

Bayfield Sewage Treatment Plant and Collection System Annual Performance Report



*Prepared For:
The Municipality of
Bluewater*

Operating Authority:



Reporting Period of January 1 – December 31, 2024

Issued: March 28, 2025

Table of Contents

| | |
|--|----|
| Overview | 3 |
| System Process Description | 3 |
| Raw Wastewater Collection | 3 |
| Sewage Lagoons | 3 |
| Intermittent Sand Filters (ISF) | 4 |
| System Facts: | 4 |
| Influent and Effluent Flow Monitoring | 4 |
| Influent Data | 7 |
| Imported Sewage | 10 |
| Effluent Monitoring..... | 10 |
| Comparison to Compliance Limits and Objectives | 12 |
| Effluent Quality Assurance..... | 16 |
| Deviations from Monitoring Schedule..... | 17 |
| Summary of Efforts Made to Achieve Design Objectives | 17 |
| Operating Problems and Corrective Actions..... | 18 |
| Maintenance Activities | 18 |
| Calibration Records..... | 19 |
| Sludge Generation | 19 |
| Complaints | 19 |
| Bypass, Overflows, Spills and Abnormal Discharge Events..... | 19 |
| Summary of Efforts made to achieve conformance with F-5-1..... | 19 |
| Notice of Modification to the Works | 20 |
| Additional Information the Water Supervisor Requires | 20 |
| Appendix A..... | 21 |
| Appendix B..... | 23 |
| Appendix C | 32 |
| Appendix D..... | 42 |

Overview

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

- Condition 11(4) (a) through (n) cited in Environmental Compliance Approval (ECA) #A-500-1518928419 issued March 6, 2024, to The Corporation of the Municipality of Bluewater.
- Schedule E(4) cited in the 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 Bayfield Sewage Treatment Plant (STP) is located at 37892 Mill Road, Bayfield, Ontario. The facility has a rated capacity of 1000 m³/d and is comprised of the following components:

- Wastewater collection system (WWC) and pumping stations
- Two facultative lagoons with supplementary treatment
- Intermittent Sand Filters

Raw Wastewater Collection

Raw sewage flows by gravity through the collection system. Where gravity flow is not possible due to elevation restrictions, there are four sewage pumping stations (SPS). Both the North and Marina SPS pump sewage through forcemains into gravity sewers that lead to the South SPS. Sewage from the South SPS is pumped to the Main SPS and then onto the Bayfield STP.

There are two designed overflows in the Bayfield WWC system. At the North SPS, a 250 mm overflow flows into the marina basin of the Bayfield River. The second is at the South SPS, which discharges to a stormwater manhole that discharges into to Lake Huron.

At the Marina SPS, when the wet well fills, it discharges into a holding tank through a 200mm pipe located below the harbour building. The wastewater then drains back into the pumping station once inflows have dropped to a manageable level as per pumping capacity.

The North, South and Main SPS have stand-by generators. The Main and South SPS are equipped with three submersible pumps and the North and Marina SPS with two submersible pumps. Miltronics monitor wet well levels, which control the start/stop cycle of all pumps and alarms. The exception is Marina SPS where pumps and alarms run off floats.

In addition to the community of Bayfield, the Bayfield STP also treats sewage from Wildwood Trailer Park. This park pumps its sewage directly to the Bayfield STP through a 100 mm forcemain.

Sewage Lagoons

Raw sewage is pumped to the lagoon from both the Main SPS and Wildwood Trailer Park. Raw sewage enters an inlet chamber between the two lagoon cells. Inflows may be directed into either or both cells. Leachate is received at the influent chamber for co-treatment at the works; leachate is imported from the Stanley Landfill site.

The two lagoon cells each had an original storage volume of approximately 110 554 m³. This volume has since been reduced by the construction of a berm in the footprint of cell 2 for a new Sequence Batch Reactor (SBR); cell 2 volume is now 97 310 m³. Storage in the cells allows inflow to be stored during the

winter when the Intermittent Sand Filter (ISF) cannot operate, as well as provides a minimum of 60 days retention time for treatment purposes. The lagoons operate in series with sewage flowing from one cell to the other through a transfer chamber and then by gravity to the filter pumping station inlet chamber. From here, effluent can be directed to the filter pumping station or to the discharge chamber.

A liquid aluminum sulfate feed system consists of one 27 000 L chemical storage tank and three metering pumps. Aluminum sulfate is injected into the raw sewage forcemain and into the transfer chamber between cell 1 and 2. Aluminum sulfate coagulates 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 (ISF)

The filter pumping station has two submersible pumps that can direct effluent to either or both of the filters. Once filtered through the sand, effluent flows by gravity into the discharge chamber where it is discharged to the Bayfield River.

System Facts:

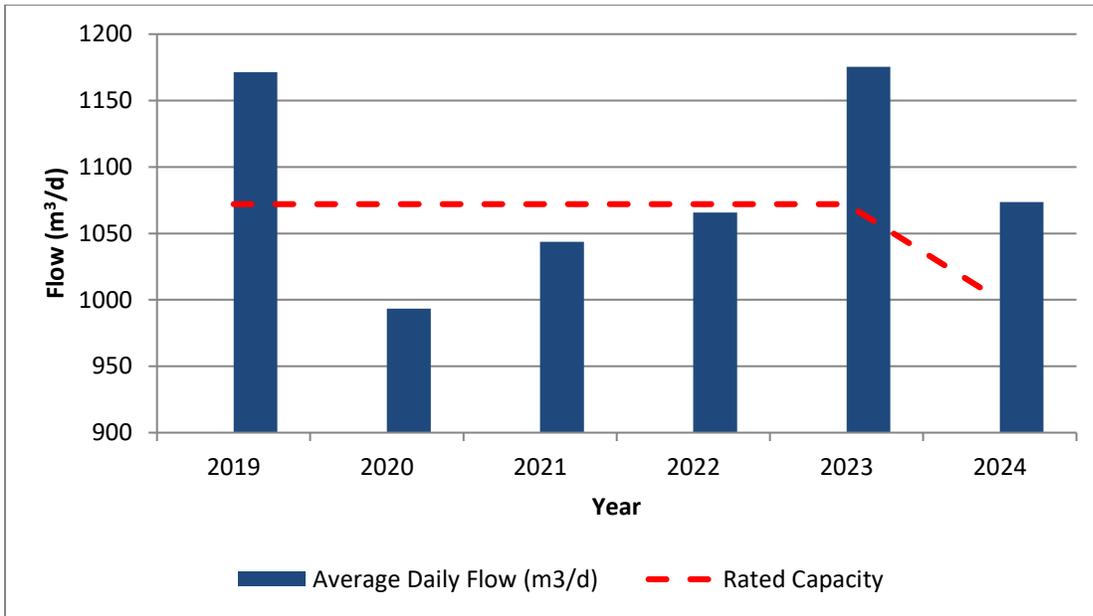
| | |
|--|--|
| Environmental Compliance Approval | #A-500-1518928419 (issued March 6, 2024) |
| CLI Environmental Compliance Approval | #045-W601 (issued June 20, 2023) |
| Rated Capacity | 1000 m ³ /d – with berm |
| Receiving Water | Bayfield River |

The Bayfield STP and WWC system were operated in accordance with the provincial regulations as required in ECA #A-500-1518928419 and CLI-ECA #045-W601.

Influent and Effluent Flow Monitoring

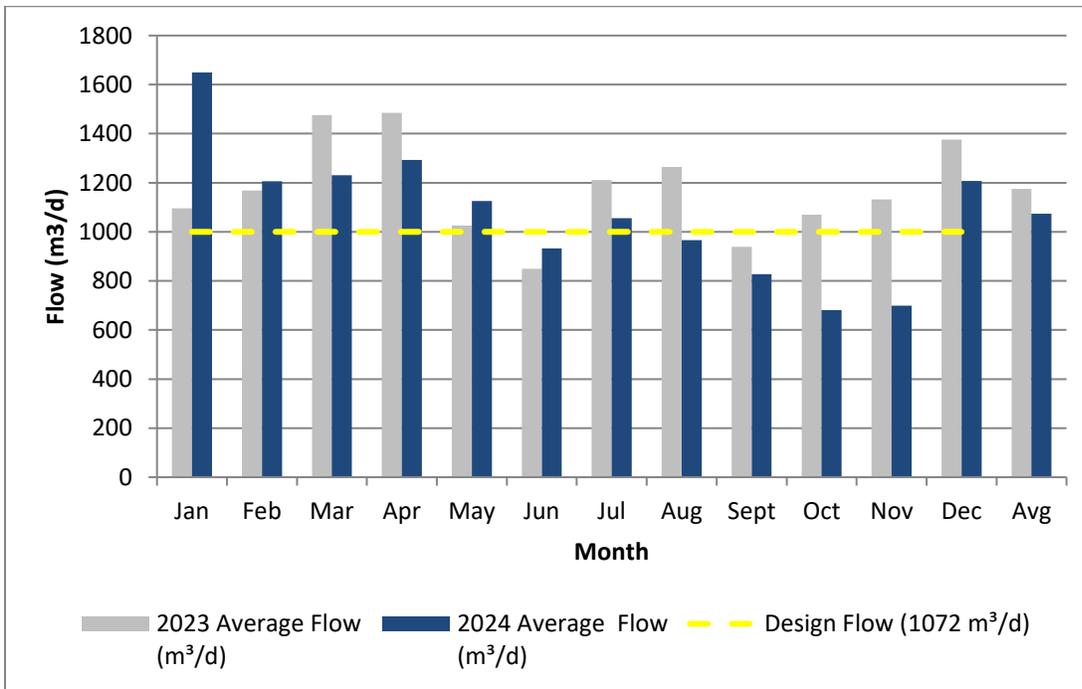
Prior to 2024, the Bayfield STP ECA was rated to treat an average daily flow of 1072 m³ of influent. However, in 2024, a new ECA was issued that specifies a rated capacity of 1000 m³/d for raw sewage, reflecting the reduction in lagoon capacity that occurred when a berm was built in 2022 for plant expansion. The Bayfield STP receives sewage from both the village of Bayfield and Wildwood Trailer Park. All flows in this report are a cumulative total of both flow sources. Refer to Figure 1 for a comparison of the average daily flow for the last six years against the rated capacity of the plant. The plant is currently at 107% of the rated capacity of 1000 m³/d.

Figure 1: Influent Flows 2019-2024



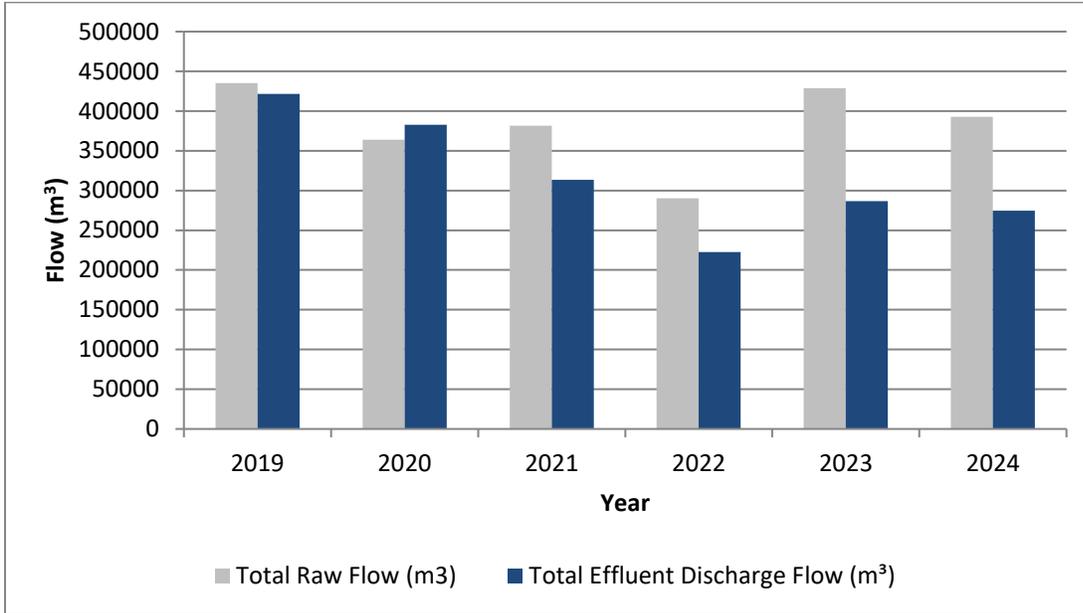
The raw sewage average daily flow was 1073 m³/d in 2024 and 1175 m³/d in 2023. This 9% reduction is attributed to drier weather. Refer to Figure 2 for 2023 and 2024 average daily flows by month and corresponding annual averages.

Figure 2: Average Daily Flows by Month



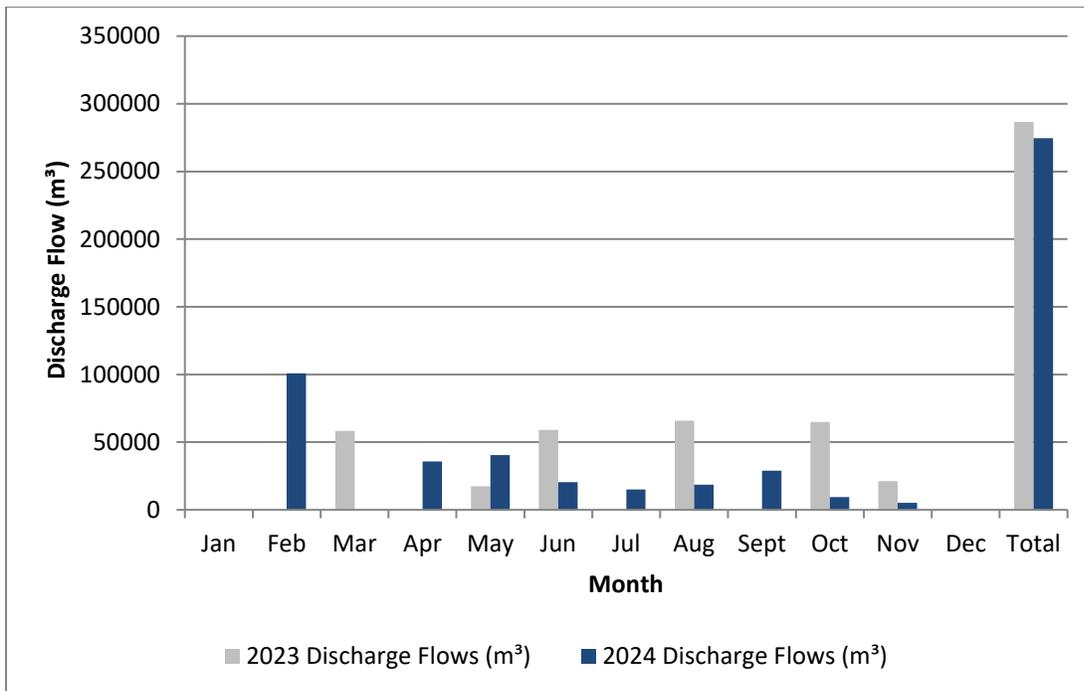
In 2024, the Bayfield STP discharged 274 643 m³ of effluent, a 4% decrease from 2023. This is consistent with lower raw flows seen in 2024. Refer to Figure 3 for the total raw and effluent flow in 2023 and 2024.

Figure 3: Total Raw and Effluent Flow 2019-2024



The average daily discharge flow was 1073 m³/d in 2024 versus 1459 m³/d in 2023. The maximum daily discharge flow in 2024 was 7143 m³ recorded in January. In 2024, the MECP granted an emergency discharge of the lagoon with a bypass of the intermittent sand filters. The emergency discharge occurred from January 31 to February 15. Regular discharge occurred from April 9 to August 9, followed by a period of rest/maintenance. Discharge resumed on September 9 and continued with brief periods of rest due to pooling on the filters until November 22, 2024. Refer to Figure 4 for final effluent total monthly flows for 2023 and 2024.

Figure 4: Final Effluent Total Monthly Flows

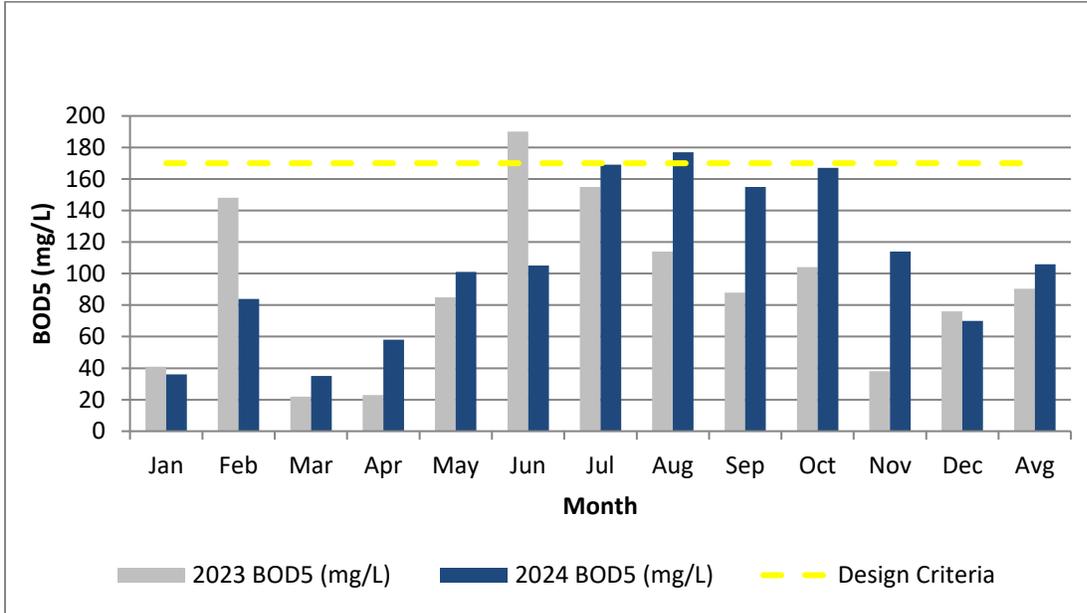


Influent Data

Influent is monitored for Biological Oxygen Demand (BOD₅), Total Suspended Solids (TSS), Total Phosphorous (TP), and Total Kjeldahl Nitrogen (TKN) on a weekly basis through a composite sample. These parameters are measured against the design criteria of the Bayfield STP. Values above design concentration can result in ineffective treatment of raw sewage and lead to effluent limit exceedances. In 2024, the parameters of BOD₅ and TKN had monthly values above design concentration. Despite this, effluent exceedances in 2024 were related to factors other than raw influent quality. See ‘Summary of Efforts Made to Achieve Design Objectives’ for details. As well, all raw influent parameters except TP were higher in concentration in 2024. This is likely due to lower annual raw flow.

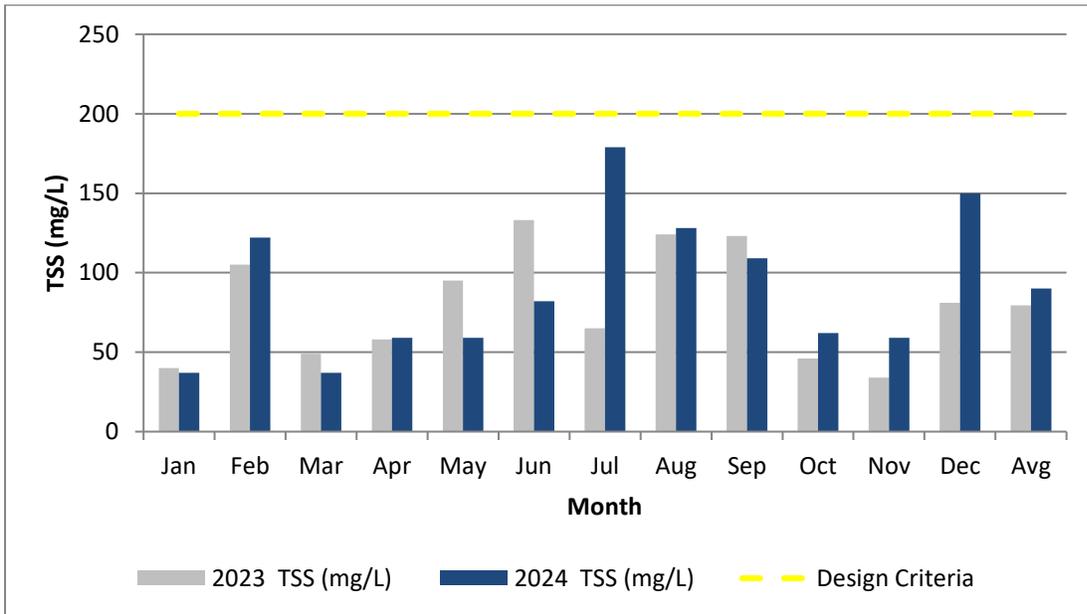
In 2024, the average raw BOD₅ concentration was 106 mg/L, a 17% increase from 2023. Refer to Figure 5 for a comparison of 2024 monthly raw BOD₅ concentrations to 2023 concentrations.

Figure 5: Raw BOD₅ Concentrations



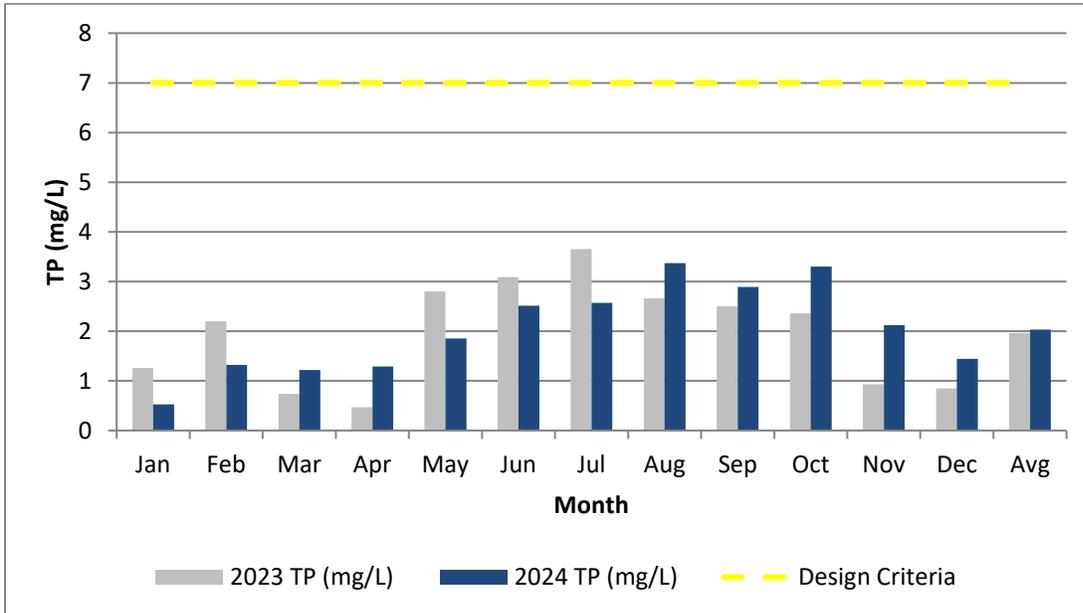
In 2024, the average raw TSS concentration was 90 mg/L, a 13% increase from 2023. Refer to Figure 6 for a comparison of 2024 monthly raw TSS concentrations to 2023 concentrations.

Figure 6: Raw TSS Concentrations



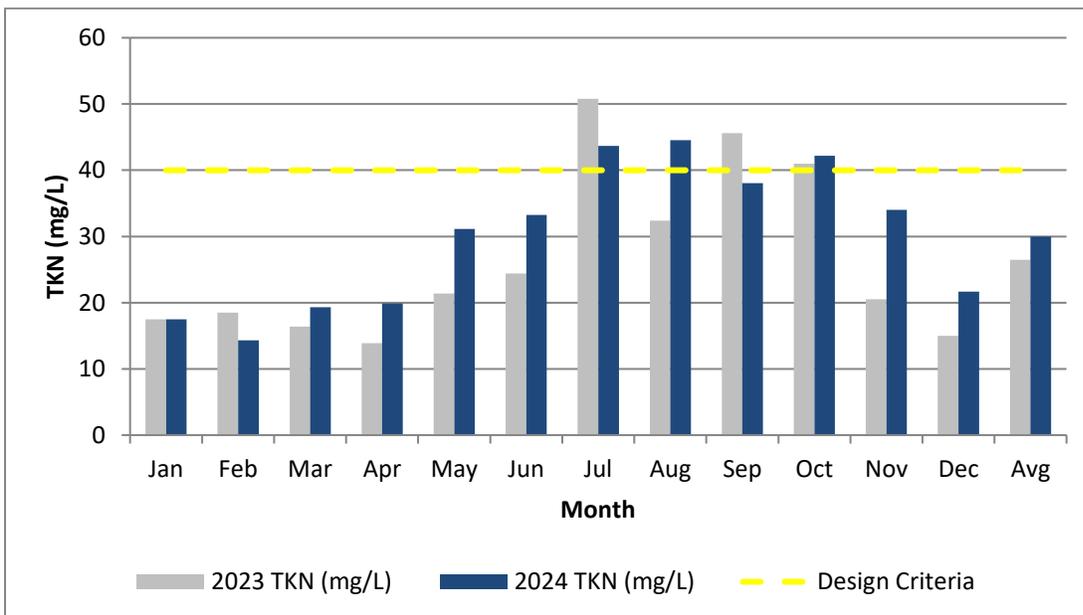
In 2024, the average raw TP concentration was 2 mg/L, essentially equal to the 2023 value. Refer to Figure 7 for a comparison of 2024 monthly raw TP concentrations to 2023 concentrations.

Figure 7: Raw TP Concentrations



In 2024, the average raw TKN concentration was 30 mg/L, a 13% increase from 2023. Refer to Figure 8 for a comparison of 2024 monthly raw TKN concentrations to 2023 concentrations.

Figure 8: Raw TKN Concentrations



Imported Sewage

The Bayfield STP is approved to accept leachate from the Stanley Landfill for co-treatment. The Stanley Landfill did not deposit any leachate at the Bayfield STP in 2024 and therefore no quarterly composite sampling was conducted.

Effluent Monitoring

The lagoon effluent is permitted to be discharged between April 1 to November 30 in accordance with the ECA. Early discharge may be required to prevent a spill of wastewater over the banks due to capacity issues. This was the situation in 2024 and the MECP authorized a request for early discharge (including bypassing the ISF) on January 30. Discharge began on January 31 and ended February 15, 2024. Effluent samples obtained during this time were required to meet guidelines and objectives set by the MECP and Procedure F-5-1. These included less than 60 mg/L for a single sample and 50 mg/L for a running average of four consecutive samples for Carbonaceous Biological Oxygen Demand (CBOD₅) and less than 80 mg/L for a single sample and 60 mg/L for a running average of four consecutive samples for Total Suspended Solids (TSS). All guidelines and objectives were met. Refer to Table 1 for early discharge sample results.

Table 1: Early Discharge Effluent Sample Results

| Bayfield STP Effluent | | | | |
|-----------------------|--|-----------------------------|--|---------------|
| Date | Twice F-5-1 Guideline CBOD ₅ (mg/L) | CBOD ₅ (mg/L) | Twice F-5-1 Guideline TSS (mg/L) | TSS (mg/L) |
| 02/01/24 | 60 | 4 | 80 | 6 |
| 02/02/24 | 60 | 3 | 80 | 4 |
| 02/05/24 | 60 | 2 | 80 | 6 |
| 02/07/24 | 60 | 4 | 80 | 11 |
| 02/12/24 | 60 | 5 | 80 | 5 |
| 02/14/24 | 60 | 4 | 80 | 5 |

Four sets of upstream/downstream Bayfield River samples were also obtained during the early discharge. These samples measured the following parameters: CBOD₅, TSS, Total Phosphorus (TP), Total Ammonia Nitrogen (TAN), E. coli, pH, and Temperature. During discharge, there were no observations of adverse impacts on the Bayfield River. Sample results are in Table 2 below.

Table 2: Bayfield River Samples Early Discharge 2024

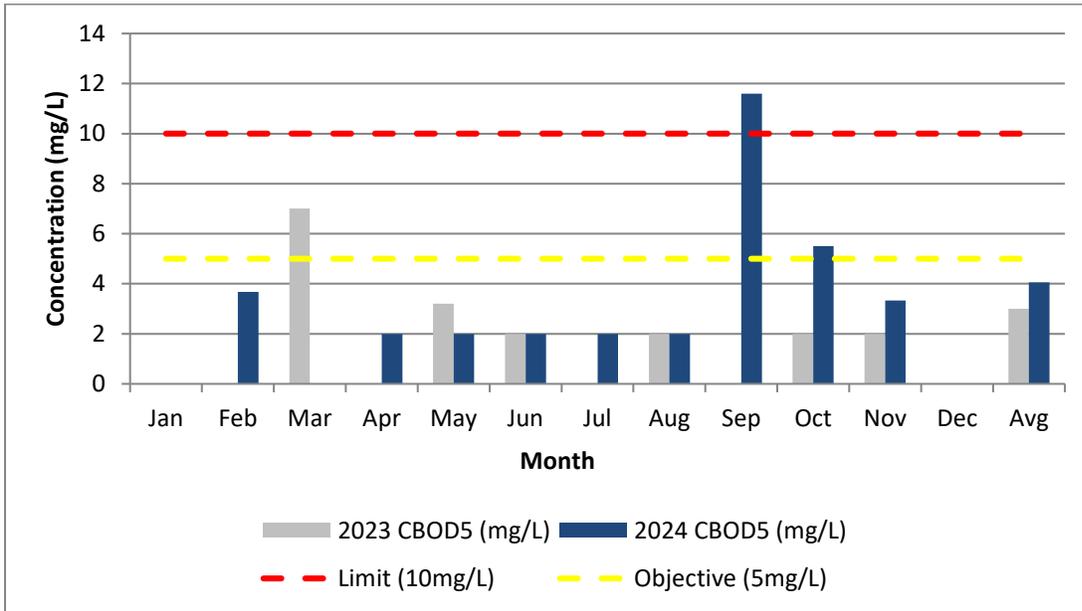
| Bayfield River Samples | | | | | | | |
|-----------------------------|-----------------------------|---------------|--------------|---------------|-------------------------|------|--------------|
| Upstream (Parr Line Bridge) | | | | | | | |
| Date | CBOD ₅ (mg/L) | TSS (mg/L) | TP (mg/L) | TAN (mg/L) | E. coli (cfu/100 mL) | pH | Temp (°C) |
| 02/01/24 | < 4 | 6 | 0.07 | < 0.01 | 320 | 7.27 | 6.5 |
| 02/05/24 | < 4 | 6 | < 0.03 | < 0.01 | 30 | 7.72 | 4.9 |
| 02/07/24 | < 2 | 7 | < 0.03 | < 0.01 | < 10 | 7.60 | 8.4 |
| 02/12/24 | < 4 | 3 | < 0.03 | < 0.01 | 10 | 6.10 | 12.8 |
| Downstream (Wildwood Line) | | | | | | | |
| Date | CBOD ₅ (mg/L) | TSS (mg/L) | TP (mg/L) | TAN (mg/L) | E. coli (cfu/100 mL) | pH | Temp (°C) |
| 02/01/24 | < 4 | 5 | < 0.03 | < 0.01 | 1800 | 7.28 | 7.6 |
| 02/05/24 | < 4 | 4 | 0.05 | < 0.01 | 10 | 7.69 | 5.5 |
| 02/07/24 | < 2 | 5 | < 0.03 | < 0.01 | 20 | 7.68 | 7.3 |
| 02/12/24 | < 4 | 3 | < 0.03 | < 0.01 | 30 | 7.60 | 13.32 |

During the regular discharge season, effluent from the Bayfield STP is sampled weekly through a composite sample and analyzed for CBOD₅, TSS, TP, TAN, Total Kjeldahl Nitrogen (TKN), Nitrate (NO₃), Nitrite (NO₂), and Unionized Ammonia. Grab samples are collected weekly and tested for E.coli, pH, Dissolved Oxygen (DO) and Temperature. For details on objective and limit exceedances, refer to 'Summary of Efforts Made to Achieve Design Objectives'. Note that the February values in the figures below meet the criteria outlined in Procedure F-5-1 as documented above; the regular ECA objectives and limits do not apply to effluent parameters in February.

Comparison to Compliance Limits and Objectives

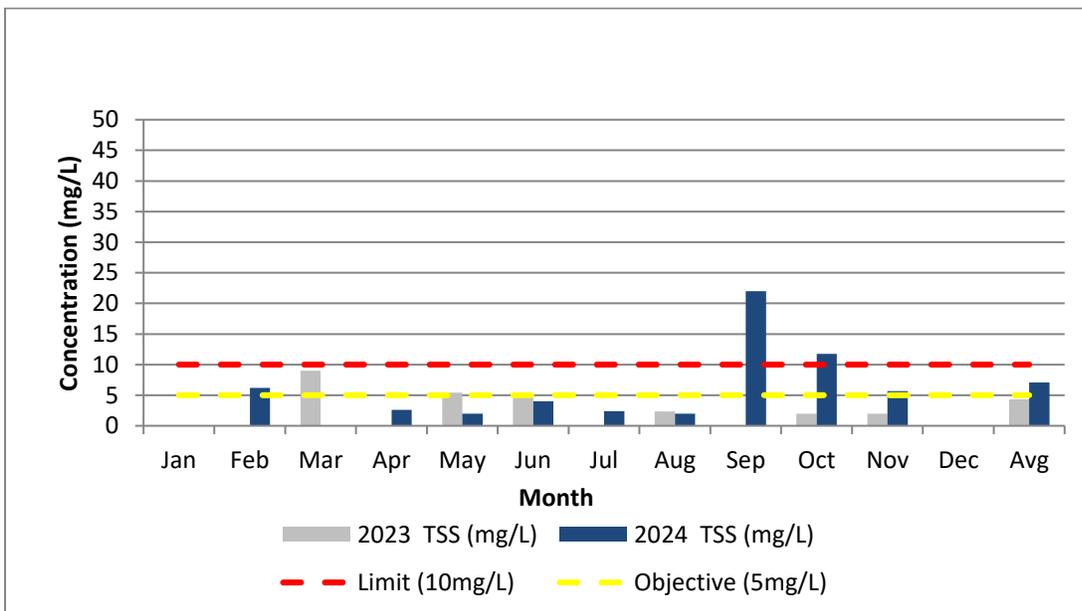
In 2024, the average monthly effluent CBOD₅ concentration was 4.1 mg/L, a 35% increase from 2023. The limit was exceeded in September and the objective exceeded in September and October. Refer to Figure 9 for a comparison of 2024 monthly effluent CBOD₅ concentrations to 2023 concentrations.

Figure 9: Effluent CBOD₅ Concentrations



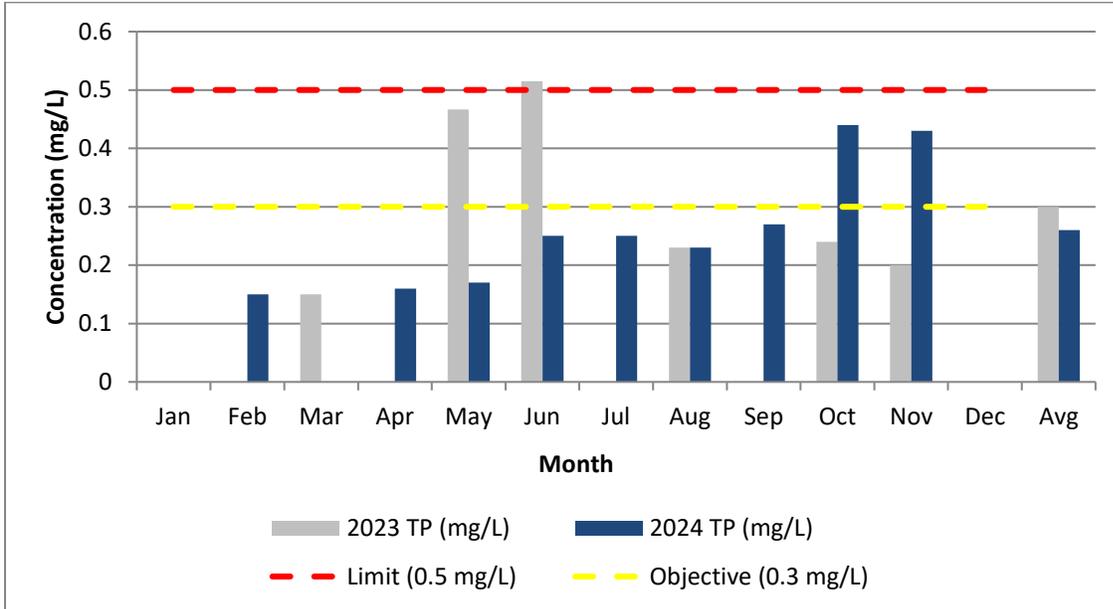
In 2024, the average monthly effluent TSS concentration was 7.1 mg/L, a 65% increase from 2023. The limit was exceeded in September and October and the objective exceeded September to November. Refer to Figure 10 for a comparison of 2024 monthly effluent TSS concentrations to 2023 concentrations.

Figure 10: Effluent TSS Concentrations



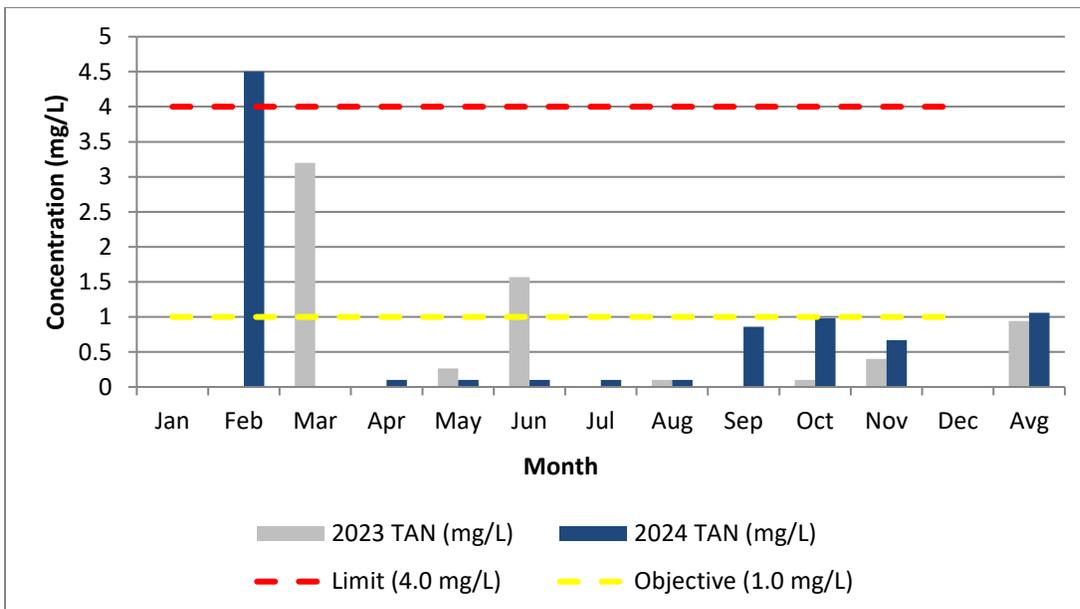
In 2024, the average monthly effluent TP concentration was 0.3 mg/L, a 13% decrease from 2023. There were no limit exceedances in 2024, however the objective was not met in October or November. Refer to Figure 11 for a comparison of 2024 monthly effluent TP concentrations to 2023 concentrations.

Figure 11: Effluent TP Concentrations



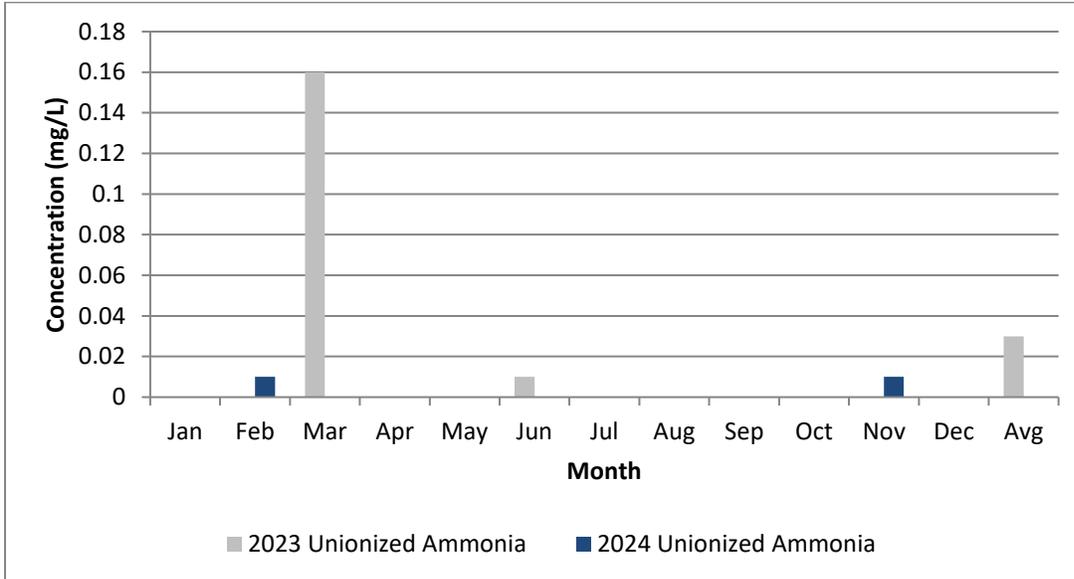
In 2024, the average monthly effluent TAN concentration was 1.1 mg/L, a 13% increase from 2023. The limit and objective was met throughout 2024. Refer to Figure 12 for a comparison of 2024 monthly effluent TAN concentrations to 2023 concentrations.

Figure 12: Effluent TAN Concentrations



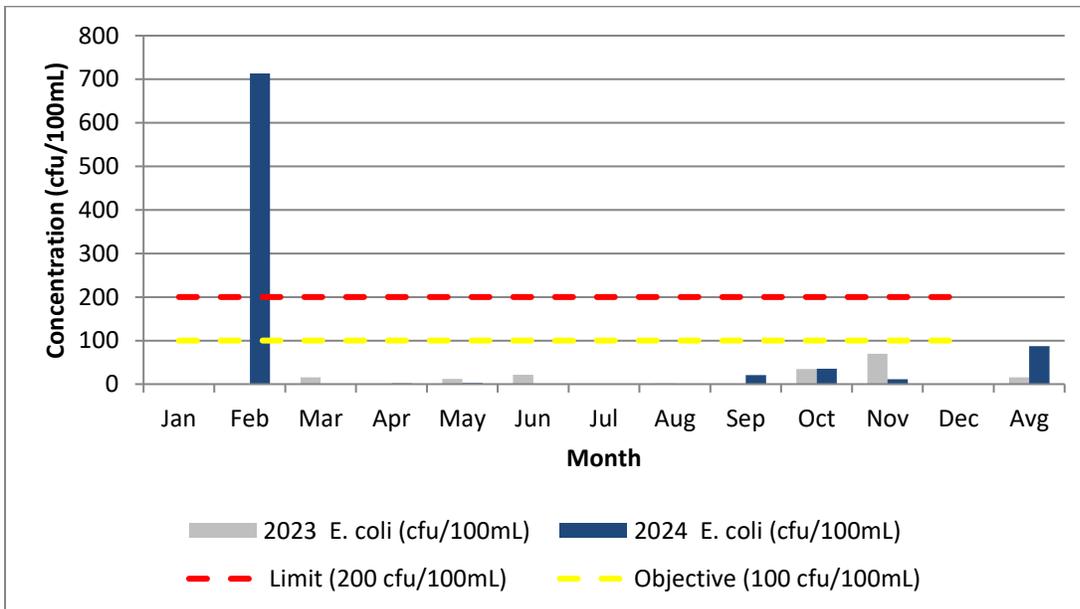
In 2024, the average monthly effluent Unionized Ammonia concentration was 0 mg/L compared to 0.03 mg/L in 2023. There are no ECA objectives or limits for this parameter. Refer to Figure 13 for a comparison of 2024 monthly effluent Unionized Ammonia concentrations to 2023 concentrations.

Figure 13: Effluent Unionized Ammonia Concentrations



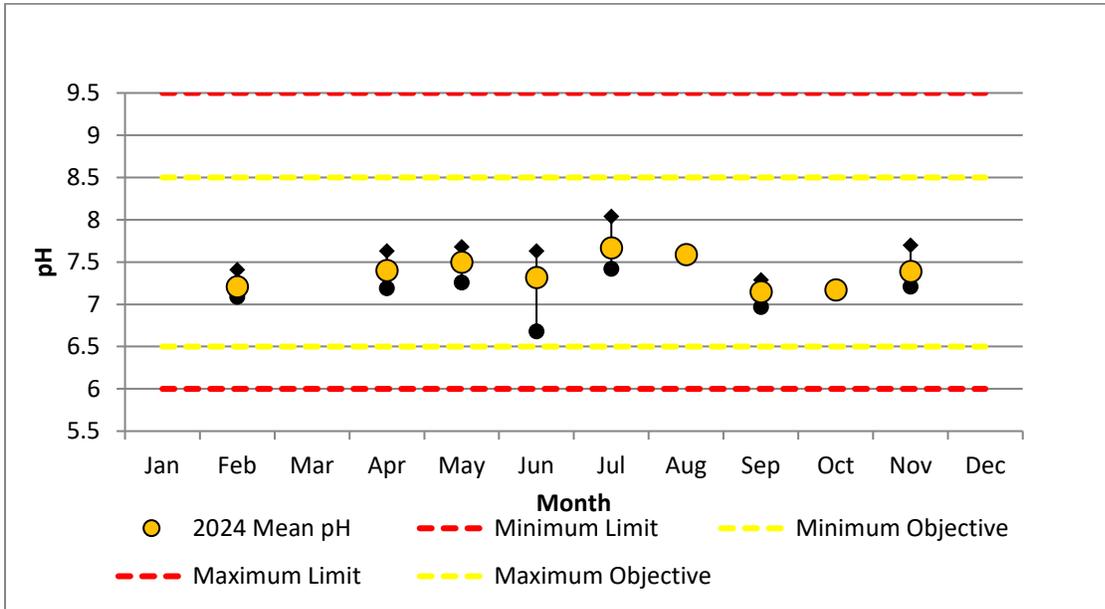
In 2024, the average monthly effluent E. coli concentration (geomean) was 88 cfu/100mL, a 455% increase from 2023. This increase is the result of the emergency discharge results in February. There was no limit for E. coli for the emergency discharge. The ECA limit and objective for the regular discharge season was met. Refer to Figure 14 for a comparison of 2024 annual effluent E. coli concentrations to 2023 concentrations.

Figure 14: Effluent E. coli Concentrations



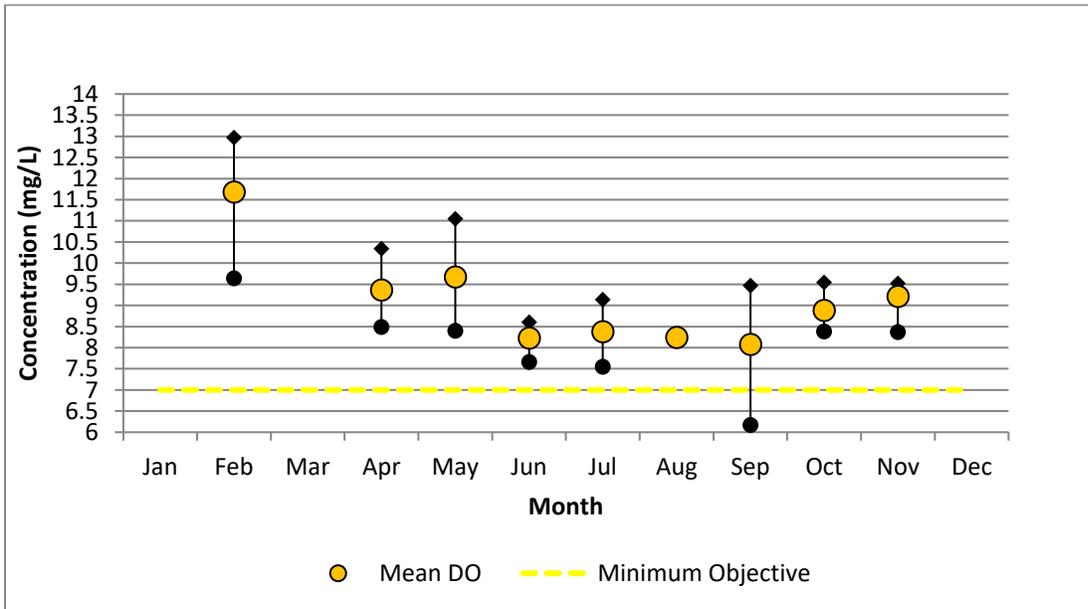
In 2024, effluent pH ranged from 6.7 to 8.0. Limits and objectives were met in 2024. Refer to Figure 15 for a comparison of 2024 monthly effluent pH values to the objectives and limits.

Figure 15: Effluent pH Values



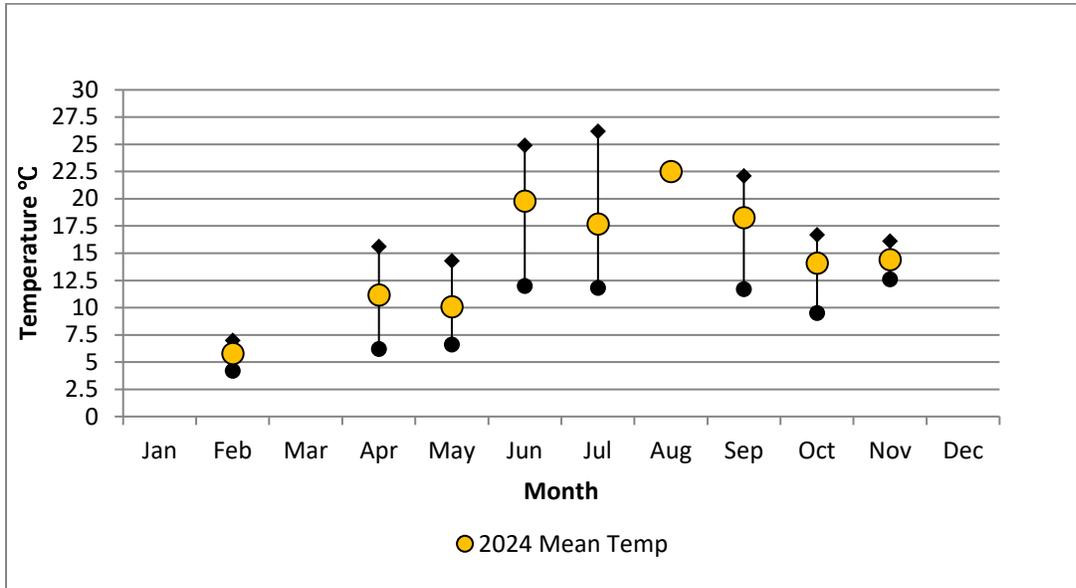
In 2024, effluent DO at the Bayfield STP ranged from 6.2 to 13.0 mg/L. September's value did not meet the minimum objective. There is no DO limit. Refer to Figure 16 for a comparison of 2024 monthly effluent DO values to the minimum objective.

Figure 16: Effluent DO Concentrations



In 2024, effluent Temperature at the Bayfield STP ranged from 4.2 °C to 26.2 °C. There are no objectives or limits for Temperature. Refer to Figure 17 for monthly effluent Temperature values in 2024.

Figure 17: Effluent Temperatures



Average waste loadings were calculated for CBOD₅, TSS, and TP. No loading limits were exceeded. Refer to Table 3 below for details.

Table 3: Average Waste Loadings in 2024

| Effluent Parameter | Average Waste Loading Limit (kg/d) | 2024 Loading (kg/d) |
|------------------------|------------------------------------|---------------------|
| CBOD ₅ | 15.1 | 5.15 |
| Total Suspended Solids | 15.1 | 9.0 |
| Total Phosphorus | 0.76 | 0.33 |

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.

Deviations from Monitoring Schedule

Deviations from the 2024 sample calendar are outlined in Table 4. Many of these deviations were from two composite samplers malfunctioning and using the “Manual 3” composite sampling method as specified in the ‘Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater’. The samplers have since been replaced. Refer to Appendix D for the 2025 sampling schedule.

Table 4: Summary of Deviations from Monitoring Schedule

| Scheduled Date | Collected Date | Reason for Deviation |
|----------------|---------------------|---|
| April 8 | April 11 | Composite Sampler Malfunction |
| May 7 | May 8 | Operator Schedule |
| June 17 | June 20 | Composite Sampler Malfunction |
| June 24 | June 25 | New Sampler Incorrectly Set (Raw) |
| June 24 | June 26 | Operator Schedule (Final Effluent) |
| July 8 | July 9 | Operator Schedule |
| September 23 | September 25 and 26 | Discharge off on September 20, turned back on September 23. Multiple samples obtained to determine process control changes. |
| October 15 | October 16 | Filter Bed Maintenance |
| October 21 | October 22 | Composite Sampler Broken – Using Manual 3 Composite Method |
| October 28 | October 29 | Composite Sampler Broken – Using Manual 3 Composite Method |
| November 4 | November 5 | Composite Sampler Broken – Using Manual 3 Composite Method |
| December 2 | December 3 | Snow Storm/Lagoon Access |

Summary of Efforts Made to Achieve Design Objectives

Design objectives were not exceeded more than 50% of the time in 2024. The average influent flow exceeded 80% of the rated capacity; however, effluent exceedances were unrelated to this. All limit and objective exceedances occurred between September and November in 2024. The three limit exceedances (CBOD₅ in September and TSS in September and October) were reported as non-compliances to the MECP. All limit and objective exceedances were related to issues with hydraulic overloading and pooling on the intermittent sand filters, algae build up, and cooler temperatures. In November, objective exceedances for TSS and TP were also related to the deterioration in quality of effluent at the end of the discharge season. Repairs were made on the intermittent sand filters that resulted in increased drainage and improved TSS results later in the month of October and November. It is anticipated that these repairs will produce better results in 2025. Refer to Table 5 for a summary of objective and limit exceedances in 2024.

Table 5: Summary of Objective and Limit Exceedances

| Month | Parameter | Concentration (mg/L) | Objective (mg/L) | Limit (mg/L) |
|-----------|-------------------|----------------------|------------------|--------------|
| September | CBOD ₅ | 11.6 | 5.0 | 10.0 |
| October | CBOD ₅ | 5.5 | 5.0 | 10.0 |
| September | TSS | 22.0 | 5.0 | 10.0 |
| October | TSS | 11.8 | 5.0 | 10.0 |
| November | TSS | 5.7 | 5.0 | 10.0 |
| October | TP | 0.44 | 0.3 | 0.5 |
| November | TP | 0.43 | 0.3 | 0.5 |
| September | DO | 6.2 | >7.0 | - |

Operating Problems and Corrective Actions

A major challenge in 2024 for the Bayfield STP was being over capacity. The plant is currently operating at 107% of its rated capacity and required another emergency discharge in the winter to prevent a spill over the lagoon berms. Construction of a new Sequencing Batch Reactor at the site of the Bayfield STP is planned for early 2025.

Capital and major maintenance recommendations were submitted by OCWA to the Municipality of Bluewater to address aging infrastructure and ongoing maintenance requirements for the collection system and STP to continue to produce high quality effluent. Items on the list for 2025 include:

- Pump rebuilds – All SPS
- Roof replacement – North SPS and Bayfield STP
- Pipe replacement for odour control – North SPS
- Pump replacements – Main SPS
- Housing repair on charcoal filter – Main SPS
- Pipe and overflow pipe replacement – Main SPS
- Actuator valve rebuild/replacement – Bayfield STP
- Forcemain air valve replacement – WWC system
- Auto sampler – Bayfield STP
- High velocity flushing/camera inspection – WWC system
- Excavation of sewer laterals – WWC system

Maintenance Activities

Preventative and corrective maintenance is assigned and monitored within the Workplace Management System (WMS) program. Refer to Appendix B for the 2024 maintenance summary. Refer to Table 6 for a list of repairs and replacements that took place in 2024.

Table 6: Major Maintenance in 2024

| Major Maintenance Wastewater |
|--------------------------------------|
| Alum pump repairs – Bayfield STP |
| Sand replacement – Filter Bed 1, ISF |
| Pipe repairs - ISF |
| Float repair – Bayfield STP Pumps |
| Auto sampler repair – Bayfield STP |
| Pump repair – North SPS |

Calibration Records

Pierce Services and Solutions Inc. calibrated influent and effluent flow meters, level sensors and level transmitters on March 18 and 20, 2024. 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 C for 2024 Calibration Records.

Sludge Generation

In 2024, the Bayfield STP generated 163 m³ of sludge. It is estimated that approximately 163 m³ of sludge will be generated in 2025. No sludge was hauled in 2024.

Table 7: Sludge Volumes over a Five-Year Interval

| Bayfield STP | 2020 Sludge Volume (m ³) | 2021 Sludge Volume (m ³) | 2022 Sludge Volume (m ³) | 2023 Sludge Volume (m ³) | 2024 Sludge Volume (m ³) |
|----------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| Total (Cell 1 and 2) | 22520 | 22680 | 22841 | 23003 | 23166 |

Complaints

There were no complaints for the Bayfield STP or WWC system in 2024.

Bypass, Overflows, Spills and Abnormal Discharge Events

The ECA requires additional daily sampling when a bypass, overflow or spill event occurs. In 2024, there were no bypasses, overflows, or spills in the Bayfield STP or WWC systems.

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

The Municipality of Bluewater has a separated collection system, therefore a Pollution Prevention Control Program is not required to be established or maintained.

There are two designed overflows within the collection system for the protection against basement flooding, damage to equipment/property and prevention of treatment process wash out. No overflows or bypasses occurred in 2024. In 2025, pump rebuilds or replacements in sewage pumping stations and flushing/camera inspections of a portion of the collection system has been recommended. These recommendations assist in reducing or eliminating future overflows, bypasses and spills.

Notice of Modification to the Works

There were no 'Notice of Modification to Sewage Works' forms completed in 2024.

No alterations to the collection system posed any significant threat to the drinking water systems in 2024.

Additional Information the Water Supervisor Requires

No additional information requests were required in 2024.

Appendix A

Monitoring Data

6655 BAYFIELD WASTEWATER TREATMENT LAGOON 120002754

| | 1 / 2024 | 2 / 2024 | 3 / 2024 | 4 / 2024 | 5 / 2024 | 6 / 2024 | 7 / 2024 | 8 / 2024 | 9 / 2024 | 10 / 2024 | 11 / 2024 | 12 / 2024 | <-Total--> | <-Avg--> | <-Max--> | <-Criteria--> |
|---|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|----------|----------|---------------|
| Flows | | | | | | | | | | | | | | | | |
| Raw Flow: Total - Raw Sewage m ³ /d | 51,149.66 | 34,988.36 | 38,152.13 | 38,773.57 | 34,907.71 | 27,960.07 | 32,719.47 | 29,951.32 | 24,829.61 | 21,094.68 | 20,983.41 | 37,432.87 | 392,942.86 | | | 0.00 |
| Raw Flow: Avg - Raw Sewage m ³ /d | 1,649.99 | 1,206.50 | 1,230.71 | 1,292.45 | 1,126.06 | 932.00 | 1,055.47 | 966.17 | 827.65 | 680.47 | 699.45 | 1,207.51 | | 1,073.61 | | 1,072.00 |
| Raw Flow: Max - Raw Sewage m ³ /d | 3,430.61 | 1,783.43 | 2,120.56 | 1,892.64 | 1,397.26 | 1,199.48 | 1,652.76 | 1,180.60 | 1,209.88 | 865.83 | 1,285.16 | 2,433.24 | | | 3,430.61 | 0.00 |
| Raw Flow: Count - Raw Sewage m ³ /d | 31.00 | 29.00 | 31.00 | 30.00 | 31.00 | 30.00 | 31.00 | 31.00 | 30.00 | 31.00 | 30.00 | 31.00 | 366.00 | | | 0.00 |
| Eff. Flow: Total - Final Effluent m ³ /d | 0.00 | 100,776.58 | 0.00 | 35,806.63 | 40,518.12 | 20,380.69 | 14,983.08 | 18,635.07 | 28,934.63 | 9,473.53 | 5,134.51 | 0.00 | 274,642.84 | | | 0.00 |
| Eff. Flow: Avg - Final Effluent m ³ /d | 0.00 | 6,718.44 | 0.00 | 1,627.57 | 1,307.04 | 815.23 | 483.33 | 2,070.56 | 964.49 | 305.60 | 223.24 | 0.00 | | 1,271.49 | | 0.00 |
| Eff. Flow: Max - Final Effluent m ³ /d | 0.00 | 7,142.96 | 0.00 | 1,824.45 | 1,902.17 | 2,084.58 | 847.14 | 4,287.39 | 4,751.72 | 3,036.34 | 1,745.28 | 0.00 | | | 7,142.96 | 0.00 |
| Eff Flow: Count - Final Effluent m ³ /d | 0.00 | 15.00 | 0.00 | 22.00 | 31.00 | 25.00 | 31.00 | 9.00 | 30.00 | 31.00 | 22.00 | 0.00 | 216.00 | | | 0.00 |
| Carbonaceous Biochemical Oxygen Demand: CBOD | | | | | | | | | | | | | | | | |
| Eff: Avg cBOD5 - Final Effluent mg/L | 0.00 | 3.67 | 0.00 | < 2.00 | < 2.00 | < 2.00 | < 2.00 | 2.00 | 11.60 | 5.50 | < 3.33 | 0.00 | | 4.05 | 11.60 | 10.00 |
| Eff: # of samples of cBOD5 - Final Effluent | 0.00 | 6.00 | 0.00 | 5.00 | 4.00 | 4.00 | 5.00 | 1.00 | 5.00 | 4.00 | 0.00 | 0.00 | 37.00 | | | 0.00 |
| Loading: cBOD5 - Final Effluent kg/d | 0.000 | 24.634 | 0.000 | < 3.255 | < 2.614 | < 1.630 | < 0.967 | 4.141 | 11.188 | 1.681 | < 0.778 | 0.000 | | 5.15 | 24.63 | 15.100 |
| Biochemical Oxygen Demand: BOD5 | | | | | | | | | | | | | | | | |
| Raw: Avg BOD5 - Raw Sewage mg/L | 36.00 | 84.00 | 35.00 | 57.80 | 101.00 | 105.00 | 169.20 | 176.75 | 154.80 | 166.50 | 114.00 | < 70.40 | | 105.87 | 176.75 | 0.00 |
| Raw: # of samples of BOD5 - Raw Sewage | 1.00 | 1.00 | 1.00 | 5.00 | 4.00 | 4.00 | 5.00 | 4.00 | 5.00 | 4.00 | 4.00 | 5.00 | 43.00 | | | 0.00 |
| Total Suspended Solids: TSS | | | | | | | | | | | | | | | | |
| Raw: Avg TSS - Raw Sewage mg/L | 37.00 | 122.00 | 37.00 | 59.40 | 59.25 | 81.50 | 179.20 | 127.75 | 109.00 | 61.75 | 59.25 | 150.20 | | 90.28 | 179.20 | 0.00 |
| Raw: # of samples of TSS - Raw Sewage | 1.00 | 1.00 | 1.00 | 5.00 | 4.00 | 4.00 | 5.00 | 4.00 | 5.00 | 4.00 | 4.00 | 5.00 | 43.00 | | | 0.00 |
| Eff: Avg TSS - Final Effluent mg/L | 0.00 | 6.17 | 0.00 | < 2.60 | < 2.00 | < 4.00 | < 2.40 | 2.00 | 22.00 | 11.75 | 5.67 | 0.00 | | 7.08 | 22.00 | 10.00 |
| Eff: # of samples of TSS - Final Effluent | 0.00 | 6.00 | 0.00 | 5.00 | 4.00 | 4.00 | 5.00 | 1.00 | 5.00 | 4.00 | 3.00 | 0.00 | 37.00 | | | 0.00 |
| Loading: TSS - Final Effluent kg/d | 0.000 | 41.430 | 0.000 | < 4.232 | < 2.614 | < 3.261 | < 1.160 | 4.141 | 21.219 | 3.591 | 1.323 | 0.000 | | 9.00 | 41.43 | 15.100 |
| Percent Removal: TSS - Raw Sewage % | 0.00 | 94.95 | 0.00 | 95.62 | 96.62 | 95.09 | 98.66 | 98.43 | 79.82 | 80.97 | 90.44 | 0.00 | | 92.29 | 98.66 | 0.00 |
| Total Phosphorus: TP | | | | | | | | | | | | | | | | |
| Raw: Avg TP - Raw Sewage mg/L | 0.53 | 1.32 | 1.22 | 1.29 | 1.85 | 2.51 | 2.57 | 3.37 | 2.89 | 3.30 | 2.12 | 1.44 | | 2.03 | 3.37 | 0.00 |
| Raw: # of samples of TP - Raw Sewage | 1.00 | 1.00 | 1.00 | 5.00 | 4.00 | 4.00 | 5.00 | 4.00 | 5.00 | 4.00 | 4.00 | 5.00 | 43.00 | | | 0.00 |
| Eff: Avg TP - Final Effluent mg/L | 0.00 | 0.15 | 0.00 | 0.16 | 0.17 | 0.25 | 0.25 | 0.23 | 0.37 | 0.44 | 0.43 | 0.00 | | 0.26 | 0.44 | 0.50 |
| Eff: # of samples of TP - Final Effluent | 0.00 | 6.00 | 0.00 | 5.00 | 4.00 | 4.00 | 5.00 | 1.00 | 5.00 | 4.00 | 3.00 | 0.00 | 37.00 | | | 0.00 |
| Loading: TP - Final Effluent kg/d | 0.000 | 0.985 | 0.000 | 0.260 | 0.225 | 0.202 | 0.120 | 0.476 | 0.353 | 0.134 | 0.100 | 0.000 | | 0.33 | 0.99 | 0.760 |
| Percent Removal: TP - Raw Sewage % | 0.00 | 88.89 | 0.00 | 87.62 | 90.69 | 90.15 | 90.34 | 93.18 | 87.33 | 86.72 | 79.74 | 0.00 | | 88.29 | 93.18 | 0.00 |
| Nitrogen Series | | | | | | | | | | | | | | | | |
| Raw: Avg TKN - Raw Sewage mg/L | 17.50 | 14.30 | 19.30 | 19.90 | 31.15 | 33.23 | 43.68 | 44.55 | 38.06 | 42.20 | 34.00 | 21.68 | | 29.96 | 44.55 | 0.00 |
| Raw: # of samples of TKN - Raw Sewage | 1.00 | 1.00 | 1.00 | 5.00 | 4.00 | 4.00 | 5.00 | 4.00 | 5.00 | 4.00 | 4.00 | 5.00 | 43.00 | | | 0.00 |
| Eff: Avg TAN - Final Effluent mg/L | 0.00 | 4.50 | 0.00 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | 0.86 | 0.98 | 0.67 | 0.00 | | 1.06 | 4.50 | 4.00 |
| Eff: # of samples of TAN - Final Effluent | 0.00 | 6.00 | 0.00 | 5.00 | 4.00 | 4.00 | 5.00 | 1.00 | 5.00 | 4.00 | 3.00 | 0.00 | 37.00 | | | 0.00 |
| Loading: TAN - Final Effluent kg/d | 0.000 | 30.233 | 0.000 | < 0.163 | < 0.131 | < 0.082 | < 0.048 | < 0.207 | 0.829 | 0.298 | 0.156 | 0.000 | | 1.34 | 30.23 | 0.000 |
| Eff: Avg NO3-N - Final Effluent mg/L | 0.00 | 0.00 | 0.00 | 3.89 | 1.71 | 1.19 | 1.19 | 0.27 | 1.45 | 3.15 | 3.71 | 0.00 | | 2.07 | 3.89 | 0.00 |
| Eff: # of samples of NO3-N - Final Effluent | 0.00 | 0.00 | 0.00 | 5.00 | 4.00 | 4.00 | 5.00 | 1.00 | 5.00 | 4.00 | 3.00 | 0.00 | 31.00 | | | 0.00 |
| Eff: Avg NO2-N - Final Effluent mg/L | 0.00 | 0.00 | 0.00 | < 0.03 | < 0.03 | < 0.03 | < 0.03 | < 0.03 | 0.17 | 0.10 | 0.10 | 0.00 | | < 0.06 | < 0.17 | 0.00 |
| Eff: # of samples of NO2-N - Final Effluent | 0.00 | 0.00 | 0.00 | 5.00 | 4.00 | 4.00 | 5.00 | 1.00 | 5.00 | 4.00 | 3.00 | 0.00 | 31.00 | | | 0.00 |
| Disinfection | | | | | | | | | | | | | | | | |
| Eff: GMD E. Coli - Final Effluent cfu/100mL | 0.00 | 713.50 | 0.00 | 1.55 | 2.30 | 1.00 | 1.00 | 1.00 | 20.58 | 35.17 | 11.04 | 0.00 | | | | 200.00 |
| Eff: # of samples of E. Coli - Final Effluent | 0.00 | 6.00 | 0.00 | 5.00 | 4.00 | 4.00 | 5.00 | 1.00 | 5.00 | 4.00 | 3.00 | 0.00 | 37.00 | | | 0.00 |

Appendix B

Maintenance Summary

| | | | | Workorder Details | | | |
|---------|------------|---|---|---|--------|---------------------|---------------------|
| WO # | Asset ID | Asset Description | Location Description | Work Order Description | Status | Schedule Start | Actual Finish |
| 3714326 | 0000156277 | LAGOON CELL 01 BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Lagoon Cell 01 Inspection/Service (1m/6m/1y) | CLOSE | 1/1/24 12:00 AM | 2/14/24 10:05 AM |
| 3714336 | 0000156278 | LAGOON CELL 02 BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Lagoon Cell 02 Inspection/Service (1m/6m/1y) | CLOSE | 1/1/24 12:00 AM | 2/14/24 10:04 AM |
| 3714346 | 0000156160 | PANEL ALARM/ DIALER 01 PS1 | 6655, Bayfield South Pumping Station | Alarm Dialer 01 South Lift PS1 Testing (1m) 6655 | CLOSE | 1/1/24 12:00 AM | 1/5/24 02:29 PM |
| 3714351 | 0000156242 | PANEL ALARM/ DIALER BAYFIELD MAIN PS | 6655, Bayfield Main Pumping Station | Alarm Dialer 01 Main Lift PS3 Testing (1m) 6655 | CLOSE | 1/1/24 12:00 AM | 1/5/24 02:30 PM |
| 3714356 | 0000156186 | PANEL ALARM/ DIALER BAYFIELD NORTH PS | 6655, Bayfield North Pumping Station | Alarm Dialer 02 North Lift PS2 Testing (1m) 6655 | CLOSE | 1/1/24 12:00 AM | 1/5/24 02:32 PM |
| 3714361 | 0000156272 | PANEL ALARM/ DIALER BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Alarm Dialer 04 Bayfield Lagoon Testing (1m) 6655 | CLOSE | 1/1/24 12:00 AM | 1/5/24 02:33 PM |
| 3714544 | | | 6655, Bayfield WWL & CS | Spill Kit Inspect (1y) 6655/5876/5695 | CLOSE | 1/1/24 12:00 AM | 1/31/24 08:24 AM |
| 3714961 | 0000156159 | ENGINE DIESEL STANDBY GEN BAYFIELD SOUTH | 6655, Bayfield South Pumping Station | Engine Diesel Bayfield South PS Insp/Test (1m) 6655 | CLOSE | 1/1/24 12:00 AM | 1/5/24 02:36 PM |
| 3714980 | 0000156182 | ENGINE DIESEL 02 STANDBY GEN BAYFIELD NORTH | 6655, Bayfield North Pumping Station | Engine Diesel North Lift PS Insp/ Test (1m) 6655 | CLOSE | 1/1/24 12:00 AM | 1/5/24 02:42 PM |
| 3714999 | 0000156238 | ENGINE DIESEL STANDBY GEN BAYFIELD MAIN PS | 6655, Bayfield Main Pumping Station | Engine Diesel Bayfield Main PS Insp/Test (1m) 6655 | CLOSE | 1/1/24 12:00 AM | 1/5/24 02:43 PM |
| 3732953 | | | 6655, Bayfield South Pumping Station | Client Reports Bluewater Area (1y) 6 | CLOSE | 1/1/24 12:00 AM | 11/1/24 08:48 AM |
| 3737096 | | | Bayfield Wastewater Lagoons and Collection System | Data Logger Insp/Service - Campgrounds (1m) 6655 | CLOSE | 1/1/24 12:00 AM | 1/31/24 08:03 AM |
| 3740792 | | | 6655, Bayfield WWL & CS | 72 Hour Trending Review (1y) - 6655/5876/5695 | COMP | 1/1/24 12:00 AM | 1/2/25 10:03 AM |
| 3743359 | | | 6655, Bayfield WWL & CS | Chemical Receiving (1y) 6655/6676/5695 | COMP | 1/1/24 12:00 AM | 1/2/25 10:04 AM |
| 3743520 | | | 6655, Bayfield WWL & | e.Ris Data Collection (1m) | CLOSE | 1/1/24 12:00 AM | 1/5/24 02:44 PM |
| 3746246 | | | 6655, Bayfield Main Pumping Station | Sewer Backups (1y) 6655 | COMP | 1/1/24 12:00 AM | 1/2/25 10:15 AM |
| 3748138 | | | 6655, Bayfield WWL & CS | RP03 Annual Report ECA (1y) 6655 | CLOSE | 1/1/24 12:00 AM | 3/26/24 08:39 AM |
| 3760022 | 0000156264 | PUMP DIAPHRAGM 01 ALUM DOSING BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Fixed Alum pump #1 6655 | CLOSE | | 1/5/24 08:40 AM |
| 3761969 | | | 6655, Bayfield WWL & CS | WSER Quarterly Reporting (1y) 6655 | CLOSE | 1/12/24 12:00 AM | 2/9/24 01:48 PM |
| 3764971 | | | 6655, Bayfield WWL & | Bayfield lagoon stop logs | CLOSE | 1/26/24 08:37 | 1/26/24 05:00 PM |
| 3769982 | 0000156277 | LAGOON CELL 01 BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Lagoon Cell 01 Inspection/Service (1m/6m/1y) 6655 | CLOSE | 2/1/24 12:00 AM | 2/14/24 10:08 AM |
| 3769992 | 0000156278 | LAGOON CELL 02 BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Lagoon Cell 02 Inspection/Service (1m/6m/1y) | CLOSE | 2/1/24 12:00 AM | 2/14/24 10:10 AM |
| 3770002 | 0000156160 | PANEL ALARM/ DIALER 01 PS1 | 6655, Bayfield South Pumping Station | Alarm Dialer 01 South Lift PS1 Testing (1m) 6655 | CLOSE | 2/1/24 12:00 AM | 2/5/24 03:45 PM |
| 3770007 | 0000156242 | PANEL ALARM/ DIALER BAYFIELD MAIN PS | 6655, Bayfield Main Pumping Station | Alarm Dialer 01 Main Lift PS3 Testing (1m) 6655 | CLOSE | 2/1/24 12:00 AM | 2/5/24 03:46 PM |
| 3770012 | 0000156186 | PANEL ALARM/ DIALER BAYFIELD NORTH PS | 6655, Bayfield North Pumping Station | Alarm Dialer 02 North Lift PS2 Testing (1m) 6655 | CLOSE | 2/1/24 12:00 AM | 2/5/24 03:49 PM |
| 3770017 | 0000156272 | PANEL ALARM/ DIALER BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Alarm Dialer 04 Bayfield Lagoon Testing (1m) 6655 | CLOSE | 2/1/24 12:00 AM | 2/5/24 03:50 PM |

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|---------|------------|---|---|--|-------|-----------------|---------------------|
| 3770518 | 0000156159 | ENGINE DIESEL STANDBY GEN BAYFIELD SOUTH | 6655, Bayfield South Pumping Station | Engine Diesel Bayfield South PS Insp/Test (1m) 6655 | CLOSE | 2/1/24 12:00 AM | 2/6/24 07:48 AM |
| 3770537 | 0000156182 | ENGINE DIESEL 02 STANDBY GEN BAYFIELD NORTH | 6655, Bayfield North Pumping Station | Engine Diesel North Lift PS Insp/ Test (1m) 6655 | CLOSE | 2/1/24 12:00 AM | 2/6/24 07:54 AM |
| 3770556 | 0000156238 | ENGINE DIESEL STANDBY GEN BAYFIELD MAIN PS | 6655, Bayfield Main Pumping Station | Engine Diesel Bayfield Main PS Insp/Test (1m) 6655 | CLOSE | 2/1/24 12:00 AM | 2/6/24 02:12 PM |
| 3786371 | | | Bayfield Wastewater Lagoons and Collection System | Data Logger Insp/Service - Campgrounds (1m) 6655 | CLOSE | 2/1/24 12:00 AM | 2/15/24 11:10 PM |
| 3791106 | | | 6655, Bayfield WWL & CS | e.Ris Data Collection (1m) | CLOSE | 2/1/24 12:00 AM | 3/26/24 03:02 PM |
| 3806043 | 0000249197 | METER FLOW FIT- 111 ALUM DOSING BAYFIELD | 6655, Bayfield WWL & CS | Meter Flow 02 Bayfield Lagoon Calibration (1y) 6676 | CLOSE | 4/1/24 12:00 AM | 3/22/24 09:01 AM |
| 3806046 | 0000249217 | METER FLOW FIT- 221 PLANT DISCHARGE | 6655, Bayfield WWL & CS | Meter Flow Effluent Bayfield Lagoon Calibration (1y) 6676 | CLOSE | 4/1/24 12:00 AM | 3/22/24 09:05 AM |
| 3806049 | 0000249218 | METER FLOW FIT-121 INFLUENT BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Meter Flow Bayfield Lagoon Main Lift Calibration (1y) 6676 | CLOSE | 4/1/24 12:00 AM | 3/22/24 09:09 AM |
| 3812032 | | | 6655, Bayfield WWL & CS | Lifting Device Route (1y) 6655 | CLOSE | 3/1/24 12:00 AM | 6/17/24 01:36 PM |
| 3812251 | 0000156277 | LAGOON CELL 01 BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Lagoon Cell 01 Inspection/Service (1m/6m/1y) 6655 | CLOSE | 3/1/24 12:00 AM | 3/8/24 03:03 PM |
| 3812261 | 0000156278 | LAGOON CELL 02 BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Lagoon Cell 02 Inspection/Service (1m/6m/1y) | CLOSE | 3/1/24 12:00 AM | 3/8/24 03:05 PM |
| 3812271 | 0000156154 | METER LEVEL LIT- 01 WET WELL BAYFIELD SOUTH | 6655, Bayfield South Pumping Station | Meter Level 01 Wet Well Ps1 Insp/ Service (1y) 6655 | CLOSE | 3/1/24 12:00 AM | 4/12/24 09:03 AM |
| 3812273 | 0000156233 | METER LEVEL LIT- 01 WET WELL BAYFIELD MAIN PS | 6655, Bayfield Main Pumping Station | Meter Level 01 Wet Well Ps3 Insp/ Service (1y) 6655 | CLOSE | 3/1/24 12:00 AM | 4/12/24 09:01 AM |
| 3812275 | 0000156177 | METER LEVEL WET WELL BAYFIELD NORTH PS | 6655, Bayfield North Pumping Station | Meter Level 02 Wet Well Ps2 Insp/ Service (1y) 6655 | CLOSE | 3/1/24 12:00 AM | 4/12/24 09:00 AM |
| 3812277 | 0000156160 | PANEL ALARM/ DIALER 01 PS1 | 6655, Bayfield South Pumping Station | Alarm Dialer 01 South Lift PS1 Testing (1m) 6655 | CLOSE | 3/1/24 12:00 AM | 3/8/24 08:05 AM |
| 3812282 | 0000156242 | PANEL ALARM/ DIALER BAYFIELD MAIN PS | 6655, Bayfield Main Pumping Station | Alarm Dialer 01 Main Lift PS3 Testing (1m) 6655 | CLOSE | 3/1/24 12:00 AM | 3/11/24 11:40 AM |
| 3812287 | 0000156186 | PANEL ALARM/ DIALER BAYFIELD NORTH PS | 6655, Bayfield North Pumping Station | Alarm Dialer 02 North Lift PS2 Testing (1m) 6655 | CLOSE | 3/1/24 12:00 AM | 3/7/24 07:38 AM |
| 3812292 | 0000156272 | PANEL ALARM/ DIALER BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Alarm Dialer 04 Bayfield Lagoon Testing (1m) 6655 | CLOSE | 3/1/24 12:00 AM | 3/7/24 07:42 AM |
| 3812792 | 0000156159 | ENGINE DIESEL STANDBY GEN BAYFIELD SOUTH | 6655, Bayfield South Pumping Station | Engine Diesel Bayfield South PS Insp/Test (1m) 6655 | CLOSE | 3/1/24 12:00 AM | 3/8/24 08:06 AM |
| 3812811 | 0000156182 | ENGINE DIESEL 02 STANDBY GEN BAYFIELD NORTH | 6655, Bayfield North Pumping Station | Engine Diesel North Lift PS Insp/ Test (1m) 6655 | CLOSE | 3/1/24 12:00 AM | 3/7/24 07:39 AM |
| 3812830 | 0000156238 | ENGINE DIESEL STANDBY GEN BAYFIELD MAIN PS | 6655, Bayfield Main Pumping Station | Engine Diesel Bayfield Main PS Insp/Test (1m) 6655 | CLOSE | 3/1/24 12:00 AM | 3/11/24 11:41 AM |
| 3823426 | 0000249217 | METER FLOW FIT- 221 PLANT DISCHARGE | 6655, Bayfield WWL & CS | Meter Level Effluent Bayfield Lagoon Insp/ Service (1y) 6655 | CLOSE | 3/1/24 12:00 AM | 3/27/24 10:32 AM |
| 3823432 | 0000249216 | METER LEVEL LIT-601 ALUM TANK BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Meter Level 04 Alum Insp/Service (1y) 6655 | CLOSE | 3/1/24 12:00 AM | 3/27/24 10:34 AM |
| 3829926 | | | Bayfield Wastewater Lagoons and Collection System | Data Logger Insp/Service - Campgrounds (1m) 6655 | CLOSE | 3/1/24 12:00 AM | 3/26/24 03:47 PM |
| 3834513 | | | 6655, Bayfield WWL & CS | e.Ris Data Collection (1m) | CLOSE | 3/1/24 12:00 AM | 3/8/24 03:09 PM |

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|---------|------------|---|---|--|-------|-----------------|------------------|
| 3847911 | | | 6655, Bayfield WWL & CS | Bayfield sewer clean out extensions for new sidewalk | CLOSE | 3/6/24 09:00 AM | 3/8/24 04:00 PM |
| 3851628 | 0000156177 | METER LEVEL WET WELL BAYFIELD NORTH PS | 6655, Bayfield North Pumping Station | Troubleshoot ultrasonic transducer 6655 | CLOSE | | 3/28/24 12:53 PM |
| 3857374 | 0000156279 | FILTER SAND 01 BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Filter Sand 01 Insp/Service (1y) 6655 | CLOSE | 4/1/24 12:00 AM | 4/22/24 11:50 AM |
| 3857377 | 0000156280 | FILTER SAND 02 BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Filter Sand 02 Insp/Service (1y) 6655 | CLOSE | 4/1/24 12:00 AM | 4/22/24 11:51 AM |
| 3857380 | 0000156277 | LAGOON CELL 01 BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Lagoon Cell 01 Inspection/Service (1m/6m/1y) | CLOSE | 4/1/24 12:00 AM | 4/5/24 03:09 PM |
| 3857387 | 0000156278 | LAGOON CELL 02 BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Lagoon Cell 02 Inspection/Service (1m/6m/1y) | CLOSE | 4/1/24 12:00 AM | 4/5/24 03:10 PM |
| 3857394 | 0000156160 | PANEL ALARM/DIALER 01 PS1 | 6655, Bayfield South Pumping Station | Alarm Dialer 01 South Lift PS1 Testing (1m) 6655 | CLOSE | 4/1/24 12:00 AM | 4/16/24 01:16 PM |
| 3857399 | 0000156242 | PANEL ALARM/DIALER BAYFIELD MAIN PS | 6655, Bayfield Main Pumping Station | Alarm Dialer 01 Main Lift PS3 Testing (1m) 6655 | CLOSE | 4/1/24 12:00 AM | 4/22/24 09:31 AM |
| 3857404 | 0000156186 | PANEL ALARM/DIALER BAYFIELD NORTH PS | 6655, Bayfield North Pumping Station | Alarm Dialer 02 North Lift PS2 Testing (1m) 6655 | CLOSE | 4/1/24 12:00 AM | 4/12/24 11:25 AM |
| 3857409 | 0000156272 | PANEL ALARM/DIALER BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Alarm Dialer 04 Bayfield Lagoon Testing (1m) 6655 | CLOSE | 4/1/24 12:00 AM | 4/5/24 02:55 PM |
| 3857419 | 0000156240 | SAMPLER AUTOMATIC 01 INFLUENT | 6655, Bayfield Main Pumping Station | Sampler 01 Auto Composite Insp/ Service (1y) 6655 | CLOSE | 4/1/24 12:00 AM | 4/22/24 11:51 AM |
| 3857425 | 0000156258 | SAMPLER AUTOMATIC 02 EFFLUENT | 6655, Bayfield WWL & CS | Sampler 02 Auto Composite Insp/ Service (1y) 6655 | CLOSE | 4/1/24 12:00 AM | 4/22/24 11:52 AM |
| 3857945 | 0000156159 | ENGINE DIESEL STANDBY GEN BAYFIELD SOUTH | 6655, Bayfield South Pumping Station | Engine Diesel Bayfield South PS Insp/Test (1m) 6655 | CLOSE | 4/1/24 12:00 AM | 4/16/24 01:17 PM |
| 3857964 | 0000156182 | ENGINE DIESEL 02 STANDBY GEN BAYFIELD NORTH | 6655, Bayfield North Pumping Station | Engine Diesel North Lift PS Insp/ Test (1m) 6655 | CLOSE | 4/1/24 12:00 AM | 4/15/24 09:39 PM |
| 3857983 | 0000156238 | ENGINE DIESEL STANDBY GEN BAYFIELD MAIN PS | 6655, Bayfield Main Pumping Station | Engine Diesel Bayfield Main PS Insp/Test (1m) 6655 | CLOSE | 4/1/24 12:00 AM | 4/15/24 09:41 PM |
| 3877957 | | | Bayfield Wastewater Lagoons and Collection System | Data Logger Insp/Service - Campgrounds (1m) 6655 | CLOSE | 4/1/24 12:00 AM | 4/17/24 03:02 PM |
| 3884095 | | | 6655, Bayfield WWL & CS | e-Ris Data Collection (1m) | CLOSE | 4/1/24 12:00 AM | 4/5/24 03:11 PM |
| 3909536 | 0000156277 | LAGOON CELL 01 BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Lagoon Cell 01 Inspection/Service (1m/6m/1y) | CLOSE | 5/1/24 12:00 AM | 5/27/24 02:20 PM |
| 3909546 | 0000156278 | LAGOON CELL 02 BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Lagoon Cell 02 Inspection/Service (1m/6m/1y) | CLOSE | 5/1/24 12:00 AM | 5/27/24 02:22 PM |
| 3909556 | 0000156160 | PANEL ALARM/DIALER 01 PS1 | 6655, Bayfield South Pumping Station | Alarm Dialer 01 South Lift PS1 Testing (1m) 6655 | CLOSE | 5/1/24 12:00 AM | 5/10/24 04:32 PM |
| 3909561 | 0000156242 | PANEL ALARM/DIALER BAYFIELD MAIN PS | 6655, Bayfield Main Pumping Station | Alarm Dialer 01 Main Lift PS3 Testing (1m) 6655 | CLOSE | 5/1/24 12:00 AM | 5/10/24 04:47 PM |
| 3909566 | 0000156186 | PANEL ALARM/DIALER BAYFIELD NORTH PS | 6655, Bayfield North Pumping Station | Alarm Dialer 02 North Lift PS2 Testing (1m) 6655 | CLOSE | 5/1/24 12:00 AM | 5/10/24 04:21 PM |
| 3909571 | 0000156272 | PANEL ALARM/DIALER BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Alarm Dialer 04 Bayfield Lagoon Testing (1m) 6655 | CLOSE | 5/1/24 12:00 AM | 5/17/24 09:36 AM |
| 3910098 | 0000156159 | ENGINE DIESEL STANDBY GEN BAYFIELD SOUTH | 6655, Bayfield South Pumping Station | Engine Diesel Bayfield South PS Insp/Test (1m) 6655 | CLOSE | 5/1/24 12:00 AM | 5/10/24 04:40 PM |
| 3910117 | 0000156182 | ENGINE DIESEL 02 STANDBY GEN BAYFIELD NORTH | 6655, Bayfield North Pumping Station | Engine Diesel North Lift PS Insp/ Test (1m) 6655 | CLOSE | 5/1/24 12:00 AM | 5/10/24 04:25 PM |
| 3910136 | 0000156238 | ENGINE DIESEL STANDBY GEN BAYFIELD MAIN PS | 6655, Bayfield Main Pumping Station | Engine Diesel Bayfield Main PS Insp/Test (1m) 6655 | CLOSE | 5/1/24 12:00 AM | 5/10/24 04:49 PM |

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| 3928861 | | | Bayfield Wastewater Lagoons and Collection System | Data Logger Insp/Service - Campgrounds (1m) 6655 | CLOSE | 5/1/24 12:00 AM | 5/22/24 03:25 PM |
| 3933445 | | | 6655, Bayfield WWL & | e.Ris Data Collection (1m) | CLOSE | 5/1/24 12:00 AM | 6/13/24 03:45 PM |
| 3958065 | | | 6655, Bayfield WWL & CS | Analyzer Gas Tri Detector Insp/ Calib (1y) 6655 | CLOSE | 6/1/24 12:00 AM | 11/8/24 02:46 PM |
| 3958068 | 0000156277 | LAGOON CELL 01 BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Lagoon Cell 01 Inspection/Service (1m/6m/1y) | CLOSE | 6/1/24 12:00 AM | 6/17/24 01:53 PM |
| 3958078 | 0000156278 | LAGOON CELL 02 BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Lagoon Cell 02 Inspection/Service (1m/6m/1y) | CLOSE | 6/1/24 12:00 AM | 6/17/24 01:54 PM |
| 3958088 | 0000156160 | PANEL ALARM/ DIALER 01 PS1 | 6655, Bayfield South Pumping Station | Alarm Dialer 01 South Lift PS1 Testing (1m) 6655 | CLOSE | 6/1/24 12:00 AM | 6/7/24 01:17 PM |
| 3958094 | 0000156242 | PANEL ALARM/ DIALER BAYFIELD MAIN PS | 6655, Bayfield Main Pumping Station | Alarm Dialer 01 Main Lift PS3 Testing (1m) 6655 | CLOSE | 6/1/24 12:00 AM | 6/7/24 01:27 PM |
| 3958099 | 0000156186 | PANEL ALARM/ DIALER BAYFIELD NORTH PS | 6655, Bayfield North Pumping Station | Alarm Dialer 02 North Lift PS2 Testing (1m) 6655 | CLOSE | 6/1/24 12:00 AM | 6/7/24 01:04 PM |
| 3958104 | 0000156272 | PANEL ALARM/ DIALER BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Alarm Dialer 04 Bayfield Lagoon Testing (1m) 6655 | CLOSE | 6/1/24 12:00 AM | 6/10/24 01:45 PM |
| 3958114 | 0000207003 | PUMP SUBMERSIBLE 01 WET WELL | 6655, Bayfield North Pumping Station | Pump Subm 01 Marina PS Insp/ Service (1y) 6655 | CLOSE | 6/1/24 12:00 AM | 6/17/24 01:55 PM |
| 3958123 | 0000207002 | PUMP SUBMERSIBLE 02 WET WELL | 6655, Bayfield North Pumping Station | Pump Subm 02 Marina PS Insp/ Service (1y) 6655 | CLOSE | 6/1/24 12:00 AM | 6/17/24 01:58 PM |
| 3958132 | 0000156178 | PUMP SUBMERSIBLE H1 WET WELL | 6655, Bayfield North Pumping Station | Pump Subm H1 North Lift Ps2 Insp/ Service (1y) 6655 | CLOSE | 6/1/24 12:00 AM | 6/17/24 01:58 PM |
| 3958141 | 0000156179 | PUMP SUBMERSIBLE H2 WET WELL | 6655, Bayfield North Pumping Station | Pump Subm H2 North Lift Ps2 Insp/ Service (1y) 6655 | CLOSE | 6/1/24 12:00 AM | 6/17/24 01:59 PM |
| 3958150 | 0000156234 | PUMP SUBMERSIBLE M1 WET WELL | 6655, Bayfield Main Pumping Station | Pump Subm M1 Bayfield Main Ps3 Insp/Service (1y) 6655 | CLOSE | 6/1/24 12:00 AM | 6/17/24 02:00 PM |
| 3958159 | 0000156235 | PUMP SUBMERSIBLE M2 WET WELL | 6655, Bayfield Main Pumping Station | Pump Subm M2 Bayfield Main Ps3 Insp/Service (1y) 6655 | CLOSE | 6/1/24 12:00 AM | 6/17/24 02:00 PM |
| 3958168 | 0000156236 | PUMP SUBMERSIBLE M3 WET WELL | 6655, Bayfield Main Pumping Station | Pump Subm M3 Bayfield Main Ps3 Insp/Service (1y) 6655 | CLOSE | 6/1/24 12:00 AM | 6/17/24 02:01 PM |
| 3958177 | 0000156161 | PUMP SUBMERSIBLE S1 WET WELL | 6655, Bayfield South Pumping Station | Pump Subm S1 Bayfield South Ps1 Insp/Service (1y) 6655 | CLOSE | 6/1/24 12:00 AM | 6/17/24 02:01 PM |
| 3958186 | 0000156162 | PUMP SUBMERSIBLE S2 WET WELL | 6655, Bayfield South Pumping Station | Pump Subm S2 Bayfield South Ps1 Insp/Service (1y) 6655 | CLOSE | 6/1/24 12:00 AM | 6/17/24 02:02 PM |
| 3958195 | 0000156163 | PUMP SUBMERSIBLE S3 WET WELL | 6655, Bayfield South Pumping Station | Pump Subm S3 Bayfield South Ps1 Insp/Service (1y) 6655 | CLOSE | 6/1/24 12:00 AM | 6/17/24 02:03 PM |
| 3958204 | 0000156169 | VALVE AIR RELEASE BASEMENT | 6655, Bayfield South Pumping Station | Valve Ball 01 Air Relief Ps1 Insp/ Service (1y) 6655 | CLOSE | 6/1/24 12:00 AM | 6/17/24 02:03 PM |
| 3958207 | 0000156193 | VALVE AIR RELEASE BASEMENT | 6655, Bayfield North Pumping Station | Valve Ball 02 Air Relief Ps2 Insp/ Service (1y) 6655 | CLOSE | 6/1/24 12:00 AM | 6/17/24 02:04 PM |
| 3958210 | 0000156253 | VALVE AIR RELEASE BASEMENT | 6655, Bayfield Main Pumping Station | Valve Ball 03 Air Relief Ps3 Insp/ Service (1y) 6655 | CLOSE | 6/1/24 12:00 AM | 6/17/24 02:05 PM |
| 3958342 | | | 6655, Bayfield WWL & | MSDS Review - (6m) 6655 | CLOSE | 6/1/24 12:00 AM | 6/17/24 02:10 PM |
| 3958785 | 0000156159 | ENGINE DIESEL STANDBY GEN BAYFIELD SOUTH | 6655, Bayfield South Pumping Station | Engine Diesel Bayfield South PS Insp/Test (1m) 6655 | CLOSE | 6/1/24 12:00 AM | 6/7/24 01:18 PM |
| 3958804 | 0000156182 | ENGINE DIESEL 02 STANDBY GEN BAYFIELD NORTH | 6655, Bayfield North Pumping Station | Engine Diesel North Lift PS Insp/ Test (1m) 6655 | CLOSE | 6/1/24 12:00 AM | 6/7/24 01:05 PM |

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| 3958823 | 0000156238 | ENGINE DIESEL STANDBY GEN BAYFIELD MAIN PS | 6655, Bayfield Main Pumping Station | Engine Diesel Bayfield Main PS Insp/Test (1m) 6655 | CLOSE | 6/1/24 12:00 AM | 6/7/24 01:28 PM |
| 3958909 | | | 6655, Bayfield WWL & CS | OG35 FEP Review (1y) 6655/5695/5 | CLOSE | 6/1/24 12:00 AM | 7/2/24 09:51 AM |
| 3970255 | 0000249219 | PUMP SUBMERSIBLE FP1 FILTER PS WET | 6655, Bayfield WWL & CS | Pump Subm P1 Bayfield Lagoon Filter Insp/Service (1y) 6655 | CLOSE | 6/1/24 12:00 AM | 6/17/24 02:14 PM |
| 3970264 | 0000249220 | PUMP SUBMERSIBLE FP2 FILTER PS WET | 6655, Bayfield WWL & CS | Pump Subm P2 Bayfield Lagoon Filter Insp/Service (1y) 6655 | CLOSE | 6/1/24 12:00 AM | 6/17/24 02:14 PM |
| 3978439 | | | Bayfield Wastewater Lagoons and Collection System | Data Logger Insp/Service - Campgrounds (1m) 6655 | CLOSE | 6/1/24 12:00 AM | 6/20/24 10:21 AM |
| 3983390 | | | 6655, Bayfield WWL & CS | e.Ris Data Collection (1m) | CLOSE | 6/1/24 12:00 AM | 6/13/24 03:46 PM |
| 3997413 | | | 6655, Bayfield WWL & CS | Zurich dentist sewer back up | CLOSE | 6/5/24 05:21 PM | 6/5/24 05:21 PM |
| 4007750 | 0000156277 | LAGOON CELL 01 BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Lagoon Cell 01 Inspection/Service (1m/6m/1y) | CLOSE | 7/1/24 12:00 AM | 7/9/24 07:39 AM |
| 4007760 | 0000156278 | LAGOON CELL 02 BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Lagoon Cell 02 Inspection/Service (1m/6m/1y) | CLOSE | 7/1/24 12:00 AM | 7/9/24 07:40 AM |
| 4007770 | 0000156160 | PANEL ALARM/ DIALER 01 PS1 | 6655, Bayfield South Pumping Station | Alarm Dialer 01 South Lift PS1 Testing (1m) 6655 | CLOSE | 7/1/24 12:00 AM | 7/8/24 03:16 PM |
| 4007775 | 0000156242 | PANEL ALARM/ DIALER BAYFIELD MAIN PS | 6655, Bayfield Main Pumping Station | Alarm Dialer 01 Main Lift PS3 Testing (1m) 6655 | CLOSE | 7/1/24 12:00 AM | 7/11/24 03:08 PM |
| 4007780 | 0000156186 | PANEL ALARM/ DIALER BAYFIELD NORTH PS | 6655, Bayfield North Pumping Station | Alarm Dialer 02 North Lift PS2 Testing (1m) 6655 | CLOSE | 7/1/24 12:00 AM | 7/11/24 03:01 PM |
| 4007785 | 0000156272 | PANEL ALARM/ DIALER BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Alarm Dialer 04 Bayfield Lagoon Testing (1m) 6655 | CLOSE | 7/1/24 12:00 AM | 7/2/24 02:08 PM |
| 4008296 | 0000156159 | ENGINE DIESEL STANDBY GEN BAYFIELD SOUTH | 6655, Bayfield South Pumping Station | Engine Diesel Bayfield South PS Insp/Test (1m) 6655 | CLOSE | 7/1/24 12:00 AM | 7/8/24 03:14 PM |
| 4008315 | 0000156182 | ENGINE DIESEL 02 STANDBY GEN BAYFIELD NORTH | 6655, Bayfield North Pumping Station | Engine Diesel North Lift PS Insp/ Test (1m) 6655 | CLOSE | 7/1/24 12:00 AM | 7/11/24 03:02 PM |
| 4008334 | 0000156238 | ENGINE DIESEL STANDBY GEN BAYFIELD MAIN PS | 6655, Bayfield Main Pumping Station | Engine Diesel Bayfield Main PS Insp/Test (1m) 6655 | CLOSE | 7/1/24 12:00 AM | 7/11/24 03:10 PM |
| 4025822 | | | Bayfield Wastewater Lagoons and Collection System | Data Logger Insp/Service - Campgrounds (1m) 6655 | CLOSE | 7/1/24 12:00 AM | 7/31/24 07:50 AM |
| 4031163 | | | 6655, Bayfield WWL & CS | e.Ris Data Collection (1m) | CLOSE | 7/1/24 12:00 AM | 7/19/24 01:53 PM |
| 4056754 | 0000156277 | LAGOON CELL 01 BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Lagoon Cell 01 Inspection/Service (1m/6m/1y) | CLOSE | 8/1/24 12:00 AM | 8/9/24 01:42 PM |
| 4056764 | 0000156278 | LAGOON CELL 02 BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Lagoon Cell 02 Inspection/Service (1m/6m/1y) | CLOSE | 8/1/24 12:00 AM | 8/9/24 01:43 PM |
| 4056774 | 0000156160 | PANEL ALARM/ DIALER 01 PS1 | 6655, Bayfield South Pumping Station | Alarm Dialer 01 South Lift PS1 Testing (1m) 6655 | CLOSE | 8/1/24 12:00 AM | 8/13/24 02:52 PM |
| 4056779 | 0000156242 | PANEL ALARM/ DIALER BAYFIELD MAIN PS | 6655, Bayfield Main Pumping Station | Alarm Dialer 01 Main Lift PS3 Testing (1m) 6655 | CLOSE | 8/1/24 12:00 AM | 8/13/24 01:39 PM |
| 4056784 | 0000156186 | PANEL ALARM/ DIALER BAYFIELD NORTH PS | 6655, Bayfield North Pumping Station | Alarm Dialer 02 North Lift PS2 Testing (1m) 6655 | CLOSE | 8/1/24 12:00 AM | 8/13/24 01:25 PM |
| 4056789 | 0000156272 | PANEL ALARM/ DIALER BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Alarm Dialer 04 Bayfield Lagoon Testing (1m) 6655 | CLOSE | 8/1/24 12:00 AM | 8/6/24 09:56 AM |
| 4057341 | 0000156159 | ENGINE DIESEL STANDBY GEN BAYFIELD SOUTH | 6655, Bayfield South Pumping Station | Engine Diesel Bayfield South PS Insp/Test (1m) 6655 | CLOSE | 8/1/24 12:00 AM | 8/13/24 02:55 PM |
| 4057360 | 0000156182 | ENGINE DIESEL 02 STANDBY GEN BAYFIELD NORTH | 6655, Bayfield North Pumping Station | Engine Diesel North Lift PS Insp/ Test (1m) 6655 | CLOSE | 8/1/24 12:00 AM | 8/13/24 01:27 PM |

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| 4057379 | 0000156238 | ENGINE DIESEL STANDBY GEN BAYFIELD MAIN PS | 6655, Bayfield Main Pumping Station | Engine Diesel Bayfield Main PS Insp/Test (1m) 6655 | CLOSE | 8/1/24 12:00 AM | 8/13/24 01:41 PM |
| 4073478 | | | Bayfield Wastewater Lagoons and Collection System | Data Logger Insp/Service - Campgrounds (1m) 6655 | CLOSE | 8/1/24 12:00 AM | 8/21/24 09:06 PM |
| 4077991 | | | 6655, Bayfield WWL & CS | e.Ris Data Collection (1m) | CLOSE | 8/1/24 12:00 AM | 8/6/24 02:27 PM |
| 4101487 | 0000156277 | LAGOON CELL 01 BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Lagoon Cell 01 Inspection/Service (1m/6m/1y) | CLOSE | 9/1/24 12:00 AM | 9/23/24 03:35 PM |
| 4101497 | 0000156278 | LAGOON CELL 02 BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Lagoon Cell 02 Inspection/Service (1m/6m/1y) | CLOSE | 9/1/24 12:00 AM | 9/23/24 03:36 PM |
| 4101507 | 0000156160 | PANEL ALARM/ DIALER 01 PS1 | 6655, Bayfield South Pumping Station | Alarm Dialer 01 South Lift PS1 Testing (1m) 6655 | CLOSE | 9/1/24 12:00 AM | 9/17/24 01:22 PM |
| 4101512 | 0000156242 | PANEL ALARM/ DIALER BAYFIELD MAIN PS | 6655, Bayfield Main Pumping Station | Alarm Dialer 01 Main Lift PS3 Testing (1m) 6655 | CLOSE | 9/1/24 12:00 AM | 9/17/24 01:37 PM |
| 4101517 | 0000156186 | PANEL ALARM/ DIALER BAYFIELD NORTH PS | 6655, Bayfield North Pumping Station | Alarm Dialer 02 North Lift PS2 Testing (1m) 6655 | CLOSE | 9/1/24 12:00 AM | 9/17/24 01:10 PM |
| 4101522 | 0000156272 | PANEL ALARM/ DIALER BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Alarm Dialer 04 Bayfield Lagoon Testing (1m) 6655 | CLOSE | 9/1/24 12:00 AM | 9/20/24 03:43 PM |
| 4102275 | 0000156159 | ENGINE DIESEL STANDBY GEN BAYFIELD SOUTH | 6655, Bayfield South Pumping Station | Engine Diesel Bayfield South PS Insp/Test (1m) 6655 | CLOSE | 9/1/24 12:00 AM | 9/17/24 01:24 PM |
| 4102294 | 0000156159 | ENGINE DIESEL STANDBY GEN BAYFIELD SOUTH | 6655, Bayfield South Pumping Station | Engine Diesel Bayfield South PS Insp/Service (1y) 6655 | CLOSE | 9/1/24 12:00 AM | 10/7/24 02:33 PM |
| 4102333 | 0000156182 | ENGINE DIESEL 02 STANDBY GEN BAYFIELD NORTH | 6655, Bayfield North Pumping Station | Engine Diesel North Lift PS Insp/ Test (1m) 6655 | CLOSE | 9/1/24 12:00 AM | 9/17/24 01:09 PM |
| 4102352 | 0000156182 | ENGINE DIESEL 02 STANDBY GEN BAYFIELD NORTH | 6655, Bayfield North Pumping Station | Engine Diesel North Lift PS Insp/ Service (1y) 6655 | CLOSE | 9/1/24 12:00 AM | |
| 4102391 | 0000156238 | ENGINE DIESEL STANDBY GEN BAYFIELD MAIN PS | 6655, Bayfield Main Pumping Station | Engine Diesel Bayfield Main PS Insp/Test (1m) 6655 | CLOSE | 9/1/24 12:00 AM | |
| 4102410 | 0000156238 | ENGINE DIESEL STANDBY GEN BAYFIELD MAIN PS | 6655, Bayfield Main Pumping Station | Engine Diesel Bayfield Main PS Insp/Service (1y) 6655 | CLOSE | 9/1/24 12:00 AM | |
| 4109201 | | | 6655, Bayfield WWL & CS | Backflow Preventer Inspection (1y) 6655 | CLOSE | 9/1/24 12:00 AM | |
| 4121044 | | | Bayfield Wastewater Lagoons and Collection System | Data Logger Insp/Service - Campgrounds (1m) 6655 | CLOSE | 9/1/24 12:00 AM | |
| 4126041 | | | 6655, Bayfield WWL & CS | e.Ris Data Collection (1m) | CLOSE | 9/1/24 12:00 AM | |
| 4133947 | | | Bayfield Wastewater Lagoons and Collection System | Health and Safety Inspection (1m) 6655, 5695, 5876 | CLOSE | 9/1/24 12:00 AM | |
| 4152328 | | | 6655, Bayfield WWL & CS | Analyzer Gas Portable Insp/Calib (6m) Bluewater 6655, 5695, 5876 | CLOSE | 10/1/24 12:00 AM | |
| 4152331 | 0000156277 | LAGOON CELL 01 BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Lagoon Cell 01 Inspection/Service (1m/6m/1y) | CLOSE | 10/1/24 12:00 AM | |
| 4152341 | 0000156278 | LAGOON CELL 02 BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Lagoon Cell 02 Inspection/Service (1m/6m/1y) 6655 | CLOSE | 10/1/24 12:00 AM | |
| 4152351 | 0000156242 | PANEL ALARM/ DIALER BAYFIELD MAIN PS | 6655, Bayfield Main Pumping Station | Alarm Dialer 01 Main Lift PS3 Testing (1m) 6655 | CLOSE | 10/1/24 12:00 AM | |
| 4152356 | 0000156186 | PANEL ALARM/ DIALER BAYFIELD NORTH PS | 6655, Bayfield North Pumping Station | Alarm Dialer 02 North Lift PS2 Testing (1m) 6655 | CLOSE | 10/1/24 12:00 AM | |
| 4152361 | 0000156272 | PANEL ALARM/ DIALER BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Alarm Dialer 04 Bayfield Lagoon Testing (1m) 6655 | CLOSE | 10/1/24 12:00 AM | 10/4/24 02:48 PM |

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| 4152927 | 0000156159 | ENGINE DIESEL STANDBY GEN BAYFIELD SOUTH | 6655, Bayfield South Pumping Station | Engine Diesel Bayfield South PS Insp/Test (1m) 6655 | CLOSE | 10/1/24 12:00 AM | 10/7/24 06:05 PM |
| 4152946 | 0000156182 | ENGINE DIESEL 02 STANDBY GEN BAYFIELD NORTH | 6655, Bayfield North Pumping Station | Engine Diesel North Lift PS Insp/ Test (1m) 6655 | CLOSE | 10/1/24 12:00 AM | 10/7/24 06:07 PM |
| 4152965 | 0000156238 | ENGINE DIESEL STANDBY GEN BAYFIELD MAIN PS | 6655, Bayfield Main Pumping Station | Engine Diesel Bayfield Main PS Insp/Test (1m) 6655 | CLOSE | 10/1/24 12:00 AM | 10/7/24 06:04 PM |
| 4171340 | | | Bayfield Wastewater Lagoons and Collection System | Data Logger Insp/Service - Campgrounds (1m) 6655 | CLOSE | 10/1/24 12:00 AM | |
| 4176369 | | | 6655, Bayfield WWL & | e.Ris Data Collection (1m) | CLOSE | 10/1/24 12:00 | 10/4/24 03:03 PM |
| 4185037 | | | Bayfield Wastewater Lagoons and Collection System | Health and Safety Inspection (1m) 6655, 5695, 5876 | CLOSE | 10/1/24 12:00 AM | 10/4/24 03:46 PM |
| 4197352 | | | 6655, Bayfield WWL & | New sump pump install north | CLOSE | | |
| 4201758 | 0000156277 | LAGOON CELL 01 BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Lagoon Cell 01 Inspection/Service (1m/6m/1y) 6655 | CLOSE | 11/1/24 12:00 AM | |
| 4201768 | 0000156278 | LAGOON CELL 02 BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Lagoon Cell 02 Inspection/Service (1m/6m/1y) 6655 | CLOSE | 11/1/24 12:00 AM | |
| 4201778 | 0000156242 | PANEL ALARM/ DIALER BAYFIELD MAIN PS | 6655, Bayfield Main Pumping Station | Alarm Dialer 01 Main Lift PS3 Testing (1m) 6655 | CLOSE | 11/1/24 12:00 AM | 11/13/24 11:20 AM |
| 4201783 | 0000156186 | PANEL ALARM/ DIALER BAYFIELD NORTH PS | 6655, Bayfield North Pumping Station | Alarm Dialer 02 North Lift PS2 Testing (1m) 6655 | CLOSE | 11/1/24 12:00 AM | 11/13/24 11:21 AM |
| 4201788 | 0000156272 | PANEL ALARM/ DIALER BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Alarm Dialer 04 Bayfield Lagoon Testing (1m) 6655 | CLOSE | 11/1/24 12:00 AM | 11/8/24 02:21 PM |
| 4201798 | | | 6655, Bayfield WWL & CS | Tank Wet Well Insp/Service (1y) 6655 | CLOSE | 11/1/24 12:00 AM | |
| 4202415 | 0000156159 | ENGINE DIESEL STANDBY GEN BAYFIELD SOUTH | 6655, Bayfield South Pumping Station | Engine Diesel Bayfield South PS Insp/Test (1m) 6655 | CLOSE | 11/1/24 12:00 AM | 11/13/24 11:26 AM |
| 4202434 | 0000156182 | ENGINE DIESEL 02 STANDBY GEN BAYFIELD NORTH | 6655, Bayfield North Pumping Station | Engine Diesel North Lift PS Insp/ Test (1m) 6655 | CLOSE | 11/1/24 12:00 AM | 11/13/24 11:28 AM |
| 4202453 | 0000156238 | ENGINE DIESEL STANDBY GEN BAYFIELD MAIN PS | 6655, Bayfield Main Pumping Station | Engine Diesel Bayfield Main PS Insp/Test (1m) 6655 | CLOSE | 11/1/24 12:00 AM | 11/13/24 11:30 AM |
| 4217658 | | | Bayfield Wastewater Lagoons and Collection System | Data Logger Insp/Service - Campgrounds (1m) 6655 | CLOSE | 11/1/24 12:00 AM | 11/22/24 07:20 AM |
| 4221839 | | | 6655, Bayfield WWL & | e.Ris Data Collection (1m) | CLOSE | 11/1/24 12:00 | 11/5/24 03:31 PM |
| 4228576 | | | Bayfield Wastewater Lagoons and Collection System | Health and Safety Inspection (1m) 6655, 5695, 5876 | CLOSE | 11/1/24 12:00 AM | 11/8/24 02:12 PM |
| 4236973 | | | 6655, Bayfield North Pumping Station | Bayfield North SPS Sewage Pump #2 Repair 6655 | COMP | | 2/19/25 09:53 AM |
| 4243687 | 0000156277 | LAGOON CELL 01 BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Lagoon Cell 01 Inspection/Service (1m/6m/1y) 6655 | CLOSE | 12/1/24 12:00 AM | 12/4/24 02:24 PM |
| 4243697 | 0000156278 | LAGOON CELL 02 BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Lagoon Cell 02 Inspection/Service (1m/6m/1y) 6655 | CLOSE | 12/1/24 12:00 AM | 12/4/24 02:24 PM |
| 4243707 | 0000156242 | PANEL ALARM/ DIALER BAYFIELD MAIN PS | 6655, Bayfield Main Pumping Station | Alarm Dialer 01 Main Lift PS3 Testing (1m) 6655 | CLOSE | 12/1/24 12:00 AM | 12/4/24 02:25 PM |
| 4243712 | 0000156186 | PANEL ALARM/ DIALER BAYFIELD NORTH PS | 6655, Bayfield North Pumping Station | Alarm Dialer 02 North Lift PS2 Testing (1m) 6655 | CLOSE | 12/1/24 12:00 AM | 12/4/24 02:26 PM |
| 4243717 | 0000156272 | PANEL ALARM/ DIALER BAYFIELD LAGOON | 6655, Bayfield WWL & CS | Alarm Dialer 04 Bayfield Lagoon Testing (1m) 6655 | CLOSE | 12/1/24 12:00 AM | |

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| 4243859 | | | 6655, Bayfield WWL & | MSDS Review - (6m) 6655 | CLOSE | 12/1/24 12:00 | |
| 4243867 | | | 6655, Bayfield WWL & CS | Do Probe Calibration (1y) 6655/5876 | CLOSE | 12/1/24 12:00 AM | |
| 4244328 | 0000156159 | ENGINE DIESEL STANDBY GEN BAYFIELD SOUTH | 6655, Bayfield South Pumping Station | Engine Diesel Bayfield South PS Insp/Test (1m) 6655 | CLOSE | 12/1/24 12:00 AM | |
| 4244347 | 0000156182 | ENGINE DIESEL 02 STANDBY GEN BAYFIELD NORTH | 6655, Bayfield North Pumping Station | Engine Diesel North Lift PS Insp/ Test (1m) 6655 | CLOSE | 12/1/24 12:00 AM | |
| 4244366 | 0000156238 | ENGINE DIESEL STANDBY GEN BAYFIELD MAIN PS | 6655, Bayfield Main Pumping Station | Engine Diesel Bayfield Main PS Insp/Test (1m) 6655 | CLOSE | 12/1/24 12:00 AM | |
| 4259444 | | | Bayfield Wastewater Lagoons and Collection System | Data Logger Insp/Service - Campgrounds (1m) 6655 | COMP | 12/1/24 12:00 AM | |
| 4263657 | | | 6655, Bayfield WWL & | e.Ris Data Collection (1m) | CLOSE | 12/1/24 12:00 | |
| 4269942 | | | Bayfield Wastewater Lagoons and Collection System | Health and Safety Inspection (1m) 6655, 5695, 5876 | COMP | 12/1/24 12:00 AM | |
| 4278879 | | | 6655, Bayfield WWL & CS | Sampling Calendar Review (1y) 6655 | COMP | 12/15/24 12:00 AM | |

Appendix C

2024 Calibration Records



Pierce Services
& Solutions Inc.

45 Wilton Road
Guelph, ON N1E 7L6

Phone: 519.820.4853
Fax: 519.824.9402

Flowmeter Report

Verification: X

Calibration:

Client: OCWA Bluewater
Description: Mag Flow Meter
Manufacturer: Krohne
Model: Aquaflex
Inventory No.: 249218

Location: Bayfield Lagoons
Date: 24-Mar-18
Checked By: Greg Pierce
Serial No.: 1047692

| Velocity | Input | As Found | As Left | Pass/Fail |
|----------|------------|------------|------------|-----------|
| 0 m/s | 0.00 l/s | 0.00 l/s | 0.00 l/s | Pass |
| 1.23 m/s | 59.94 l/s | 59.94 l/s | 59.94 l/s | Pass |
| 2.54 m/s | 125.00 l/s | 125.00 l/s | 125.00 l/s | Pass |
| 3.76 m/s | 57.6 l/s | 57.6 l/s | 57.6 l/s | Pass |

Confirmed Run Mode: X

Returned to service: X

Service Comments:

Flowmeter Information

Flow Unit: l/s
Meter Size: 250 mm
Pipe Material: Cast Steel
Liner Material: PU
Range: 0-125 l/s
Tag Number: FIT 601



Comments:

Verification of original calibration

Coil Temp - 369.4 F
Electrode Temp - 100.1 F
Conductivity - 489.5 uS/cm
Coil Resistance - 79.18 Ω

Signature: _____

Greg Pierce, CCST



**Pierce Services
& Solutions Inc.**

45 Wilton Road
Guelph, ON N1E 7L6

Phone: 519.820.4853

Fax: 519.824.9402

Flowmeter Report

Verification: X

Calibration:

Client: OCWA Bluewater

Location: Bayfield Lagoons

Description: Mag Flow Meter

Date: 18-Mar-24

Manufacturer: ABB

Checked By: Greg Pierce

Model: Watermaster

Serial No.: 3K620000215245

Inventory No.: 249197

| Velocity | Input | As Found | As Left | Pass/Fail |
|----------|----------|----------|----------|-----------|
| 0 m/s | 0.00 l/s | 0.00 l/s | 0.00 l/s | Pass |
| 1.99 m/s | 3.9 l/s | 3.92 l/s | 3.92 l/s | |
| 3.05 m/s | 6.00 l/s | 6.00 l/s | 6.00 l/s | |
| | | | | |
| | | | | |

Confirmed Run Mode: X

Returned to service: X

Service Comments:

Flowmeter Information

Flow Unit: l/s
 Meter Size: 50 mm
 Pipe Material: Cast Steel
 Liner Material: PU
 Range: 0-6 l/s
 Tag Number: FIT 602



Comments:

Verification of original calibration

No Alarms

E1 - 1.24 kΩ

E2 - 1.28 kΩ

E1 - 0.057 V

E2 - 1.018 V

E12 - -0.038 V

CDI - 179.93 mA

CDR - 25.94 Ω

Signature: 

Greg Pierce, CCST



Pierce Services
& Solutions Inc.

519.820.4853 Fax 519.824.9402

Instrument Verification Sheet

Client Name: Ontario Clean Water Agency

Date: March 18, 2024

Equipment Description: Level Sensor

Assigned Number: LIT 601

Area Located: Bayfield Lagoons

Inventory Number: N/A

Instrument Data

Manufacturer: Milltronics

Model Number: MultiRanger Plus

Type: Ultrasonic

Serial Number: N/A

Range: 0 - 3.700 m

Accuracy: +/- 5%

Method Of Calibration: Standard Measurement

Application: Waste Water

Calibration Data

| Input % | Input | As Found | As Left | % Error |
|---------|----------|----------|---------|---------|
| | 9.022 mA | 1.161 m | 1.161 m | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Confirmed Run Mode:

Placed back in service:

Comments:



Checked By: Greg Pierce CCST

Signature:



**Pierce Services
& Solutions Inc.**

Instrument Verification Sheet

Client Name: Ontario Clean Water Agency

Date: March 18, 2024

Equipment Description: Flow Transmitter

Assigned Number: Lagoon Filter Flow

Area Located: Bayfield Lagoons

Inventory Number: 114632

Instrument Data

Manufacturer: Krohne

Model Number: AquaFlux

Type: Magmeter

Serial Number: A00 12009

Range: 0-300 l/s

Accuracy: +/- 5%

Method Of Calibration: Standard Verification

Application: Wastewater

Meter Size: 300mm

PASS/FAIL: Pass

Calibration Data

| Input | Input | Theoretical | As Found | Pass/Fail |
|-------|------------|-------------|------------|-----------|
| | 0.00 l/s | 0.00 l/s | 0.00 l/s | Pass |
| | 135.96 l/s | 135.96 l/s | 135.96 l/s | Pass |
| | | | | |
| | | | | |
| | | | | |

Confirmed Run Mode:

Placed back in service:

Comments:
Verification of original calibration only.



Checked By: Greg Pierce CCST

Signature: 



Pierce Services
& Solutions Inc.

519.820.4853 Fax 519.824.9402

Instrument Verification Sheet

Client Name: Ontario Clean Water Agency

Date: March 18, 2024

Equipment Description: Level Sensor

Assigned Number: LIT 103

Area Located: Bayfield Lagoons Chamber

Inventory Number: 114630

Instrument Data

Manufacturer: Milltronics

Model Number: MultiRanger Plus

Type: Ultrasonic

Serial Number: N/A

Range: 0 - 3.500 m

Accuracy: +/- 5%

Method Of Calibration: Standard Measurement

Application: Waste Water

Calibration Data

| Input % | Input | As Found | As Left | Pass/Fail |
|---------|----------|----------|---------|-----------|
| | 16.58 mA | 2.516 m | 2.516 m | Pass |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Confirmed Run Mode: ✓

Placed back in service: ✓

Comments:



Transducer Erratic Recommend Replacement

Checked By: Greg Pierce CCST

Signature: 



**Pierce Services
& Solutions Inc.**

45 Wilton Road
Guelph, ON N1E 7L6

Phone: 519.820.4853
Fax: 519.824.9402

Flowmeter Report

| | |
|---|---------------------------------------|
| Verification: <input checked="" type="checkbox"/> | Calibration: <input type="checkbox"/> |
| Client: <u>OCWA Bluewater</u> | Location: <u>Bayfield Lagoons</u> |
| Description: <u>Ultrasonic</u> | Date: <u>24-Mar-18</u> |
| Manufacturer: <u>Milltronics</u> | Checked By: <u>Greg Pierce</u> |
| Model: <u>OCM III</u> | Serial No.: _____ |
| Inventory No.: <u>249100</u> | |

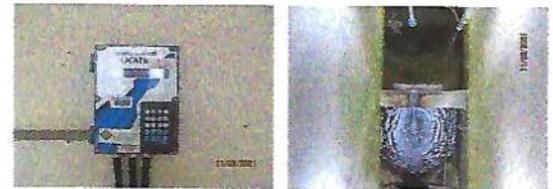
| Volocity | Input | Theroretical | As Left | Pass/Fail |
|----------|-------|--------------|--------------|-----------|
| | 0 cm | 0.00 l/s | 0.00 l/s | Pass |
| | 10 cm | 4.364 l/s | 4.3652 l/s | Pass |
| | 20 cm | 24.69 l/s | 24.69334 l/s | Pass |
| | 30 cm | 68.03 l/s | 68.04685 l/s | Pass |
| | 42 cm | 157.8 l/s | 157.8 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
 Flume Type: 90° V Notch Weir
 Range: 0-157.8 l/s
 Tag Number: FIT 101



Comments:
Verified with ISCO Open Channel Flow Book

Signature:

 Greg Pierce, CCST



Pierce Services
& Solutions Inc.

519.820.4853 Fax 519.824.9402

Instrument Verification Sheet

Client Name: Ontario Clean Water Agency

Date: March 20, 2024

Equipment Description: Level Sensor

Assigned Number: Wet Well Level

Area Located: Bayfield Main Lift Station

Inventory Number: 156233

Instrument Data

Manufacturer: Milltronics

Model Number: MultiRanger Plus

Type: Ultrasonic

Serial Number: N/A

Range: 0 - 3.300 m

Accuracy: +/- 5%

Method Of Calibration: Standard Measurement

Application: Waste Water

Calibration Data

| Input % | Input | As Found | As Left | Pass/Fail |
|---------|----------|----------|---------|-----------|
| | 9.967 mA | 1.119 m | 1.119 m | Pass |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Confirmed Run Mode:

Placed back in service:

Comments:



Checked By: Greg Pierce CCST

Signature: _____



Pierce Services
& Solutions Inc.

519.820.4853 Fax 519.824.9402

Instrument Verification Sheet

Client Name: Ontario Clean Water Agency

Date: March 20, 2024

Equipment Description: Level Sensor

Assigned Number: LIT 101

Area Located: North Lift Bayfield

Inventory Number: 1556177

Instrument Data

Manufacturer: Milltronics

Model Number: MultiRanger Plus

Type: Ultrasonic

Serial Number: N/A

Range: 0 - 3.750 m

Accuracy: +/- 5%

Method Of Calibration: Standard Measurement

Application: Waste Water

Calibration Data

| Input % | Input | As Found | As Left | Pass/Fail |
|---------|----------|----------|---------|-----------|
| | 9.376 mA | 1.159 m | 1.159 m | Pass |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Confirmed Run Mode:

Placed back in service:

Comments:



Checked By: Greg Pierce CCST

Signature:



Pierce Services
& Solutions Inc.

519.820.4853 Fax 519.824.9402

Instrument Verification Sheet

Client Name: Ontario Clean Water Agency

Date: March 18, 2024

Equipment Description: Level Sensor

Assigned Number: Wet Well Level

Area Located: Bayfield South Lift Station

Inventory Number: 156154

Instrument Data

Manufacturer: Milltronics

Model Number: MultiRanger 100

Type: Ultrasonic

Serial Number: PBD/E5150044

Range: 0 - 5.000 m

Accuracy: +/- 5%

Method Of Calibration: Standard Measurement

Application: Waste Water

Calibration Data

| Input % | Input | As Found | As Left | Pass/Fail |
|---------|---------|----------|---------|-----------|
| 26.62% | 8.36 mA | 1.25 m | 1.25 m | Pass |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Confirmed Run Mode:

Placed back in service:

Comments:



Checked By: Greg Pierce CCST

Signature:

Appendix D

2025 Sample Calendar



Sample Schedule 2025 Bayfield Sewage Treatment Plant

Rev. Date: 2025-03-20
Rev.#: 3
Pages: 1 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

| ◀ December | January 2025 | | | | | February ▶ |
|-------------------|---------------------|--------------------|------------------|------------|------------|-------------------|
| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
| | | | 1 STAT | 2 | 3 | 4 |
| 5 | 6 | 7 ☐ Raw | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 ☐ Raw | 15 | 16 | 17 | 18 |
| 19 | 20 | ☐ Raw | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 ☐ Raw | 29 | 30 | 31 | |

Discharge Period: April 1 to November 30

- Raw Sample:** Weekly Composite (BOD5, TSS, TP, TKN)
- Final Effluent:** Weekly Composite (CBOD, TSS, TP, TAN, TKN, NO3, NO2, Unionized Ammonia)
Weekly Grab (E.Coli)
- Pre-Filter:** Weekly Grab In-House (pH, Temp, DO)
Quarterly Grab (CBOD5, TSS, TP, TAN)
- Sludge:** Grab from Cell 1, Cell 2, WAS storage lagoon one week prior to removal (TS, TP, TAN, NO3, Metals – see “Sludge/Biosolids” Table in ECA)
- Leachate:** Quarterly – Only When Receiving (Refer to ‘Landfill Leachate Monitoring’ Table in ECA)
- 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 |
|------------|------------|--|-----------------|
| 2024-11-05 | 0 | Create 2025 Sample Calendar | Lisa Benoit |
| 2025-01-24 | 1 | Changed Discharge Period to end November 30 | HeatherWharram |
| 2025-02-10 | 2 | Added emergency discharge samples | Heather Wharram |
| 2025-03-20 | 3 | Added additional effluent sampling parameters on notes | HeatherWharram |



Sample Schedule 2025

Bayfield Sewage Treatment Plant

Rev. Date: 2025-03-20
 Rev.#: 3
 Pages: 2 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

| ◀ January | February 2025 | | | | | March ▶ |
|------------------|----------------------|---|------------|---|------------|----------------|
| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
| | | | | | | 1 |
| 2 | 3 | 4 <input type="checkbox"/> Raw | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 <input type="checkbox"/> Raw <input type="checkbox"/> Final Effluent | 12 | 13 <input type="checkbox"/> Final Effluent <input type="checkbox"/> Upstream <input type="checkbox"/> Downstream | 14 | 15 |
| 16 | 17 STAT | 18 <input type="checkbox"/> Raw <input type="checkbox"/> Final Effluent <input type="checkbox"/> Upstream <input type="checkbox"/> Downstream | 19 | 20 <input type="checkbox"/> Final Effluent <input type="checkbox"/> Upstream <input type="checkbox"/> Downstream | 21 | 22 |
| 23 | 24 | 25 <input type="checkbox"/> Raw | 26 | 27 | 28 | |

Discharge Period: April 1 to November 30

- Raw Sample:** Weekly Composite (BOD5, TSS, TP, TKN)
- Final Effluent:** Weekly Composite (CBOD, TSS, TP, TAN, TKN, NO3, NO2, Unionized Ammonia)
Weekly Grab (E.Coli)
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Sample Schedule 2025 Bayfield Sewage Treatment Plant

Rev. Date: 2025-03-20
Rev.#: 3
Pages: 3 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

| ◀ February | March 2025 | | | | | April ▶ |
|-------------------|-------------------|----------------------------|------------|------------|------------|----------------|
| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
| | | | | | | 1 |
| 2 | 3 | 4 <small>☐ Raw</small> | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 <small>☐ Raw</small> | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 <small>☐ Raw</small> | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 <small>☐ Raw</small> | 26 | 27 | 28 | 29 |
| 30 | 31 | | | | | |

Discharge Period: April 1 to November 30

- Raw Sample:** Weekly Composite (BOD5, TSS, TP, TKN)
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Sample Schedule 2025 Bayfield Sewage Treatment Plant

Rev. Date: 2025-03-20
Rev.#: 3
Pages: 4 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

| ◀ March | April 2025 | | | | | May ▶ |
|----------------|-------------------|--|------------|------------|-------------------|--------------|
| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
| | | 1 <input type="checkbox"/> Raw <input type="checkbox"/> Final Effluent <input type="checkbox"/> Pre Filter | 2 | 3 | 4 | 5 |
| 6 | 7 | 8 <input type="checkbox"/> Raw <input type="checkbox"/> Final Effluent | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 <input type="checkbox"/> Raw <input type="checkbox"/> Final Effluent | 16 | 17 | 18 STAT | 19 |
| 20 | 21 STAT | 22 <input type="checkbox"/> Raw <input type="checkbox"/> Final Effluent | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 <input type="checkbox"/> Raw <input type="checkbox"/> Final Effluent | 30 | | | |

Discharge Period: April 1 to November 30

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Sample Schedule 2025 Bayfield Sewage Treatment Plant

Rev. Date: 2025-03-20
Rev.#: 3
Pages: 5 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

| ◀ April | May 2025 | | | | | | June ▶ |
|----------------|-------------------|--|------------|------------|------------|------------|---------------|
| Sun | Mon | Tue | Wed | Thu | Fri | Sat | |
| | | | | 1 | 2 | 3 | |
| 4 | 5 | 6 <input type="checkbox"/> Raw <input type="checkbox"/> Final Effluent | 7 | 8 | 9 | 10 | |
| 11 | 12 | 13 <input type="checkbox"/> Raw <input type="checkbox"/> Final Effluent | 14 | 15 | 16 | 17 | |
| 18 | 19 STAT | 20 <input type="checkbox"/> Raw <input type="checkbox"/> Final Effluent | 21 | 22 | 23 | 24 | |
| 25 | 26 | 27 <input type="checkbox"/> Raw <input type="checkbox"/> Final Effluent | 28 | 29 | 30 | 31 | |

Discharge Period: April 1 to November 30

- Raw Sample:** Weekly Composite (BOD5, TSS, TP, TKN)
- Final Effluent:** Weekly Composite (CBOD, TSS, TP, TAN, TKN, NO3, NO2, Unionized Ammonia)
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Sample Schedule 2025 Bayfield Sewage Treatment Plant

Rev. Date: 2025-03-20
Rev.#: 3
Pages: 6 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

| ◀ May | June 2025 | | | | | | July ▶ |
|--------------|------------------|---|------------|------------|------------|------------|---------------|
| Sun | Mon | Tue | Wed | Thu | Fri | Sat | |
| 1 | 2 | 3 <input type="checkbox"/> Raw <input type="checkbox"/> Final Effluent | 4 | 5 | 6 | 7 | |
| 8 | 9 | 10 <input type="checkbox"/> Raw <input type="checkbox"/> Final Effluent | 11 | 12 | 13 | 14 | |
| 15 | 16 | 17 <input type="checkbox"/> Raw <input type="checkbox"/> Final Effluent | 18 | 19 | 20 | 21 | |
| 22 | 23 | 24 <input type="checkbox"/> Raw <input type="checkbox"/> Final Effluent | 25 | 26 | 27 | 28 | |
| 29 | 30 | | | | | | |

Discharge Period: April 1 to November 30

- Raw Sample:** Weekly Composite (BOD5, TSS, TP, TKN)
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Sample Schedule 2025 Bayfield Sewage Treatment Plant

Rev. Date: 2025-03-20
Rev.#: 3
Pages: 7 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

| ◀ June | July 2025 | | | | | August ▶ |
|---------------|------------------|--|--|------------|------------|-----------------|
| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
| | | 1 STAT | 2 <input type="checkbox"/> Raw <input type="checkbox"/> Final Effluent <input type="checkbox"/> Pre Filter | 3 | 4 | 5 |
| 6 | 7 | 8 <input type="checkbox"/> Raw <input type="checkbox"/> Final Effluent | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 <input type="checkbox"/> Raw <input type="checkbox"/> Final Effluent | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 <input type="checkbox"/> Raw <input type="checkbox"/> Final Effluent | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 <input type="checkbox"/> Raw <input type="checkbox"/> Final Effluent | 30 | 31 | | |

Discharge Period: April 1 to November 30

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Weekly Grab In-House (pH, Temp, DO)
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Sample Schedule 2025 Bayfield Sewage Treatment Plant

Rev. Date: 2025-03-20
Rev.#: 3
Pages: 8 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

| ◀ July | August 2025 | | | | | September ▶ |
|----------------------------|--------------------|--|------------|------------|------------|--------------------|
| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
| | | | | | 1 | 2 |
| 3 | 4 STAT | 5 <input type="checkbox"/> Raw <input type="checkbox"/> Final Effluent | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 <input type="checkbox"/> Raw <input type="checkbox"/> Final Effluent | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 <input type="checkbox"/> Raw <input type="checkbox"/> Final Effluent | 20 | 21 | 22 | 23 |
| 24 31 | 25 | 26 <input type="checkbox"/> Raw <input type="checkbox"/> Final Effluent | 27 | 28 | 29 | 30 |

Discharge Period: April 1 to November 30

- Raw Sample:** Weekly Composite (BOD5, TSS, TP, TKN)
- Final Effluent:** Weekly Composite (CBOD, TSS, TP, TAN, TKN, NO3, NO2, Unionized Ammonia)
Weekly Grab (E.Coli)
Weekly Grab In-House (pH, Temp, DO)
- Pre-Filter:** Quarterly Grab (CBOD5, TSS, TP, TAN)
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- Leachate:** Quarterly – Only When Receiving (Refer to 'Landfill Leachate Monitoring' Table in ECA)
- 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 |
|------------|------------|--|-----------------|
| 2024-11-05 | 0 | Create 2025 Sample Calendar | Lisa Benoit |
| 2025-01-24 | 1 | Changed Discharge Period to end November 30 | HeatherWharram |
| 2025-02-10 | 2 | Added emergency discharge samples | Heather Wharram |
| 2025-03-20 | 3 | Added additional effluent sampling parameters on notes | HeatherWharram |



Sample Schedule 2025 Bayfield Sewage Treatment Plant

Rev. Date: 2025-03-20
Rev.#: 3
Pages: 9 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

| ◀ August | September 2025 | | | | | | October ▶ |
|-----------------|-----------------------|--|------------|------------|------------|------------|------------------|
| Sun | Mon | Tue | Wed | Thu | Fri | Sat | |
| | 1 STAT | 2 <input type="checkbox"/> Raw <input type="checkbox"/> Final Effluent | 3 | 4 | 5 | 6 | |
| 7 | 8 | 9 <input type="checkbox"/> Raw <input type="checkbox"/> Final Effluent | 10 | 11 | 12 | 13 | |
| 14 | 15 | 16 <input type="checkbox"/> Raw <input type="checkbox"/> Final Effluent | 17 | 18 | 19 | 20 | |
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Pages: 10 of 12

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| ◀ September | October 2025 | | | | | November ▶ |
|--------------------|---------------------|--|--|------------|------------|-------------------|
| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
| | | | 1 <input type="checkbox"/> Raw <input type="checkbox"/> Final Effluent <input type="checkbox"/> Pre Filter | 2 | 3 | 4 |
| 5 | 6 | 7 <input type="checkbox"/> Raw <input type="checkbox"/> Final Effluent | 8 | 9 | 10 | 11 |
| 12 | 13 STAT | 14 <input type="checkbox"/> Raw <input type="checkbox"/> Final Effluent | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 <input type="checkbox"/> Raw <input type="checkbox"/> Final Effluent | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 <input type="checkbox"/> Raw <input type="checkbox"/> Final Effluent | 29 | 30 | 31 | |

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Pages: 11 of 12

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| ◀ October | November 2025 | | | | | | December ▶ |
|------------------|----------------------|---|---|------------|------------|------------|-------------------|
| Sun | Mon | Tue | Wed | Thu | Fri | Sat | |
| | | | | | | 1 | |
| 2 | 3 | 4 <input type="checkbox"/> Raw <input type="checkbox"/> Final Effluent | 5 | 6 | 7 | 8 | |
| 9 | 10 | 11 STAT | 12 <input type="checkbox"/> Raw <input type="checkbox"/> Final Effluent | 13 | 14 | 15 | |
| 16 | 17 | 18 <input type="checkbox"/> Raw <input type="checkbox"/> Final Effluent | 19 | 20 | 21 | 22 | |
| 23 30 | 24 | 25 <input type="checkbox"/> Raw <input type="checkbox"/> Final Effluent | 26 | 27 | 28 | 29 | |

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| ◀ November | December 2025 | | | | | | January ▶ |
|-------------------|----------------------|-----------------------------------|------------|-------------------|-------------------|------------|------------------|
| Sun | Mon | Tue | Wed | Thu | Fri | Sat | |
| | 1 | 2 <small>□ Raw</small> | 3 | 4 | 5 | 6 | |
| 7 | 8 | 9 <small>□ Raw</small> | 10 | 11 | 12 | 13 | |
| 14 | 15 | 16 <small>□ Raw</small> | 17 | 18 | 19 | 20 | |
| 21 | 22 | 23 <small>□ Raw</small> | 24 | 25 STAT | 26 STAT | 27 | |
| 28 | 29 | 30 <small>□ Raw</small> | 31 | | | | |

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