM	11/4/25 12:37 PM	complete -
4732359			5876, Zurich WWTL & CS	PM	Refurbish/ Replace/Repair	1	YEARS	Lagoon 02 Insp/Service (1y) 5876	CLOSE	9/1/25 12:00 AM	11/4/25 12:38 PM	11/4/25 12:38 PM	complete -
4770130	0000249057	PANEL ALARM/ DIALER VERBATIM	5876, Main Street Pumping Station	PM	Inspection	1	MONTHS	Alarm Dialer Zurich Lift Testing (1m) 5876	CLOSE	10/1/25 12:00 AM	11/26/25 09:48 PM	11/26/25 09:48 PM	Tested month of October -
4770135	0000249083	VALVE BACKFLOW PREVENTER ZURICH LAGOON	5876, Zurich WWTL & CS, Process, Process Piping & Valves	PM	Refurbish/ Replace/Repair	1	YEARS	Valve Backflow Insp/Service (1y) 5876	CLOSE	10/1/25 12:00 AM	10/8/25 02:38 PM	10/8/25 02:38 PM	Valve Backflow Insp/Service (1y) 5876 - -Greg from Bluewater Plumbing tested backflow preventer -All normal
4770678	0000249054	ENGINE DIESEL STANDBY GENSET ZURICH MAIN ST PS	5876, Main Street Pumping Station	PM	Inspection	1	MONTHS	Engine Diesel Zurich WW Insp/Test (1m) 5876	CLOSE	10/1/25 12:00 AM	11/26/25 09:52 PM	11/26/25 09:52 PM	Tested month of October -
4770697	0000249076	PANEL ALARM/ DIALER 01	5876, Zurich WWTL & CS, Process	PM	Inspection	1	MONTHS	Alarm Dialer 01 Zurich LagoonTesting (1m) 5876	CLOSE	10/1/25 12:00 AM	10/24/25 03:11 PM	10/24/25 03:11 PM	Alum flood test -
4770702	0000249107	PANEL ALARM/ DIALER 01 KNELL CRESCENT PS	5876, Knell Crescent Pumping Station	PM	Inspection	1	MONTHS	Alarm Dialer 01 Knell Cres PS Testing (1m) 5876	CLOSE	10/1/25 12:00 AM	10/24/25 03:13 PM	10/24/25 03:13 PM	Hi level alarm -

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: 5876-SPKN,5876-WLZU,5876-WLZU-P,5876-WLZU-F,5876-WLZU-P-PC,5876-WLZU-F-HV,5876-WLZU-P-PI,5876-WLZU-P-HW,5876-WLZU-P-PT,5876-WLZU-F-PG,5876-WLZU-P-ST,5876-SPMA,5876-SPRH

Work Order Type: 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
4770707	0000249110	GENERATOR C/W NATURAL GAS ENGINE STANDBY POWER ZURICH KNELL PS	5876, Knell Crescent Pumping Station	PM	Refurbish/ Replace/Repair	1	MONTHS	Engine Gas 01 Inspection/Service (1m/1y) 5876	COMP	10/1/25 12:00 AM	12/31/25 02:58 PM	12/31/25 02:58 PM	Sommers generator service in oct -
4824198	0000249057	PANEL ALARM/ DIALER VERBATIM	5876, Main Street Pumping Station	PM	Inspection	1	MONTHS	Alarm Dialer Zurich Lift Testing (1m) 5876	CLOSE	11/1/25 12:00 AM	12/8/25 08:56 AM	12/8/25 08:56 AM	Completed month of November -
4824800	0000249054	ENGINE DIESEL STANDBY GENSET ZURICH MAIN ST PS	5876, Main Street Pumping Station	PM	Inspection	1	MONTHS	Engine Diesel Zurich WW Insp/Test (1m) 5876	CLOSE	11/1/25 12:00 AM	12/8/25 08:58 AM	12/8/25 08:58 AM	Completed month of November -
4824819	0000249076	PANEL ALARM/ DIALER 01	5876, Zurich WWTL & CS, Process	PM	Inspection	1	MONTHS	Alarm Dialer 01 Zurich LagoonTesting (1m) 5876	CLOSE	11/1/25 12:00 AM	12/8/25 09:00 AM	12/8/25 09:00 AM	Completed month of November -
4824824	0000249107	PANEL ALARM/ DIALER 01 KNELL CRESCENT PS	5876, Knell Crescent Pumping Station	PM	Inspection	1	MONTHS	Alarm Dialer 01 Knell Cres PS Testing (1m) 5876	CLOSE	11/1/25 12:00 AM	11/27/25 07:53 PM	11/27/25 07:53 PM	Pump failed caused alarm -
4824829	0000249110	GENERATOR C/W NATURAL GAS ENGINE STANDBY POWER ZURICH KNELL PS	5876, Knell Crescent Pumping Station	PM	Refurbish/ Replace/Repair	1	MONTHS	Engine Gas 01 Inspection/Service (1m/1y) 5876	CLOSE	11/1/25 12:00 AM	12/19/25 09:17 AM	12/19/25 09:17 AM	Sommers inspection in october -
4869379	0000249057	PANEL ALARM/ DIALER VERBATIM	5876, Main Street Pumping Station	PM	Inspection	1	MONTHS	Alarm Dialer Zurich Lift Testing (1m) 5876	CLOSE	12/1/25 12:00 AM	12/8/25 09:02 AM	12/8/25 09:02 AM	Generator test alarm -
4869951	0000249054	ENGINE DIESEL STANDBY GENSET ZURICH MAIN ST PS	5876, Main Street Pumping Station	PM	Inspection	1	MONTHS	Engine Diesel Zurich WW Insp/Test (1m) 5876	CLOSE	12/1/25 12:00 AM	12/8/25 09:03 AM	12/8/25 09:03 AM	Testing generator -
4869971	0000249076	PANEL ALARM/ DIALER 01	5876, Zurich WWTL & CS, Process	PM	Inspection	1	MONTHS	Alarm Dialer 01 Zurich LagoonTesting (1m) 5876	CLOSE	12/1/25 12:00 AM	12/14/25 10:07 PM	12/14/25 10:07 PM	Tested flood alarm and blower fail alarms -
4869976	0000249107	PANEL ALARM/ DIALER 01 KNELL CRESCENT PS	5876, Knell Crescent Pumping Station	PM	Inspection	1	MONTHS	Alarm Dialer 01 Knell Cres PS Testing (1m) 5876	COMP	12/1/25 12:00 AM	12/31/25 03:05 PM	12/31/25 03:05 PM	Pump low level test in December -
4869981	0000249110	GENERATOR C/W NATURAL GAS ENGINE STANDBY POWER ZURICH KNELL PS	5876, Knell Crescent Pumping Station	PM	Refurbish/ Replace/Repair	1	MONTHS	Engine Gas 01 Inspection/Service (1m/1y) 5876	COMP	12/1/25 12:00 AM	12/31/25 03:06 PM	12/31/25 03:06 PM	Sommers did checks when they went around in the fall -

Appendix B

2025 Calibration Record

Pierce Services
& Solutions Inc.

PO Box 26027
Guelph, ON N1E 6W1

Phone: 519.820.4853

Flowmeter Report

Verification: X Calibration:

Client: OCWA Bluewater
Description: Mag Meter
Manufacturer: ABB
Model: Magmaster
Inventory No.: 249226

Location: Zurich Lift Station SPS
Date: 09-Jun-25
Checked By: Greg Pierce
Serial No.: 9726

Volocity	Input	As Found	As Left	Pass/Fail
0 m/s	0.00 l/s	0.00 l/s	0.00 l/s	Pass
3.10 m/s	25.12 l/s	25.12 l/s	25.12 l/s	Pass
6.36 m/s	50.00 l/s	50.00 l/s	50.00 l/s	Pass

Confirmed Run Mode: X Returned to service: X

Service Comments:

Flowmeter Information

Flow Unit: l/s
Meter Size: 100 mm
Pipe Material: Cast Steel
Liner Material: PU
Range: 0-50 l/s
Tag Number: FIT 201

Comments:
Verification of original calibration

Signature:
Greg Pierce, CCST

Pierce Services & Solutions Inc.

519.820.4853

Instrument Verification Sheet

Client Name: Ontario Clean Water Agency

Date: June 09, 2025

Equipment Description: Level Sensor

Assigned Number: Wet Well Level

Area Located: Zurich Pumping Station

Inventory Number: 249058

Instrument Data

Manufacturer: Milltronics

Model Number: MultiRanger Plus

Type: Ultrasonic

Serial Number: N/A

Range: 0 – 2.050 m

Accuracy: +/- 5%

Method Of Calibration: Standard Measurement

Application: Waste Water

Calibration Data

Input %	Input	As Found	As Left	% Error
51.01%	12.37 mA	1.05 m	1.05 m	

Confirmed Run Mode: ✓

Placed back in service: ✓

Comments:

Checked By: Greg Pierce CCST

Signature:

Pierce Services & Solutions inc.

Alphabetical Parameter Listing Milltronics 100/200

Tag # Wet Well Level Zurich

Date: June 09, 2025

Parameter #	Parameter Description	Parameter Value	Value Description	Relay #
P001	Operation	1	Level measurement	
P002	Material	1	Liquid surface	
P003	Process Speed	3	Medium (1m/min)	
P004	Transducer	104	XPS 10	
P005	Units	1	Meters	
P006	Empty	2.500	Transducer to base	
P007	Span	2.050	Maximum reading	
P065	Reading Override Value	0.00	Relay Value Inserted	
P111	Pump Fixed Duty Setting	1	Pump Fixed Duty Setting	1
P112	Relay on Level	0.700	Meters	1
P113	Relay off Level	0.750	Meters	1
P309	Run Time	8.3	Hours	1
P111	Pump Fixed Duty Setting	52	Pump Fixed Duty Setting	2
P112	Relay on Level	1.800	Meters	2
P113	Relay off Level	0.900	Meters	2
P309	Run Time	3.1	Hours	2
P111	Pump Fixed Duty Setting	52	Pump Fixed Duty Setting	3
P112	Relay on Level	1.900	Meters	3
P113	Relay off Level	1.00	Meters	3
P309	Run Time	3.1	Hours	3
P111	Loss of Echo	6		4
P112	Relay on Level	0.00	Meters	4
P113	Relay off Level	0.00	Meters	4
P309	Run Time	0.4	Hours	4
P111	Loss of Echo	1		5
P112	Relay on Level	2.050		5
P113	Relay off Level	0.00		5
P309	Run Time			5
P340	Date of Manufacture	11:02:10		
P341	Run Time	5207		
P342	Start Ups	216		
P650	Offset Calibration			
P651	Sound Calibration			
P652	Offset Correction			
P653	Velosity	357.3		
P654	Velosity at 20 C	344.1		
P660	Temperature Source Fixed	1		
P791	Bus Error Count	8		
P802	Transducer Submergence	0		
	%	51.01%		
	Echo	100		
	Temp	14 C		
	mA	12.37 mA		
	Level	1.05 m		

Site Location: Zurich Wet Well

Pierce Services
& Solutions Inc.

45 Wilton Road
Guelph, ON N1E 7L6

Phone: 519.820.4853

Flowmeter Report

Verification: X Calibration:

Client: OCWA Bluewater
Description: Mag Flow Meter
Manufacturer: Krohne
Model: Aquaflux
Inventory No.:

Location: Zurich Lagoons
Date: 09-Jun-25
Checked By: Greg Pierce
Serial No.: C103696

Velocity	Input	As Found	As Left	Pass/Fail
0 m/s	0.00 l/s	0.00 l/s	0.00 l/s	Pass
1.05 m/s	33.11 l/s	33.0 l/s	33.0 l/s	Pass
4.77 m/s	150.00 l/s	150.00 l/s	150.00 l/s	Pass

Confirmed Run Mode: X Returned to service: X

Service Comments:

Flowmeter Information

Flow Unit: l/s
Meter Size: 200 mm
Pipe Material: Stainless Steel
Liner Material: PU
Range: 0-150 l/s
Tag Number: FIT 107

Comments:
Verification of original calibration

Operation HRS - 94383
Coil Temp - 522.4F
Electrode Temp 114.5F
Conductivity - 3043 uS/cm
Coil Resistance - 119.5 Ω

Signature:
Greg Pierce, CCST

Appendix C

Imported Sewage Volume

Municipality of **Bluewater**

P.O. Box 250 14 Mill Avenue, Zurich Ontario ~ N0M 2T0
Ph:519-236-4351 Fax:519-236-4329
www.municipalityofbluewater.ca

Septage Haulers Lagoon Dumping Report - Zurich Lagoon

Haulers Name: Total Septic ☑ Grand Bend Sanitation ☐ Other: ☐

MECP Certificate Number: _____

Other haulers please add name, telephone number and address

Haulers Name: Total Septic

Phone Number: 519-857-5276

Mailing Address: _____

Load Origin:	74185 Homestead Heights
Owners Name:	Doug Lawson
Property 9-1-1 Info:	
Load Origin:	
Owners Name:	
Property 9-1-1 Info:	
Load Origin:	
Owners Name:	
Property 9-1-1 Info:	

Total Cubic Meters dumped: 2500 imp gallon

Date: Mar 13/25

Time In: 1040 Time Out: 1050

Haulers Signature: _____

Operation Signature: _____

Revised December 29, 2020

Appendix D

Monitoring Data

Customized Monthly Report

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

Facility Name: ZURICH WASTEWATER TREATMENT LAGOON
Receiver: Zurich Drain

Facility Org Number: 5876
Facility Owner: Municipality: The Corporation of the Municipality of Bluewater
Service Population: 900

Works: 110001444
Facility Classification: Class 1 Wastewater Treatment
Total Design Capacity: 495 m3/day

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

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	2025 Total	2025 Avg	2025 Max	2025 Min
Carbonaceous Biochemical Oxygen Demand: CBOD5 - mg/L																
Count	0.00	0.00	0.00	4.00	4.00	4.00	5.00	2.00	2.00	5.00	0.00	0.00	26.00			
Lab Count	0.00			4.00	4.00	4.00	5.00	2.00	2.00	5.00			26.00			
Lab Month.Max				< 2.00	< 2.00	< 2.00	2.00	4.00	< 2.00	3.00					4.00	
Lab Month.Mean				< 2.00	< 2.00	< 2.00	< 2.00	3.00	< 2.00	< 2.20				< 2.12		
Lab Month.Min				< 2.00	< 2.00	< 2.00	< 2.00	2.00	< 2.00	< 2.00						< 2.00
Dissolved Oxygen: DO - mg/L																
IH Edited Count	0.00			4.00	4.00	4.00	5.00	2.00	2.00	7.00			28.00			
IH Month.Max				10.78	9.89	9.74	8.62	7.25	8.41	10.42					10.78	
IH Month.Mean				7.18	9.06	8.91	7.10	7.18	8.41	9.86				8.44		
IH Month.Min				5.00	8.21	8.00	5.71	7.10	8.40	9.20						5.00
E.Coli MPN - MPN																
Count				4.00	4.00	4.00	5.00	2.00	2.00	5.00	0.00	0.00	26.00			
GMD				1.57	2.06	1.41	2.09	1.00	17.32	1.78						
Lab Count	0.00			4.00	4.00	4.00	5.00	2.00	2.00	5.00			26.00			
Lab Month.Max				3.00	6.00	4.00	5.00	0.00	30.00	18.00					30.00	
Lab Month.Mean				1.50	2.25	1.00	2.20	0.00	20.00	4.40				3.54		
Lab Month.Min				0.00	0.00	0.00	0.00	0.00	10.00	1.00						0.00
Flow - m^3/d																
Count	0.00	0.00	0.00	18.00	26.00	30.00	31.00	12.00	16.00	31.00	0.00		164.00			
OL Month.Max				1303.30	748.90	1335.20	1462.90	1492.00	865.20	3419.50					3419.50	
OL Month.Mean				864.29	408.10	805.16	1275.15	1397.64	493.06	536.02				825.63		
OL Month.Min				155.80	39.80	21.60	603.10	840.90	249.90	252.60						21.60
OL Month.Total				15557.20	10610.60	24154.90	39529.70	16771.70	7889.00	16616.70			131129.80			
Un-ionized Ammonia: NH3 - mg/L																
Count	0.00	0.00	0.00	4.00	4.00	4.00	5.00	2.00	2.00	5.00	0.00	0.00	26.00			
IH Edited Count	0.00			4.00	4.00	4.00	5.00	2.00	2.00	5.00			26.00			
IH Month.Max				0.02	0.05	0.00	0.00	0.00	0.00	0.00					0.05	
IH Month.Mean				0.01	0.02	0.00	0.00	0.00	0.00	0.00				0.01		
IH Month.Min				0.00	0.00	0.00	0.00	0.00	0.00	0.00						0.00
Lab Count	0.00			4.00	4.00	4.00	5.00	2.00	2.00	5.00			26.00			
Lab Month.Max				0.02	0.05	< 0.00	< 0.00	< 0.00	< 0.00	< 0.00					0.05	
Lab Month.Mean				0.01	< 0.02	< 0.00	< 0.00	< 0.00	< 0.00	< 0.00				< 0.00		
Lab Month.Min				0.00	< 0.00	< 0.00	< 0.00	< 0.00	< 0.00	< 0.00						< 0.00
Total Ammonia Nitrogen: NH3 + NH4+ as N - mg/L																
Count	0.00	0.00	0.00	4.00	4.00	4.00	5.00	2.00	2.00	5.00	0.00	0.00	26.00			
Lab Count	0.00			4.00	4.00	4.00	5.00	2.00	2.00	5.00			26.00			

Lab Month.Max				6.50	5.00	< 0.10	0.10	< 0.10	< 0.10	< 0.10					6.50	
Lab Month.Mean				3.85	2.33	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10				< 1.02		
Lab Month.Min				0.70	0.20	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10						< 0.10
Nitrite as N: NO2-N - mg/L																
Count				3.00	4.00	4.00	5.00	2.00	2.00	4.00	0.00	0.00	24.00			
Lab Count	0.00			3.00	4.00	4.00	5.00	2.00	2.00	4.00			24.00			
Lab Month.Max				0.34	0.15	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03					0.34	
Lab Month.Mean				0.19	< 0.09	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03				< 0.06		
Lab Month.Min				0.08	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03						< 0.03
Nitrate as N: NO3-N - mg/L																
Count				3.00	4.00	4.00	5.00	2.00	2.00	4.00	0.00	0.00	24.00			
Lab Count	0.00			3.00	4.00	4.00	5.00	2.00	2.00	4.00			24.00			
Lab Month.Max				11.90	14.80	15.00	3.87	0.97	7.07	4.57					15.00	
Lab Month.Mean				6.92	7.76	9.68	2.51	0.85	5.75	3.39				5.41		
Lab Month.Min				3.55	3.52	4.73	1.12	0.73	4.42	2.24						0.73
pH - ---																
IH Edited Count	0.00			4.00	4.00	4.00	5.00	2.00	2.00	7.00			28.00			
IH Month.Max				7.37	7.58	7.58	7.31	7.83	8.03	8.04					8.04	
IH Month.Mean				7.25	7.38	7.34	7.07	7.59	7.88	7.84				7.46		
IH Month.Min				7.03	7.28	7.21	6.86	7.34	7.72	7.72						6.86
Temperature - °C																
IH Edited Count	0.00			4.00	4.00	4.00	5.00	2.00	2.00	7.00			28.00			
IH Month.Max				12.30	14.20	19.70	27.10	22.80	21.90	17.80					27.10	
IH Month.Mean				10.00	10.75	14.78	22.62	22.35	18.50	13.96				15.52		
IH Month.Min				6.20	6.50	8.70	15.00	21.90	15.10	11.30						6.20
Total Kjeldahl Nitrogen: TKN - mg/L																
Lab Count	0.00			3.00	4.00	4.00	5.00	2.00	2.00	4.00			24.00			
Lab Month.Max				6.90	5.70	0.80	0.60	1.00	0.70	0.60					6.90	
Lab Month.Mean				4.40	< 2.65	< 0.60	< 0.52	< 0.75	< 0.60	< 0.55				< 1.40		
Lab Month.Min				1.00	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50						< 0.50
Total Phosphorus: TP - mg/L																
Lab Count	0.00			4.00	4.00	4.00	5.00	2.00	2.00	5.00			26.00			
Lab Month.Max				0.03	0.04	0.06	0.09	0.13	0.08	0.08					0.13	
Lab Month.Mean				< 0.03	< 0.04	< 0.05	0.07	0.12	0.08	0.07				< 0.06		
Lab Month.Min				< 0.03	< 0.03	< 0.03	0.05	0.10	0.08	0.06						< 0.03
Total Suspended Solids: TSS - mg/L																
Count	0.00	0.00	0.00	4.00	4.00	4.00	5.00	2.00	2.00	5.00	0.00	0.00	26.00			
Lab Count	0.00			4.00	4.00	4.00	5.00	2.00	2.00	5.00			26.00			
Lab Month.Max				13.00	5.00	4.00	< 2.00	< 2.00	3.00	2.00					13.00	

	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
Lab Month.Mean				< 5.00	< 2.75	< 2.50	< 2.00	< 2.00	< 2.50	< 2.00				< 2.69		
Lab Month.Min				< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00						< 2.00
												2025				
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																
Count	1.00	1.00	1.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	43.00			
Lab Count	1.00	1.00	1.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	43.00			
Lab Month.Max	134.00	136.00	135.00	196.00	298.00	269.00	310.00	217.00	337.00	218.00	270.00	265.00			337.00	
Lab Month.Mean	134.00	136.00	135.00	149.80	217.25	188.75	246.00	200.50	215.00	174.80	210.25	190.60		193.91		
Lab Month.Min	134.00	136.00	135.00	108.00	161.00	136.00	172.00	173.00	131.00	142.00	166.00	93.00				93.00
Flow - m^3/d																
Count	31.00	28.00	31.00	30.00	31.00	30.00	31.00	31.00	30.00	31.00	30.00	31.00	365.00			
OL Month.Max	706.60	549.80	1378.50	1424.30	397.20	425.40	373.10	384.30	440.80	446.40	403.37	1235.96			1424.30	
OL Month.Mean	355.91	371.28	633.12	466.93	355.93	346.82	331.39	325.33	352.71	373.46	343.28	455.12		392.60		
OL Month.Min	126.20	326.20	405.80	333.90	322.60	316.00	305.80	275.60	296.80	330.90	255.00	321.89				126.20
OL Month.Total	11033.30	10395.70	19626.70	14007.80	11033.80	10404.60	10273.00	10085.10	10581.20	11577.20	10298.48	14108.58	143425.46			
Septage Received - m^3																
IH Edited Count	0.00		1.00										1.00			
IH Month.Max			9.50												9.50	
IH Month.Mean			9.50											9.50		
IH Month.Min			9.50													9.50
Total Kjeldahl Nitrogen: TKN - mg/L																
Count	1.00	1.00	1.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	43.00			
Lab Count	1.00	1.00	1.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	43.00			
Lab Month.Max	44.00	33.70	19.10	29.70	44.00	42.00	55.00	35.60	31.30	29.40	31.90	33.20			55.00	
Lab Month.Mean	44.00	33.70	19.10	25.06	32.53	34.60	37.80	32.25	27.90	25.26	29.48	23.52		29.81		
Lab Month.Min	44.00	33.70	19.10	18.50	26.20	30.20	27.40	28.90	26.00	22.60	23.50	17.30				17.30
Total Phosphorus: TP - mg/L																
Lab Count	1.00	1.00	1.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	43.00			
Lab Month.Max	4.32	4.01	2.35	2.88	5.10	4.66	8.60	4.88	3.66	3.12	3.96	3.75			8.60	
Lab Month.Mean	4.32	4.01	2.35	2.36	3.54	3.74	4.62	4.00	2.98	2.68	3.25	2.82		3.33		
Lab Month.Min	4.32	4.01	2.35	1.78	2.04	2.32	2.61	3.22	1.25	2.32	2.53	1.78				1.25
Total Suspended Solids: TSS - mg/L																
Count	1.00	1.00	1.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	43.00			
Lab Count	1.00	1.00	1.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	43.00			
Lab Month.Max	175.00	160.00	166.00	238.00	605.00	156.00	406.00	172.00	247.00	232.00	250.00	158.00			605.00	
Lab Month.Mean	175.00	160.00	166.00	188.80	253.75	135.25	253.20	147.25	161.75	166.00	187.25	138.80		180.84		
Lab Month.Min	175.00	160.00	166.00	162.00	124.00	104.00	120.00	98.00	102.00	129.00	160.00	122.00				98.00

Appendix E

2026 Sample Schedule

QEMS Ontario Clean Water Agency	Sample Schedule 2026 Zurich Sewage Treatment Plant	Rev. Date: 2025-12-08 Rev.#: 0 Pages: 1 of 12
Reviewed by: QEMS Representative	Approved by: Operations Management	

◄ December	January 2026					February ►
Sun	**Mon**	**Tue**	**Wed**	**Thu**	**Fri**	**Sat**
				1 **STAT**	**2**	3
4	**5**	**6** □ **Raw**	**7**	**8**	**9**	10
11	**12**	**13** □ **Raw**	**14**	**15**	**16**	17
18	**19**	**20** □ **Raw**	**21**	**22**	**23**	24
25	**26**	**27** □ Raw	**28**	**29**	**30**	31

Legend	
Raw Sample:	Weekly Grab (BOD5, TSS, TP, TKN)
Final Effluent:	Weekly Composite (CBOD, TSS, TAN, TP, TKN, NO2, NO3, Unionized Ammonia) 3 samples over 8 hour period – 8am/11am/2 pm Weekly Grab (E.coli, pH, Temp)
Sludge:	Prior to hauling (TS, TP, TAN, NO3, Metals)
Imported Sewage:	Grab – Every Hauler Monthly (BOD5, TSS, TP, TKN) **Cannot accept 6 weeks prior to discharge ending (begins 3rd week of October)**

Notes: Initial on date when sample was taken. Add any additional sampling completed for the facility.

Revision History

Date	Revision #	Reason for Revision	Revision By
2025-12-08	0	Create 2026 Sampling Calendar	Katelyn Barrowcliffe

QEMS Ontario Clean Water Agency	Sample Schedule 2026 Zurich Sewage Treatment Plant	Rev. Date: 2025-12-08 Rev.#: 0 Pages: 2 of 12
Reviewed by: QEMS Representative	Approved by: Operations Management	

◄ January	February 2026					March ►
Sun	**Mon**	**Tue**	**Wed**	**Thu**	**Fri**	**Sat**
1	**2**	**3** □ **Raw**	**4**	**5**	**6**	7
8	**9**	**10** □ **Raw**	**11**	**12**	**13**	14
15	**16** **STAT**	**17** □ **Raw**	**18**	**19**	**20**	21
22	**23**	**24** □ Raw	**25**	**26**	**27**	28

Legend	
Raw Sample:	Weekly Grab (BOD5, TSS, TP, TKN)
Final Effluent:	Weekly Composite (CBOD, TSS, TAN, TP, TKN, NO2, NO3, Unionized Ammonia) 3 samples over 8 hour period – 8am/11am/2 pm Weekly Grab (E.coli, pH, Temp)
Sludge:	Prior to hauling (TS, TP, TAN, NO3, Metals)
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2025-12-08	0	Create 2026 Sampling Calendar	Katelyn Barrowcliffe

QEMS Ontario Clean Water Agency	Sample Schedule 2026 Zurich Sewage Treatment Plant	Rev. Date: 2025-12-08 Rev.#: 0 Pages: 3 of 12
Reviewed by: QEMS Representative	Approved by: Operations Management	

◄ February	March 2026					April ►
Sun	**Mon**	**Tue**	**Wed**	**Thu**	**Fri**	**Sat**
1	**2**	**3** □ **Raw**	**4**	**5**	**6**	7
8	**9**	**10** □ **Raw**	**11**	**12**	**13**	14
15	**16**	**17** □ **Raw**	**18**	**19**	**20**	21
22	**23**	**24** □ **Raw**	**25**	**26**	**27**	28
29	**30**	**31** □ Raw				

Legend	
Raw Sample:	Weekly Grab (BOD5, TSS, TP, TKN)
Final Effluent:	Weekly Composite (CBOD, TSS, TAN, TP, TKN, NO2, NO3, Unionized Ammonia) 3 samples over 8 hour period – 8am/11am/2 pm Weekly Grab (E.coli, pH, Temp)
Sludge:	Prior to hauling (TS, TP, TAN, NO3, Metals)
Imported Sewage:	Grab – Every Hauler Monthly (BOD5, TSS, TP, TKN) **Cannot accept 6 weeks prior to discharge ending (begins 3rd week of October)**

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Revision History

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2025-12-08	0	Create 2026 Sampling Calendar	Katelyn Barrowcliffe

QEMS Ontario Clean Water Agency	Sample Schedule 2026 Zurich Sewage Treatment Plant	Rev. Date: 2025-12-08 Rev.#: 0 Pages: 4 of 12
Reviewed by: QEMS Representative	Approved by: Operations Management	

◄ March	April 2026					May ►
Sun	**Mon**	**Tue**	**Wed**	**Thu**	**Fri**	**Sat**
			1	**2**	**3** **STAT**	4
5	**6** **STAT**	**7** □ Raw □ Final Effluent □ **In House Lab**	**8**	**9**	**10** □ **In House Lab**	11
12	**13**	**14** □ Raw □ Final Effluent □ **In House Lab**	**15**	**16**	**17** □ **In House Lab**	18
19	**20**	**21** □ Raw □ Final Effluent □ **In House Lab**	**22**	**23**	**24** □ **In House Lab**	25
26	**27**	**28** □ **Raw** □ Final Effluent □ In House Lab	**29**	**30**		

Legend	
Raw Sample:	Weekly Grab (BOD5, TSS, TP, TKN)
Final Effluent:	Weekly Composite (CBOD, TSS, TAN, TP, TKN, NO2, NO3, Unionized Ammonia) 3 samples over 8 hour period – 8am/11am/2 pm Weekly Grab (E.coli, pH, Temp)
Sludge:	Prior to hauling (TS, TP, TAN, NO3, Metals)
Imported Sewage:	Grab – Every Hauler Monthly (BOD5, TSS, TP, TKN) **Cannot accept 6 weeks prior to discharge ending (begins 3rd week of October)**

Notes: Initial on date when sample was taken. Add any additional sampling completed for the facility

Revision History

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2025-12-08	0	Create 2026 Sampling Calendar	Katelyn Barrowcliffe

QEMS Ontario Clean Water Agency	Sample Schedule 2026 Zurich Sewage Treatment Plant	Rev. Date: 2025-12-08 Rev.#: 0 Pages: 5 of 12
Reviewed by: QEMS Representative	Approved by: Operations Management	

◄ April	May 2026					June ►
Sun	**Mon**	**Tue**	**Wed**	**Thu**	**Fri**	**Sat**
					1 □ **In House Lab**	2
3	**4**	**5** □ Raw □ Final Effluent □ **In House Lab**	**6**	**7**	**8** □ **In House Lab**	9
10	**11**	**12** □ Raw □ Final Effluent □ **In House Lab**	**13**	**14**	**15** □ **In House Lab**	16
17	**18** **STAT**	**19** □ Raw □ Final Effluent □ **In House Lab**	**20**	**21**	**22** □ **In House Lab**	23
24 31	**25**	**26** □ **Raw** ☐ Final Effluent □ In House Lab	**27**	**28**	**29** □ In House Lab	30

Legend	
Raw Sample:	Weekly Grab (BOD5, TSS, TP, TKN)
Final Effluent:	Weekly Composite (CBOD, TSS, TAN, TP, TKN, NO2, NO3, Unionized Ammonia) 3 samples over 8 hour period – 8am/11am/2 pm Weekly Grab (E.coli, pH, Temp)
Sludge:	Prior to hauling (TS, TP, TAN, NO3, Metals)
Imported Sewage:	Grab – Every Hauler Monthly (BOD5, TSS, TP, TKN) **Cannot accept 6 weeks prior to discharge ending (begins 3rd week of October)**

Notes: Initial on date when sample was taken. Add any additional sampling completed for the facility

Revision History

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2025-12-08	0	Create 2026 Sampling Calendar	Katelyn Barrowcliffe

QEMS Ontario Clean Water Agency	Sample Schedule 2026 Zurich Sewage Treatment Plant	Rev. Date: 2025-12-08 Rev.#: 0 Pages: 6 of 12
Reviewed by: QEMS Representative	Approved by: Operations Management	

◄ May	June 2026					July ►
Sun	**Mon**	**Tue**	**Wed**	**Thu**	**Fri**	**Sat**
	1	**2** □ Raw □ Final Effluent □ **In House Lab**	**3**	**4**	**5** □ **In House Lab**	6
7	**8**	**9** □ Raw □ **Final Effluent** □ **In House Lab**	**10**	**11**	**12** □ **In House Lab**	13
14	**15**	**16** □ Raw □ Final Effluent □ **In House Lab**	**17**	**18**	**19** □ **In House Lab**	20
21	**22**	**23** □ Raw □ Final Effluent □ **In House Lab**	**24**	**25**	**26** □ **In House Lab**	27
28	**29**	**30** □ **Raw** □ **Final Effluent** □ In House Lab				

Legend	
Raw Sample:	Weekly Grab (BOD5, TSS, TP, TKN)
Final Effluent:	Weekly Composite (CBOD, TSS, TAN, TP, TKN, NO2, NO3, Unionized Ammonia) 3 samples over 8 hour period – 8am/11am/2 pm Weekly Grab (E.coli, pH, Temp)
Sludge:	Prior to hauling (TS, TP, TAN, NO3, Metals)
Imported Sewage:	Grab – Every Hauler Monthly (BOD5, TSS, TP, TKN) **Cannot accept 6 weeks prior to discharge ending (begins 3rd week of October)**

Notes: Initial on date when sample was taken. Add any additional sampling completed for the facility

Revision History

Date	Revision #	Reason for Revision	Revision By
2025-12-08	0	Create 2026 Sampling Calendar	Katelyn Barrowcliffe

◄ June	July 2026					August ►
Sun	**Mon**	**Tue**	**Wed**	**Thu**	**Fri**	**Sat**
			1 **STAT**	**2**	**3** □ **In House Lab**	4
5	**6**	**7** □ Raw □ Final Effluent □ **In House Lab**	**8**	**9**	**10** □ **In House Lab**	11
12	**13**	**14** □ Raw □ **Final Effluent** □ **In House Lab**	**15**	**16**	**17** □ **In House Lab**	18
19	**20**	**21** □ Raw □ Final Effluent □ **In House Lab**	**22**	**23**	**24** □ **In House Lab**	25
26	**27**	**28** □ **Raw** □ **Final Effluent** □ In House Lab	**29**	**30**	**31** □ In House Lab	

Legend	
Raw Sample:	Weekly Grab (BOD5, TSS, TP, TKN)
Final Effluent:	Weekly Composite (CBOD, TSS, TAN, TP, TKN, NO2, NO3, Unionized Ammonia) 3 samples over 8 hour period – 8am/11am/2 pm Weekly Grab (E.coli, pH, Temp)
Sludge:	Prior to hauling (TS, TP, TAN, NO3, Metals)
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Revision History

Date	Revision #	Reason for Revision	Revision By
2025-12-08	0	Create 2026 Sampling Calendar	Katelyn Barrowcliffe

QEMS Ontario Clean Water Agency	Sample Schedule 2026 Zurich Sewage Treatment Plant	Rev. Date: 2025-12-08 Rev.#: 0 Pages: 8 of 12
Reviewed by: QEMS Representative	Approved by: Operations Management	

◄ July	August 2026					September ►
Sun	**Mon**	**Tue**	**Wed**	**Thu**	**Fri**	**Sat**
						1
2	**3** **STAT**	**4** □ Raw □ Final Effluent □ **In House Lab**	**5**	**6**	**7** □ **In House Lab**	8
9	**10**	**11** □ Raw □ Final Effluent □ **In House Lab**	**12**	**13**	**14** □ **In House Lab**	15
16	**17**	**18** □ Raw □ Final Effluent □ **In House Lab**	**19**	**20**	**21** □ **In House Lab**	22
23	**24**	**25** □ Raw □ Final Effluent □ **In House Lab**	**26**	**27**	**28** □ **In House Lab**	29
30	**31**					

Legend	
Raw Sample:	Weekly Grab (BOD5, TSS, TP, TKN)
Final Effluent:	Weekly Composite (CBOD, TSS, TAN, TP, TKN, NO2, NO3, Unionized Ammonia) 3 samples over 8 hour period – 8am/11am/2 pm Weekly Grab (E.coli, pH, Temp)
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Revision History

Date	Revision #	Reason for Revision	Revision By
2025-12-08	0	Create 2026 Sampling Calendar	Katelyn Barrowcliffe

◄ August

September 2026

October ►

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1 □ Raw □ Final Effluent □ **In House Lab**	**2**	**3**	**4** □ **In House Lab**	5
6	**7** **STAT**	**8** □ Raw □ Final Effluent □ **In House Lab**	**9**	**10**	**11** □ **In House Lab**	12
13	**14**	**15** □ Raw □ Final Effluent □ **In House Lab**	**16**	**17**	**18** □ **In House Lab**	19
20	**21**	**22** □ Raw □ Final Effluent □ **In House Lab**	**23**	**24**	**25** □ **In House Lab**	26
27	**28**	**29** □ **Raw** □ **Final Effluent** □ In House Lab	**30** **STAT**	□		

Legend	
Raw Sample:	Weekly Grab (BOD5, TSS, TP, TKN)
Final Effluent:	Weekly Composite (CBOD, TSS, TAN, TP, TKN, NO2, NO3, Unionized Ammonia) 3 samples over 8 hour period – 8am/11am/2 pm Weekly Grab (E.coli, pH, Temp)
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2025-12-08	0	Create 2026 Sampling Calendar	Katelyn Barrowcliffe

QEMS Ontario Clean Water Agency	Sample Schedule 2026 Zurich Sewage Treatment Plant	Rev. Date: 2025-12-08 Rev.#: 0 Pages: 10 of 12
Reviewed by: QEMS Representative	Approved by: Operations Management	

◄ September	October 2026					November ►
Sun	**Mon**	**Tue**	**Wed**	**Thu**	**Fri**	**Sat**
				1	**2** □ **In House Lab**	3
4	**5**	**6** □ Raw □ Final Effluent □ **In House Lab**	**7**	**8**	**9** □ **In House Lab**	10
11	**12** **STAT**	**13** □ Raw □ Final Effluent □ **In House Lab**	**14**	**15**	**16** □ **In House Lab**	17
18	**19**	**20** □ Raw □ Final Effluent □ **In House Lab**	**21**	**22**	**23** □ **In House Lab**	24
25	**26**	**27** □ **Raw** □ **Final Effluent** □ In House Lab	**28**	**29**	**30** □ In House Lab	31

Legend	
Raw Sample:	Weekly Grab (BOD5, TSS, TP, TKN)
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2025-12-08	0	Create 2026 Sampling Calendar	Katelyn Barrowcliffe

QEMS Ontario Clean Water Agency	Sample Schedule 2026 Zurich Sewage Treatment Plant	Rev. Date: 2025-12-08 Rev.#: 0 Pages: 11 of 12
Reviewed by: QEMS Representative	Approved by: Operations Management	

◄ October	November 2026					December ►
Sun	**Mon**	**Tue**	**Wed**	**Thu**	**Fri**	**Sat**
1	**2**	**3** □ Raw	**4**	**5**	**6**	7
8	**9**	**10** □ Raw	**11** **STAT**	**12**	**13**	14
15	**16**	**17** □ Raw	**18**	**19**	**21**	21
22	**23**	**24** □ Raw	**25**	**26**	**27**	28
29	**30**					

Legend	
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2025-12-08	0	Create 2026 Sampling Calendar	Katelyn Barrowcliffe

QEMS Ontario Clean Water Agency	Sample Schedule 2026 Zurich Sewage Treatment Plant	Rev. Date: 2025-12-08 Rev.#: 0 Pages: 12 of 12
Reviewed by: QEMS Representative	Approved by: Operations Management	

◄ November	December 2026					January ►
Sun	**Mon**	**Tue**	**Wed**	**Thu**	**Fri**	**Sat**
		1 □ Raw	**2**	**3**	**4**	5
6	**7**	**8** □ Raw	**9**	**10**	**11**	12
13	**14**	**15** □ Raw	**16**	**17**	**18**	19
20	**21**	**22** □ Raw	**23**	**24**	**25** **STAT**	26
27	**28** **STAT**	**29** □ **Raw**	**30**	**31**		

Legend	
Raw Sample:	Weekly Grab (BOD5, TSS, TP, TKN)
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