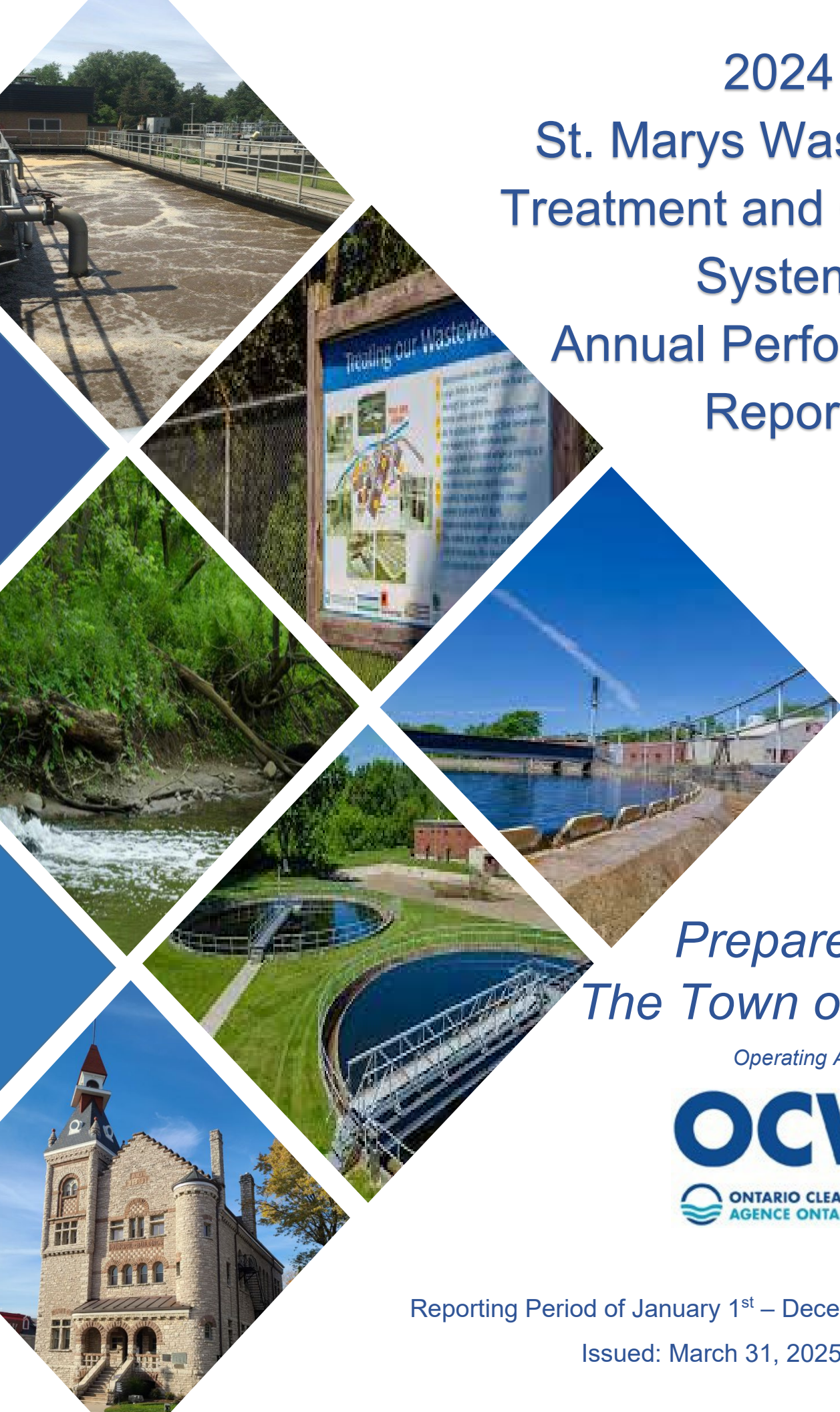




2024 St. Marys Wastewater Treatment and Collection System Annual Performance Report

Prepared For:
The Town of St. Marys

Operating Authority:



Reporting Period of January 1st – December 31st, 2024

Issued: March 31, 2025

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Overview

The following report was prepared by Ontario Clean Water Agency on behalf of the Town of St. Marys in accordance with:

- Section 12(4) (a) through (n) cited in Environmental Compliance Approval #6378-CB3M2T issued July 27, 2022, to The Corporation of the Separated Town of St. Marys.
- Schedule E (4) cited in Environmental Compliance Approval #056-W601 issued January 10, 2023, to The Corporation of the Separated Town of St. Marys.

System Process Description

The St. Marys WWTP is located at 309 Thomas Street, Ontario. The plant is an *Anoxic/Oxic Biological Nutrient Removal (A/O BNR) System with Integrated Sludge Management*. The facility has a rated capacity of 5,560 m³/d and is comprised of the following components:

- Wastewater collection system & pumping stations;
- Preliminary treatment facility consisting of screens and grit removal;
- Anoxic Tanks;
- Biological Treatment facility including supplementary treatment system;
- Secondary sedimentation consisting of 2 secondary clarifiers;
- Disinfection system;
- Biosolids Handling.

Raw Wastewater Collection

Raw sewage typically flows by gravity throughout the system to the wastewater treatment plant. Where gravity flow is not possible due to elevation restrictions, raw sewage flows by gravity to each of the three pump stations that service the Town of St. Marys and from there is pumped to a point within the collection system where gravity drainage is possible. The three pump stations are located as follows:

- Emily Street Pump Station consisting of 2, 30 HP pumps controlled by floats, until their replacement with Milltronics level sensors in June, 2024, with high level float alarm.
- Robinson Street Pump Station consisting of 2, 7.5 HP pumps controlled by Milltronics with high level float alarm and an emergency back-up generator.
- Queen Street Pump Station consisting of 2, 10 HP pumps controlled by Milltronics with high level float alarm and an emergency back-up generator.

Inlet Works

Raw sewage flows from the collection system and the three pump stations into the wet well; raw sewage passes through automatic bar screens on route to the wet well. The raw sewage is then pumped through a grit tank and comminutor. Grit is removed and conveyed into a bin that is sent to landfill for disposal. Raw sewage continues to flow by gravity to the process anoxic tanks.

Anoxic Tanks

The Raw sewage is introduced to the anoxic tanks along with recirculated material from the process aeration tanks and the clarifier's return activated sludge (RAS). Contents of each 359 m³ anoxic tank is

continually mixed with a mechanical mixer. The anoxic and aeration tanks contain micro-organisms that degrade, organics, nitrogen, and phosphorus in the wastewater.

Aeration Tanks

Sewage enters the distribution chamber through the inlet chamber. From here, flow is divided between the three 859 m³ aeration basins. The parallel operating aeration basins are each equipped with fine air bubble diffusers. Air introduced here in the waste stream promotes oxidization of the carbon and ammonia from the raw sewage. In 2015 a 150 HP turbo blower was installed to provide a minimum of 2,506 m³ of air/hour replacing one of the centrifugal blowers.

One phosphorus removal system capable of processing internal recycle streams consisting of one polymerized aluminum sulphate feed system consisting of two chemical feed pumps discharging into the channel of the outlet of the aeration tanks.

Secondary Clarifiers

Sewage is split amongst four centre feed round clarifiers, two larger 802 m³ clarifiers and 2 smaller 268 m³ clarifiers. Return activated sludge (RAS) collected from clarifiers can be transferred to the anoxic tanks or to waste activated equalization tanks. Waste activated equalization tanks are holding tanks utilized for the sludge thickening process.

Final Effluent Disinfection

Effluent passes through two ultraviolet lamp arrays containing a total of 112 lamps. A sodium hypochlorite liquid feed system is provided for backup chlorination in the event of UV failure. Final effluent is discharged via pipe to the outfall on the bank of the Thames River.

Biosolids Handling

Waste activated sludge (WAS) is pumped from the two 230 m³ waste activated sludge equalization tanks (WASEQ), equipped with coarse air diffusion, into a flocculation tank for polymer addition and then into a rotary drum thickener for dewatering. The thickened waste activated sludge (TWAS) is pumped into one of the two sludge storage tanks that were previously used as digesters. Supernatant is taken off the top of the storage tanks to thicken the sludge. Sludge from these storage tanks is then dosed with polymer and processed through a dewatering centrifuge. The dewatered sludge produced by the centrifuge is pumped to the Lystek reactor to compete the Lystek process. Biosolids are mixed with potassium hydroxide in the heated mixing tank and processed.

Product from the mixing tank is pumped to a mixed storage tank equipped with an activated carbon odour control system. Biosolids are loaded from an overhead loading dock into a tanker for approved disposal. The loading area is equipped with curbing and is graded to catch basins tied into the process.

Standby Power

The wastewater treatment plant has an automatic standby generator which will operate the plants essential components when a utility power failure occurs.

System Facts:

Environmental Compliance Approval
CLI Environmental Compliance Approval
Rated Capacity
Receiving Water

#6378-CB3M2T (issued July 27, 2022)
 #056-W601 (issued January 10, 2023)
 5,560m³/d
 Thames River – North Branch

For 2024, the St. Marys WWTP & WWC system was operated in accordance with the provincial regulations as required in ECA #6378-CB3M2T and #056-W601. The following report is presented such that it corresponds with Section 12(4) (a) through (n) and Schedule E condition 4.6.

Collection System Monitoring

Effluent from industrial contributors to the St. Marys wastewater collection system is monitored on a weekly basis by means of a 24-hour composite sample. Wastewater samples are tested for BOD₅, total suspended solids, total phosphorus, and oil and grease. Information from wastewater monitoring allows the town to enforce its sewer use bylaws, and provides important information and insight into adverse impacts on the town's WWTP. Figures 1 through 4, and the **Operational Problems and Corrective Actions** section provide more information on industrial contributor wastewater monitoring results.

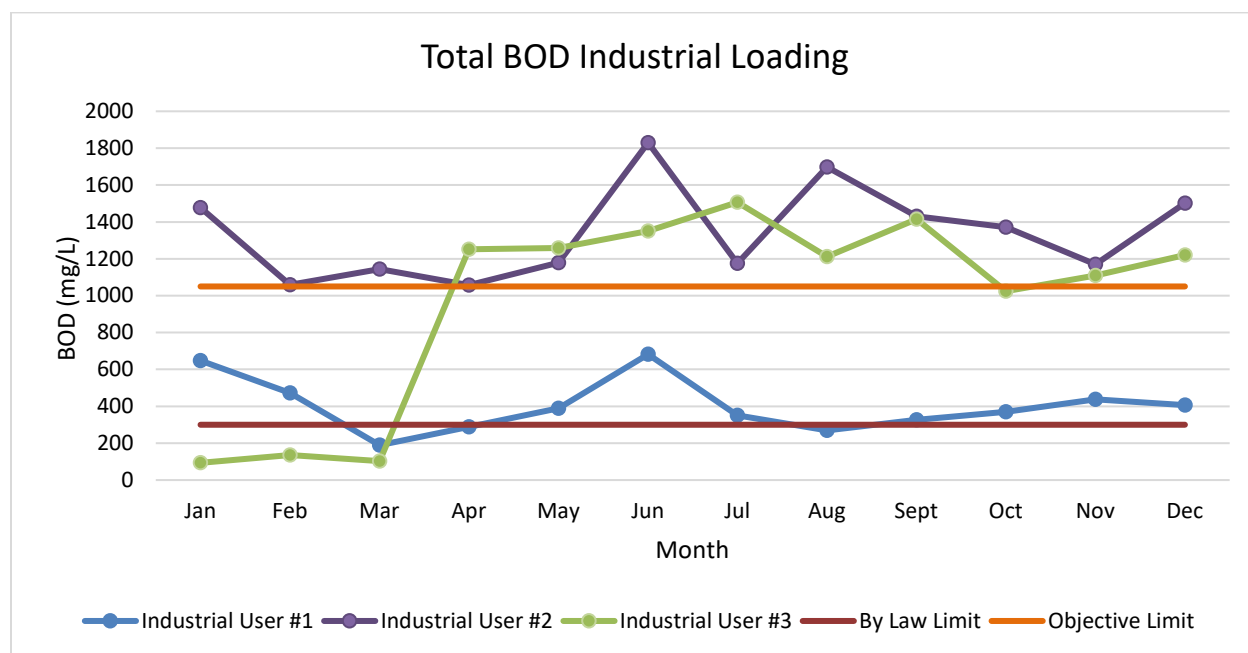


Figure 1: Average monthly BOD₅ concentrations from Industrial Contributors

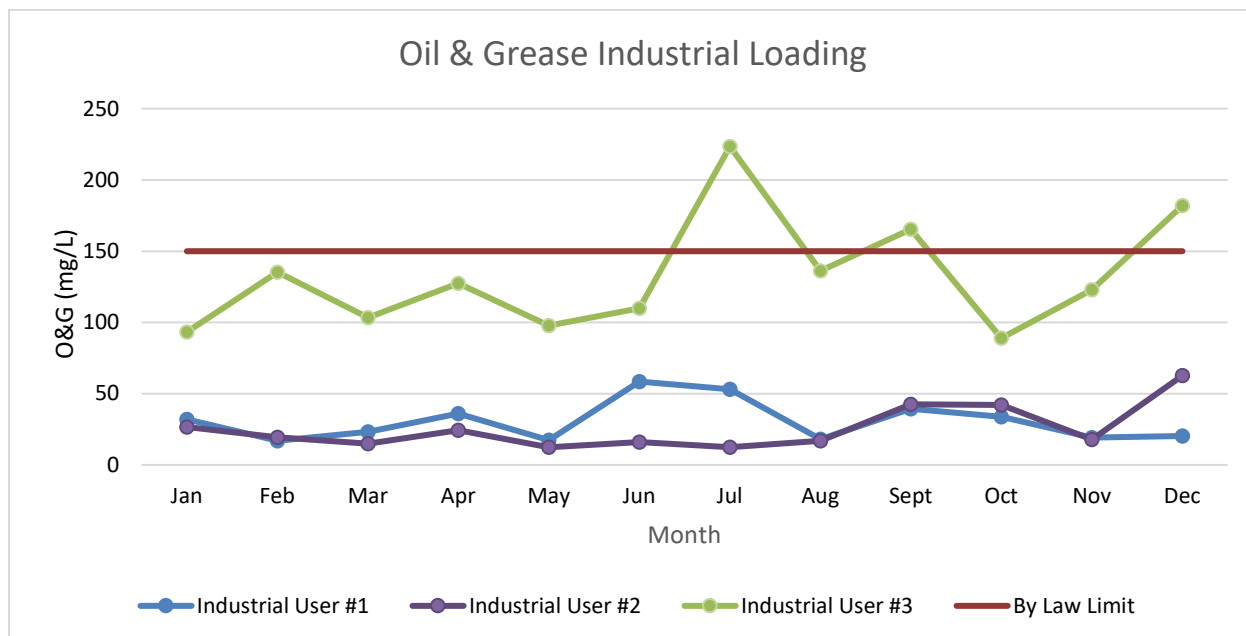


Figure 2: Average monthly oil & grease concentrations from Industrial Contributors

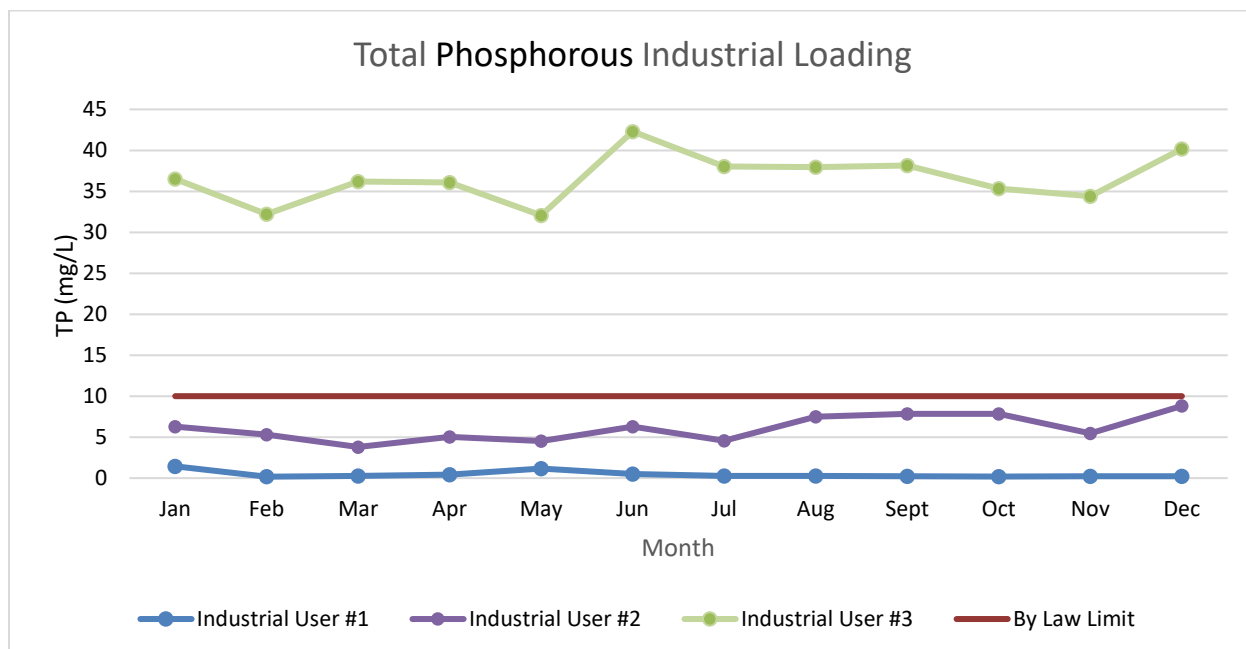


Figure 3: Average monthly total phosphorus concentrations from Industrial Contributors

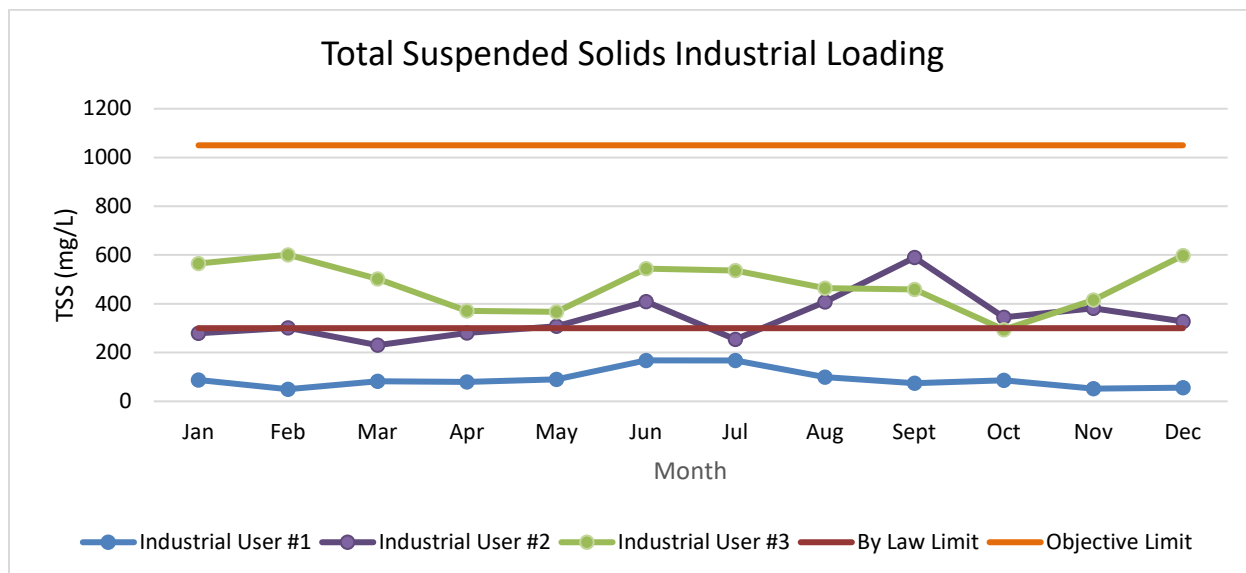


Figure 4: Average monthly total suspended solids concentrations from Industrial Contributors

Influent Flow Monitoring

The St. Marys WWTP is rated to treat an average daily flow of 5,560 m³. The raw sewage average daily flow in 2024 was 4,625 m³/d. The average daily flow for the same period in 2023 was 4,571 m³/d. Currently, the annual average daily flow is at 83% of the rated capacity of the plant. Refer to Figure 5 for a comparison of the annual average daily flow for the last six years against the rated capacity of the plant, and to Figure 6 for average daily flow each month and the overall annual average daily flow.

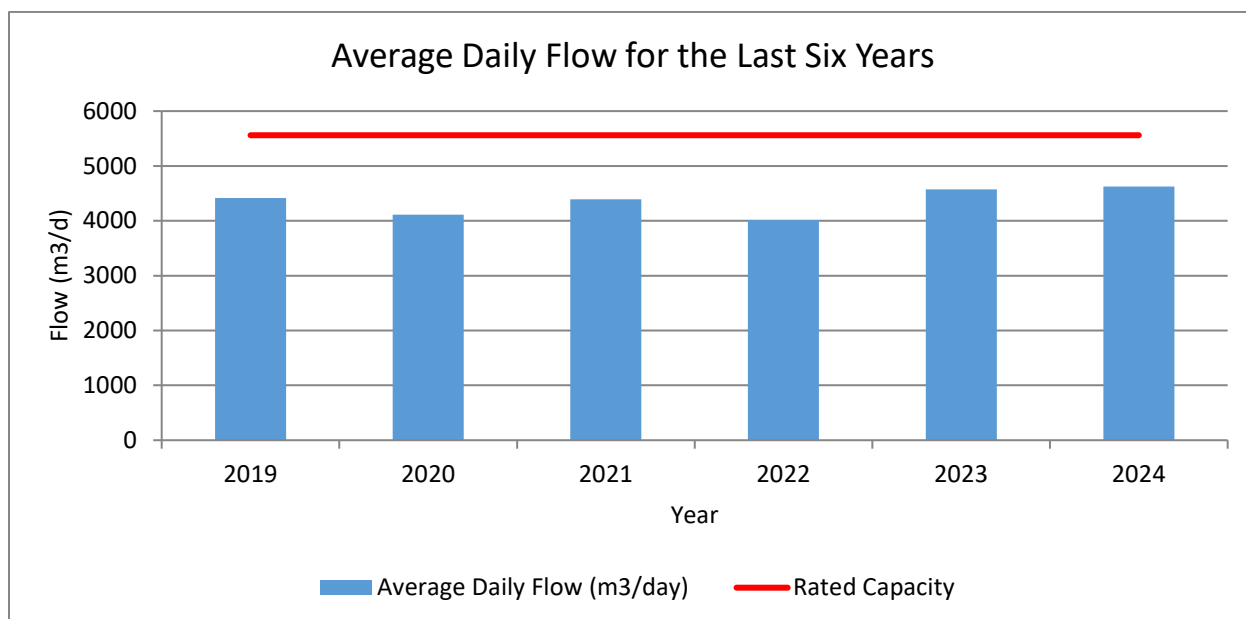


Figure 5. Average Daily Flow for the Last Six Years

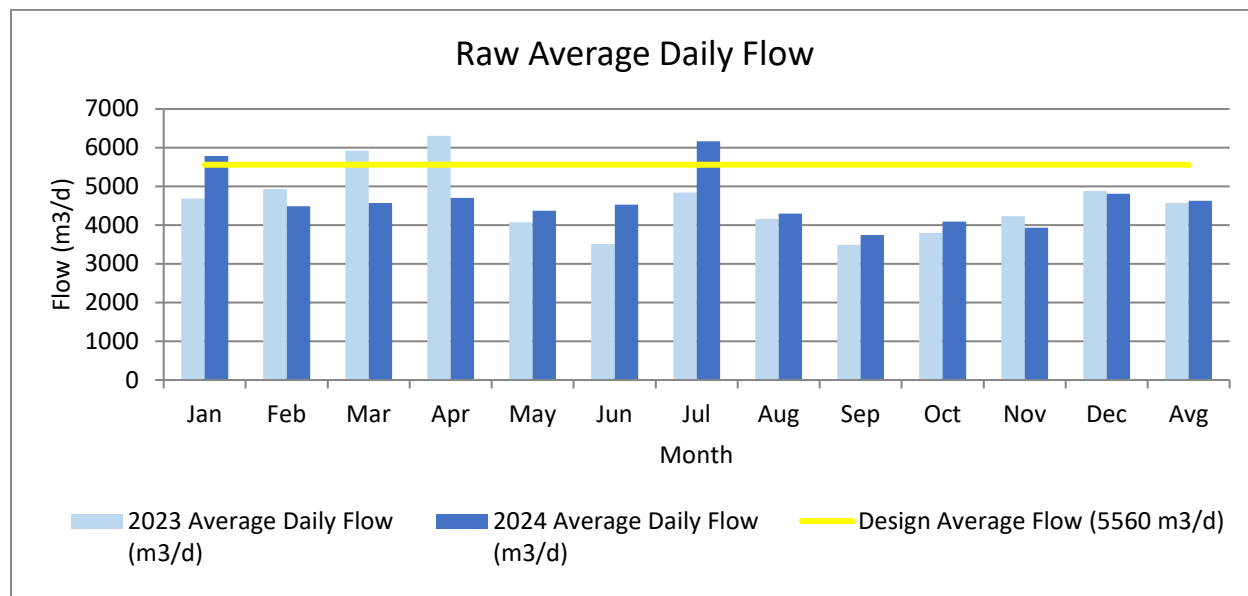


Figure 6. Average Daily Flow each Month

Influent Data

The influent is monitored for BOD₅, total suspended solids, total phosphorous, alkalinity, total ammonia nitrogen and total kjeldahl nitrogen on a weekly basis by means of a 24-hour composite sample. Refer to Appendix A for more detail on monthly results.

Biochemical Oxygen Demand

In 2024 the average raw Biochemical Oxygen Demand (BOD₅) concentration was 271 mg/L, this is a 25 % decrease from the annual average in 2023. Refer to Figure 7 for a comparison of 2024 monthly raw BOD₅ concentrations to 2023 concentrations.

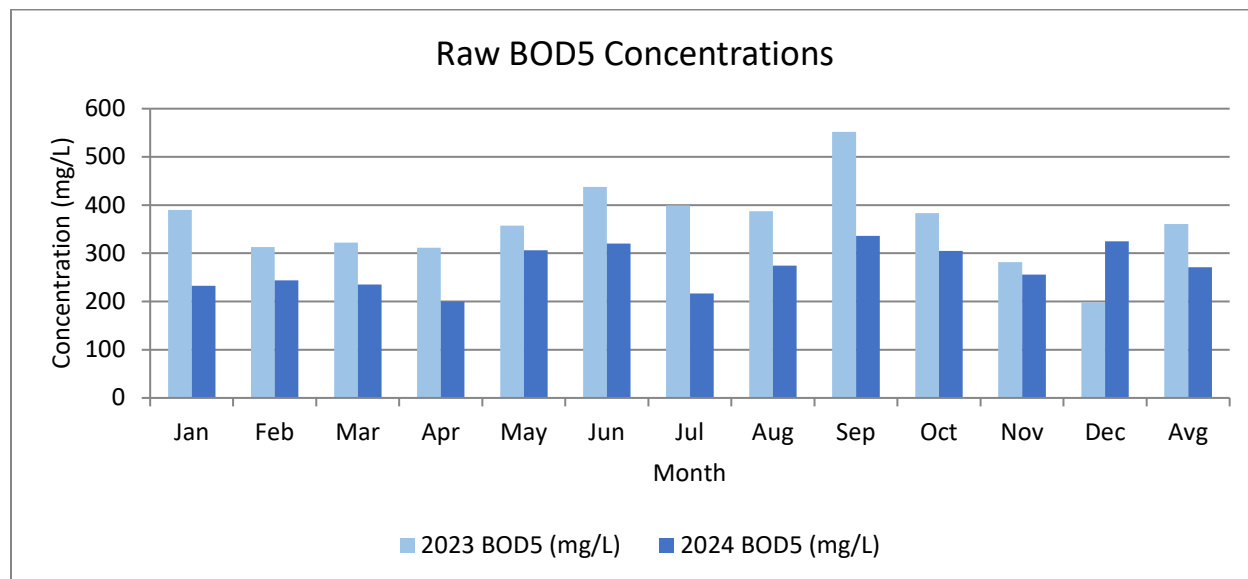


Figure 7. Average Monthly Raw BOD₅ Concentrations

Total Suspended Solids

In 2024 the average raw Total Suspended Solids (TSS) concentration was 249 mg/L, this is a 28.5% decrease from the annual average in 2023. Refer to Figure 8 for a comparison of 2024 monthly raw TSS concentrations to 2023 concentrations.

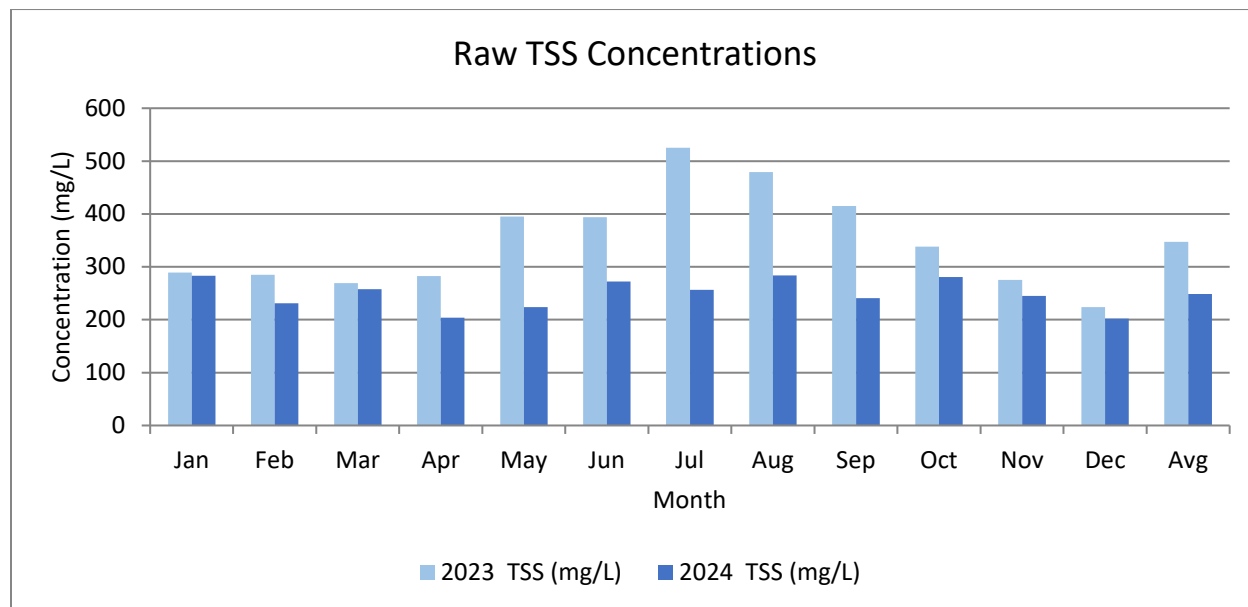


Figure 8. Raw TSS Concentrations

Total Phosphorus

In 2024 the average raw Total Phosphorus (TP) concentration was 3.0 mg/L, this is a 48.7% decrease from the annual average in 2023. Refer to Figure 9 for a comparison of 2024 monthly raw TP concentrations to 2023 concentrations.

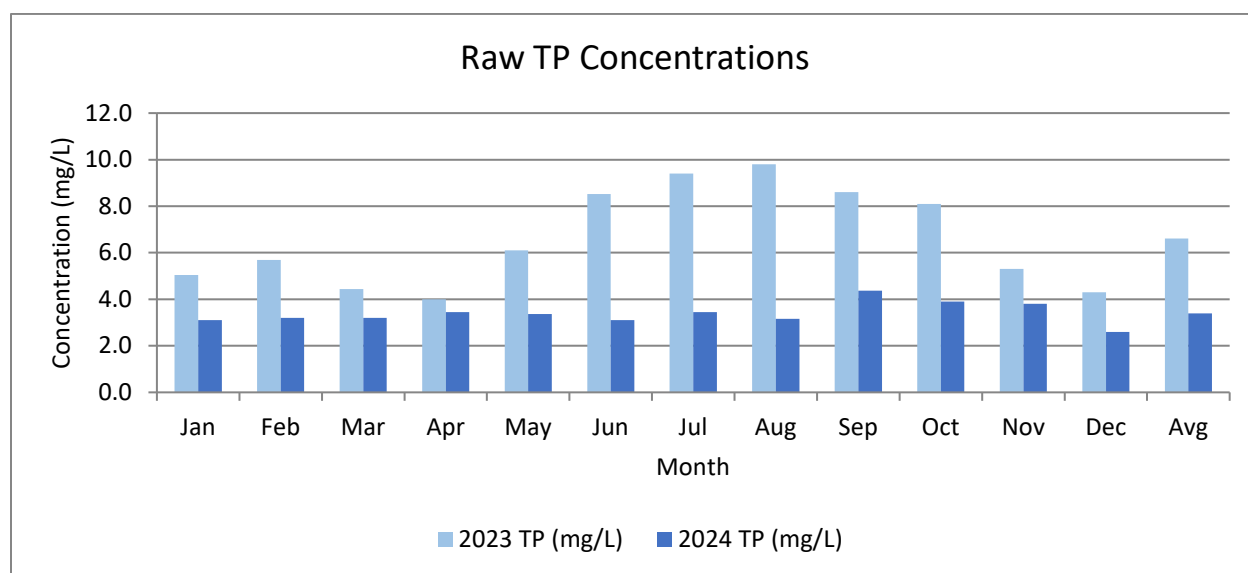


Figure 9. Raw TP Concentrations

Total Kjeldahl Nitrogen

In 2024 the average raw Total Kjeldahl Nitrogen (TKN) concentration was 27.8 mg/L, this is a 26.2% decrease from the annual average in 2023. Refer to Figure 10 for a comparison of 2024 monthly raw TKN concentrations to 2023 concentrations.

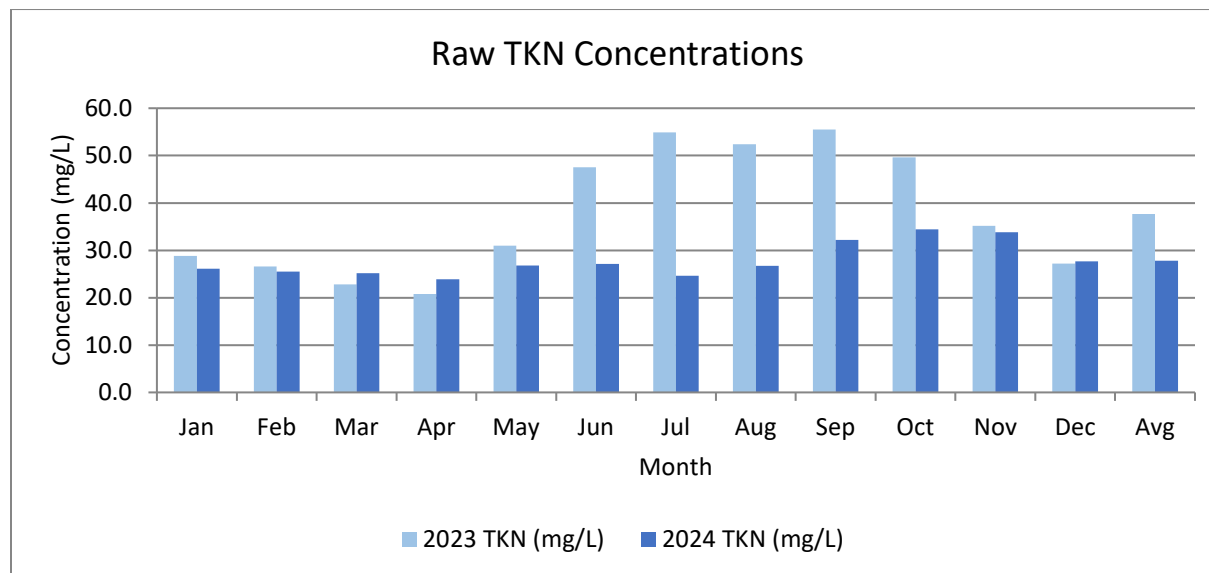


Figure 10. Raw TKN Concentrations

Total Ammonia Nitrogen

In 2024 the average raw Total Ammonia Nitrogen (TAN) concentration was 19.4 mg/L, this is a 2.3% decrease from 2023. Refer to Figure 7 for comparison of 2024 monthly raw TAN concentrations to 2023 concentrations.

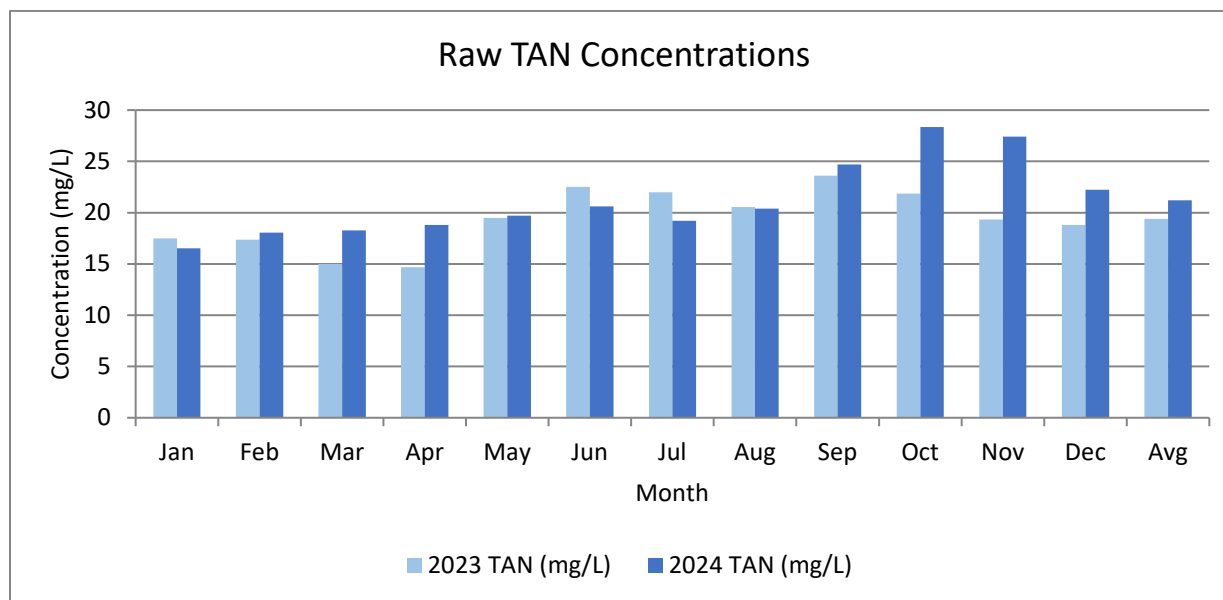


Figure 11: Average Monthly Raw TAN Concentrations

Imported Sewage

The St. Marys WWTP is approved to accept imported sewage by licensed waste management system operators as identified within R.R.O Reg. 347: General Waste Management, as amended. The St. Marys WWTP has accepted no imported sewage in 2024.

Effluent Monitoring Data

Effluent from the St. Marys WWTP is sampled for on a weekly basis and analyzed for; CBOD₅, total suspended solids, total phosphorous and total ammonia nitrogen by means of a 24-hour composite sample. Grab samples are collected weekly and tested for *E.coli*, pH and Dissolved Oxygen (DO). Detailed results are found in Appendix A. Tables 1 - 3 show the monthly average effluent results. For details on objective and limit exceedances, refer to **Summary of Efforts Made to Achieve Design Objectives**.

Table 1: Effluent Composite Monthly Average Results

Month	CBOD ₅ (mg/L)	TSS (mg/L)	TP (mg/L)	TAN (mg/L)
January	5.6	13.8	0.21	0.12
February	5.3	12.3	0.16	0.10
March	5.8	13.8	0.22	0.10
April	4.1	8.7	0.19	0.10
May	4.9	9.1	0.31	0.10
June	3.4	7.0	0.44	0.10
July	3.9	6.0	0.18	0.10
August	4.3	4.9	0.19	0.10
September	4.3	7.3	0.49	0.10
October	4.0	8.6	0.53	0.26
November	4.0	6.3	0.35	0.10
December	4.8	11.8	0.42	0.11
Average	4.5	9.1	0.31	0.12
Objective	10	10	0.7	2.5
Limit	15	15	1	6

Table 2: Effluent Composite Single Sample Results

Month	CBOD ₅ (mg/L)*	TSS (mg/L)*	TP (mg/L)*	TAN (mg/L)*
January	4.0 – 9.0	8.0 – 19.0	0.10 – 0.46	0.10 – 0.20
February	4.0 – 6.0	8.0 – 16.0	0.12 – 0.19	0.10 – 0.10
March	4.0 – 8.0	11.0 – 16.0	0.16 – 0.28	0.10 – 0.10
April	4.0 – 5.0	7.0 – 11.0	0.12 – 0.31	0.10 – 0.10
May	4.0 – 6.0	6.0 – 12.0	0.12 – 0.49	0.10 – 0.10
June	2.0 – 4.0	4.0 – 9.0	0.07 – 1.15	0.10 – 0.10

July	2.0 – 4.0	2.0 – 9.0	0.09 – 0.53	0.10 – 0.10
August	4.0 – 6.0	2.0 – 8.0	0.10 – 0.31	0.10 – 0.10
September	4.0 – 5.0	6.0 – 9.0	0.15 – 0.94	0.10 – 0.10
October	4.0 – 4.0	5.0 – 12.0	0.17 – 0.87	0.10 – 0.90
November	4.0 – 4.0	5.0 – 7.0	0.10 – 1.03	0.10 – 0.10
December	4.0 – 8.0	7.0 – 24.0	0.16 – 0.92	0.10 – 0.20
Range*	2.0 – 9.0	2.0 – 24.0	0.07 – 1.15	0.10 – 0.90
Limit	25.0	25.0	1.0	8.0

Table 3. Effluent Grab Results

Month	<i>E.coli</i> (cfu/100mL)**	pH*	D.O. (mg/L)***
January	8.1	7.2 – 7.9	6.9
February	7.1	6.9 – 7.7	7.0
March	11.5	7.0 – 7.9	6.7
April	22.0	7.3 – 8.4	6.3
May	6.9	7.2 – 7.8	6.8
June	3.0	7.1 – 7.7	6.3
July	6.0	7.2 – 7.7	5.4
August	4.8	7.3 – 7.7	5.6
September	3.1	7.2 – 7.7	5.4
October	4.6	7.1 – 7.8	5.4
November	3.5	7.2 – 7.8	6.4
December	15.0	6.9 – 7.7	6.5
Average	6.8	6.9 – 8.4	6.2
Objective	100 (May 1- Nov 30) 200 (Dec 1 – Apr 30)	6.5-8.5	4.0
Limit	200 (May 1 – Nov 30)	6.0-9.5	N/A

*minimum and maximum result range

**expressed as geometric mean

***minimum result

Comparison to Compliance Limits & Objectives

Carbonaceous Biochemical Oxygen Demand

St. Marys WWTP average monthly effluent Carbonaceous Biochemical Oxygen Demand (CBOD₅) concentration in 2024 was 4.5 mg/L, which is a 5.6% increase from the annual average in 2023. Refer to Figure 12 for a comparison of 2024 monthly effluent CBOD₅ concentrations to 2023 concentrations. Refer to Figure 13 for the single sample concentrations compared to the exceedance limit.

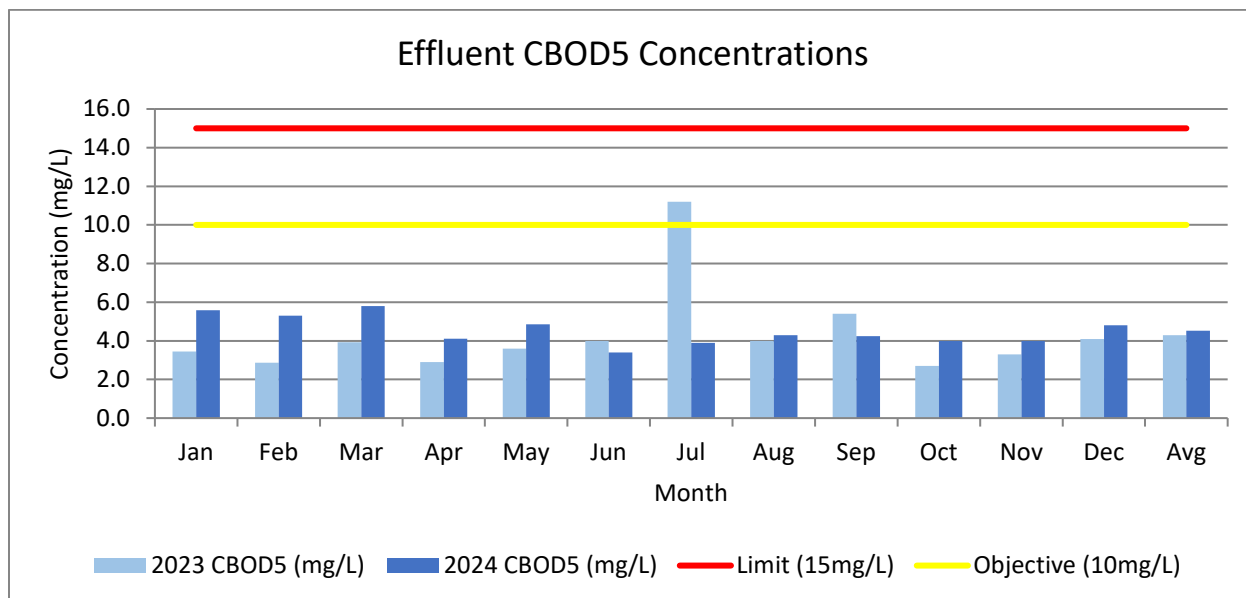


Figure 12: Effluent CBOD Concentrations

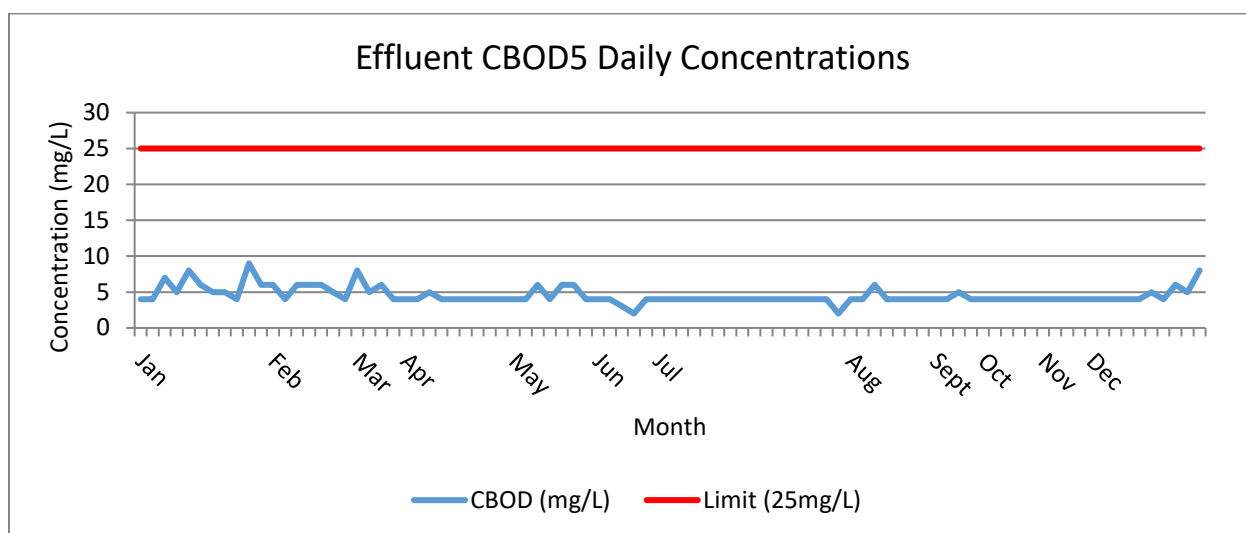


Figure 13: Effluent Single Sample CBOD Concentrations

Total Suspended Solids

The average monthly effluent Total Suspended Solids (TSS) concentration in 2024 was 9.1 mg/L, which is an 8 % increase from the annual average in 2023. There were four (4) monthly TSS objective exceedances in 2024, none of which resulted in a limit exceedance. There were no daily TSS limit exceedances in 2024. Refer to Figure 14 for a comparison of 2024 monthly effluent TSS concentrations to 2023 concentrations. Refer to Figure 15 for the single sample concentrations compared to the

exceedance limit. Refer to **Summary of Efforts Made to Achieve Design Objectives** for more information on the monthly TSS objective exceedances.

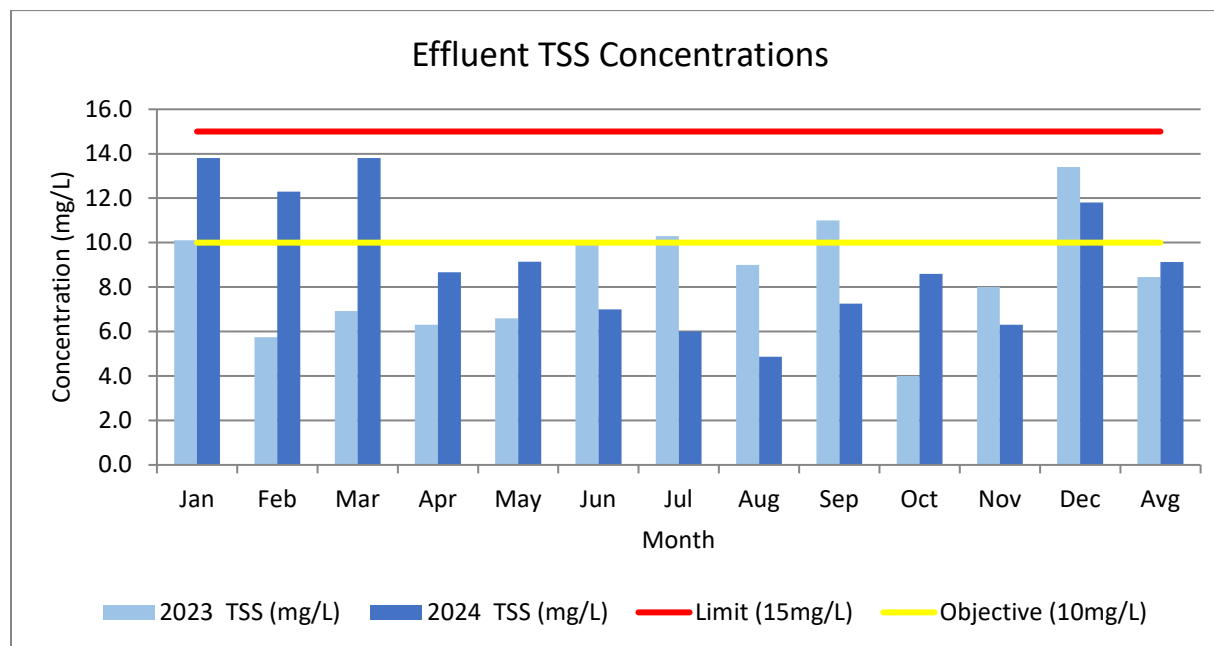


Figure 14: Effluent TSS Concentrations.

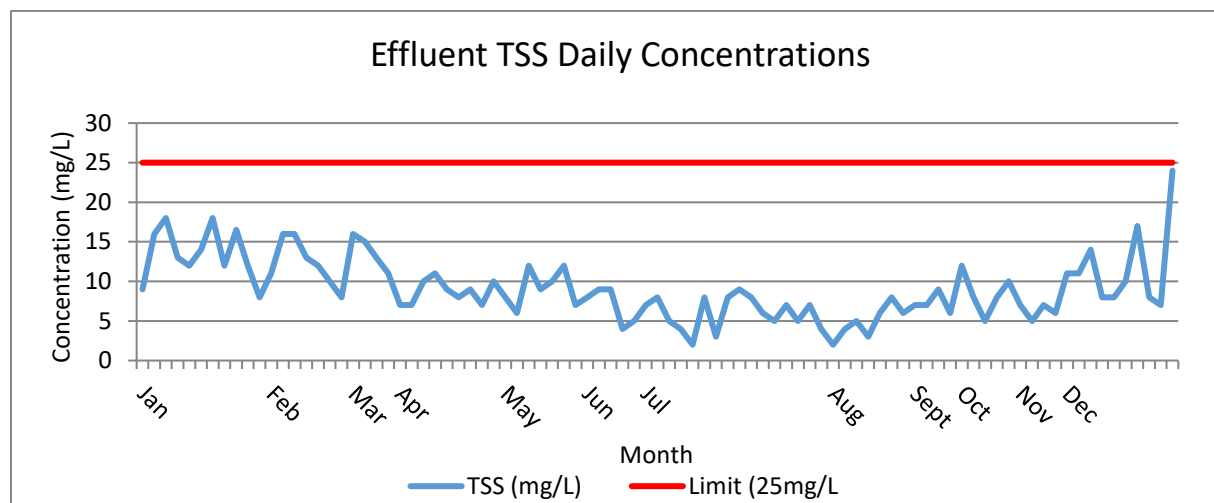


Figure 15: Effluent Single Sample TSS Concentrations

Total Phosphorus

The average monthly effluent Total Phosphorus (TP) concentration in 2024 was 0.31 mg/L, which is a 31.5 % increase from the annual average in 2023. There were no total phosphorus monthly objective or limit exceedances in 2024. Refer to Figure 16 for a comparison of 2024 monthly average effluent TP concentrations to 2023 concentrations. There was one (1) daily average total phosphorus limit

exceedance in 2024. Refer to Figure 17 for the 2024 single sample concentrations compared to the exceedance limit, and to **Summary of Efforts Made to Achieve Design Objectives** for more information on the daily average total phosphorus limit exceedance.

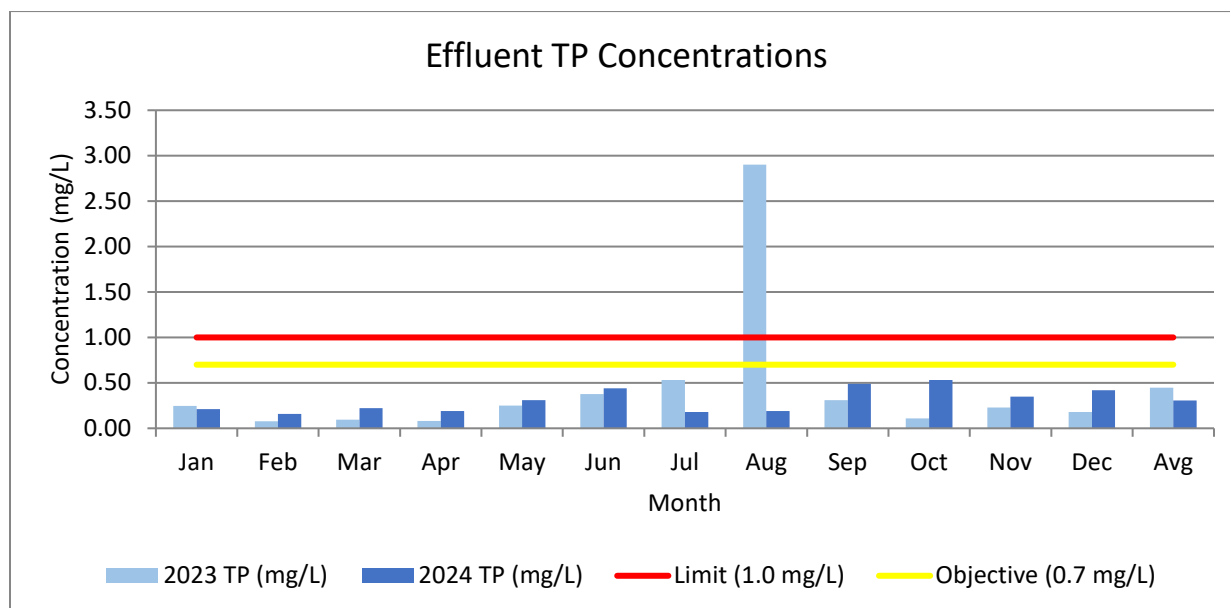


Figure 16: Effluent TP Concentrations

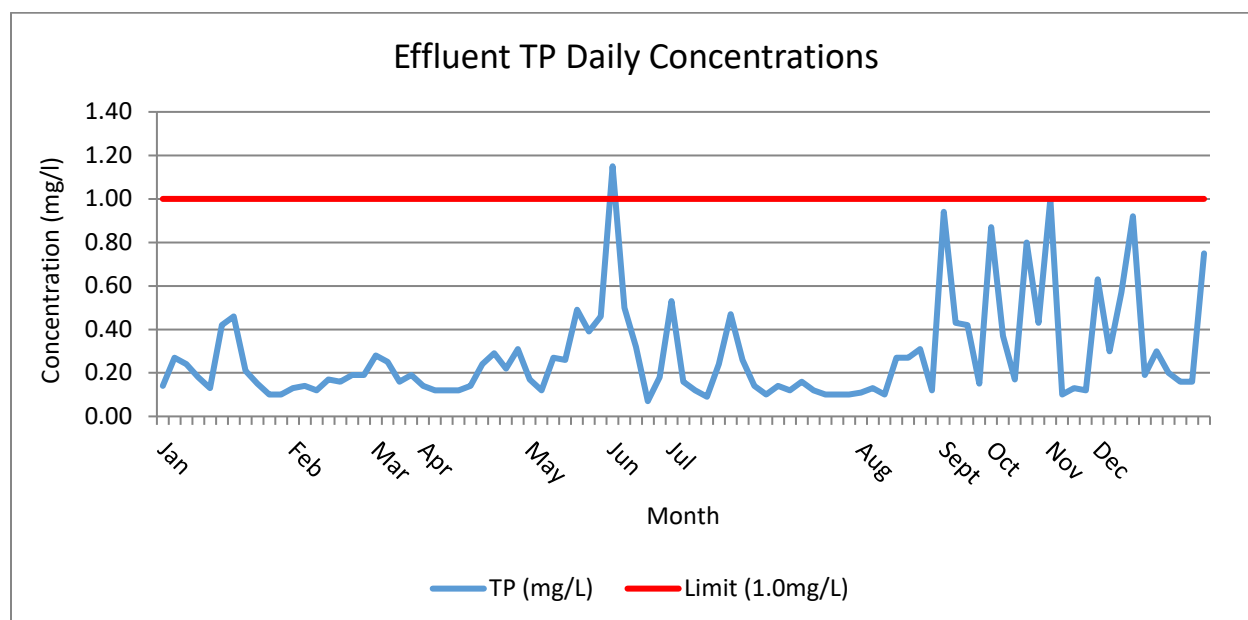


Figure 17: Effluent Single Sample TP Concentrations

Total Ammonia Nitrogen

The average monthly effluent Total Ammonia Nitrogen (TAN) in 2024 was 0.12 mg/L, which is a 95 % decrease from the annual average in 2023. The large decrease in average effluent TAN concentrations between 2023 and 2024 is a result of the aeration system's diffuser replacement that occurred in 2023.

After completing the aeration upgrades in fall of 2023, effluent TAN concentrations decreased to levels typically seen during normal treatment process operation. There were no monthly or daily average concentration objective or limit exceedances in 2024. Refer to Figure 18 for a comparison of 2024 monthly effluent TAN concentrations to 2023 concentrations. Refer to Figure 19 for the single sample concentrations compared to the exceedance limit.

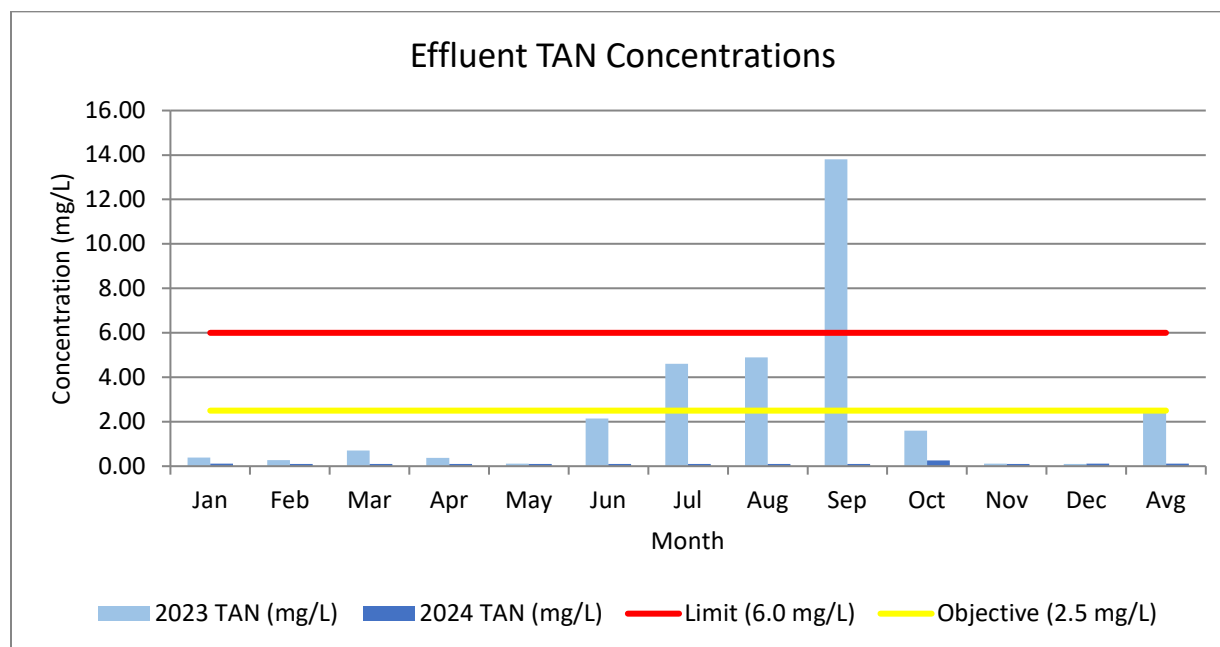


Figure 18: Effluent TAN Concentrations

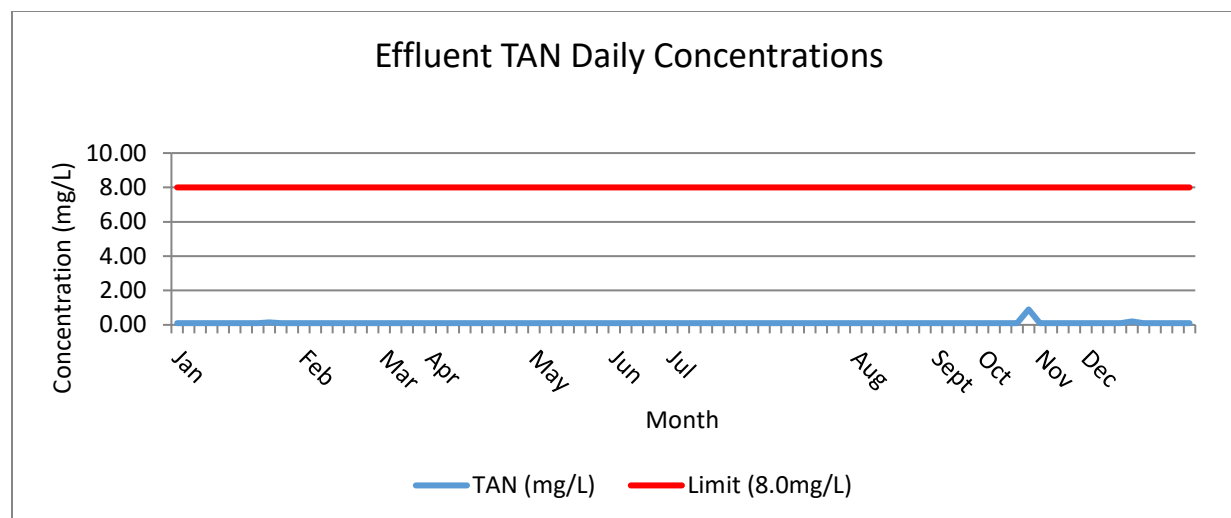


Figure 19: Effluent Single Sample TAN Concentrations

E.coli

The monthly geometric mean effluent *E. coli* concentration in 2024 was 6.6 cfu/100mL, which is a 51 % decrease from the annual average in 2023. There were no objective or limit exceedances in 2024. Refer

to Figure 20 for a comparison of 2024 monthly effluent geometric mean *E. coli* concentrations to 2023 concentrations.

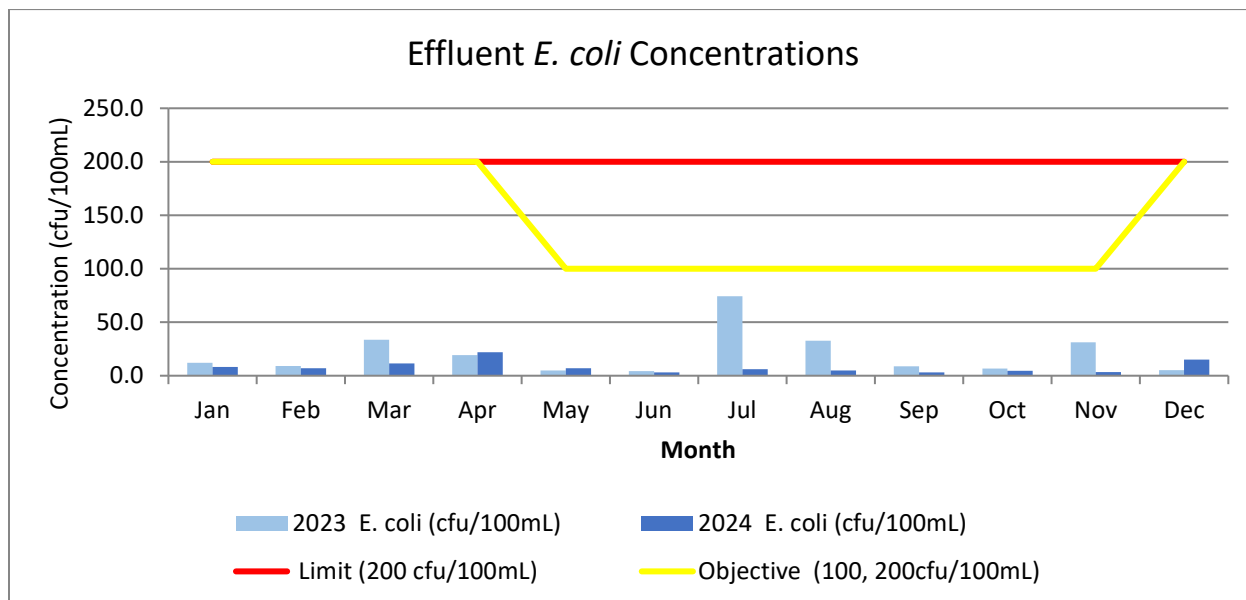


Figure 20: Effluent *E. coli* Concentrations

pH

The monthly average pH value in 2024 was 7.5. There were no objective or limit exceedances in 2024. Refer to Figure 21 for a comparison of 2024 monthly effluent pH values to the objectives and limits.

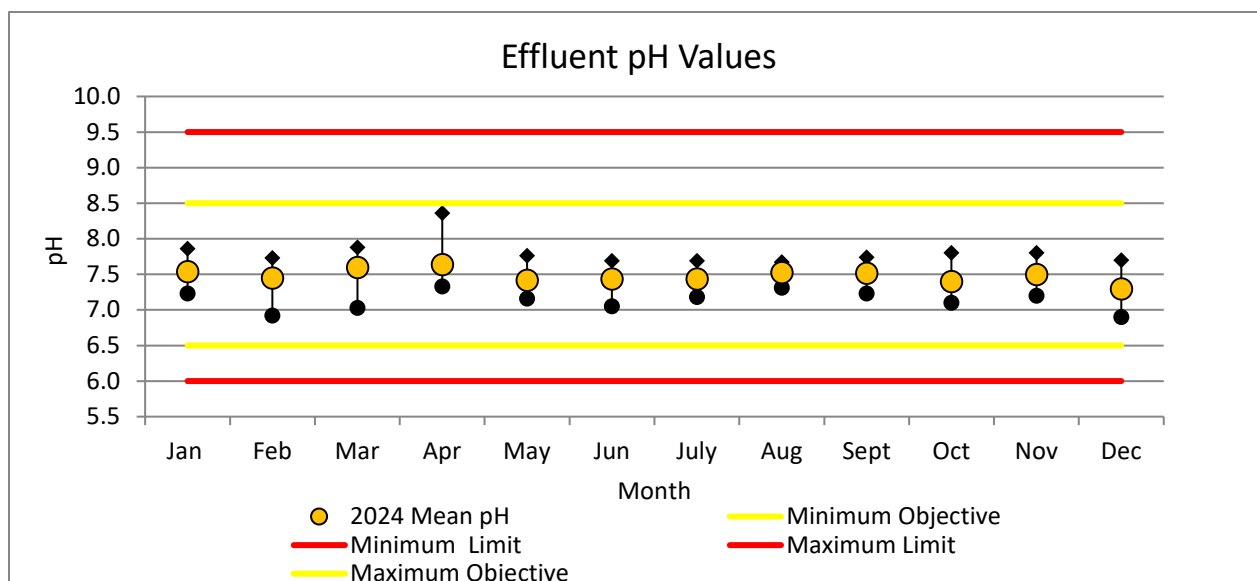


Figure 21: Effluent pH Values

Dissolved Oxygen

The monthly average Dissolved Oxygen (D.O.) concentration in 2024 was 7.4 mg/L. There were no objective exceedances in 2024. Refer to Figure 22 for a comparison of 2024 monthly effluent D.O. concentrations to the objective and limits.

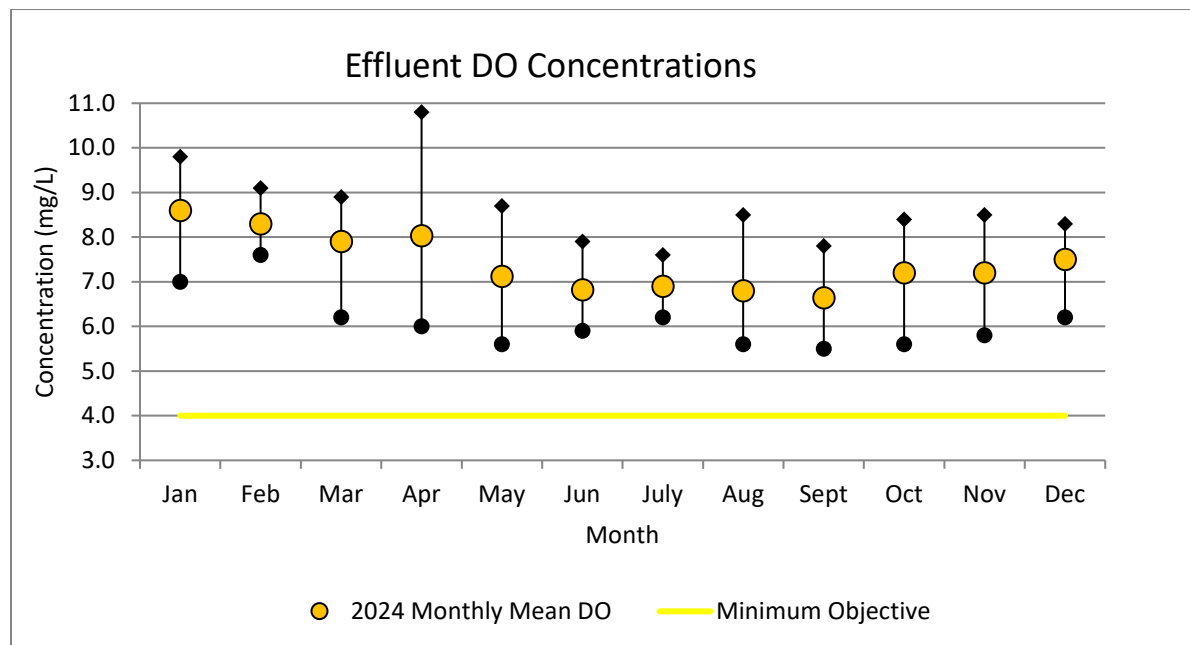


Figure 22: Effluent DO Concentrations

Deviations from Monitoring Schedule

Deviations from the 2024 sample calendar are outlined in Table 4. Refer to Appendix B for the 2025 sampling schedule.

Table 4: Summary of Deviations from Monitoring Schedule

Scheduled Date	Collected Date	Reason for Deviation
January 2, 2024	January 1, 2024	Weekly samples moved due to scheduling issue
April 15, 2024	April 16, 2024	Quarterly samples moved due to facility issue/scheduling conflict
June 3, 2024	June 4, 2024	Weekly samples moved due to facility issue/scheduling conflict
September 30, 2024	October 1, 2024	Weekly samples moved due to September 30 th Stat holiday
October 7, 2024	October 8, 2024	Monthly sludge samples moved due to facility issue/scheduling conflict

Operating Problems & Corrective Actions

In 2024, high plant flow conditions, caused by frequent wet weather events, created challenges in meeting the monthly average final effluent total suspended solids objective. In addition to high flow volumes, foaming issues experienced early in 2024, following the 2023 aeration system upgrades, collection system loading by industrial contributors, and the start of a grit removal system upgrade project at the WWTP in late September also contributed to total suspended solids objective exceedances in 2024. The MECP was provided advance notice of the grit removal flow meter bypass and granted permission under the letter dated May 30, 2024. Refer to Appendix C for forms and notices of Modifications to Sewage Works for more information on modifications performed during the grit removal upgrade.

Phosphorus loading from industrial contributors contributed to a single-sample daily average total phosphorus exceedance during 2024. The collection system is routinely monitored by the Town of St. Marys to identify trends or areas of concern which can be addressed through bylaw enforcement. Operational staff continue to carefully monitor the treatment process and made process adjustments to mitigate impacts of increased solids and phosphorus loading on plant performance. For more information on the contributing factors to the monthly average TSS objective, and single sample TP limit exceedances, refer to ***Summary of Efforts Made to Achieve Design Objectives***.

Capital and major maintenance recommendations have been submitted by OCWA to the Town of St. Marys to address aging infrastructure and ongoing maintenance requirements for the collection system and WWTP to continue to produce high quality effluent. Items included on the list, and subject to budget approval by the Town for 2025 are:

- General WWTP repairs
- Motor replacement contingencies
- Admin building HVAC repairs
- Annual boiler service/maintenance
- Spare chemical metering pumps
- UV servicing, lamp and ballast replacements
- Clarifier chamber clean out
- Annual blower maintenance
- SCADA upgrades and replacement parts
- Weir replacements on clarifiers 3 and 4
- Gas boiler removal and building heater additions/replacement
- Internal recirculation pump rebuild
- Replacement RAS flow meter
- Industrial auto sampler maintenance/replacement parts
- Anoxic tank clean out (due to grit removal bypass during upgrades)
- Muffin monster pump (Lystek building) service and replacement parts
- WAS pump 2 VFD service/replacement parts

Maintenance Activities

Preventative and corrective maintenance is assigned and monitored within the Workplace Management System (WMS) program. Refer to Appendix D for the 2024 maintenance summary. Refer to Table 5 for a list of repairs and replacements that took place in 2024.

Table 5: Major Maintenance

Major Maintenance Wastewater
Lystek sludge loading pump repairs
Replace RAS pump #5
Replace centrifuge feed rotary lobe pump
Replace final effluent flow meter
Bar Screen repairs
Lystek VFD replacements
Annual Lystek and gas boiler inspections and maintenance
Replace gas boiler autoflame controller
Overhaul Lystek centrifuge decanter
Replacement yard hydrant and aeration sprayer submersible feed pump and motor
Replaced rotating drum thickener solenoid valve
Removed faulty low level float from TWAS tank
Replaced faulty auger selector switch
Replace Lystek feed pump motor
Sludge storage tank clean out
Grit removal system upgrades
Replace main breaker at WPCP
Major Maintenance Wastewater Collection
Robinson St SPS pump rebuilds and upgrades
Emily St. SPS pump refurbishment and upgrades
Queen St. SPS rebuilds and upgrades
Replace faulty pump hour meter at Robinson St. SPS
Emily St. Pump #1 rebuild
Investigate collection system for blockage on Valleyview Lane

Effluent Quality Assurance

Effluent quality assurance is evaluated by monitoring parameters and changes throughout the facilities processes. Operational staff monitor plant performance by performing in-house laboratory analyses during the business week on; raw sewage, mixed liquor, and effluent. Mixed liquor and effluent tests include dissolved oxygen, pH, temperature, 30-minute settling tests, and Mixed Liquor Suspended Solids (MLSS). Chemical dosages and wasting volumes are also monitored and recorded. 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.

Calibration Records

Pulsar Measurement calibrated the final effluent flow meter, following its replacement, on April 24th, 2024. Influent and effluent flow meters were calibrated by Pierce Services & Solutions Inc. on June 27th & 28th, 2024. The flow meters met the accuracy tolerance of $\pm 15\%$ of the actual flow rate. Imported sewage volumes are calculated utilising the haul truck manifests. All in-house flow meters and level sensors, and all Pump Station Level Transmitters were also calibrated on June 27th and 28th by Pierce Services & Solutions Inc., in accordance with manufactures instructions. Dissolved Oxygen Sensor probes were calibrated by Cancoppas Limited on October 24th, 2024 and found to be accurate to within ± 0.3 mg/L. Gas detectors for methane, hydrogen sulfide, and O₂ at the wastewater plant were calibrated by HETEK on December 5, 2024. Operational staff complete routine pH meter calibrations and verifications. Refer to Appendix E for records of third party calibrations performed in 2024.

Summary of Efforts Made to Achieve Design Objectives

The St. Marys WWTP experienced four (4) monthly average TSS objective exceedances, which did not result in a limit exceedance, in 2024. Average daily flows that exceed the WWTP's design capacity can be caused by either precipitation or snowmelt. Flows beyond the design capacity can carry more solids through the WWTP and were a significant contributing factor in all TSS objective exceedances in 2024. The ECA# 6378-CB3M2T, issued on July 27, 2022 requires additional daily final effluent sampling when the WWTP is operated outside of normal conditions, including when daily flows are over the design capacity, and these samples are included with the normal operating condition final effluent results.

There were a total of 37 samples collected in 2024 due to flows exceeding the WWTP's design capacity, with an additional 52 regular weekly final effluent samples collected in 2024. Overcapacity samples, therefore, represent 42% of all final effluent samples collected during 2024. The significant fraction of over capacity samples collected during 2024 has resulted in an over-representation of outside of normal operating conditions in the 2024 final effluent results. When operating outside of normal operating conditions, the WWTP's treatment process may not operate as efficiently as when the plant is operating under normal conditions. Over-representation of samples collected during times the treatment processes may not be operating at optimum efficiency has resulted in an increased annual average TSS value, despite an overall improvement in raw influent quality.

Solids loading in the collection system by industrial contributors is an additional contributing factor to TSS objective exceedances in 2024. A grit removal upgrade was commenced in September and involved a bypass of the existing grit removal system while the work is completed. The bypass increased the solids loading on the downstream treatment processes and contributed, along with the previously mentioned factors, to a monthly average TSS objective exceedance in December.

Operators closely monitored plant performance during high flow conditions to make process and flow adjustments to ensure optimal treatment performance is maintained at all possible times. There were no single sample daily average TSS limit exceedances in 2024.

There was one total phosphorus single sample limit exceedance in 2024. Operators closely monitored plant performance and made the appropriate process adjustments to correct the TP exceedance. In-house phosphorus testing conducted at the WWTP found improvements in effluent TP concentrations within 24-hours. The short duration of the spike indicates collection system loading from industrial

contributors was the probable cause of the exceedance. Refer to Table 6 for a summary of monthly average objective exceedances. Refer to Table 7 for a summary of single sample limit exceedances.

Despite the WWTP's design objective exceedances during 2024, there were no parameters that exceeded objectives more than 50% of the time and no trends indicating deteriorating effluent quality were observed. The average plant flow volumes have exceeded 80% of the plant's design capacity, reaching 83% in 2024, however, none of the objective or limit exceedances in that year were due to hydraulic loading experienced during normal operating conditions. Objective and limit exceedances in 2024 were due to precipitation/snowmelt creating flows beyond the plant's design capacity, industrial loading, and WWTP maintenance/upgrade projects.

Table 6: Monthly average exceedances

Date	Parameter	Concentration (mg/L)	Objective (mg/L)	Issue & Actions Taken
Jan-2024	TSS	13.8	10	High flows due to wet weather
Feb-2024	TSS	12.8	10	High flows due to wet weather
Mar-2024	TSS	13.8	10	High flows due to wet weather
Dec-2024	TSS	11.8	10	High flows due to wet weather

Table 7: Single sample exceedances

Date	Parameter	Concentration (mg/L)	Objective	Limit (mg/L)	Issue & Actions Taken
04-June-2024	TP	1.15	N/A	1.0	Industrial loading

Notice of Modification to the Works & Purposed Works

Alterations to the Wastewater Treatment Plant

The Grit Removal Upgrade project listed in the proposed works within ECA#6378-CB2M2T (Issued July 27, 2022) began in September of 2024. Communication and notifications were submitted to the MECP as required prior to the start of the project. Regular progress updates and notices of outside of normal operating conditions at the WWTP continue to be submitted to the MECP on a regular basis throughout the construction process. The works are scheduled to be completed in March 2025. Refer to Appendix C for the Revised Construction Schedule, dated March, 2025.

Alterations to the Collection System

Upgrades and refurbishments to the Emily St. SPS, Queen St. SPS, and Robinson St. SPS were completed during 2024. The upgrades included:

- Rebuilding Emily St. SPS submersible pump and replacement of float control switches with an ultrasonic transducer and adding Verbatim autodialer.
- Replacement of Queen St. SPS, submersible pumps, piping, and instrumentation controls and Verbatim autodialer.

- Replacment of Robinson St. SPS submersible pump, pump control panel and adding Verbatim autodialer.

Refer to Appendix C for the Record of Future Alteration Authorized for Components of the Municipal Sewage Collection System, dated November, 2023.

Sludge Generation & Haulage

Lystek International Inc. and the Town of St. Marys have an agreement for marketing and management of the LysteGro fertilizer produced from the facility. Biosolids produced at the St. Marys WWTP are from the Lystek System which results in a federally registered fertilizer product with the Canadian Food Inspection Agency (CFIA). As such, the material is applied as a fertilizer, where the rate of application is based on soil characteristics and crop requirements.

The 2024 application season was successful, as the Biosolids produced by the St. Marys WWTP was marketed effectively and applied responsibly as a fertilizer. The 2024 Lystek report identifies 2,753 m³ of product and was produced and applied as fertilizer, based on agronomics and best management practices. There is a strong and growing market for the Biosolids produced by the St. Marys WWTP. To date, the Town of St. Marys has produced approximately 25,469 m³ of fertilizer from Biosolids, with an estimated 2,700 m³ of Biosolids expected to be produced in 2025.

Complaints

There were no complaints received for the St. Marys WPCP and collection system in 2024.

Bypass, Overflows, Spills & Abnormal Discharge Events

Wastewater Treatment Plant

The ECA issued on July 27, 2022 requires additional daily sampling for the WWTP when the plant is operated outside of normal operating conditions. Results are included in final effluent monthly as seen in effluent results. Refer to Figure 23 for the number of days each month where the WWTP operated outside its normal operating conditions, all of which were due to precipitation events. Refer to Table 8 for a summary of all Outside Normal Operating Conditions events in 2024.

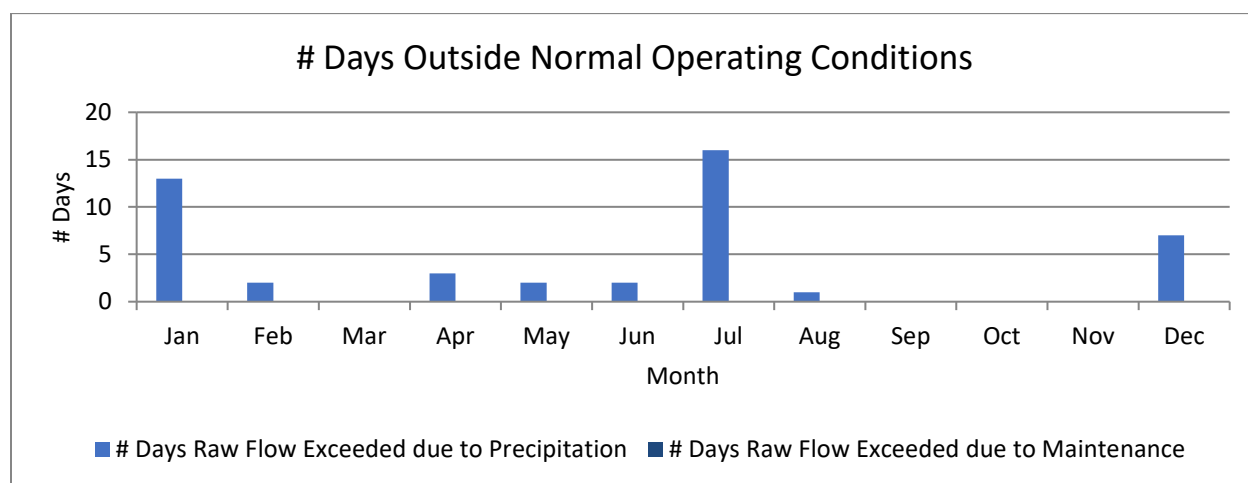


Figure 23: Number of Outside Normal Operating Condition Days per Month

Table 8: Summary of Outside Normal Operating Conditions Events

Date	Event Description	Date	Event Description
January 10, 2024	High flow, over capacity	June 21, 2024	High flow, over capacity
January 11, 2024	High flow, over capacity	June 24, 2024	High flow, over capacity
January 12, 2024	High flow, over capacity	July 12, 2024	High flow, over capacity
January 14, 2024	High flow, over capacity	July 13, 2024	High flow, over capacity
January 17, 2024	High flow, over capacity	July 14, 2024	High flow, over capacity
January 18, 2024	High flow, over capacity	July 18, 2024	High flow, over capacity
January 25, 2024	High flow, over capacity	July 21, 2024	High flow, over capacity
January 26, 2024	High flow, over capacity	July 23, 2024	High flow, over capacity
January 27, 2024	High flow, over capacity	July 24, 2024	High flow, over capacity
January 30, 2024	High flow, over capacity	July 25, 2024	High flow, over capacity
January 31, 2024	High flow, over capacity	July 26, 2024	High flow, over capacity
February 1, 2024	High flow, over capacity	August 1, 2024	High flow, over capacity
February 2, 2024	High flow, over capacity	August 2, 2024	High flow, over capacity
February 4, 2024	High flow, over capacity	August 4, 2024	High flow, over capacity
April 13, 2024	High flow, over capacity	December 10, 2024	High flow, over capacity
April 14, 2024	High flow, over capacity	December 11, 2024	High flow, over capacity
April 16, 2024	High flow, over capacity	December 12, 2024	High flow, over capacity
April 17, 2024	High flow, over capacity	December 19, 2024	High flow, over capacity
May 29, 2024	High flow, over capacity	December 20, 2024	High flow, over capacity
May 30, 2024	High flow, over capacity	December 22, 2024	High flow, over capacity
June 20, 2024	High flow, over capacity		

Collection System

During a heavy rainfall event on July 16th, 2024, the Robinson St. Sewage Pumping Station (SPS) was overwhelmed by high inflows, resulting in a spill of approximately 7.8 m³ (incident Reference #: 1-8ZTIB5). All regulatory notifications were made to the MECP and Huron Perth Public Health Unit. The spilled contents were directed to the outfall of the SPS before entering the Thames River. Due to the high volume of flow within the receiving stream and the small volume of spilled material, no adverse effects to the natural environment were observed.

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

The Town of St. Marys is 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 and one at the treatment plant for the protection against basement flooding, damage to equipment/property and prevention of treatment process wash out. No overflows or bypasses have occurred in 2024, therefore no projects were completed in 2024 or planned for 2025 as there is no need to under take an overflow/bypass overall reduction or elimination.

Appendix A

Influent & Effluent Data

5520 ST MARYS WASTEWATER TREATMENT FACILITY 110001275

	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 m³/d	179,273.00	130,182.00	141,767.00	141,145.00	135,445.00	135,831.00	191,280.00	133,283.00	112,409.00	126,855.00	118,055.00	149,248.00	1,694,773.00			0.00
Raw Flow: Avg - Raw Sewage m³/d	5,783.00	4,489.03	4,573.13	4,704.83	4,369.19	4,527.70	6,170.32	4,299.45	3,746.97	4,092.10	3,935.17	4,814.45		4,630.53		5,560.00
Raw Flow: Max - Raw Sewage m³/d	11,383.00	6,023.00	5,484.00	6,756.00	6,066.00	9,971.00	13,119.00	5,935.00	4,657.00	4,965.00	4,459.00	7,314.00			13,119.00	0.00
Raw Flow: Count - Raw Sewage m³/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 m³/d	189,397.00	108,728.00	127,733.00	353,513.00	176,098.00	142,963.00	194,812.00	153,218.00	121,116.00	126,855.00	118,055.00	149,248.00	1,961,736.00			0.00
Eff. Flow: Avg - Final Effluent m³/d	6,109.58	3,749.24	4,120.42	11,783.77	5,680.58	4,765.43	6,284.26	4,942.52	4,037.20	4,092.10	3,935.17	4,814.45		5,359.93		
Eff. Flow: Max - Final Effluent m³/d	19,976.00	7,887.00	6,961.00	19,039.00	7,571.00	6,014.00	14,000.00	6,353.00	4,657.00	4,965.00	4,459.00	7,314.00			19,976.00	0.00
Eff Flow: Count - Final Effluent m³/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
Biochemical Oxygen Demand: BOD5																
Raw: Avg BOD5 - Raw Sewage mg/L	232.80	243.75	235.50	200.40	> 306.25	320.50	216.60	274.50	336.00	304.60	256.00	324.60		270.96	336.00	0.00
Raw: # of samples of BOD5 - Raw Sewage mg/L	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	53.00			0.00
Carbonaceous Biochemical Oxygen Demand: CBOD																
Eff: Avg cBOD5 - Final Effluent including Bypass mg/L	< 5.58	< 5.29	< 5.75	< 4.11	< 4.86	< 3.40	< 3.88	< 4.29	< 4.25	< 4.00	< 4.00	< 4.80		< 4.53	< 5.75	15.00
Eff: # of samples of cBOD5 - Final Effluent including Bypass mg/L	12.00	7.00	4.00	9.00	7.00	5.00	16.00	7.00	4.00	5.00	4.00	10.00	90.00			0.00
Loading: cBOD5 - Final Effluent including Bypass kg/d	< 34.112	< 19.817	< 23.692	< 48.444	< 27.591	< 16.202	< 24.352	< 21.182	< 17.158	< 16.368	< 15.741	< 23.109		< 24.30	< 48.44	
Total Suspended Solids: TSS																
Raw: Avg TSS - Raw Sewage mg/L	283.40	231.25	258.00	204.00	224.00	272.00	256.80	283.75	241.00	281.20	244.75	202.20		248.53	283.75	0.00
Raw: # of samples of TSS - Raw Sewage mg/L	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	53.00			0.00
Eff: Avg TSS - Final Effluent including Bypass mg/L	13.75	12.29	13.75	8.67	9.14	7.00	6.00	4.86	7.25	8.60	6.25	11.80		9.20		15.00
Eff: # of samples of TSS - Final Effluent including Bypass mg/L	12.00	7.00	4.00	9.00	7.00	5.00	16.00	7.00	4.00	5.00	4.00	10.00	90.00			0.00
Loading: TSS - Final Effluent including Bypass kg/d	84.007	46.062	56.656	102.126	51.937	33.358	37.706	24.007	29.270	35.192	24.595	56.811		49.31	102.13	
Total Phosphorus: TP																
Raw: Avg TP - Raw Sewage mg/L	3.15	3.17	3.15	3.45	3.37	3.11	3.45	3.16	4.37	3.94	3.78	2.64		3.40	4.37	0.00
Raw: # of samples of TP - Raw Sewage mg/L	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	53.00			0.00
Eff: Avg TP - Final Effluent including Bypass mg/L	0.21	0.16	0.22	0.19	0.31	0.44	0.18	0.19	0.49	0.53	0.35	0.42		0.28	0.53	1.00
Eff: # of samples of TP - Final Effluent including Bypass mg/L	12.00	7.00	4.00	9.00	7.00	5.00	16.00	7.00	4.00	5.00	4.00	10.00	90.00			0.00
Loading: TP - Final Effluent including Bypass kg/d	1.293	0.589	0.906	2.226	1.753	2.116	1.159	0.925	1.958	2.161	1.358	2.012		1.54	2.23	
Nitrogen Series																
Raw: Avg TKN - Raw Sewage mg/L	26.14	25.48	25.20	23.92	26.78	27.10	24.64	26.75	32.18	34.44	33.78	27.66		27.84	34.44	0.00

From 1/1/2024 to 12/31/2024

Raw: # of samples of TKN - Raw Sewage mg/L			5.00			4.00			4.00			5.00			4.00			4.00			5.00			4.00			4.00			5.00			4.00			5.00	53.00				0.00	
Eff: Avg TAN - Final Effluent including Bypass mg/L	<		0.11	<		0.10	<		0.10	<		0.10	<		0.10	<		0.10			0.26	<		0.10	<		0.11		<	0.11	<	0.26					<	0.11	<	0.26	6.00	
Eff: # of samples of TAN - Final Effluent including Bypass mg/L			12.00			7.00			4.00			9.00			7.00			5.00			16.00			7.00			4.00			5.00			4.00			10.00	90.00				0.00	
Loading: TAN - Final Effluent including Bypass kg/d	<		0.662	<		0.375	<		0.412	<		1.178	<		0.568	<		0.477	<		0.628	<		0.494	<		0.404			1.064	<		0.394	<		0.530		<	0.60	<	1.18	
Eff: Avg NO3-N - Final Effluent mg/L			6.55			7.64			8.67			7.07			6.73			7.45			5.83			6.09			6.57			7.26			7.36			6.88			7.01	8.67	0.00	
Eff: # of samples of NO3-N - Final Effluent mg/L			12.00			7.00			4.00			9.00			7.00			5.00			16.00			7.00			4.00			5.00			4.00			10.00	90.00				0.00	
Eff: Avg NO2-N - Final Effluent mg/L	<		0.09	<		0.11	<		0.04	<		0.09	<		0.03	<		0.08	<		0.06	<		0.18	<		0.17	<		0.37	<		0.23	<		0.15		<	0.13	<	0.37	0.00
Eff: # of samples of NO2-N - Final Effluent mg/L			12.00			7.00			4.00			9.00			7.00			5.00			16.00			7.00			4.00			5.00			4.00			10.00	90.00				0.00	
Disinfection																																										
Eff: GMD E. Coli - Final Effluent cfu/100mL			8.10			7.07			11.54			21.98			6.85			2.99			6.04			4.76			3.13			4.59			3.46			14.97				200.00		
Eff: # of samples of E. Coli - Final Effluent cfu/100mL			5.00			4.00			4.00			5.00			4.00			4.00			5.00			4.00			4.00			5.00			4.00			5.00	53.00				0.00	

Appendix B

Sampling Schedule

 Ontario Clean Water Agency	Sample Schedule 2025 St. Marys WPCP	Rev. Date: 2024-10-10 Rev.#: 5 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 Final & Raw ☐ Effl bacti ☐ Sludge ☐ Industrial ☐	8	9	10	11
12	13	14 Final & Raw ☐ Effl bacti ☐ Final – Quarterly ☐	15 Industrial ☐ Acute Lethality ☐	16	17	18
19	20	21 Final & Raw ☐ Effl bacti ☐	22	23 Industrial ☐	24	25
26	27	28 Final & Raw ☐ Effl bacti ☐ Industrial ☐	29	30	31	

Weekly Raw Samples: Weekly Effluent Samples: Effluent O.C (Outside Normal Conditions): Quarterly Sludge Sample: Quarterly Effluent (Leachate): Biannual Lystek Sample: Annual Effluent: Industrial Samples:	Composite (BOD5, TSS, TP, TKN) Composite (cBOD5, SS,TP, Alk.,TKN, TAN, NO2+NO3, Uni.) Grab (E. coli) Composite (cBOD5, SS,TP, TAN, NO2+NO3, Uni.) Grab Stored Sludge (TSS,N, HG,AS,CD, CO, CR, CU, K, MO, NI, TP, PB,SE, ZN, TKN, TAN, E.col Grab (Boron, Cobalt, Magnesium, Manganese, Potassium, Strontium, Phenols, bis (2-ethylhexyl) Phthalate) Grab (PFAS) Acute lethality for Rainbow Trout Composite (TBOD, Soluble BOD, O&G, TP, Soluble P, TSS)
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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
2022-12-09	0	Create Template	Cindy Sigurdson
2023-08-17	1	Create 2023 Sampling Calendar	Lisa Benoit
2023-12-11	2	Added samples for Aug-Nov for aeration project	Stephanie Simpson
2024-07-29	3	Create 2024 Sampling Calendar	Lisa Benoit
2024-10-10	4	Added Lystek PFAS (6m)	Stephanie Simpson
	5	Create 2025 Sampling Calendar	Lisa Benoit

 Ontario Clean Water Agency	Sample Schedule 2025 St. Marys WPCP	Rev. Date: 2024-10-10 Rev.#: 5 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 Final & Raw ☐ Effl bacti ☐ Lystek (PFAS) ☐	5 Industrial ☐	6	7	8
9	10	11 Final & Raw ☐ Effl bacti ☐	12	13 Industrial ☐	14	15
16	17 STAT	18 Final & Raw ☐ Effl bacti ☐	19 Industrial ☐	20	21	22
23	24	25 Final & Raw ☐ Effl bacti ☐	26 Industrial ☐	27	28	

Weekly Raw Samples: Weekly Effluent Samples: Effluent O.C (Outside Normal Conditions): Quarterly Sludge Sample: Quarterly Effluent (Leachate): Biannual Lystek Sample: Annual Effluent: Industrial Samples:	Composite (BOD5, TSS, TP, TKN) Composite (cBOD5, SS,TP, Alk.,TKN, TAN, NO2+NO3, Uni.) Grab (E. coli) Composite (cBOD5, SS,TP, TAN, NO2+NO3, Uni.) Grab Stored Sludge (TSS,N, HG,AS,CD, CO, CR, CU, K, MO, NI, TP, PB,SE, ZN, TKN, TAN, E.col Grab (Boron, Cobalt, Magnesium, Manganese, Potassium, Strontium, Phenols, bis (2-ethylhexyl) Phthalate) Grab (PFAS) Acute lethality for Rainbow Trout Composite (TBOD, Soluble BOD, O&G, TP, Soluble P, TSS)
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 Ontario Clean Water Agency	Sample Schedule 2025 St. Marys WPCP	Rev. Date: 2024-10-10 Rev.#: 5 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 Final & Raw ☐ Effl bacti ☐	5	6 Industrial ☐	7	8	
9	10	11 Final & Raw ☐ Effl bacti ☐ Industrial ☐	12	13	14	15	
16	17	18 Final & Raw ☐ Effl bacti ☐	19 Industrial ☐	20	21	22	
23	24	25 Final & Raw ☐ Effl bacti ☐	26	27 Industrial ☐	28	29	
30	31						

Weekly Raw Samples: Weekly Effluent Samples: Effluent O.C (Outside Normal Conditions): Quarterly Sludge Sample: Quarterly Effluent (Leachate): Biannual Lystek Sample: Annual Effluent: Industrial Samples:	Composite (BOD5, TSS, TP, TKN) Composite (cBOD5, SS,TP, Alk.,TKN, TAN, NO2+NO3, Uni.) Grab (E. coli) Composite (cBOD5, SS,TP, TAN, NO2+NO3, Uni.) Grab Stored Sludge (TSS,N, HG,AS,CD, CO, CR, CU, K, MO, NI, TP, PB,SE, ZN, TKN, TAN, E.col Grab (Boron, Cobalt, Magnesium, Manganese, Potassium, Strontium, Phenols, bis (2-ethylhexyl) Phthalate) Grab (PFAS) Acute lethality for Rainbow Trout Composite (TBOD, Soluble BOD, O&G, TP, Soluble P, TSS)
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QEMS Ontario Clean Water Agency	Sample Schedule 2025 St. Marys WPCP	Rev. Date: 2024-10-10 Rev.#: 5 Pages: 4 of 12
Reviewed by: QEMS Representative		Approved by: Operations Management

◀ March	April 2025					May ▶
Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1 Final & Raw ☐ Effl bacti ☐ Sludge ☐ Industrial ☐	2	3	4	5
6	7	8 Final & Raw ☐ Effl bacti ☐	9 Industrial ☐	10	11	12
13	14	15 Final & Raw ☐ Effl bacti ☐ Final –Quarterly ☐	16	17 Industrial ☐	18 STAT	19
20	21 STAT	22 Final & Raw ☐ Effl bacti ☐ Industrial ☐	23	24	25	26
27	28	29 Final & Raw ☐ Effl bacti ☐	30 Industrial ☐			

Weekly Raw Samples:
Weekly Effluent Samples:
Effluent O.C (Outside Normal Conditions):
Quarterly Sludge Sample:
Quarterly Effluent (Leachate):
Biannual Lystek Sample:
Annual Effluent:
Industrial Samples:

Composite (BOD5, TSS, TP, TKN)
Composite (cBOD5, SS,TP, Alk.,TKN, TAN, NO2+NO3, Uni.) Grab (E. coli)
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Grab Stored Sludge (TSS,N, HG,AS,CD, CO, CR, CU, K, MO, NI, TP, PB,SE, ZN, TKN, TAN, E.col
Grab (Boron, Cobalt, Magnesium, Manganese, Potassium, Strontium, Phenols, bis (2-ethylhexyl) Phthalate)
Grab (PFAS)
Acute lethality for Rainbow Trout
Composite (TBOD, Soluble BOD, O&G, TP, Soluble P, TSS)

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

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 Ontario Clean Water Agency	Sample Schedule 2025 St. Marys WPCP	Rev. Date: 2024-10-10 Rev.#: 5 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 Final & Raw ☐ Effl bacti ☐	7	8 Industrial ☐	9	10
11	12	13 Final & Raw ☐ Effl bacti ☐ Industrial ☐	14	15	16	17
18	19 STAT	20 Final & Raw ☐ Effl bacti ☐	21 Industrial ☐	22	23	24
25	26	27 Final & Raw ☐ Effl bacti ☐	28	29 Industrial ☐	30	31

Weekly Raw Samples:
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Composite (TBOD, Soluble BOD, O&G, TP, Soluble P, TSS)

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◀ May	June 2025					July ▶
Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3 Final & Raw ☐ Effl bacti ☐ Industrial ☐	4	5	6	7
8	9	10 Final & Raw ☐ Effl bacti ☐	11 Industrial ☐	12	13	14
15	16	17 Final & Raw ☐ Effl bacti ☐	18	19 Industrial ☐	20	21
22	23	24 Final & Raw ☐ Effl bacti ☐ Industrial ☐	25	26	27	28
29	30					

Weekly Raw Samples: Weekly Effluent Samples: Effluent O.C (Outside Normal Conditions): Quarterly Sludge Sample: Quarterly Effluent (Leachate): Biannual Lystek Sample: Annual Effluent: Industrial Samples:	Composite (BOD5, TSS, TP, TKN) Composite (cBOD5, SS,TP, Alk.,TKN, TAN, NO2+NO3, Uni.) Grab (E. coli) Composite (cBOD5, SS,TP, TAN, NO2+NO3, Uni.) Grab Stored Sludge (TSS,N, HG,AS,CD, CO, CR, CU, K, MO, NI, TP, PB,SE, ZN, TKN, TAN, E.col Grab (Boron, Cobalt, Magnesium, Manganese, Potassium, Strontium, Phenols, bis (2-ethylhexyl) Phthalate) Grab (PFAS) Acute lethality for Rainbow Trout Composite (TBOD, Soluble BOD, O&G, TP, Soluble P, TSS)
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◀ June	July 2025					August ▶
Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1 STAT	2 Final & Raw ☐ Effl bacti ☐ Sludge ☐	3 Industrial ☐	4	5
6	7	8 Final & Raw ☐ Effl bacti ☐ Sludge ☐ Final-Quarterly ☐	9	10 Industrial ☐	11	12
13	14	15 Final & Raw ☐ Effl bacti ☐ Industrial ☐	16	17	18	19
20	21	22 Final & Raw ☐ Effl bacti ☐	23 Industrial ☐	24	25	26
27	28	29 Final & Raw ☐ Effl bacti ☐	30	31 Industrial ☐		

Weekly Raw Samples: Weekly Effluent Samples: Effluent O.C (Outside Normal Conditions): Quarterly Sludge Sample: Quarterly Effluent (Leachate): Biannual Lystek Sample: Annual Effluent: Industrial Samples:	Composite (BOD5, TSS, TP, TKN) Composite (cBOD5, SS,TP, Alk.,TKN, TAN, NO2+NO3, Uni.) Grab (E. coli) Composite (cBOD5, SS,TP, TAN, NO2+NO3, Uni.) Grab Stored Sludge (TSS,N, HG,AS,CD, CO, CR, CU, K, MO, NI, TP, PB,SE, ZN, TKN, TAN, E.col Grab (Boron, Cobalt, Magnesium, Manganese, Potassium, Strontium, Phenols, bis (2-ethylhexyl) Phthalate) Grab (PFAS) Acute lethality for Rainbow Trout Composite (TBOD, Soluble BOD, O&G, TP, Soluble P, TSS)
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◀ July	August 2025					September ▶
Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3	4 STAT	5 Final & Raw ☐ Effl bacti ☐ Lystek (PFAS) ☐ Industrial ☐	6	7	8	9
10	11	12 Final & Raw ☐ Effl bacti ☐	13 Industrial ☐	14	15	16
17	18	19 Final & Raw ☐ Effl bacti ☐	20	21 Industrial ☐	22	23
24 31	25	26 Final & Raw ☐ Effl bacti ☐ Industrial ☐	27	28	29	30

Weekly Raw Samples: Weekly Effluent Samples: Effluent O.C (Outside Normal Conditions): Quarterly Sludge Sample: Quarterly Effluent (Leachate): Biannual Lystek Sample: Annual Effluent: Industrial Samples:	Composite (BOD5, TSS, TP, TKN) Composite (cBOD5, SS,TP, Alk.,TKN, TAN, NO2+NO3, Uni.) Grab (E. coli) Composite (cBOD5, SS,TP, TAN, NO2+NO3, Uni.) Grab Stored Sludge (TSS,N, HG,AS,CD, CO, CR, CU, K, MO, NI, TP, PB,SE, ZN, TKN, TAN, E.col Grab (Boron, Cobalt, Magnesium, Manganese, Potassium, Strontium, Phenols, bis (2-ethylhexyl) Phthalate) Grab (PFAS) Acute lethality for Rainbow Trout Composite (TBOD, Soluble BOD, O&G, TP, Soluble P, TSS)
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◀ August	September 2025					October ▶
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1 STAT	2 Final & Raw ☐ Effl bacti ☐	3 Industrial ☐	4	5	6
7	8	9 Final & Raw ☐ Effl bacti ☐	10	11 Industrial ☐	12	13
14	15	16 Final & Raw ☐ Effl bacti ☐ Industrial ☐	17	18	19	20
21	22	23 Final & Raw ☐ Effl bacti ☐	24 Industrial ☐	25	26	27
28	29	30 STAT				

Weekly Raw Samples:
Weekly Effluent Samples:
Effluent O.C (Outside Normal Conditions):
Quarterly Sludge Sample:
Quarterly Effluent (Leachate):
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 Ontario Clean Water Agency	Sample Schedule 2025 St. Marys WPCP	Rev. Date: 2024-10-10 Rev.#: 5 Pages: 10 of 12
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◀ September	October 2025					November ▶
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1 Final & Raw ☐ Effl bacti ☐	2 Industrial ☐	3	4
5	6	7 Final & Raw ☐ Effl bacti ☐ Sludge ☐ Final-Quarterly ☐ Industrial ☐	8	9	10	11
12	13 STAT	14 Final & Raw ☐ Effl bacti ☐	15 Industrial ☐	16	17	18
19	20	21 Final & Raw ☐ Effl bacti ☐	22	23 Industrial ☐	24	25
26	27	28 Final & Raw ☐ Effl bacti ☐ Industrial ☐	29	30	31	

Weekly Raw Samples:
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Quarterly Effluent (Leachate):
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Composite (TBOD, Soluble BOD, O&G, TP, Soluble P, TSS)

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◀ October		November 2025					December ▶
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
						1	
2	3	4 Final & Raw ☐ Effl bacti ☐	5 Industrial ☐	6	7	8	
9	10	11 STAT	12 Final & Raw ☐ Effl bacti ☐	13 Industrial ☐	14	15	
16	17	18 Final & Raw ☐ Effl bacti ☐ Industrial ☐	19	20	21	22	
23 30	24	25 Final & Raw ☐ Effl bacti ☐	26 Industrial ☐	27	28	29	

Weekly Raw Samples:

Weekly Effluent Samples:

Effluent O.C (Outside Normal Conditions):

Quarterly Sludge Sample:

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Biannual Lystek Sample:

Annual Effluent:

Industrial Samples:

Composite (BOD5, TSS, TP, TKN)

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Grab (Boron, Cobalt, Magnesium, Manganese, Potassium, Strontium, Phenols, bis (2-ethylhexyl) Phthalate)

Grab (PFAS)

Acute lethality for Rainbow Trout

Composite (TBOD, Soluble BOD, O&G, TP, Soluble P, TSS)

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◀ November	December 2025					January ▶
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2 Final & Raw ☐ Effl bacti ☐	3	4 Industrial ☐	5	6
7	8	9 Final & Raw ☐ Effl bacti ☐ Industrial ☐	10	11	12	13
14	15	16 Final & Raw ☐ Effl bacti ☐	17 Industrial ☐	18	19	20
21	22	23 Final & Raw ☐ Effl bacti ☐ Industrial ☐	24	25 STAT	26 STAT	27
28	29	30 Final & Raw ☐ Effl bacti ☐	31			

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Appendix C

Modification of Works

**Ministry of the
Environment,
Conservation and Parks**

Southwest Region
733 Exeter Road
London, ON N6E 1L3
Phone: 519-873-5000

**Ministère de l'Environnement,
de la Protection de la nature et
des Parcs**

Région Sud-Ouest
733 rue Exeter
London, ON N6E 1L3
Tél: 519-873-5000

May 30, 2024

Stephanie Simpson

Process & Compliance Technician
Midwest Region, Ontario Clean Water Agency

Hello Stephanie

The London MECP office has received your email dated May 30, 2024, requesting a planned bypass for an approximate 6-week time period starting in late August 2024 until mid October 2024. This planned bypass is to facilitate installation of a new grit removal system at the St. Marys Wastewater Treatment Plant. As part of this upgrade, raw sewage flow will bypass the designated raw sewage flow meter.

Condition 9(4) of ECA # 6378-CB3M2T stipulates the following:

9(4.) The Owner shall monitor and record the flow rate and daily quantity using flow measuring devices or other methods of measurement as approved below calibrated to an accuracy within plus or minus 15 per cent (+/- 15%) of the actual flowrate of the following:

- a. Influent flow to the Sewage Treatment Plant by continuous flow measuring devices and instrumentations/pumping rates/details of other methods (e.g. top water elevation of lagoons), or in lieu of an actual installation of equipment, adopt the flow measurements of the Final Effluent for the purpose of estimating Influent flows if the Influent and Final Effluent streams are considered not significantly different in flow rates and quantities;*

Your proposal indicates that during the time when the raw water flow meter is not in use, the Owner / Operating Authority intends to utilize the final effluent flow meter to assess flow rates and operating conditions, and determine any subsequently required monitoring / testing as per the ECA Condition 9(2) if non normal operating conditions are encountered.

The planned bypass is permitted under the authority of the undersigned pursuant to Condition 4 (1) (b) of ECA No. 6378-CB3M2T. Prior to the onset of the upgrade activities, please forward an email to Provincial Officer Neville Rising (Neville.rising@ontario.ca) to advise of the start date.

Please note: during any conditions at the Treatment Plant which are considered non-normal, the Owner / Operating Authority shall notify the MECP, and provide any subsequently required sample test results once received. In addition, the Owner / Operating Authority shall provide written biweekly updates as to the status of the upgrade activities to Neville Rising.

In the event that the proposed work extends beyond the proposed time period noted (i.e., 6 weeks) please notify the MECP and provide an estimated date for completion of the project. Following completion of the upgrade activities, please notify Neville Rising of the MECP via email. Lastly, as noted in Section E (Limited Operational Flexibility) of ECA No. 6378-CB3M2, please ensure completion of a "Notice of Modification to Sewage Works" document in association with the proposed work.

Sincerely,

A handwritten signature in black ink, appearing to read 'Adrien', with a stylized, cursive script.

Pierre Adrien
District Manager, London District
Drinking Water and Environmental Compliance Division

- b. Neville Rising, Water Compliance Officer
Mark Smith, Water Compliance Supervisor

RETAIN COMPLETED FORM - DO NOT SEND TO THE MINISTRY

Part 1 - Environmental Compliance Approval Number

(Insert the Environmental Compliance Approval number authorizing the future alteration of components of the municipal sewage collection system)

056-W601

Part 2 - Description of alteration of components of the municipal sewage collection system (Use attachments if required)

Robinson Street SPS - Replace 1 pump (same size) and the pump control panel.

Queen Street SPS - Replace 2 pumps (same size), Process piping and valves, platforms and electrical equipment and instrumentation.

Emily Street SPS - Replace dialer and add new ultrasonic transducer.

All in accordance with Contract No. 21043, Drawings Q1, R1, E1-1, E1-2, E1-3, E1-4, E2-1, E2-2, E2-3, E2-4, E3-1.

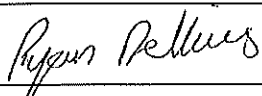
The description shall include:

- 1) A brief description above of the undertaking (e.g. street name(s); subdivision name; project name);
- 2) An identification of the system component being altered;
- 3) The location of the works being altered; and
- 4) Any associated drawings, if applicable.

Part 3 - Verification by Licensed Engineering Practitioner (as applicable to the undertaking) or Technical Representative

I hereby verify that I am a Licensed Engineering Practitioner who is licensed to practice in the Province of Ontario (as applicable to the undertaking) or the technical representative and the design of the alteration of the components of the municipal sewage collection system:

- 1) Has been prepared by a Licensed Engineering Practitioner who is licensed to practice in the Province of Ontario, where the Alteration falls within the practice of professional engineering as defined in the Professional Engineers Act, R.S.O. 1990, OR has been prepared by a technical representative with the required qualifications.
- 2) Has been documented in a design report and any other applicable design forms;
- 3) Is consistent with, or otherwise addresses, the design objectives contained within the Ministry of the Environment, Conservation and Parks publication "Design Guidelines for Sewage Works", as amended and as applicable;

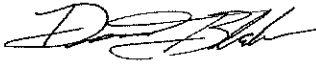
Name (Print)	PEO Licence Number
Ryan DeVries	100183886
Signature	Date (yyyy/mm/dd)
	2023/11/13

Part 4 - Verification by Owner

I hereby verify that:

- 1) The alteration of the municipal sewage collection system made shall not result in:
 - a) Exceedance of hydraulic capacity (including uncommitted reserve hydraulic capacity, as applicable) of the downstream:
 - i) Municipal sewage collection system; or
 - ii) Receiving sewage treatment plants (STP).
 - b) Exceedance of any downstream pumping station capacity, unless verified under Part 3 of this form;
 - c) Any increase in collection system overflows, that is not offset by measures taken elsewhere in the municipal sewage collection system, and have documented any offset measures used;
 - d) Any increase in the frequency and/or volume of STP bypasses or STP overflows that is not offset by measures, and have documented any offset measures used; (Alternatively, if the wastewater flows to a STP not owned by the Owner, then the wastewater volume or flow rate is as agreed to with the Owner of the STP.)
 - e) Deterioration of the normal operation of municipal STPs (as applicable) and/or municipal sewage collection system;

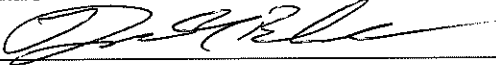
- f) A negative impact on the ability to undertake monitoring necessary for the operation of the municipal sewage collection system; and
 - g) Adverse effects.
- 2) The alteration will:
- a) Not cause overflows or backups, nor increase surcharging at any maintenance holes or privately owned infrastructure (e.g. basements) within the municipal sewage collection system or any collection system connected to it; and
 - b) Provide smooth flow transition to existing gravity sewers.
- 3) An assessment of the proposed works has been completed to determine if the works pose a significant drinking water threat. The proposed works do not pose any threats to sources of drinking water or design includes features that mitigate the threat to sources of drinking water, such as those included in: Ministry's Standard Operating Policy for Sewage Works, as amended from time to time; and Source Protection Plan policies pertaining to the works;
- 4) The alteration is wholly located within the municipal boundary over which the owner has jurisdiction, except where there is an agreement existed between municipalities;
- 5) The owner consents to the alteration of components to the municipal sewage collection system; and
- 6) I am an authorized representative of the owner to complete this verification.

Name of Owner (Print)	Name of Owner Representative (Print)	
Dave Blake	Environmental Services Manager	
Signature		Date (yyyy/mm/dd)
		2023/11/14

Part 5 - Post Construction Verification by Owner for Inspection

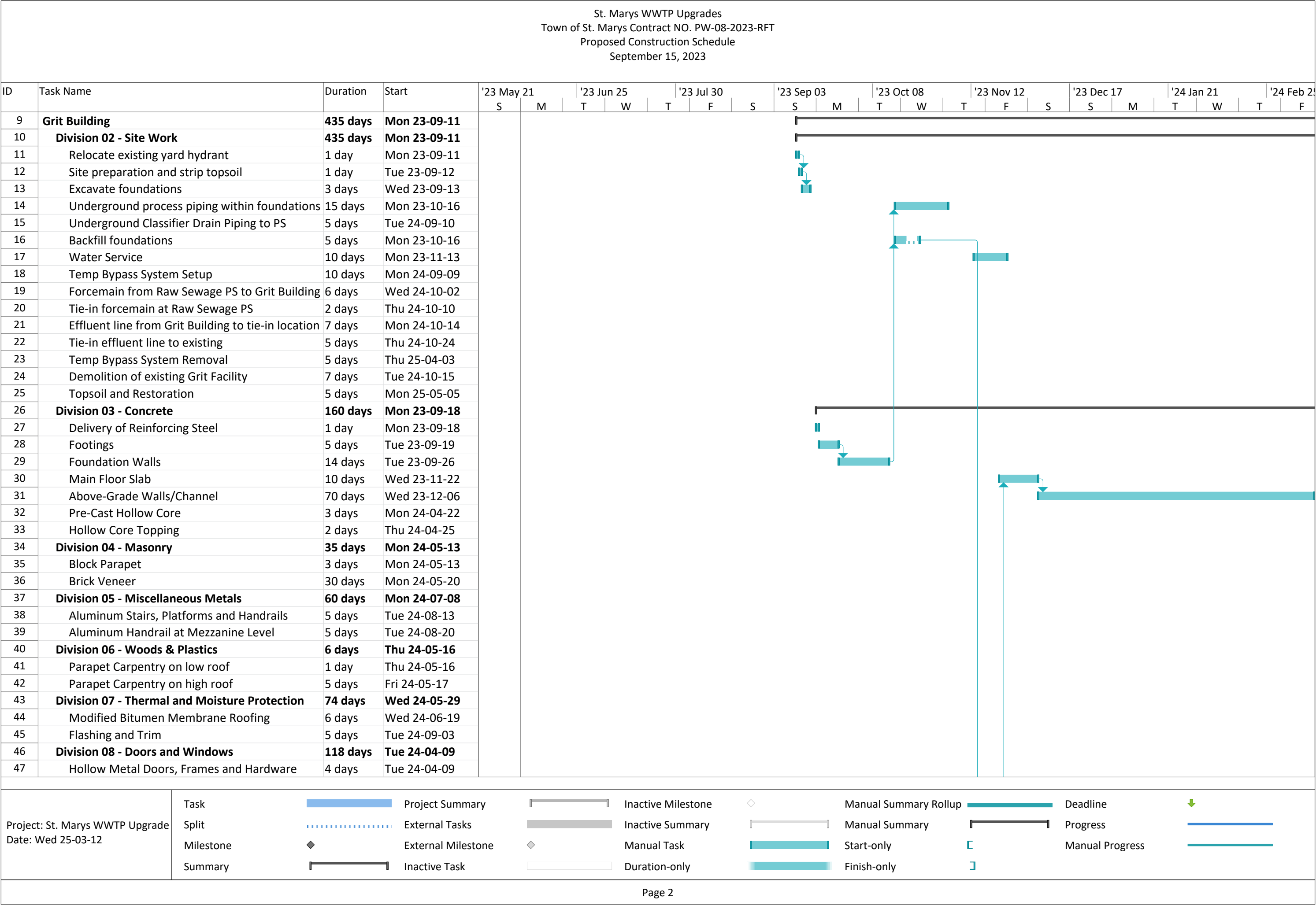
I hereby verify that:

- 1) Any alterations the Municipal Sewage Collection System have been inspected before operation to ensure that the works as constructed will continue to conform to the Design Criteria and the ECA, and have documentation of the inspection results.

Name of Owner (Print)	Name of Owner Representative (Print)	
DAVE BLAKE TOWN OF ST. MARYS	DAVE BLAKE	
Signature		Date (yyyy/mm/dd)
		2024/06/13

Note: Parts 1 to 4 above shall be completed before construction.
Part 5 is to be completed after the inspection and testing have been undertaken.





St. Marys WWTP Upgrades
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				S	M		T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T
48	Overhead Door	4 days	Mon 24-09-16																				
49	Windows, Glass and Glazing	10 days	Mon 24-08-19																				
50	Division 09 - Painting	21 days	Mon 24-08-19																				
51	Painting	10 days	Tue 24-09-03																				
52	Division 15 - Mechanical	355 days	Wed 23-11-15																				
53	Plumbing and Drainage underground piping	5 days	Wed 23-11-15																				
54	Plumbing and Drainage above grade piping	20 days	Mon 24-07-01																				
55	Plumbing Fixtures and Equipment	2 days	Mon 24-07-29																				
56	Thermal Insulation	8 days	Wed 24-07-31																				
57	Above grade process piping	30 days	Fri 24-08-02																				
58	Delivery of Grit Separator/Dewatering Screw	1 day	Fri 24-07-19																				
59	Install Grit Separator/Dewatering Screw	1 day	Thu 24-08-01																				
60	Delivery of HVAC Make-Up Air Unit	1 day	Mon 24-05-06																				
61	HVAC equipment and Ductwork	30 days	Tue 24-10-22																				
62	Bubble Damper Delivery	1 day	Wed 25-03-12																				
63	Bubble Damper installarion power	2 days	Mon 25-03-24																				
64	Install Provisional Gate Valves/CV	5 days	Tue 24-10-15																				
65	Install Provisional Sluice Gates	5 days	Tue 24-09-24																				
66	Division 16 - Electrical	277 days	Wed 23-11-15																				
67	Electrical Ductbank	7 days	Tue 24-04-02																				
68	Electrical Underslab Rough-In	5 days	Wed 23-11-15																				
69	Process Equipment Conduit and Wiring	30 days	Mon 24-09-30																				
70	Instrumentation and Control Conduit and Wiring	10 days	Mon 24-11-11																				
71	MCC 5 Bucket	1 day	Fri 24-11-29																				
72	Shut down MCC 5	1 day	Thu 24-12-05																				
73	Start-Up & Commissioning for Grit Building	32 days	Tue 25-02-18																				
74	Pre-Commissioning	2 days	Tue 25-02-18																				
75	Equipment Commissioning and I/O	2 days	Wed 25-02-19																				
76	Instrumentation Commissioning	1 day	Thu 25-02-20																				
77	Training	1 day	Thu 25-02-20																				
78	7 day Performance Test and Reliability Run	7 days	Tue 25-03-25																				
79	Switch Pumps to Grit Facility	4 days	Tue 25-03-25																				
80																							

Project: St. Marys WWTP Upgrade Date: Wed 25-03-12	Task		Project Summary		Inactive Milestone		Manual Summary Rollup		Deadline	
	Split		External Tasks		Inactive Summary		Manual Summary		Progress	
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				S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W
81	Odour Control Facility	311 days	Wed 24-03-13																		
82	Division 02 - Site Work	303 days	Mon 24-03-25																		
83	Site preparation and strip topsoil	2 days	Mon 24-03-25																		
84	Excavate for exterior slab on grade	3 days	Wed 24-03-27																		
85	Water Service to Odour Control Unit	2 days	Mon 24-04-01																		
86	Underground Drain piping	2 days	Mon 24-04-01																		
87	Granular backfill for exterior slab on grade	2 days	Wed 24-04-03																		
88	Rough Grading	2 days	Mon 25-05-12																		
89	Restoration	6 days	Wed 25-05-14																		
90	Division 03 - Concrete	15 days	Fri 24-04-05																		
91	Delivery of Reinforcing Steel	0 days	Fri 24-04-05																		
92	Exterior Slab on Grade	15 days	Fri 24-04-05																		
93	Division 15 - Mechanical	188 days	Wed 24-06-19																		
94	Delivery of Odour Control Unit	1 day	Wed 24-06-19																		
95	Install of Odour Control Unit and Media	30 days	Thu 24-06-20																		
96	External Water Piping	3 days	Thu 24-07-18																		
97	Odour Ducting Support Foundations	10 days	Mon 24-10-14																		
98	Install Duct Supports	4 days	Wed 24-11-06																		
99	Install Odour Control Ducting	69 days	Tue 24-11-12																		
100	Thermal Insulation	15 days	Mon 25-02-17																		
101	Division 16 - Electrical	149 days	Wed 24-03-13																		
102	Electrical Ductbank	3 days	Wed 24-03-13																		
103	Equipment Conduit and Wiring	15 days	Mon 24-09-16																		
104	Instrumentation and Control Conduit and Wiring	1 day	Mon 24-10-07																		
105	Start-Up & Commissioning for Odour Control	13 days	Mon 25-02-24																		
106	Pre-Commissioning	2 days	Mon 25-02-24																		
107	Equipment Commissioning and I/O	1 day	Wed 25-02-26																		
108	Instrumentation Commissioning	1 day	Thu 25-02-27																		
109	System and Controls Commissioning	1 day	Fri 25-02-28																		
110	Training	1 day	Mon 25-03-03																		
111	7 day Performance Test and Reliability Run	7 days	Tue 25-03-04																		
112																					

Project: St. Marys WWTP Upgrade Date: Wed 25-03-12	Task		Project Summary		Inactive Milestone		Manual Summary Rollup		Deadline	
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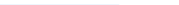
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				S	M		T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F
113	Administration Building	393 days	Mon 23-11-13																					
114	Division 02 - Site Work	393 days	Mon 23-11-13																					
115	New Temporary facilities/Electrical (Assumed)	5 days	Mon 24-03-18																					
116	OCWA removals	5 days	Mon 23-11-13																					
117	Network Relocation	4 days	Mon 24-03-04																					
118	Test Run new Network	7 days	Fri 24-03-08																					
119	Pull wire/Prep for switch Over	8 days	Fri 24-03-08																					
120	Switch to Temp Power	1 day	Wed 24-03-20																					
121	ACM Abatement	3 days	Tue 24-02-20																					
122	Mech/Elec/Misc removals of existing Admin Buil	5 days	Mon 24-03-25																					
123	Demolition of existing Admin Building Structure	5 days	Mon 24-04-08																					
124	Excavate Foundations	3 days	Mon 24-04-29																					
125	Backfill Foundations	5 days	Mon 24-06-17																					
126	Relocate existing Watermain and Hydrant	7 days	Mon 23-11-13																					
127	Site Grading	2 days	Mon 24-10-28																					
128	Curb and Gutter	7 days	Mon 25-04-28																					
129	Asphalt Paving	2 days	Wed 25-05-07																					
130	Topsoil and Restoration	3 days	Mon 25-05-12																					
131	Division 03 - Concrete	252 days	Mon 23-11-20																					
132	Delivery of Reinforcing Steel	1 day	Mon 23-11-20																					
133	Footings	3 days	Thu 24-05-02																					
134	Foundation Walls	12 days	Thu 24-05-30																					
135	Main floor Slab	2 days	Mon 24-06-24																					
136	Pre-Cast Hollow Core	2 days	Mon 24-08-26																					
137	Hollow core topping	5 days	Wed 24-08-28																					
138	Exterior Approach Slabs / Sidewalk	5 days	Wed 24-10-30																					
139	Division 04 - Masonry	70 days	Tue 24-07-02																					
140	Exterior Block Walls	20 days	Tue 24-07-02																					
141	Interior Block Walls	15 days	Mon 24-07-29																					
142	Block Parapet	4 days	Wed 24-09-04																					
143	Brick Veneer	20 days	Tue 24-09-10																					
144	Division 05 - Miscellaneous Metals	30 days	Tue 24-09-17																					
145	Galvanized Shear Wall and Lateral Support Angle	5 days	Tue 24-10-22																					
146	Galvanized Hoist Beam	5 days	Tue 24-09-17																					
147	Division 06 - Woods & Plastics	6 days	Tue 24-09-10																					
148	Parapet Carpentry	6 days	Tue 24-09-10																					
149	Division 07 - Thermal and Moisture Protection	127 days	Wed 24-06-05																					
150	Modified Bitumen Membrane Roofing	7 days	Mon 24-09-23																					
151	Flashing and Trim	5 days	Tue 24-06-04																					

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				S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F
152	Division 08 - Doors and Windows	60 days	Mon 24-09-09																				
153	Hollow Metal Doors, Frames and Hardware	7 days	Mon 24-09-16																				
154	Overhead Door	3 days	Mon 24-10-14																				
155	Windows, Glass and Glazing	5 days	Thu 24-10-10																				
156	Division 09 - Painting	107 days	Thu 24-09-26																				
157	Painting	20 days	Thu 24-09-26																				
158	Ceilling	10 days	Mon 25-01-27																				
159	Flooring	10 days	Mon 25-02-10																				
160	Division 10 - Specialties	2 days	Mon 25-02-24																				
161	Toilet Partitions	2 days	Mon 25-02-24																				
162	Division 14 - Conveying Systems	1 day	Tue 24-11-19																				
163	Chain Hoist	1 day	Tue 24-11-19																				
164	Division 15 - Mechanical	180 days	Mon 24-06-24																				
165	Delivery of HVAC Make-Up Air Unit	1 day	Wed 24-10-02																				
166	HVAC Equipment and Ductwork	30 days	Mon 24-10-07																				
167	Natural Gas Piping	3 days	Thu 24-10-03																				
168	Plumbing and Drainage underground piping	10 days	Mon 24-06-24																				
169	Plumbing and Drainage above grade piping	20 days	Tue 24-11-19																				
170	Plumbing Fixtures and Equipment	5 days	Mon 25-02-24																				
171	Gas Monitoring System	1 day	Mon 25-02-17																				
172	Division 16 - Electrical	123 days	Mon 24-06-24																				
173	Delivery of Switchboard	1 day	Wed 24-08-21																				
174	Switch to Perm Power	1 day	Tue 24-09-24																				
175	Electrical Ductbank	5 days	Mon 24-06-24																				
176	Electrical Underslab Rough-In	10 days	Mon 24-06-24																				
177	Power Conduit and Wiring	20 days	Thu 24-10-24																				
178	Instrumentation and Control Conduit and Wiring	15 days	Thu 24-11-21																				
179	Start-Up & Commissioning for Admin Building	18 days	Tue 25-02-25																				
180	Pre-Commissioning	1 day	Tue 25-02-25																				
181	Equipment Commissioning and I/O	2 days	Wed 25-02-26																				
182	Instrumentation Commissioning	2 days	Fri 25-02-28																				
183	System and Controls Commissioning	5 days	Tue 25-03-04																				
184	Training	1 day	Tue 25-03-11																				
185	7 day Performance Test and Reliability Run	7 days	Wed 25-03-12																				
186																							
187	Substantial Performance	1 day	Fri 25-03-28																				
188																							

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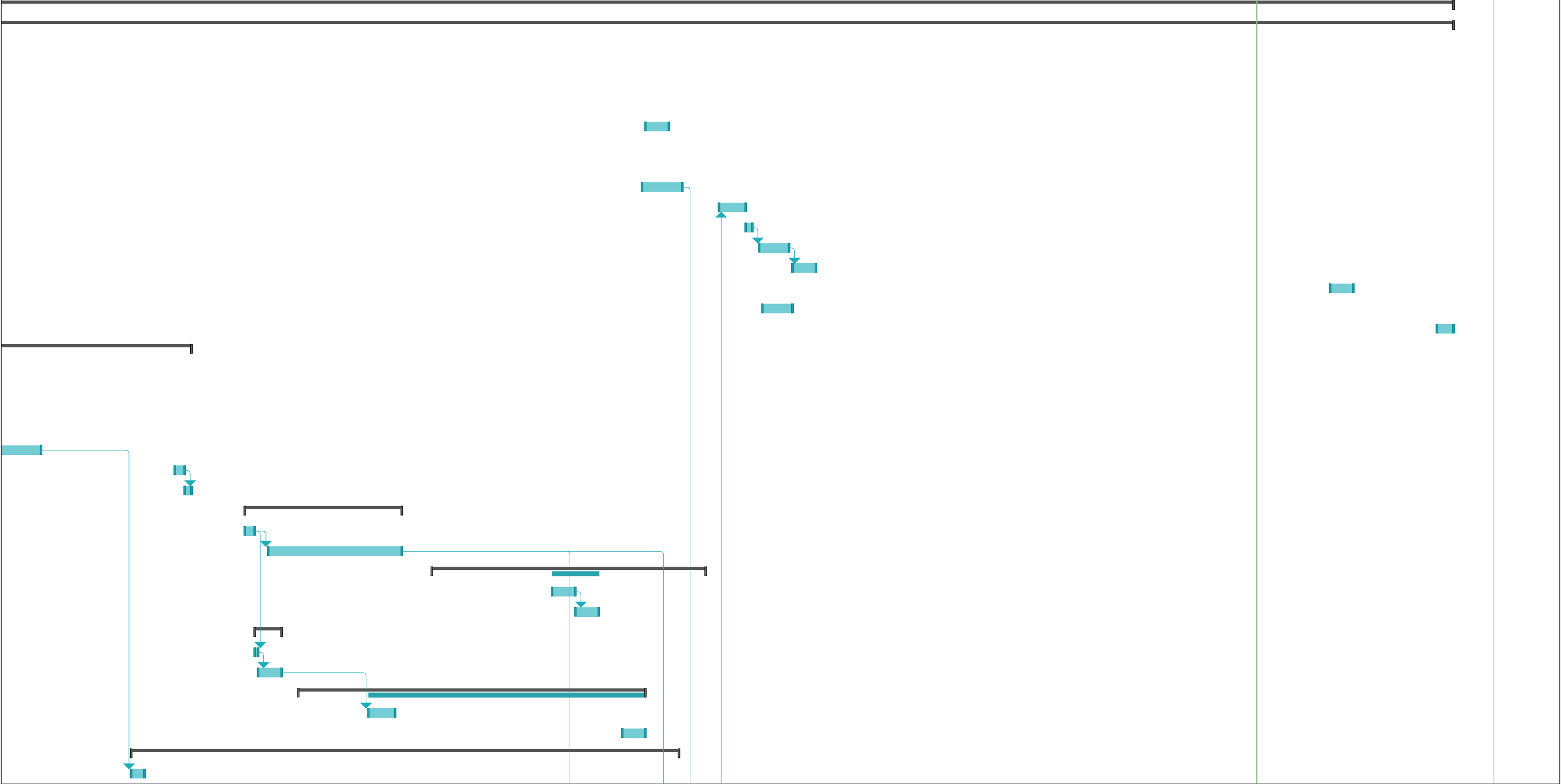
'24 Feb 25		'24 Mar 31			'24 May 05			'24 Jun 09			'24 Jul 14			'24 Aug 18			'24 Sep 22			'24 Oct 27			'24 Dec 01			'25 Jan 05			'25 Feb 09			'25 Mar 16			'25 Apr 20			'25 May 24
F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	



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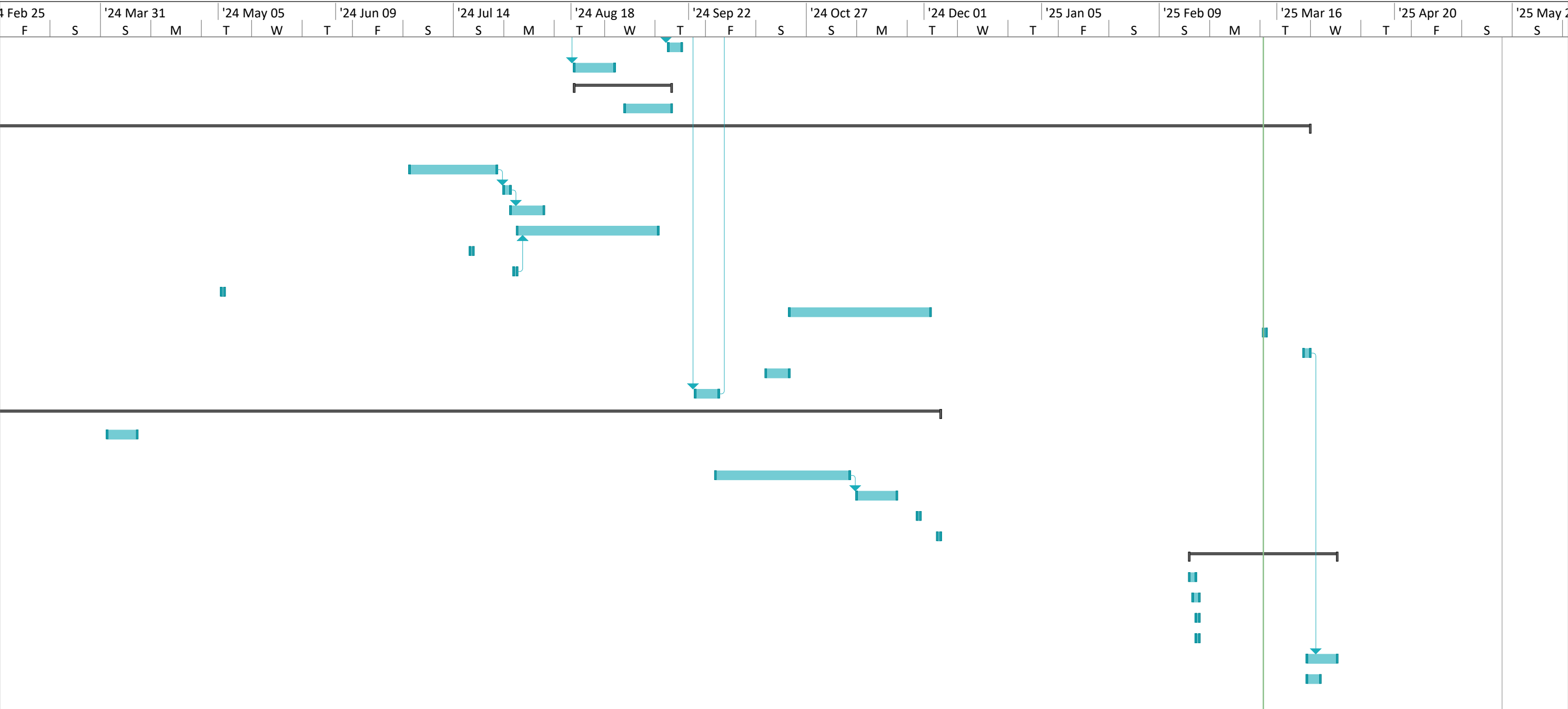
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F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S	M	T	W	T	F	S	S					



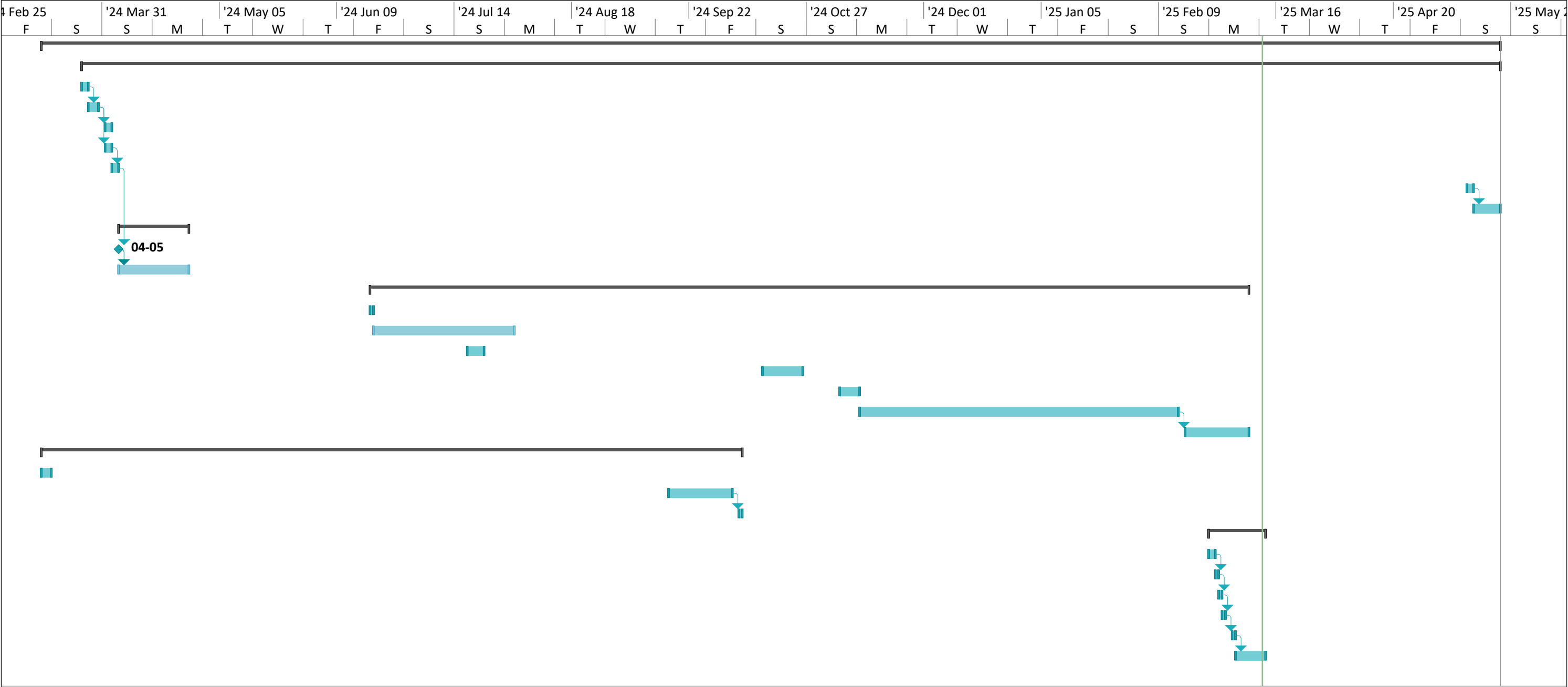
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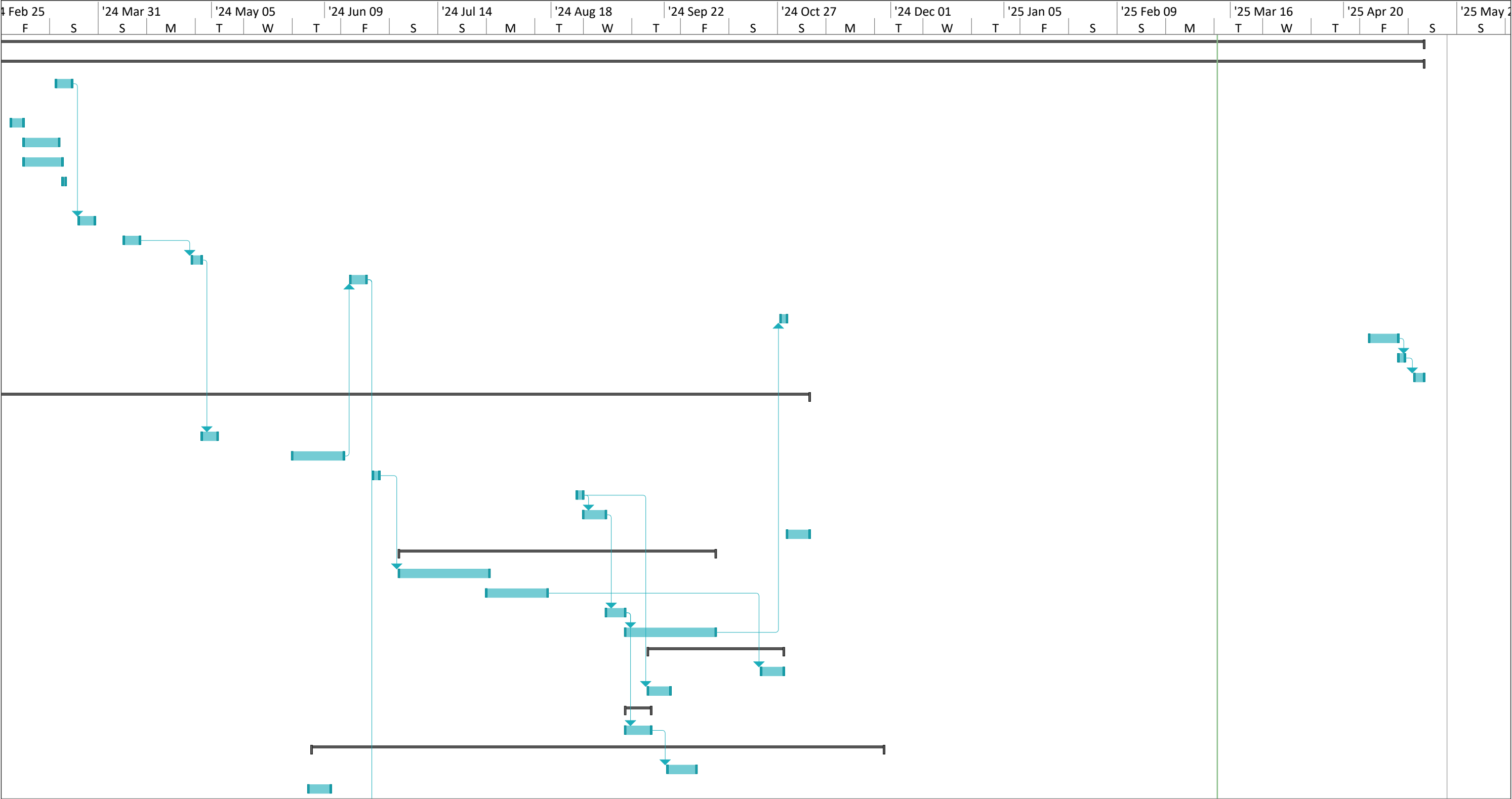
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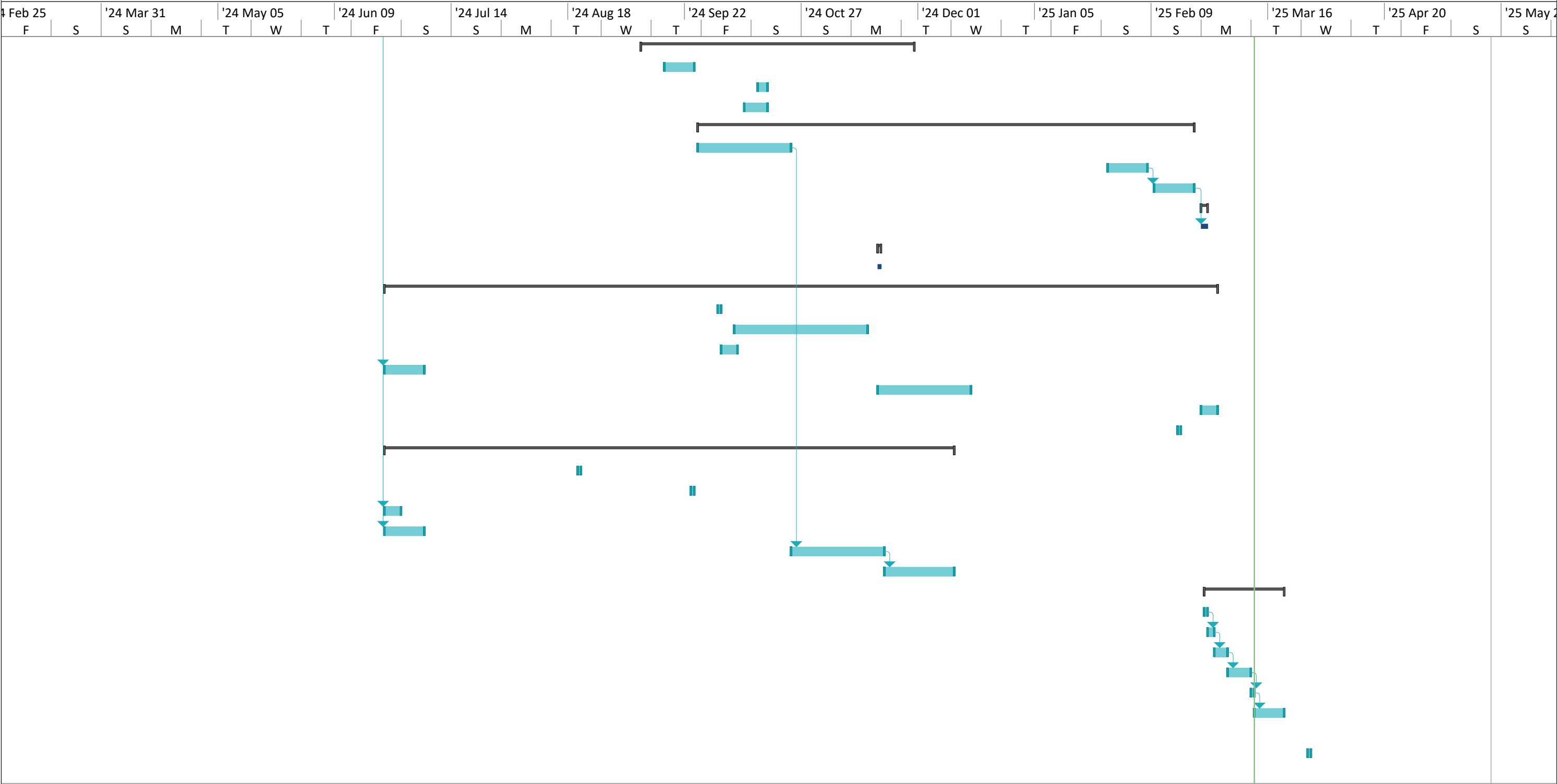
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Appendix D

Maintenance Summary

Workorder Summary Report

Report Start Date: Jan 1, 2024 12:00 AM

Report End Date: Dec 31, 2024 11:59 PM

Location: 5520

Work Order Type: ADMIN,CAP,CORR,EMER,OPER,PM

			WorkOrder		Workorder Details		
WO #	Asset ID	Asset Description	Type	Class	Work Order Description	Status	Actual Finish
3714105	0000277891	SAMPLER 01 RAW INFLUENT	PM	Refurbish/Replace/Repair	Sampler 01 Raw Influent Service (1y) 5520	CLOSE	1/3/24 03:49 PM
3714229	0000065544	PANEL ALARM/DIALER	PM	Inspection	Alarm Dialer Testing (1m) 5520	CLOSE	1/5/24 07:50 AM
3714234	0000065226	PANEL ALARM/DIALER 01 QUEEN ST	PM	Inspection	Alarm Dialer 01 Queen PS Testing (1m) 5520	CLOSE	1/2/24 11:28 AM
3714239	0000065211	PANEL ALARM/DIALER 01 ROBINSON ST	PM	Inspection	Alarm Dialer 01 Robinson PS Testing (1m) 5520	CLOSE	1/2/24 11:29 AM
3714477			PM	Inspection	PH Probe Insp/Calib (1m) 5520	CLOSE	1/2/24 03:56 PM
3714482			OPER	Inspection	TPM Insp/Maint St Marys WWTP (1m) 5520	CLOSE	2/1/24 07:57 AM
3714743	0000065526	UV LIGHT BANK 02 Final Effluent Building	PM	Inspection	Uv Light Bank 02 Effluent Insp/Clean/Service (1m/1y) 5520	CLOSE	1/12/24 03:16 PM
3714750	0000065527	UV LIGHT BANK 01 Final Effluent building	PM	Inspection	Uv Light Bank 01 Effluent Insp/Clean/Service (1m/1y) 5520	CLOSE	1/12/24 07:37 AM
3714757	0000065531	ENGINE DIESEL GENERATOR	PM	Inspection	Engine Diesel St. Mary's WWTP Insp/Test (1m) 5520	CLOSE	1/10/24 03:50 PM
3714776	0000334281	PUMP CENTRIFUGAL RAS #3 BLOWER BUILDING	PM	Inspection	Pump Cent 03 Return Sludge Insp/Service (1m/1y) 5520	CLOSE	1/5/24 02:51 PM
3714792	0000269085	ENGINE DIESEL GENERATOR ROBINSON ST	PM	Inspection	Engine Diesel Robinson St PS Insp/Test (1m) 5520	CLOSE	1/2/24 11:30 AM
3715077			PM	HEALTH AND SAFETY	OG15 Facility OHSA Inspection (1m) 5520	CLOSE	1/31/24 03:46 PM
3715097			OPER	Compliance	WISKI Data Review (1m) 5520	CLOSE	1/23/24 11:37 AM
3715155			OPER	Compliance	WISKI Data Entry (1m) 5520	CLOSE	2/7/24 07:52 AM
3715435			OPER	Compliance	Sampling and Testing (1m) 5520	CLOSE	2/1/24 07:58 AM
3715595	0000269089	PANEL ALARM/DIALER 01 EMILY ST	PM	Inspection	Alarm Dialer 01 Emily St. PS Testing (1m) 5520	CLOSE	1/2/24 11:31 AM
3738945			OPER	HEALTH AND SAFETY	Monthly OHSA Workplace Inspection (1m) - 5520	CLOSE	2/1/24 08:00 AM
3739146	0000207059	GENERATOR Diesel Queen St 5520	PM	Refurbish/Replace/Repair	Engine Diesel Queen St PS Insp/Test (1m) 5520	CLOSE	1/3/24 08:26 AM
3741187			PM	HEALTH AND SAFETY	FIRE EXTINGUISHER ROUTE Insp/Service (1m)5520	CLOSE	1/2/24 03:58 PM
3741205			OPER	Inspection	Daily O&M Pumping Stations (1m) 5520	CLOSE	2/1/24 08:01 AM
3741210			OPER	Inspection	TPM Insp/Maint Pumping Stations (1m) 5520	CLOSE	2/1/24 08:01 AM
3741215			OPER	Inspection	TPM Insp/Maint Collection System (1m) 5520	CLOSE	2/1/24 08:02 AM
3741319	0000334260	MOTOR 2 RAS PUMP OLD RAS BUILDING	PM	Refurbish/Replace/Repair	RAS PUMP MOTOR 2 Insp/Maint (1m) 5520	CLOSE	1/3/24 04:02 PM
3742359	0000332739	FAN EXHAUST DUCT VENTILATION LYSTEK BUILDING	PM	Refurbish/Replace/Repair	Fan Exhaust Duct Lystek Building Insp/Maint (1m) 5520	CLOSE	1/2/24 03:59 PM
3742362			PM	HEALTH AND SAFETY	EMERGENCY LIGHTING ROUTE Insp/service (1m) 5520	CLOSE	1/2/24 04:01 PM
3742413			PM	Inspection	UPS Route Insp/Service (1m) 5520	CLOSE	1/2/24 04:00 PM
3742695			PM	Refurbish/Replace/Repair	Detroit Route Insp/Maint (1m) 5520	CLOSE	1/3/24 03:47 PM

				epair	(1m) 5520		
3742921			PM	HEALTH AND SAFETY	EYEWASH ROUTE Inspection/Service (1m) 5520	CLOSE	1/2/24 04:02 PM
3743666			PM	Predictive Maintenance	Lystek Building Greasing Route	CLOSE	1/3/24 03:58 PM
3743676			PM	Predictive Maintenance	Lystek Motor Greasing Schedule	CLOSE	1/5/24 02:54 PM
3743687			PM	Inspection	Raw Building Gear Box Inspections	CLOSE	1/9/24 03:53 PM
3743691			PM	Predictive Maintenance	WASEQ Pump Greasing 3-4	CLOSE	1/4/24 12:01 PM
3743694			PM	Predictive Maintenance	WASEQ Motor greasing (1-2)	CLOSE	1/4/24 12:03 PM
3759775			CAP	Refurbish/Replace/R epair	Onsite repair of Vogelsang Lobe Pump - Digester Lystek Feed	CLOSE	3/12/24 11:25 AM
3761957			PM	Compliance	WSER Quarterly Reporting (3m) 5520	CLOSE	2/1/24 07:54 AM
3764596			OPER	Inspection	Daily O&M Activities St Marys WWTP (1m) 5520	CLOSE	3/1/24 03:16 PM
3769879	0000065544	PANEL ALARM/DIALER	PM	Inspection	Alarm Dialer Testing (1m) 5520	CLOSE	2/2/24 07:58 AM
3769884	0000065226	PANEL ALARM/DIALER 01 QUEEN ST	PM	Inspection	Alarm Dialer 01 Queen PS Testing (1m) 5520	CLOSE	2/2/24 07:59 AM
3769889	0000065211	PANEL ALARM/DIALER 01 ROBINSON ST	PM	Inspection	Alarm Dialer 01 Robinson PS Testing (1m) 5520	CLOSE	2/2/24 08:00 AM
3769894	0000065313	PUMP CENT OLD SLUDGE LOADING DIGESTER BASEMENT	PM	Inspection	Pump Cent Sludge Loading Insp/Service (1y) 5520	CLOSE	2/6/24 03:28 PM
3770098			PM	Inspection	PH Probe Insp/Calib (1m) 5520	CLOSE	2/2/24 11:37 AM
3770103			OPER	Inspection	TPM Insp/Maint St Marys WWTP (1m) 5520	CLOSE	3/1/24 03:16 PM
3770316	0000065526	UV LIGHT BANK 02 Final Effluent Building	PM	Inspection	Uv Light Bank 02 Effluent Insp/Clean/Service (1m/1y) 5520	CLOSE	2/8/24 03:45 PM
3770323	0000065527	UV LIGHT BANK 01 Final Effluent building	PM	Predictive Maintenance	Uv Light Bank 01 Effluent Insp/Clean/Service (1m/1y) 5520	CLOSE	2/8/24 02:16 PM
3770330	0000065531	ENGINE DIESEL GENERATOR	PM	Inspection	Engine Diesel St. Mary's WWTP Insp/Test (1m) 5520	CLOSE	2/8/24 02:16 PM
3770349	0000334281	PUMP CENTRIFUGAL RAS #3 BLOWER BUILDING	PM	Inspection	Pump Cent 03 Return Sludge Insp/Service (1m/1y) 5520	CLOSE	2/2/24 11:27 AM
3770365	0000269085	ENGINE DIESEL GENERATOR ROBINSON ST	PM	Inspection	Engine Diesel Robinson St PS Insp/Test (1m) 5520	CLOSE	2/2/24 08:03 AM
3770636			PM	HEALTH AND SAFETY	OG15 Facility OHSA Inspection (1m) 5520	CLOSE	2/23/24 12:56 PM
3770679			PM	HEALTH AND SAFETY	OG109 OCWAs PPE Policy Review (1y) St Marys	CLOSE	3/12/24 11:22 AM
3770683			OPER	Compliance	WISKI Data Review (1m) 5520	CLOSE	2/9/24 03:01 PM
3770699			OPER	Compliance	WISKI Data Entry (1m) 5520	CLOSE	3/1/24 03:16 PM
3770883			OPER	Compliance	Sampling and Testing (1m) 5520	CLOSE	3/1/24 03:16 PM

3770974	0000269089	PANEL ALARM/DIALER 01 EMILY ST	PM	Inspection	Alarm Dialer 01 Emily St. PS Testing (1m) 5520	CLOSE	2/2/24 08:06 AM
3787634			OPER	HEALTH AND SAFETY	Monthly OHSA Workplace Inspection (1m) - 5520	CLOSE	2/23/24 12:55 PM
3787982	0000207059	GENERATOR Diesel Queen St 5520	PM	Refurbish/Replace/R epair	Engine Diesel Queen St PS Insp/Test (1m) 5520	CLOSE	2/2/24 08:10 AM
3789384			PM	HEALTH AND SAFETY	FIRE EXTINGUISHER ROUTE Insp/Service (1m)5520	CLOSE	2/7/24 07:56 AM
3789402			OPER	Inspection	Daily O&M Pumping Stations (1m) 5520	CLOSE	3/1/24 03:19 PM
3789407			OPER	Inspection	TPM Insp/Maint Pumping Stations (1m) 5520	CLOSE	3/1/24 03:19 PM
3789412			OPER	Inspection	TPM Insp/Maint Collection System (1m) 5520	CLOSE	3/1/24 03:20 PM
3789545	0000334260	MOTOR 2 RAS PUMP OLD RAS BUILDING	PM	Refurbish/Replace/R epair	RAS PUMP MOTOR 2 Insp/Maint (1m) 5520	CLOSE	2/2/24 08:16 AM
3790001			PM	Inspection	Supervisor Spot Check St Marys Facilities (3m) 5520/1262	CLOSE	3/14/24 08:48 AM
3790316			PM	Inspection	VFD Route Electrician Insp/Maint (1y) 5520	CLOSE	2/28/24 07:33 AM
3790323	0000332739	FAN EXHAUST DUCT VENTILATION LYSTEK BUILDING	PM	Refurbish/Replace/R epair	Fan Exhaust Duct Lystek Building Insp/Maint (1m) 5520	CLOSE	2/2/24 02:32 PM
3790326			PM	HEALTH AND SAFETY	EMERGENCY LIGHTING ROUTE Insp/service (1m) 5520	CLOSE	2/2/24 03:45 PM
3790384			PM	Inspection	UPS Route Insp/Service (1m) 5520	CLOSE	2/2/24 03:46 PM
3790568			PM	Refurbish/Replace/R epair	Detroit Route Insp/Maint (1m) 5520	CLOSE	2/6/24 12:56 PM
3790783			PM	HEALTH AND SAFETY	EYEWASH ROUTE Inspection/Service (1m) 5520	CLOSE	2/2/24 03:48 PM
3791175			PM	Predictive	Lystek Building Greasing	CLOSE	2/2/24 02:31 PM

				Maintenance	Route		
3791185			PM	Predictive Maintenance	Raw Building Gear Box Inspections	CLOSE	2/6/24 12:58 PM
3791189			PM	Predictive Maintenance	WASEQ Pump Greasing 3-4	CLOSE	2/2/24 08:12 AM
3794324			PM	Compliance	MECP Overflow & Bypass Event Summary Report (3m)	CLOSE	2/1/24 08:44 AM
3803506			CAP	Refurbish/Replace/Repair	RAS pump #5 replacement	CLOSE	10/3/24 08:15 AM
3803518			CAP	Refurbish/Replace/Repair	Rotary Lobe Pump replacement - Centrifuge feed	CLOSE	5/16/24 07:54 AM
3804961	0000065207	PANEL CONTROL 01 ROBINSON ST	CORR	Refurbish/Replace/Repair	Replacement of faulty hour meter 5520	CLOSE	3/6/24 03:28 PM
3804963	0000332743	VALVE SOLENOID RDT SPRAY LYTEK BUILDING	CORR	Refurbish/Replace/Repair	Replaced faulty RDT solenoid valve 5520	CLOSE	2/14/24 08:22 AM
3806254	0000277998	TRANSMITTER LEVEL MILTRONICS TWAS / DEWATERED SLUDGE LYTEK BUILDING	CORR	Refurbish/Replace/Repair	Removed faulty low level float from Twas tank 5520	CLOSE	2/22/24 02:03 PM
3806412			OPER	Inspection	Daily O&M Activities St Marys WWTP (1m) 5520	CLOSE	4/2/24 09:17 AM
3812138	0000065544	PANEL ALARM/DIALER	PM	Inspection	Alarm Dialer Testing (1m) 5520	CLOSE	3/8/24 04:11 PM
3812143	0000065226	PANEL ALARM/DIALER 01	PM	Inspection	Alarm Dialer 01 Queen PS Testing (1m) 5520	CLOSE	3/8/24 04:10 PM
3812148	0000065211	PANEL ALARM/DIALER 01 ROBINSON ST	PM	Inspection	Alarm Dialer 01 Robinson PS Testing (1m) 5520	CLOSE	3/8/24 04:12 PM
3812153	0000157008	SAMPLER 01 AUTO Final Effluent Building	PM	Refurbish/Replace/Repair	Sampler 01 Auto Effluent Insp/Service (1y) 5520	CLOSE	3/14/24 12:27 PM
3812363			PM	Inspection	PH Probe Insp/Calib (1m) 5520	CLOSE	3/4/24 12:20 PM
3812368			OPER	Inspection	TPM Insp/Maint St Marys WWTP (1m) 5520	CLOSE	4/2/24 09:18 AM

3812577	0000065526	UV LIGHT BANK 02 Final Effluent Building	PM	Inspection	Uv Light Bank 02 Effluent Insp/Clean/Service (1m/1y) 5520	CLOSE	3/28/24 02:29 PM
3812584	0000065527	UV LIGHT BANK 01 Final Effluent building	PM	Inspection	Uv Light Bank 01 Effluent Insp/Clean/Service (1m/1y) 5520	CLOSE	3/14/24 03:48 PM
3812591	0000065531	ENGINE DIESEL GENERATOR	PM	Inspection	Engine Diesel St. Mary's WWTP Insp/Test (1m) 5520	CLOSE	3/15/24 11:35 AM
3812610	0000334281	PUMP CENTRIFUGAL RAS #3 BLOWER BUILDING	PM	Inspection	Pump Cent 03 Return Sludge Insp/Service (1m/1y) 5520	CLOSE	3/14/24 12:16 PM
3812626	0000269085	ENGINE DIESEL GENERATOR ROBINSON ST	PM	Inspection	Engine Diesel Robinson St PS Insp/Test (1m) 5520	CLOSE	3/12/24 02:58 PM
3812936			PM	HEALTH AND SAFETY	OG15 Facility OHSA Inspection (1m) 5520	CLOSE	3/28/24 03:13 PM
3813000			OPER	Compliance	WISKI Data Review (1m) 5520	CLOSE	3/12/24 01:23 PM
3813016			OPER	Compliance	WISKI Data Entry (1m) 5520	CLOSE	4/2/24 09:19 AM
3813198			OPER	Compliance	Sampling and Testing (1m) 5520	CLOSE	4/2/24 09:20 AM
3813298	0000269089	PANEL ALARM/DIALER 01 EMILY ST	PM	Inspection	Alarm Dialer 01 Emily St. PS Testing (1m) 5520	CLOSE	3/8/24 04:12 PM
3831215			OPER	HEALTH AND SAFETY	Monthly OHSA Workplace Inspection (1m) - 5520	CLOSE	3/28/24 03:13 PM
3831337	0000207059	GENERATOR Diesel Queen St 5520	PM	Refurbish/Replace/R epair	Engine Diesel Queen St PS Insp/Test (1m) 5520	CLOSE	3/12/24 02:56 PM
3832837			PM	HEALTH AND SAFETY	FIRE EXTINGUISHER ROUTE Insp/Service (1m)5520	CLOSE	3/11/24 04:00 PM
3832855			OPER	Inspection	Daily O&M Pumping Stations (1m) 5520	CLOSE	4/2/24 09:21 AM

3832860			OPER	Inspection	TPM Insp/Maint Pumping Stations (1m) 5520	CLOSE	4/2/24 09:22 AM
3832865			OPER	Inspection	TPM Insp/Maint Collection System (1m) 5520	CLOSE	4/2/24 09:22 AM
3832977	0000334260	MOTOR 2 RAS PUMP OLD RAS BUILDING	PM	Refurbish/Replace/Repair	RAS PUMP MOTOR 2 Insp/Maint (1m) 5520	CLOSE	3/14/24 07:48 AM
3833774	0000332739	FAN EXHAUST DUCT VENTILATION LYSTEK BUILDING	PM	Refurbish/Replace/Repair	Fan Exhaust Duct Lystek Building Insp/Maint (1m) 5520	CLOSE	3/14/24 12:18 PM
3833777			PM	HEALTH AND SAFETY	EMERGENCY LIGHTING ROUTE Insp/service (1m) 5520	CLOSE	3/11/24 03:52 PM
3833826			PM	Inspection	UPS Route Insp/Service (1m) 5520	CLOSE	3/11/24 03:57 PM
3833960			PM	Refurbish/Replace/Repair	Detroit Route Insp/Maint (1m) 5520	CLOSE	3/14/24 12:19 PM
3834136			PM	HEALTH AND SAFETY	EYEWASH ROUTE Inspection/Service (1m) 5520	CLOSE	3/11/24 03:50 PM
3834581			PM	Predictive Maintenance	Lystek Building Greasing Route	CLOSE	3/14/24 12:20 PM
3834591			PM	Predictive Maintenance	Raw Building Gear Box Inspections	CLOSE	3/14/24 12:21 PM
3834595			PM	Predictive Maintenance	WASEQ Pump Greasing 3-4	CLOSE	3/14/24 12:22 PM
3847730			PM	Compliance	RP03 Annual Report ECA (1y) 5520	CLOSE	3/21/24 11:18 AM
3849932			EMER	Refurbish/Replace/Repair	Robinson St Pump #1 issues	CLOSE	3/18/24 11:30 AM
3851281			OPER	Inspection	Daily O&M Activities St Marys WWTP (1m) 5520	CLOSE	5/1/24 07:36 AM

3851654	0000278207	PUMP CENT #1 Emily St 5520	CORR	Refurbish/Replace/Repair	pulled pump #1 to trouble shoot and inspect 5520	CLOSE	3/28/24 02:54 PM
3857198			PM	Inspection	Lifting Device Route (1y) 5520	CLOSE	4/4/24 03:52 PM
3857264	0000065331	CONVEYOR 01 RAKE GRIT	PM	Refurbish/Replace/Repair	Conveyor 01 Rake Grit Insp/Service (1y) 5520	CLOSE	4/2/24 02:37 PM
3857274	0000065334	MIXER 01 GRIT ORGANIC PUMP	PM	Refurbish/Replace/Repair	Mixer 01 Grit Organic Pump Insp/Service (1y) 5520	CLOSE	4/4/24 11:41 AM
3857285	0000065544	PANEL ALARM/DIALER	PM	Inspection	Alarm Dialer Testing (1m) 5520	CLOSE	4/4/24 11:31 AM
3857290	0000065226	PANEL ALARM/DIALER 01 QUEEN ST	PM	Inspection	Alarm Dialer 01 Queen PS Testing (1m) 5520	CLOSE	4/3/24 03:46 PM
3857295	0000065211	PANEL ALARM/DIALER 01 ROBINSON ST	PM	Inspection	Alarm Dialer 01 Robinson PS Testing (1m) 5520	CLOSE	4/3/24 03:47 PM
3857300	0000065337	SCREEN 01 DETROITER TANK COMPONENTS	PM	Refurbish/Replace/Repair	Screen 01 Detroit Tank Components Insp/Service (1y) 5520	CLOSE	4/4/24 11:32 AM
3857497			PM	Inspection	PH Probe Insp/Calib (1m) 5520	CLOSE	4/3/24 07:52 AM
3857502			PM	Refurbish/Replace/Repair	Chemical System Flushing (6m) 5520	CLOSE	4/12/24 02:19 PM
3857505			OPER	Inspection	TPM Insp/Maint St Marys WWTP (1m) 5520	CLOSE	4/5/24 11:54 AM
3857746	0000065526	UV LIGHT BANK 02 Final Effluent Building	PM	Inspection	Uv Light Bank 02 Effluent Insp/Clean/Service (1m/1y) 5520	CLOSE	4/17/24 03:48 PM
3857753	0000065527	UV LIGHT BANK 01 Final Effluent building	PM	Inspection	Uv Light Bank 01 Effluent Insp/Clean/Service (1m/1y) 5520	CLOSE	4/15/24 07:52 AM
3857760	0000065531	ENGINE DIESEL GENERATOR	PM	Inspection	Engine Diesel St. Mary's WWTP Insp/Test (1m) 5520	CLOSE	4/3/24 03:50 PM
3857779	0000334281	PUMP CENTRIFUGAL RAS #3 BLOWER BUILDING	PM	Inspection	Pump Cent 03 Return Sludge Insp/Service (1m/1y) 5520	CLOSE	4/3/24 03:49 PM

		ENGINE DIESEL GENERATOR ROBINSON ST	PM	Inspection	Engine Diesel Robinson St PS Insp/Test (1m) 5520	CLOSE	4/2/24 02:39 PM
3857792	0000269085		PM	HEALTH AND SAFETY	OG15 Facility OHSA Inspection (1m) 5520	CLOSE	5/1/24 07:37 AM
3858069			OPER	Compliance	WISKI Data Review (1m) 5520	CLOSE	4/9/24 11:56 AM
3858085			OPER	Compliance	WISKI Data Entry (1m) 5520	CLOSE	5/1/24 12:07 PM
3858101			OPER	Compliance	Sampling and Testing (1m) 5520	CLOSE	4/3/24 03:50 PM
3858380			OPER	Compliance	Alarm Dialer 01 Emily St. PS Testing (1m) 5520	CLOSE	4/3/24 03:51 PM
3858477	0000269089	PANEL ALARM/DIALER 01 EMILY ST	PM	Inspection	Monthly OHSA Workplace Inspection (1m) - 5520	CLOSE	4/25/24 03:39 PM
3879550			OPER	HEALTH AND SAFETY	Engine Diesel Queen St PS Insp/Test (1m) 5520	CLOSE	4/2/24 02:42 PM
3879705	0000207059	GENERATOR Diesel Queen St 5520	PM	Refurbish/Replace/R epair	FIRE EXTINGUISHER ROUTE Insp/Service (1m)5520	CLOSE	4/4/24 11:46 AM
3882176			PM	HEALTH AND SAFETY	Daily O&M Pumping Stations (1m) 5520	CLOSE	5/1/24 12:09 PM
3882194			OPER	Inspection	TPM Insp/Maint Pumping Stations (1m) 5520	CLOSE	5/1/24 12:09 PM
3882199			OPER	Inspection		CLOSE	

3882204			OPER	Inspection	TPM Insp/Maint Collection System (1m) 5520	CLOSE	5/1/24 12:10 PM
3882308	0000334260	MOTOR 2 RAS PUMP OLD RAS BUILDING	PM	Refurbish/Replace/R epair	RAS PUMP MOTOR 2 Insp/Maint (1m) 5520	CLOSE	4/2/24 02:46 PM
3883142	0000332739	FAN EXHAUST DUCT VENTILATION LYSTEK BUILDING	PM	Refurbish/Replace/R epair	Fan Exhaust Duct Lystek Building Insp/Maint (1m) 5520	CLOSE	4/12/24 02:31 PM
3883145			PM	HEALTH AND SAFETY	EMERGENCY LIGHTING ROUTE Insp/service (1m) 5520	CLOSE	4/4/24 11:48 AM
3883203			PM	Inspection	Heater Route Insp/Service (6m) 5520	CLOSE	4/12/24 02:32 PM
3883220			PM	Inspection	UPS Route Insp/Service (1m) 5520	CLOSE	4/4/24 11:49 AM
3883434			PM	Refurbish/Replace/R epair	Detroit Route Insp/Maint (1m) 5520	CLOSE	4/4/24 04:01 PM
3883603			PM	HEALTH AND SAFETY	EYEWASH ROUTE Inspection/Service (1m) 5520	CLOSE	4/4/24 11:50 AM
3884181			PM	Predictive Maintenance	Lystek Building Greasing Route	CLOSE	4/4/24 04:02 PM
3884192			PM	Predictive Maintenance	Raw Building Gear Box Inspections	CLOSE	4/12/24 02:49 PM
3884196			PM	Predictive Maintenance	WASEQ Pump Greasing 3-4	CLOSE	4/3/24 03:55 PM
3901400			CORR	Refurbish/Replace/R epair	Electrical Switchover	CLOSE	4/23/24 03:43 PM
3901459			PM	Compliance	WSER Quarterly Reporting (3m) 5520	CLOSE	4/16/24 08:03 AM
3902535			CAP	Refurbish/Replace/R epair	Final Effluent Flow Meter	CLOSE	5/16/24 07:56 AM
3903675	0000310931	SWITCH DISCONNECT HEATER DIGESTER BASEMENT	CORR	Refurbish/Replace/R epair	Trouble shot faulty equipment after basement flood 5520	CLOSE	4/25/24 02:13 PM
3903734			OPER	Inspection	Daily O&M Activities St Marys WWTP (1m) 5520	CLOSE	6/3/24 12:24 PM

3909419	0000065597	METER FLOW FIT1 RAS BLOWER BUILDING	PM	Calibration	Meter Flow Fit1 RAS Insp/Service (1y) 5520	CLOSE	6/28/24 02:53 PM
3909425	0000065564	METER FLOW OLD RAS 4'	PM	Calibration	Meter Flow RAS Insp/Service (1y) 5520	CLOSE	6/28/24 02:54 PM
3909431	0000157006	METER FLOW FIT 601 VELOCITY FINAL EFFLUENT	PM	Calibration	Meter Flow Velocity Final Efflu ent Insp/Service (1y) 5520	CLOSE	5/29/24 12:34 PM
3909440	0000065544	PANEL ALARM/DIALER	PM	Inspection	Alarm Dialer Testing (1m) 5520	CLOSE	5/3/24 03:41 PM
3909445	0000065226	PANEL ALARM/DIALER 01 QUEEN ST	PM	Inspection	Alarm Dialer 01 Queen PS Testing (1m) 5520	CLOSE	5/1/24 02:13 PM
3909450	0000065211	PANEL ALARM/DIALER 01 ROBINSON ST	PM	Inspection	Alarm Dialer 01 Robinson PS Testing (1m) 5520	CLOSE	5/1/24 02:14 PM
3909648			PM	Inspection	PH Probe Insp/Calib (1m) 5520	CLOSE	5/2/24 07:45 AM
3909653			OPER	Inspection	TPM Insp/Maint St Marys WWTP (1m) 5520	CLOSE	6/3/24 12:25 PM
3909870	0000065526	UV LIGHT BANK 02 Final Effluent Building	PM	Inspection	Uv Light Bank 02 Effluent Insp/Clean/Service (1m/1y) 5520	CLOSE	5/7/24 03:35 PM
3909877	0000065527	UV LIGHT BANK 01 Final Effluent building	PM	Inspection	Uv Light Bank 01 Effluent Insp/Clean/Service (1m/1y) 5520	CLOSE	5/7/24 11:15 AM
3909884	0000065531	ENGINE DIESEL GENERATOR	PM	Inspection	Engine Diesel St. Mary's WWTP Insp/Test (1m) 5520	CLOSE	5/29/24 12:37 PM
3909903	0000334281	PUMP CENTRIFUGAL RAS #3 BLOWER BUILDING	PM	Inspection	Pump Cent 03 Return Sludge Insp/Service (1m/1y) 5520	CLOSE	5/3/24 03:19 PM
3909919	0000269085	ENGINE DIESEL GENERATOR ROBINSON ST	PM	Inspection	Engine Diesel Robinson St PS Insp/Test (1m) 5520	CLOSE	5/1/24 02:15 PM

		ROBINSON ST					
3910214			PM	Compliance	OG35 FEP Review (1y) 5520	CLOSE	5/3/24 10:28 AM
3910224			PM	HEALTH AND SAFETY	OG15 Facility OHSA Inspection (1m) 5520	CLOSE	5/31/24 03:25 PM
3910240			OPER	Compliance	WISKI Data Review (1m) 5520	CLOSE	5/15/24 10:57 AM
3910256			OPER	Compliance	WISKI Data Entry (1m) 5520	CLOSE	6/3/24 12:26 PM
3910553			OPER	Compliance	Sampling and Testing (1m) 5520	CLOSE	6/3/24 12:26 PM
3910706	0000269089	PANEL ALARM/DIALER 01 EMILY ST	PM	Inspection	Alarm Dialer 01 Emily St. PS Testing (1m) 5520	CLOSE	5/1/24 02:16 PM
3930159			OPER	HEALTH AND SAFETY	Monthly OHSA Workplace Inspection (1m) - 5520	CLOSE	5/31/24 03:29 PM
3930277	0000207059	GENERATOR Diesel Queen St 5520	PM	Refurbish/Replace/Repair	Engine Diesel Queen St PS Insp/Test (1m) 5520	CLOSE	5/1/24 02:17 PM
3931372			CORR	Refurbish/Replace/Repair	P 404 VFD issues	CLOSE	5/6/24 02:03 PM
3931868			PM	HEALTH AND SAFETY	FIRE EXTINGUISHER ROUTE Insp/Service (1m)5520	CLOSE	5/2/24 02:28 PM
3931886			OPER	Inspection	Daily O&M Pumping Stations (1m) 5520	CLOSE	6/3/24 12:28 PM

3931891			OPER	Inspection	TPM Insp/Maint Pumping Stations (1m) 5520	CLOSE	6/3/24 12:28 PM
3931896			OPER	Inspection	TPM Insp/Maint Collection System (1m) 5520	CLOSE	6/3/24 12:29 PM
3932010	0000334260	MOTOR 2 RAS PUMP OLD RAS BUILDING	PM	Refurbish/Replace/R epair	RAS PUMP MOTOR 2 Insp/Maint (1m) 5520	CLOSE	5/1/24 03:54 PM
3932368			PM	Inspection	Supervisor Spot Check St Marys Facilities (3m) 5520/1262	CLOSE	7/2/24 10:03 AM
3932687	0000332739	FAN EXHAUST DUCT VENTILATION LYSTEK BUILDING	PM	Refurbish/Replace/R epair	Fan Exhaust Duct Lystek Building Insp/Maint (1m) 5520	CLOSE	5/3/24 01:03 PM
3932690			PM	HEALTH AND SAFETY	EMERGENCY LIGHTING ROUTE Insp/service (1m) 5520	CLOSE	5/3/24 01:04 PM
3932731			PM	Inspection	UPS Route Insp/Service (1m) 5520	CLOSE	5/2/24 03:52 PM
3932954			PM	Refurbish/Replace/R epair	Detroit Route Insp/Maint (1m) 5520	CLOSE	5/6/24 12:56 PM
3933129			PM	HEALTH AND SAFETY	EYEWASH ROUTE Inspection/Service (1m) 5520	CLOSE	5/2/24 03:53 PM
3933533			PM	Predictive Maintenance	Lystek Building Greasing Route	CLOSE	5/3/24 01:05 PM
3933543			PM	Predictive Maintenance	Raw Building Gear Box Inspections	CLOSE	5/3/24 01:07 PM
3933547			PM	Predictive Maintenance	WASEQ Pump Greasing 3-4	CLOSE	5/3/24 01:08 PM
3937200			PM	Compliance	MECP Overflow & Bypass Event Summary Report (3m)	CLOSE	5/3/24 10:29 AM
3947399			PM	Inspection	ESA inspection @ St Mary's WPCP 5520	CLOSE	5/3/24 02:14 PM
3951121	0000326601	COLLECTOR Auger Raw Sewage Muffin Monster	CORR	Refurbish/Replace/R epair	Replaced faulty Auger selector switch. 5520	CLOSE	5/21/24 03:32 PM
3951685			EMER	Refurbish/Replace/R epair	Sewer Back up 15 Valleyview Lane	CLOSE	5/24/24 07:57 AM
3951953			OPER	Inspection	Daily O&M Activities St Marys WWTP (1m) 5520	CLOSE	7/4/24 03:46 PM

3952528			CAP	Refurbish/Replace/Repair	Robinson St SPS rebuild	CLOSE	6/25/24 02:08 PM
3957735	0000334312	BOILER STEAM LYSTEK BUILDING	PM	Refurbish/Replace/Repair	Boiler Industrial Heating Eqmt Insp/Service (1y) 5520	CLOSE	7/18/24 03:57 PM
3957741	0000334307	BOILER PREHEAT TANK LYTEK BUILDING	PM	Refurbish/Replace/Repair	Boiler Preheat Tank Water Insp/Service (1y) 5520	CLOSE	7/18/24 03:57 PM
3957747	0000241332	MOTOR G268 GRINDER MUFFIN MONSTER LYTEK BUILDING	PM	Inspection	Grinder Muffin Monster Bar Insp/Service (1y) 5520	CLOSE	6/4/24 02:20 PM
3957750	0000241336	METER FLOW FIT-261 TO CENTRIFUGE LYSTEK BUILDING	PM	Calibration	Meter Flow Digested Sludge Insp/Service (1y) 5520	CLOSE	6/28/24 02:54 PM
3957756	0000157005	METER FLOW AERATION BYPASS	PM	Calibration	Meter Flow Effluent Bypass Insp/Service (1y) 5520	CLOSE	6/28/24 02:55 PM
3957762	0000241337	METER FLOW FIT-225 WAS TO RDT LYTEK BUILDING	PM	Calibration	Meter Flow Thickened Was Insp/Service (1y) 5520	CLOSE	6/28/24 02:56 PM
3957768	0000065240	TRANSMITTER LEVEL MILTRONICS RAW SEWAGE	PM	Calibration	Meter Level Raw Sewage Insp/Service (1y) 5520	CLOSE	6/28/24 02:56 PM
3957773	0000241326	MOTOR LYTEK REACTOR MIXER	PM	Inspection	Mixer Polymer Reactor Insp/Service (1y) 5520	CLOSE	6/5/24 02:27 PM
3957779	0000065544	PANEL ALARM/DIALER	PM	Inspection	Alarm Dialer Testing (1m) 5520	CLOSE	6/7/24 12:56 PM
3957784	0000065226	PANEL ALARM/DIALER 01 QUEEN ST	PM	Inspection	Alarm Dialer 01 Queen PS Testing (1m) 5520	CLOSE	6/7/24 12:57 PM
3957789	0000065211	PANEL ALARM/DIALER 01 ROBINSON ST	PM	Inspection	Alarm Dialer 01 Robinson PS Testing (1m) 5520	CLOSE	6/6/24 07:59 AM
3957794	0000241346	PUMP CENT P241 LYSTEK PROD PUMP	PM	Inspection	Pump Cent Lystek Prod Pump Insp/Service (1y) 5520	CLOSE	6/4/24 02:01 PM
3957813	0000241347	PUMP CENT P242 LYSTEK PROD PUMP	PM	Inspection	Pump Cent Lystek Prod Pump Insp/Service (1y) 5520	CLOSE	6/4/24 02:02 PM
3957851	0000241327	PUMP DIAPHRAGM CHEMICAL METERING KEYTECH LYTEK BUILDING	PM	Refurbish/Replace/Repair	Pump Peristaltic Chemical Met ering Insp/Service (3m) 5520	CLOSE	6/12/24 11:08 AM
3957871	0000065224	PUMP SUBMERSIBLE 01 QUEEN ST	PM	Refurbish/Replace/Repair	Pump Subm 01 Queen St Insp/Service (1y) 5520	CLOSE	6/11/24 07:39 AM
3957880	0000065223	PUMP SUBMERSIBLE 02 QUEEN ST	PM	Refurbish/Replace/Repair	Pump Subm 02 Queen St Insp/Service (1y) 5520	CLOSE	6/11/24 07:40 AM
3957895	0000241325	TANK HOT WATER HEATER ELECTRIC	PM	Refurbish/Replace/Repair	Tank Hot Water Heater Electri cal (1y) 5520	CLOSE	6/5/24 02:31 PM

		HEATER ELECTRIC LYSTEK BUILDING		epair	c Insp (1y) 5520		
3958287			PM	Inspection	PH Probe Insp/Calib (1m) 5520	CLOSE	6/4/24 02:05 PM
3958292			PM	Refurbish/Replace/R epair	Spill Kit Inspect (6m) 5520/1262	CLOSE	6/12/24 07:49 AM
3958294			OPER	Inspection	TPM Insp/Maint St Marys WWTP (1m) 5520	CLOSE	7/2/24 08:22 AM
3958545	0000065526	UV LIGHT BANK 02 Final Effluent Building	PM	Inspection	Uv Light Bank 02 Effluent Insp/Clean/Service (1m/1y) 5520	CLOSE	6/28/24 07:35 AM
3958552	0000065527	UV LIGHT BANK 01 Final Effluent building	PM	Inspection	Uv Light Bank 01 Effluent Insp/Clean/Service (1m/1y) 5520	CLOSE	6/20/24 08:02 AM
3958559	0000065531	ENGINE DIESEL GENERATOR	PM	Inspection	Engine Diesel St. Mary's WWTP Insp/Test (1m) 5520	CLOSE	6/20/24 02:09 PM
3958578	0000334320	PUMP CENT #4 RAS BLOWER BUILDING	PM	Inspection	Pump Cent 04 Return Sludge Insp/Service (1m/1y) 5520	CLOSE	6/4/24 02:07 PM
3958597	0000334281	PUMP CENTRIFUGAL RAS #3 BLOWER BUILDING	PM	Inspection	Pump Cent 03 Return Sludge Insp/Service (1m/1y) 5520	CLOSE	6/4/24 02:08 PM
3958607	0000334318	PUMP P404 ROT LOBE DIGESTER BASEMENT	PM	Inspection	Pump Rot Lobe Insp/Service (1m/1y) 5520	CLOSE	6/4/24 02:09 PM
3958613	0000269085	ENGINE DIESEL GENERATOR ROBINSON ST	PM	Inspection	Engine Diesel Robinson St PS Insp/Test (1m) 5520	CLOSE	6/7/24 12:59 PM
3958918			PM	HEALTH AND SAFETY	OG15 Facility OHSA Inspection (1m) 5520	CLOSE	6/27/24 03:50 PM
3958947			OPER	Compliance	WISKI Data Review (1m) 5520	CLOSE	6/12/24 08:22 AM
3958963			OPER	Compliance	WISKI Data Entry (1m) 5520	CLOSE	7/2/24 08:24 AM
3959137			OPER	Compliance	Sampling and Testing (1m) 5520	CLOSE	7/2/24 08:25 AM
3959231	0000269089	PANEL ALARM/DIALER 01 EMILY ST	PM	Inspection	Alarm Dialer 01 Emily St. PS Testing (1m) 5520	CLOSE	6/6/24 08:02 AM
3979811			OPER	HEALTH AND SAFETY	Monthly OHSA Workplace Inspection (1m) - 5520	CLOSE	6/27/24 03:51 PM
3979987	0000207059	GENERATOR Diesel Queen St 5520	PM	Refurbish/Replace/R epair	Engine Diesel Queen St PS Insp/Test (1m) 5520	CLOSE	6/24/24 03:23 PM
3981699			PM	HEALTH AND SAFETY	FIRE EXTINGUISHER ROUTE Insp/Service (1m)5520	CLOSE	6/4/24 04:00 PM
3981717			OPER	Inspection	Daily O&M Pumping Stations (1m) 5520	CLOSE	7/4/24 03:47 PM

3981722			OPER	Inspection	TPM Insp/Maint Pumping Stations (1m) 5520	CLOSE	7/2/24 08:29 AM
3981727			OPER	Inspection	TPM Insp/Maint Collection System (1m) 5520	CLOSE	7/2/24 08:29 AM
3981842	0000334260	MOTOR 2 RAS PUMP OLD RAS BUILDING	PM	Refurbish/Replace/R epair	RAS PUMP MOTOR 2 Insp/Maint (1m) 5520	CLOSE	6/4/24 02:12 PM
3982609	0000334306	TRANSMITTER LEVEL MILTRONICS TWAS / DEWATERED SLUDGE	PM	Calibration	Meter Level Dewatered Sludge Insp/Service (1y) 5520	CLOSE	7/2/24 08:32 AM
3982614	0000332739	FAN EXHAUST DUCT VENTILATION LYSTEK BUILDING	PM	Refurbish/Replace/R epair	Fan Exhaust Duct Lystek Building Insp/Maint (1m) 5520	CLOSE	6/5/24 02:36 PM
3982624			PM	HEALTH AND SAFETY	EMERGENCY LIGHTING ROUTE Insp/service (1m) 5520	CLOSE	6/4/24 04:01 PM
3982682			PM	Inspection	UPS Route Insp/Service (1m) 5520	CLOSE	6/4/24 04:02 PM
3982887			PM	Refurbish/Replace/R epair	Detroit Route Insp/Maint (1m) 5520	CLOSE	6/12/24 08:00 AM
3983067			PM	HEALTH AND SAFETY	EYEWASH ROUTE Inspection/Service (1m) 5520	CLOSE	6/4/24 04:03 PM
3983454			PM	Predictive Maintenance	Lystek Building Greasing Route	CLOSE	6/5/24 02:38 PM
3983464			PM	Predictive Maintenance	Raw Building Gear Box Inspections	CLOSE	6/5/24 02:39 PM
3983467			PM	Predictive Maintenance	WASEQ Pump Greasing 3-4	CLOSE	6/4/24 02:14 PM
3997553			CORR	Refurbish/Replace/R epair	Queen St PS rebuild	CLOSE	6/6/24 11:58 AM
3997670			CORR	Refurbish/Replace/R epair	Queen St SPS rebuld	CLOSE	6/27/24 09:19 AM
3998845			CAP	Refurbish/Replace/R epair	Lystek VFD Replacements	CLOSE	12/3/24 02:19 PM
4000510			CORR	Refurbish/Replace/R epair	Robinson St Pump # 2 installation	CLOSE	6/20/24 09:07 AM
4000511			CORR	Refurbish/Replace/R epair	P 404 Amp issure motor replacement	CLOSE	6/20/24 09:08 AM
4000512			CORR	Refurbish/Replace/R epair	P251 input change	CLOSE	6/19/24 03:39 PM
4001462			CORR	Refurbish/Replace/R epair	Sludge Storage tank clean out	CLOSE	6/27/24 09:18 AM
4001608			OPER	Inspection	Daily O&M Activities St Marys WWTP (1m) 5520	CLOSE	8/1/24 07:45 AM

4001905			CAP	Inspection	Boiler Inspections for the Lystek Steam Boiler and the Gas Boiler for Heating	CLOSE	7/23/24 03:31 PM
4007575	0000065544	PANEL ALARM/DIALER	PM	Inspection	Alarm Dialer Testing (1m) 5520	CLOSE	7/4/24 11:29 AM
4007580	0000065226	PANEL ALARM/DIALER 01 QUEEN ST	PM	Inspection	Alarm Dialer 01 Queen PS Testing (1m) 5520	CLOSE	7/3/24 03:44 PM
4007585	0000065211	PANEL ALARM/DIALER 01 ROBINSON ST	PM	Inspection	Alarm Dialer 01 Robinson PS Testing (1m) 5520	CLOSE	7/3/24 03:45 PM
4007590	0000065205	PUMP SUBMERSIBLE 01 ROBINSON ST	PM	Refurbish/Replace/Repair	Pump Subm 01 Robinson St Insp/Service (1y) 5520	CLOSE	7/4/24 07:33 AM
4007599	0000065206	PUMP SUBMERSIBLE 02 ROBINSON ST	PM	Refurbish/Replace/Repair	Pump Subm 02 Robinson St Insp/Service (1y) 5520	CLOSE	7/4/24 07:34 AM
4007850			PM	Inspection	PH Probe Insp/Calib (1m) 5520	CLOSE	7/3/24 03:46 PM
4007855			OPER	Inspection	TPM Insp/Maint St Marys WWTP (1m) 5520	CLOSE	7/31/24 03:49 PM
4008079	0000065526	UV LIGHT BANK 02 Final Effluent Building	PM	Inspection	Uv Light Bank 02 Effluent Insp/Clean/Service (1m/1y) 5520	CLOSE	7/26/24 03:34 PM
4008086	0000065527	UV LIGHT BANK 01 Final Effluent building	PM	Inspection	Uv Light Bank 01 Effluent Insp/Clean/Service (1m/1y) 5520	CLOSE	7/25/24 03:55 PM
4008093	0000065531	ENGINE DIESEL GENERATOR	PM	Inspection	Engine Diesel St. Mary's WWTP Insp/Test (1m) 5520	CLOSE	7/26/24 03:43 PM
4008112	0000334320	PUMP CENT #4 RAS BLOWER BUILDING	PM	Inspection	Pump Cent 04 Return Sludge Insp/Service (1m/1y) 5520	CLOSE	7/4/24 03:50 PM
4008122	0000334281	PUMP CENTRIFUGAL RAS #3 BLOWER BUILDING	PM	Inspection	Pump Cent 03 Return Sludge Insp/Service (1m/1y) 5520	CLOSE	7/4/24 03:53 PM
4008132	0000334318	PUMP P404 ROT LOBE DIGESTER BASEMENT	PM	Inspection	Pump Rot Lobe Insp/Service (1m/1y) 5520	CLOSE	7/19/24 03:54 PM

4008138	0000269085	ENGINE DIESEL GENERATOR ROBINSON ST	PM	Inspection	Engine Diesel Robinson St PS Insp/Test (1m) 5520	CLOSE	7/3/24 03:48 PM
4008412			PM	HEALTH AND SAFETY	OG15 Facility OHSA Inspection (1m) 5520	CLOSE	7/29/24 03:47 PM
4008428			OPER	Compliance	WISKI Data Review (1m) 5520	CLOSE	7/9/24 01:14 PM
4008444			OPER	Compliance	WISKI Data Entry (1m) 5520	CLOSE	7/31/24 03:48 PM
4008637			OPER	Compliance	Sampling and Testing (1m) 5520	CLOSE	8/1/24 07:46 AM
4008728	0000269089	PANEL ALARM/DIALER 01 EMILY ST	PM	Inspection	Alarm Dialer 01 Emily St. PS Testing (1m) 5520	CLOSE	7/2/24 02:38 PM
4027248			OPER	HEALTH AND SAFETY	Monthly OHSA Workplace Inspection (1m) - 5520	CLOSE	7/29/24 03:46 PM
4027410	0000207059	GENERATOR Diesel Queen St 5520	PM	Refurbish/Replace/R epair	Engine Diesel Queen St PS Insp/Test (1m) 5520	CLOSE	7/3/24 03:50 PM
4029244			PM	HEALTH AND SAFETY	FIRE EXTINGUISHER ROUTE Insp/Service (1m)5520	CLOSE	7/3/24 03:43 PM
4029262			OPER	Inspection	Daily O&M Pumping Stations (1m) 5520	CLOSE	7/31/24 03:46 PM
4029267			OPER	Inspection	TPM Insp/Maint Pumping Stations (1m) 5520	CLOSE	7/31/24 03:45 PM

4029272			OPER	Inspection	TPM Insp/Maint Collection System (1m) 5520	CLOSE	7/31/24 03:46 PM
4029376	0000334260	MOTOR 2 RAS PUMP OLD RAS BUILDING	PM	Refurbish/Replace/R epair	RAS PUMP MOTOR 2 Insp/Maint (1m) 5520	CLOSE	7/3/24 03:52 PM
4030254	0000332739	FAN EXHAUST DUCT VENTILATION LYSTEK BUILDING	PM	Refurbish/Replace/R epair	Fan Exhaust Duct Lystek Building Insp/Maint (1m) 5520	CLOSE	7/9/24 02:32 PM
4030257			PM	HEALTH AND SAFETY	EMERGENCY LIGHTING ROUTE Insp/service (1m) 5520	CLOSE	7/3/24 03:45 PM
4030308			PM	Inspection	UPS Route Insp/Service (1m) 5520	CLOSE	7/3/24 03:46 PM
4030523			PM	Refurbish/Replace/R epair	Detroit Route Insp/Maint (1m) 5520	CLOSE	7/3/24 03:47 PM
4030686			PM	HEALTH AND SAFETY	EYEWASH ROUTE Inspection/Service (1m) 5520	CLOSE	7/3/24 03:49 PM
4031242			PM	Predictive Maintenance	Lystek Building Greasing Route	CLOSE	7/4/24 02:03 PM
4031252			PM	Predictive Maintenance	Lystek Motor Greasing Schedule	CLOSE	7/4/24 02:04 PM
4031263			PM	Predictive Maintenance	Raw Building Gear Box Inspections	CLOSE	7/4/24 02:05 PM
4031266			PM	Predictive Maintenance	WASEQ Pump Greasing 3-4	CLOSE	7/4/24 02:06 PM
4031269			PM	Predictive Maintenance	WASEQ Motor greasing (1-2)	CLOSE	7/4/24 02:07 PM
4046339	0000326650	MOTOR SLUDGE LOADING PUMP	CORR	Refurbish/Replace/R epair	Disconnected motor in preparation for pump removal 5520	CLOSE	7/3/24 03:11 PM
4046341	0000065573	TANK ALUM BLOWER BUILDING	CORR	Refurbish/Replace/R epair	Trouble shot Alum level indicator not reading properly	CLOSE	8/7/24 07:40 AM
4046736			CAP	Refurbish/Replace/R epair	Emily St PS upgrades	CLOSE	7/31/24 03:43 PM
4046739			CAP	Refurbish/Replace/R epair	Pump Lystek from Tanks due to Sludge loading pump failure	CLOSE	7/23/24 03:37 PM
4046740			CAP	Refurbish/Replace/R epair	Hydrovac and wash Lystek Holding cell where faulty Sludge loading pump is	CLOSE	7/23/24 03:32 PM
4048618			PM	Compliance	WSER Quarterly Reporting (3m) 5520	CLOSE	8/19/24 09:15 AM
4049593			EMER	Compliance	Robinson St SPS spill	CLOSE	7/16/24 12:23 PM
4049915	0000326736	PANEL CONTROL GAS BOILER DIGESTER	CAP	Refurbish/Replace/R epair	Gas boiler controller replacement	CLOSE	7/23/24 03:34 PM
4049918	0000326736	PANEL CONTROL GAS BOILER DIGESTER	CAP	Refurbish/Replace/R epair	Gas boiler controller replacement	CLOSE	7/23/24 03:35 PM
4049939			EMER	Refurbish/Replace/R epair	Check valve repair	CLOSE	7/18/24 03:59 PM
4051116			CORR	Refurbish/Replace/R epair	Weekend Plant checks	CLOSE	7/25/24 07:46 AM
4051420			OPER	Inspection	Daily O&M Activities St Marys WWTP (1m) 5520	CLOSE	9/3/24 03:52 PM

4056599	0000065210	TRANSMITTER LEVEL MILTRONICS ROBINSON ST	PM	Calibration	Meter Level 01 Robinson St Insp/Service (1y) 5520	CLOSE	8/8/24 07:42 AM
4056607	0000065544	PANEL ALARM/DIALER	PM	Inspection	Alarm Dialer Testing (1m) 5520	CLOSE	8/8/24 02:16 PM
4056612	0000065226	PANEL ALARM/DIALER 01 QUEEN ST	PM	Inspection	Alarm Dialer 01 Queen PS Testing (1m) 5520	CLOSE	8/2/24 11:19 AM
4056617	0000065211	PANEL ALARM/DIALER 01 ROBINSON ST	PM	Inspection	Alarm Dialer 01 Robinson PS Testing (1m) 5520	CLOSE	8/2/24 11:20 AM
4056622	0000334302	PUMP SUBMERSIBLE 01 RAW SEWAGE	PM	Refurbish/Replace/R epair	Pump Subm 01 Raw Sewage Insp/Service (1y) 5520	CLOSE	8/12/24 12:52 PM
4056631	0000334303	PUMP SUBMERSIBLE 02 RAW SEWAGE	PM	Refurbish/Replace/R epair	Pump Subm 02 Raw Sewage Insp/Service (1y) 5520	CLOSE	8/12/24 12:53 PM
4056640	0000334304	PUMP SUBMERSIBLE 03 RAW SEWAGE	PM	Refurbish/Replace/R epair	Pump Subm 03 Raw Sewage Insp/Service (1y) 5520	CLOSE	8/12/24 12:54 PM
4056649	0000065270	RECORDER CHART METHANE GAS DIGESTER BUILDING	PM	Refurbish/Replace/R epair	Recorder Chart Methane Gas Insp/Service (1y) 5520	CLOSE	8/2/24 11:21 AM
4056874			PM	Inspection	PH Probe Insp/Calib (1m) 5520	CLOSE	8/2/24 11:22 AM
4056879			OPER	Inspection	TPM Insp/Maint St Marys WWTP (1m) 5520	CLOSE	9/3/24 03:55 PM
4057143	0000065526	UV LIGHT BANK 02 Final Effluent Building	PM	Inspection	Uv Light Bank 02 Effluent Insp/Clean/Service (1m/1y) 5520	CLOSE	8/20/24 02:03 PM
4057150	0000065527	UV LIGHT BANK 01 Final Effluent building	PM	Inspection	Uv Light Bank 01 Effluent Insp/Clean/Service (1m/1y) 5520	CLOSE	8/20/24 02:04 PM
4057157	0000065531	ENGINE DIESEL GENERATOR	PM	Inspection	Engine Diesel St. Mary's WWTP Insp/Test (1m) 5520	CLOSE	8/22/24 03:47 PM
4057176	0000334320	PUMP CENT #4 RAS BLOWER BUILDING	PM	Inspection	Pump Cent 04 Return Sludge Insp/Service (1m/1y) 5520	CLOSE	8/9/24 03:24 PM
4057186	0000334281	PUMP CENTRIFUGAL RAS #3 BLOWER BUILDING	PM	Inspection	Pump Cent 03 Return Sludge Insp/Service (1m/1y) 5520	CLOSE	8/9/24 03:27 PM
4057196	0000334318	PUMP P404 ROT LOBE DIGESTER BASEMENT	PM	Inspection	Pump Rot Lobe Insp/Service (1m/1y) 5520	CLOSE	8/13/24 02:51 PM
4057202	0000269085	ENGINE DIESEL GENERATOR ROBINSON ST	PM	Inspection	Engine Diesel Robinson St PS Insp/Test (1m) 5520	CLOSE	8/8/24 02:19 PM
4057442			PM	HEALTH AND SAFETY	OG15 Facility OHSA Inspection (1m) 5520	CLOSE	8/30/24 11:10 AM
4057458			OPER	Compliance	WISKI Data Review (1m) 5520	CLOSE	8/19/24 09:17 AM
4057474			OPER	Compliance	WISKI Data Entry (1m) 5520	CLOSE	9/4/24 07:38 AM

4057662			OPER	Compliance	Sampling and Testing (1m) 5520	CLOSE	9/3/24 03:55 PM
4057754	0000269089	PANEL ALARM/DIALER 01 EMILY ST	PM	Inspection	Alarm Dialer 01 Emily St. PS Testing (1m) 5520	CLOSE	8/2/24 11:23 AM
4074672			OPER	HEALTH AND SAFETY	Monthly OHSA Workplace Inspection (1m) - 5520	CLOSE	8/30/24 11:10 AM
4074784	0000207059	GENERATOR Diesel Queen St 5520	PM	Refurbish/Replace/Repair	Engine Diesel Queen St PS Insp/Test (1m) 5520	CLOSE	8/8/24 02:22 PM
4076288			PM	HEALTH AND SAFETY	FIRE EXTINGUISHER ROUTE Insp/Service (1m)5520	CLOSE	8/12/24 11:10 AM
4076306			OPER	Inspection	Daily O&M Pumping Stations (1m) 5520	CLOSE	9/3/24 03:57 PM
4076311			OPER	Inspection	TPM Insp/Maint Pumping Stations (1m) 5520	CLOSE	9/3/24 03:57 PM
4076316			OPER	Inspection	TPM Insp/Maint Collection System (1m) 5520	CLOSE	9/3/24 03:58 PM
4076376	0000310940	PANEL ALARM/DIALER FIRE ALARM LYSTEK	PM	Refurbish/Replace/Repair	Fire Alarm Insp/Maint (1y) 5520	CLOSE	8/14/24 08:10 AM

4076433	0000334260	MOTOR 2 RAS PUMP OLD RAS BUILDING	PM	Refurbish/Replace/R epair	RAS PUMP MOTOR 2 Insp/Maint (1m) 5520	CLOSE	8/8/24 02:24 PM
4077205	0000332739	FAN EXHAUST DUCT VENTILATION LYSTEK BUILDING	PM	Refurbish/Replace/R epair	Fan Exhaust Duct Lystek Building Insp/Maint (1m) 5520	CLOSE	8/13/24 02:52 PM
4077208			PM	HEALTH AND SAFETY	EMERGENCY LIGHTING ROUTE Insp/service (1m) 5520	CLOSE	8/12/24 11:11 AM
4077272			PM	Inspection	UPS Route Insp/Service (1m) 5520	CLOSE	8/13/24 07:55 AM
4077457			PM	Refurbish/Replace/R epair	Detroit Route Insp/Maint (1m) 5520	CLOSE	8/13/24 07:53 AM
4077637			PM	HEALTH AND SAFETY	EYEWASH ROUTE Inspection/Service (1m) 5520	CLOSE	8/13/24 07:56 AM
4078059			PM	Predictive Maintenance	Lystek Building Greasing Route	CLOSE	8/12/24 08:12 AM
4078069			PM	Predictive Maintenance	Raw Building Gear Box Inspections	CLOSE	8/8/24 02:32 PM
4078072			PM	Predictive Maintenance	WASEQ Pump Greasing 3-4	CLOSE	8/8/24 02:30 PM
4081490			PM	Compliance	MECP Overflow & Bypass Event Summary Report (3m)	CLOSE	8/19/24 09:18 AM
4092066			EMER	Refurbish/Replace/R epair	Low flow alarm well 2a	CLOSE	8/7/24 07:34 AM
4092131	0000278206	PUMP CENT #2 Emily St 5520	CORR	Refurbish/Replace/R epair	Pulled pump #2 to send away for rebuild. 5520	CLOSE	9/10/24 07:25 AM
4093079			CORR	Refurbish/Replace/R epair	Emily St Pump 1 replacement	CLOSE	8/9/24 03:34 PM
4093752			CORR	Refurbish/Replace/R epair	Check valve replacement	CLOSE	8/14/24 08:05 AM
4094204			CORR	Refurbish/Replace/R epair	Weekend Plant Checks	CLOSE	8/16/24 03:18 PM
4095162			PM	Refurbish/Replace/R epair	River sampling for BM ROSS	CLOSE	12/2/24 08:46 AM
4095962			OPER	Inspection	Daily O&M Activities St Marys WWTP (1m) 5520	CLOSE	10/1/24 03:00 PM

4076906			PM	Inspection	Supervisor Spot Check St Marys Facilities (3m) 5520/1262	CLOSE	10/1/24 04:11 PM
4101245			PM	Refurbish/Replace/Repair	MCC Route Insp/Service (3y) 5520	CLOSE	10/1/24 09:12 AM
4101386	0000065492	DRIVE VFD #2 FOR RAS #3/#5 BLOWER BUILDING	PM	Inspection	Drive VFD 02 RAS Pump Insp/Service (3y) 5520	CLOSE	9/11/24 02:19 PM
4101389	0000065568	DRIVE VFD #3 FOR RAS #4/#5 BLOWER BUILDING	PM	Inspection	Drive VFD 03 RAS Insp/Service (3y) 5520	CLOSE	9/11/24 02:21 PM
4101395	0000065544	PANEL ALARM/DIALER	PM	Inspection	Alarm Dialer Testing (1m) 5520	CLOSE	9/6/24 02:36 PM
4101400	0000065226	PANEL ALARM/DIALER 01 QUEEN ST	PM	Inspection	Alarm Dialer 01 Queen PS Testing (1m) 5520	CLOSE	9/4/24 03:21 PM
4101405	0000065211	PANEL ALARM/DIALER 01 ROBINSON ST	PM	Inspection	Alarm Dialer 01 Robinson PS Testing (1m) 5520	CLOSE	9/5/24 02:34 PM
4101612			PM	Inspection	PH Probe Insp/Calib (1m) 5520	CLOSE	9/4/24 03:22 PM
4101621			OPER	Inspection	TPM Insp/Maint St Marys WWTP (1m) 5520	CLOSE	10/1/24 09:16 AM
4101920	0000065526	UV LIGHT BANK 02 Final Effluent Building	PM	Inspection	Uv Light Bank 02 Effluent Insp/Clean/Service (1m/1y) 5520	CLOSE	9/13/24 02:14 PM
4101927	0000065527	UV LIGHT BANK 01 Final Effluent building	PM	Inspection	Uv Light Bank 01 Effluent Insp/Clean/Service (1m/1y) 5520	CLOSE	9/11/24 03:57 PM
4101934	0000065531	ENGINE DIESEL GENERATOR	PM	Inspection	Engine Diesel St. Mary's WWTP Insp/Test (1m) 5520	CLOSE	9/12/24 02:43 PM
4101953	0000334320	PUMP CENT #4 RAS BLOWER BUILDING	PM	Inspection	Pump Cent 04 Return Sludge Insp/Service (1m/1y) 5520	CLOSE	9/9/24 02:23 PM
4101963	0000334281	PUMP CENTRIFUGAL RAS #3 BLOWER BUILDING	PM	Inspection	Pump Cent 03 Return Sludge Insp/Service (1m/1y) 5520	CLOSE	9/9/24 02:25 PM
4101973	0000334318	PUMP P404 ROT LOBE DIGESTER BASEMENT	PM	Inspection	Pump Rot Lobe Insp/Service (1m/1y) 5520	CLOSE	9/9/24 02:30 PM
4101979	0000269085	ENGINE DIESEL GENERATOR ROBINSON ST	PM	Inspection	Engine Diesel Robinson St PS Insp/Test (1m) 5520	CLOSE	9/5/24 02:36 PM
4102541			PM	HEALTH AND SAFETY	OG15 Facility OHSA Inspection (1m) 5520	CLOSE	9/27/24 07:45 AM
4102573			OPER	Compliance	WISKI Data Review (1m) 5520	CLOSE	10/4/24 08:21 AM
4102604			OPER	Compliance	WISKI Data Entry (1m) 5520	CLOSE	10/1/24 03:03 PM

4102782			OPER	Compliance	Sampling and Testing (1m) 5520	CLOSE	10/1/24 03:04 PM
4102882	0000269089	PANEL ALARM/DIALER 01 EMILY ST	PM	Inspection	Alarm Dialer 01 Emily St. PS Testing (1m) 5520	CLOSE	9/4/24 03:27 PM
4115602			PM	HEALTH AND SAFETY	Vehicle Winter Supply Check (1y) 5520	CLOSE	9/27/24 03:35 PM
4122381			OPER	HEALTH AND SAFETY	Monthly OHSA Workplace Inspection (1m) - 5520	CLOSE	9/27/24 07:46 AM
4122506	0000207059	GENERATOR Diesel Queen St 5520	PM	Refurbish/Replace/Repair	Engine Diesel Queen St PS Insp/Test (1m) 5520	CLOSE	9/4/24 03:28 PM
4124429			PM	HEALTH AND SAFETY	FIRE EXTINGUISHER ROUTE Insp/Service (1m)5520	CLOSE	9/6/24 03:42 PM
4124447			OPER	Inspection	Daily O&M Pumping Stations (1m) 5520	CLOSE	10/31/24 07:47 AM

4124452			OPER	Inspection	TPM Insp/Maint Pumping Stations (1m) 5520	CLOSE	10/4/24 08:23 AM
4124457			OPER	Inspection	TPM Insp/Maint Collection System (1m) 5520	CLOSE	10/4/24 08:27 AM
4124563	0000334260	MOTOR 2 RAS PUMP OLD RAS BUILDING	PM	Refurbish/Replace/R epair	RAS PUMP MOTOR 2 Insp/Maint (1m) 5520	CLOSE	9/5/24 02:41 PM
4125362	0000332739	FAN EXHAUST DUCT VENTILATION LYSTEK BUILDING	PM	Refurbish/Replace/R epair	Fan Exhaust Duct Lystek Building Insp/Maint (1m) 5520	CLOSE	9/9/24 02:34 PM
4125365			PM	HEALTH AND SAFETY	EMERGENCY LIGHTING ROUTE Insp/service (1m) 5520	CLOSE	9/6/24 03:39 PM
4125411			PM	Inspection	UPS Route Insp/Service (1m) 5520	CLOSE	9/6/24 03:40 PM
4125518			PM	Refurbish/Replace/R epair	Detroit Route Insp/Maint (1m) 5520	CLOSE	9/6/24 03:42 PM
4125689			PM	HEALTH AND SAFETY	EYEWASH ROUTE Inspection/Service (1m) 5520	CLOSE	9/9/24 02:36 PM
4126111			PM	Predictive Maintenance	Lystek Building Greasing Route	CLOSE	9/9/24 02:42 PM
4126121			PM	Predictive Maintenance	Raw Building Gear Box Inspections	CLOSE	9/9/24 02:40 PM
4126124			PM	Predictive Maintenance	WASEQ Pump Greasing 3-4	CLOSE	9/9/24 02:39 PM
4144360			CAP	Refurbish/Replace/R epair	Rebuild Emily St. Sewage Pump #1	COMP	1/6/25 03:42 PM
4144544			CAP	Refurbish/Replace/R epair	Steam and Gas Boiler repairs	CLOSE	11/27/24 03:30 PM
4144599	0000326678	ANALYZER SUSPENDED SOLID TSS/ORP/PH/TURB BLOWER BUILDING	CORR	Refurbish/Replace/R epair	swapped south anoxic tank ORP sensor with cell #2 5520	CLOSE	9/17/24 02:54 PM
4144676			CAP	Refurbish/Replace/R epair	Lystek Centrifuge Decanter overhaul - Alfa Laval G2-40	CLOSE	11/27/24 03:29 PM
4145052			CORR	Refurbish/Replace/R epair	WPCP By-Pass	CLOSE	9/25/24 02:50 PM
4145770			CAP	Refurbish/Replace/R epair	Plant By-Pass WPCP	CLOSE	9/25/24 02:51 PM
4145856			CAP	Refurbish/Replace/R epair	Rotary Lobe Pump replacement - Centrifuge feed pump	CLOSE	11/27/24 03:31 PM
4145958			OPER	Inspection	Daily O&M Activities St Marys WWTP (1m) 5520	CLOSE	10/31/24 03:50 PM

4152210	0000065544	PANEL ALARM/DIALER	PM	Inspection	Alarm Dialer Testing (1m) 5520	CLOSE	10/2/24 07:38 AM
4152215	0000334348	PANEL ALARM/DIALER 01 QUEEN ST	PM	Inspection	Alarm Dialer 01 Queen PS Testing (1m) 5520	CLOSE	10/2/24 03:15 PM
4152220	0000334360	PANEL ALARM/DIALER 01 Robinson ST	PM	Inspection	Alarm Dialer 01 Robinson PS Testing (1m) 5520	CLOSE	10/2/24 03:16 PM
4152225	0000065639	PUMP CENT AERATION DRAIN BLOWER BUILDING	PM	Inspection	Pump Cent Aeration Drain Insp/Service (1y) 5520	CLOSE	10/1/24 11:18 AM
4152435			PM	Inspection	PH Probe Insp/Calib (1m) 5520	CLOSE	10/2/24 07:39 AM
4152440			PM	Refurbish/Replace/R epair	Chemical System Flushing (6m) 5520	CLOSE	10/23/24 07:39 AM
4152443			OPER	Inspection	TPM Insp/Maint St Marys WWTP (1m) 5520	CLOSE	11/4/24 11:03 AM
4152694	0000065526	UV LIGHT BANK 02 Final Effluent Building	PM	Refurbish/Replace/R epair	Uv Light Bank 02 Effluent Insp/Clean/Service (1m/1y) 5520	CLOSE	10/26/24 11:27 AM
4152714	0000065527	UV LIGHT BANK 01 Final Effluent building	PM	Refurbish/Replace/R epair	Uv Light Bank 01 Effluent Insp/Clean/Service (1m/1y) 5520	CLOSE	10/26/24 11:25 AM
4152734	0000065531	ENGINE DIESEL GENERATOR	PM	Inspection	Engine Diesel St. Mary's WWTP Insp/Test (1m) 5520	CLOSE	10/2/24 07:41 AM
4152753	0000334320	PUMP CENT #4 RAS BLOWER BUILDING	PM	Inspection	Pump Cent 04 Return Sludge Insp/Service (1m/1y) 5520	CLOSE	10/1/24 11:22 AM
4152763	0000334281	PUMP CENTRIFUGAL RAS #3 BLOWER BUILDING	PM	Inspection	Pump Cent 03 Return Sludge Insp/Service (1m/1y) 5520	CLOSE	10/1/24 11:23 AM
4152782	0000334318	PUMP P404 ROT LOBE DIGESTER BASEMENT	PM	Inspection	Pump Rot Lobe Insp/Service (1m/1y) 5520	CLOSE	10/1/24 11:36 AM
4152788	0000269085	ENGINE DIESEL GENERATOR ROBINSON ST	PM	Inspection	Engine Diesel Robinson St PS Insp/Test (1m) 5520	CLOSE	10/2/24 03:17 PM
4153024			PM	HEALTH AND SAFETY	OG15 Facility OHSA Inspection (1m) 5520	CLOSE	10/31/24 03:48 PM
4153040			OPER	Compliance	WISKI Data Review (1m) 5520	CLOSE	11/15/24 03:29 PM

4153066			OPER	Compliance	WISKI Data Entry (1m) 5520	CLOSE	11/19/24 12:32 PM
4153281			OPER	Compliance	Sampling and Testing (1m) 5520	CLOSE	11/4/24 11:04 AM
4153378	0000334355	PANEL ALARM/DIALER 01 Emily ST	PM	Inspection	Alarm Dialer 01 Emily St. PS Testing (1m) 5520	CLOSE	10/2/24 03:20 PM
4172847			OPER	HEALTH AND SAFETY	Monthly OHSA Workplace Inspection (1m) - 5520	CLOSE	10/31/24 03:50 PM
4172995	0000207059	GENERATOR Diesel Queen St 5520	PM	Refurbish/Replace/Repair	Engine Diesel Queen St PS Insp/Test (1m) 5520	CLOSE	10/2/24 03:21 PM
4174707			PM	HEALTH AND SAFETY	FIRE EXTINGUISHER ROUTE Insp/Service (1m)5520	CLOSE	10/4/24 03:33 PM
4174725			OPER	Inspection	Daily O&M Pumping Stations (1m) 5520	CLOSE	11/4/24 11:06 AM
4174730			OPER	Inspection	TPM Insp/Maint Pumping Stations (1m) 5520	CLOSE	11/4/24 11:07 AM
4174735			OPER	Inspection	TPM Insp/Maint Collection System (1m) 5520	CLOSE	11/4/24 11:07 AM
4174839	0000334260	MOTOR 2 RAS PUMP OLD RAS BUILDING	PM	Refurbish/Replace/Repair	RAS PUMP MOTOR 2 Insp/Maint (1m) 5520	CLOSE	10/1/24 11:41 AM
4175531	0000332739	FAN EXHAUST DUCT VENTILATION LYSTEK BUILDING	PM	Refurbish/Replace/Repair	Fan Exhaust Duct Lystek Building Insp/Maint (1m) 5520	CLOSE	10/7/24 03:51 PM
4175534			PM	HEALTH AND SAFETY	EMERGENCY LIGHTING ROUTE Insp/service (1m) 5520	CLOSE	10/4/24 03:34 PM
4175589			PM	Inspection	Heater Route Insp/Service (6m) 5520	CLOSE	10/9/24 07:44 AM
4175611			PM	Inspection	UPS Route Insp/Service (1m) 5520	CLOSE	10/4/24 03:35 PM
4175791			PM	Refurbish/Replace/Repair	Detroit Route Insp/Maint (1m) 5520	CLOSE	10/1/24 11:42 AM
4175960			PM	HEALTH AND SAFETY	EYEWASH ROUTE Inspection/Service (1m) 5520	CLOSE	10/4/24 03:34 PM
4176461			PM	Predictive Maintenance	Lystek Building Greasing Route	CLOSE	10/9/24 07:41 AM

4196813			CAP	Refurbish/Replace/Repair	Submersable feed pump for WPCP yard Hydrants and Aeration Sprayers	CLOSE	11/27/24 03:35 PM
4201701	0000065544	PANEL ALARM/DIALER	PM	Inspection	Alarm Dialer Testing (1m) 5520	CLOSE	11/19/24 03:36 PM
4201706	0000334348	PANEL ALARM/DIALER 01 QUEEN ST	PM	Inspection	Alarm Dialer 01 Queen PS Testing (1m) 5520	CLOSE	11/19/24 03:43 PM
4201711	0000334360	PANEL ALARM/DIALER 01 Robinson ST	PM	Inspection	Alarm Dialer 01 Robinson PS Testing (1m) 5520	CLOSE	11/19/24 03:44 PM
4201873			PM	Inspection	PH Probe Insp/Calib (1m) 5520	CLOSE	11/5/24 07:33 AM
4201878			OPER	Inspection	TPM Insp/Maint St Marys WWTP (1m) 5520	CLOSE	12/2/24 08:57 AM
4202134	0000065526	UV LIGHT BANK 02 Final Effluent Building	PM	Inspection	Uv Light Bank 02 Effluent Insp/Clean/Service (1m/1y) 5520	CLOSE	11/22/24 04:03 PM
4202141	0000065527	UV LIGHT BANK 01 Final Effluent building	PM	Inspection	Uv Light Bank 01 Effluent Insp/Clean/Service (1m/1y) 5520	CLOSE	11/21/24 03:56 PM
4202148	0000065531	ENGINE DIESEL GENERATOR	PM	Inspection	Engine Diesel St. Mary's WWTP Insp/Test (1m) 5520	CLOSE	11/21/24 01:07 PM
4202167	0000334320	PUMP CENT #4 RAS BLOWER BUILDING	PM	Inspection	Pump Cent 04 Return Sludge Insp/Service (1m/1y) 5520	CLOSE	11/20/24 11:18 AM
4202177	0000334281	PUMP CENTRIFUGAL RAS #3 BLOWER BUILDING	PM	Inspection	Pump Cent 03 Return Sludge Insp/Service (1m/1y) 5520	CLOSE	11/20/24 11:19 AM
4202187	0000334318	PUMP P404 ROT LOBE DIGESTER BASEMENT	PM	Inspection	Pump Rot Lobe Insp/Service (1m/1y) 5520	CLOSE	11/5/24 02:29 PM
4202193	0000269085	ENGINE DIESEL GENERATOR ROBINSON ST	PM	Inspection	Engine Diesel Robinson St PS Insp/Test (1m) 5520	CLOSE	11/19/24 03:46 PM
4202535			PM	HEALTH AND SAFETY	OG15 Facility OHSA Inspection (1m) 5520	CLOSE	11/28/24 03:52 PM
4202555			OPER	Compliance	WISKI Data Review (1m) 5520	CLOSE	12/2/24 08:59 AM
4202581			OPER	Compliance	WISKI Data Entry (1m) 5520	CLOSE	12/2/24 09:02 AM
4202780			OPER	Compliance	Sampling and Testing (1m) 5520	CLOSE	12/2/24 08:58 AM

4202871	0000334355	PANEL ALARM/DIALER 01 Emily ST	PM	Inspection	Alarm Dialer 01 Emily St. PS Testing (1m) 5520	CLOSE	11/19/24 03:50 PM
4218867			OPER	HEALTH AND SAFETY	Monthly OHSA Workplace Inspection (1m) - 5520	CLOSE	11/28/24 03:50 PM
4218973	0000207059	GENERATOR Diesel Queen St 5520	PM	Refurbish/Replace/R epair	Engine Diesel Queen St PS Insp/Test (1m) 5520	CLOSE	11/19/24 03:58 PM
4220346			PM	HEALTH AND SAFETY	FIRE EXTINGUISHER ROUTE Insp/Service (1m)5520	CLOSE	11/19/24 03:57 PM
4220365			OPER	Inspection	Daily O&M Pumping Stations (1m) 5520	COMP	12/6/24 03:42 PM
4220370			OPER	Inspection	TPM Insp/Maint Pumping Stations (1m) 5520	CLOSE	12/2/24 09:13 AM
4220375			OPER	Inspection	TPM Insp/Maint Collection System (1m) 5520	CLOSE	12/2/24 09:01 AM
4220493	0000334260	MOTOR 2 RAS PUMP OLD RAS BUILDING	PM	Refurbish/Replace/R epair	RAS PUMP MOTOR 2 Insp/Maint (1m) 5520	CLOSE	11/5/24 02:33 PM
4220832			PM	Inspection	Supervisor Spot Check St Marys Facilities (3m) 5520/1262	COMP	12/24/24 09:34 AM
4220885			PM	HEALTH AND SAFETY	Lifting Device Manhoist Route (1y) 5520	CLOSE	12/2/24 09:12 AM
4221141	0000332739	FAN EXHAUST DUCT VENTILATION LYSTEK BUILDING	PM	Refurbish/Replace/R epair	Fan Exhaust Duct Lystek Building Insp/Maint (1m) 5520	CLOSE	11/5/24 02:35 PM
4221144			PM	HEALTH AND SAFETY	EMERGENCY LIGHTING ROUTE Insp/service (1m) 5520	CLOSE	11/20/24 07:40 AM
4221190			PM	Inspection	UPS Route Insp/Service (1m) 5520	CLOSE	11/20/24 07:41 AM
4221346			PM	Refurbish/Replace/R epair	Detroit Route Insp/Maint (1m) 5520	CLOSE	11/5/24 02:36 PM
4221530			PM	HEALTH AND SAFETY	EYEWASH ROUTE Inspection/Service (1m) 5520	CLOSE	11/20/24 07:44 AM
4221920			PM	Predictive Maintenance	Lystek Building Greasing Route	CLOSE	11/20/24 11:21 AM
4221930			PM	Predictive Maintenance	Raw Building Gear Box Inspections	CLOSE	11/20/24 01:01 PM
4221933			PM	Predictive Maintenance	WASEQ Pump Greasing 3-4	CLOSE	11/20/24 11:23 AM
4225172			PM	Compliance	MECP Overflow & Bypass Event Summary Report (3m) 5520	CLOSE	11/26/24 09:44 AM
4227377			PM	Compliance	Significant DW Threat Assessment Report Review (1y) 5520	CLOSE	11/29/24 12:59 PM
4238802			CAP	Refurbish/Replace/R epair	Supply and install 3 replacement VFD's.	COMP	2/27/25 08:07 AM

4238839			OPER	Inspection	Daily O&M Activities St Marys WWTP (1m) 5520	COMP	1/2/25 07:53 AM
4243622	0000065544	PANEL ALARM/DIALER	PM	Inspection	Alarm Dialer Testing (1m) 5520	BUSCOMP	12/5/24 08:41 AM
4243627	0000334348	PANEL ALARM/DIALER 01 QUEEN ST	PM	Inspection	Alarm Dialer 01 Queen PS Testing (1m) 5520	COMP	12/5/24 08:44 AM
4243632	0000334360	PANEL ALARM/DIALER 01 Robinson ST	PM	Inspection	Alarm Dialer 01 Robinson PS Testing (1m) 5520	COMP	12/5/24 08:45 AM
4243793			PM	Inspection	PH Probe Insp/Calib (1m) 5520	COMP	12/9/24 07:55 AM
4243798			PM	Refurbish/Replace/R epair	Spill Kit Inspect (6m) 5520/1262	COMP	12/23/24 10:04 AM
4243800			PM	Inspection	Do Probe Calibration (1y) 5520	COMP	12/5/24 03:52 PM
4243811			OPER	Inspection	TPM Insp/Maint St Marys WWTP (1m) 5520	COMP	1/2/25 07:54 AM
4244039	0000065526	UV LIGHT BANK 02 Final Effluent Building	PM	Inspection	Uv Light Bank 02 Effluent Insp/Clean/Service (1m/1y) 5520	COMP	12/23/24 06:51 AM
4244046	0000065527	UV LIGHT BANK 01 Final Effluent building	PM	Inspection	Uv Light Bank 01 Effluent Insp/Clean/Service (1m/1y) 5520	COMP	12/23/24 06:50 AM
4244053	0000065531	ENGINE DIESEL GENERATOR	PM	Inspection	Engine Diesel St. Mary's WWTP Insp/Test (1m) 5520	COMP	12/11/24 07:29 AM
4244072	0000065531	ENGINE DIESEL GENERATOR	PM	Refurbish/Replace/R epair	Engine Diesel St. Mary's WWTP Insp/Service (1y) 5520	COMP	2/5/25 12:00 PM
4244111	0000334320	PUMP CENT #4 RAS BLOWER BUILDING	PM	Inspection	Pump Cent 04 Return Sludge Insp/Service (1m/1y) 5520	COMP	12/5/24 03:53 PM
4244121	0000334281	PUMP CENTRIFUGAL RAS #3 BLOWER BUILDING	PM	Inspection	Pump Cent 03 Return Sludge Insp/Service (1m/1y) 5520	COMP	12/5/24 03:55 PM
4244131	0000334318	PUMP P404 ROT LOBE DIGESTER BASEMENT	PM	Inspection	Pump Rot Lobe Insp/Service (1m/1y) 5520	COMP	12/6/24 12:43 PM
4244137	0000269085	ENGINE DIESEL GENERATOR ROBINSON ST	PM	Inspection	Engine Diesel Robinson St PS Insp/Test (1m) 5520	COMP	12/11/24 03:52 PM
4244156	0000269085	ENGINE DIESEL GENERATOR ROBINSON ST	PM	Refurbish/Replace/R epair	Engine Diesel Robinson St Insp/Service (1y) 5520	COMP	2/5/25 11:59 AM
4244430			PM	HEALTH AND SAFETY	Confined Space Hazard Assessment Review (1y) St Marys Cluster	BUSCOMP	12/23/24 10:10 AM
4244440			PM	HEALTH AND SAFETY	OG15 Facility OHSA Inspection (1m) 5520	COMP	12/23/24 03:46 PM
4244462			OPER	Compliance	WISKI Data Review (1m) 5520	COMP	1/2/25 03:43 PM
4244488			OPER	Compliance	WISKI Data Entry (1m) 5520	COMP	1/2/25 07:56 AM

4244657			OPER	Compliance	Sampling and Testing (1m) 5520	COMP	1/2/25 07:56 AM
4244751	0000334355	PANEL ALARM/DIALER 01 Emily ST	PM	Inspection	Alarm Dialer 01 Emily St. PS Testing (1m) 5520	COMP	12/11/24 03:54 PM
4260668			OPER	HEALTH AND SAFETY	Monthly OHSA Workplace Inspection (1m) - 5520	COMP	12/24/24 12:14 PM
4260772	0000207059	GENERATOR Diesel Queen St 5520	PM	Refurbish/Replace/Repair	Engine Diesel Queen St PS Insp/Test (1m) 5520	COMP	12/5/24 03:58 PM
4262145			PM	HEALTH AND SAFETY	FIRE EXTINGUISHER ROUTE Insp/Service (1m)5520	BUSCOMP	12/4/24 03:43 PM
4262163			OPER	Inspection	Daily O&M Pumping Stations (1m) 5520	COMP	1/2/25 07:58 AM
4262168			OPER	Inspection	TPM Insp/Maint Pumping Stations (1m) 5520	COMP	1/2/25 07:59 AM
4262173			OPER	Inspection	TPM Insp/Maint Collection System (1m) 5520	COMP	1/2/25 08:01 AM
4262275	0000334260	MOTOR 2 RAS PUMP OLD RAS BUILDING	PM	Refurbish/Replace/Repair	RAS PUMP MOTOR 2 Insp/Maint (1m) 5520	COMP	12/5/24 04:02 PM
4262897	0000332739	FAN EXHAUST DUCT VENTILATION LYTEK BUILDING	PM	Refurbish/Replace/Repair	Fan Exhaust Duct Lystek Building Insp/Maint (1m) 5520	COMP	12/11/24 03:51 PM
4262907			PM	HEALTH AND SAFETY	EMERGENCY LIGHTING ROUTE Insp/service (1m) 5520	COMP	12/6/24 08:31 AM
4262985			PM	Inspection	UPS Route Insp/Service (1m) 5520	COMP	12/6/24 08:31 AM
4263188			PM	Refurbish/Replace/Repair	Detroit Route Insp/Maint (1m) 5520	COMP	12/5/24 04:04 PM
4263345			PM	HEALTH AND SAFETY	EYEWASH ROUTE Inspection/Service (1m) 5520	COMP	12/6/24 03:57 PM
4263720			PM	Predictive Maintenance	Lystek Building Greasing Route	COMP	12/11/24 03:50 PM
4263730			PM	Predictive Maintenance	Raw Building Gear Box Inspections	COMP	12/12/24 03:50 PM
4263733			PM	Predictive Maintenance	WASEQ Pump Greasing 3-4	COMP	12/5/24 04:05 PM
4276770			EMER	Refurbish/Replace/Repair	MCC 5 shut down	COMP	12/4/24 12:28 PM
4276772			CORR	Refurbish/Replace/Repair	Sluic gate repair	COMP	12/4/24 12:30 PM
4278681	0000332736	VALVE SOLENOID POTABLE TO CENTRIFUGE FEED LYTEK BUILDING	CORR	Refurbish/Replace/Repair	Replaced faulty solenoid valve 5520	COMP	12/13/24 07:56 AM
4278684	0000065573	TANK ALUM BLOWER BUILDING	CORR	Refurbish/Replace/Repair	Trouble shot Alum level	COMP	12/13/24 02:00 PM

		BUILDING		epair	indicator not reading properly 5520		
4278869			PM	Compliance	Sampling Calendar Review (1y) 5520	COMP	12/17/24 12:56 PM
4279323			CORR	Refurbish/Replace/R epair	Centrifuge safety shut down issues	COMP	12/16/24 03:55 PM
4280688			OPER	Inspection	Daily O&M Activities St Marys WWTP (1m) 5520	COMP	2/3/25 07:44 AM
4280789	0000278206	PUMP CENT #2 Emily St 5520	CORR	Refurbish/Replace/R epair	Pulled pump #2 to send away for rebuild. 5520	COMP	12/30/24 03:08 PM

Appendix E

Calibration Reports



Flow Meter Calibration Certificate

File #: GCF2404-00040570

MANUFACTURER: Pulsar Measurement
www.pulsarmeasurement.com
MODEL: AVFM 6.1 A-1-A-1-A-1-C-1-A
SN: 000096171
SENSOR: QZ02L-SS-03-SD
SENSOR SNs: Q87028

CALIBRATION DATE: April 24, 2024
TEST PIPE: DN200 SCH40 Round
Horizontal, straight, 6.1m long,
partially filled channel.

Pulsar's quality control calibration and testing program includes distance measurement verification using fixed calibrated target and wet flow loop tests with a fixed flow rate. Full measurement range is verified with simulated inputs.

QC TEST CONDITIONS

Flow Rate: 2.5 L/s

Targets: 38, 100, 1200 mm

Accuracy: Level: +/-0.25% of reading or +/- 2 mm, whichever is greater. Repeatability and linearity 0.1%. Velocity: +/-2% of reading or +/-0.013 m/s, whichever is greater.

and has also passed the following tests:

1. Functional test including verification of output signals.
2. Reliability test (burn-in) 48 hr.

The above product has been tested to meet or exceed accuracy specifications cited.

Print Date:

April 24, 2024

Calibration Technician:

A handwritten signature in blue ink, appearing to be a stylized 'B' or 'P', written over a horizontal line.



Pierce Services
& Solutions Inc.

Instrument Verification Sheet

Client Name: OCWA St. Mary's

Date: June 28, 2024

Equipment Description: Level Transmitter

Assigned Number: LIT 701

Area Located: Queen Street Pumping Station

Asset Number: 0000269110

Instrument Data

Manufacturer: Siemens

Model Number: Multi Ranger LUT 500

Type: Ultrasonic

Serial Number: PBD-S3050014

Range: 0 - 2.00 m

Accuracy: 0 - 5%

Method Of Calibration: Standard Verification

Application: Wastewater

Calibration Data

Input %	Input	As Found	As Left	mA
0%	0 m	0 m	0 m	4.00
50%	1.0m	1.0 m	1.0 m	12.00
100%	7.0 m	7.0 m	7.0 m	20.00
13.86%	1.05 m	1.05 m	1.05 m	

Confirmed Run Mode: ☒

Pass: ☒

Fail: ☐

Comments:



Checked By: Greg Pierce CCST

Signature:



Parameter #	Parameter Description	Parameter Value	Value Description
P001	Operation	1	Level measurement
P002	Material	1	Liquid surface
P003	Process Speed	2	Medium (1m/min)
P004	Transducer	112	XPS 10
P005	Units	1	Meters
P006	Empty	2.300	Transducer to base
P007	Span	2.000	Maximum reading
P065	Reading Override Value	2.29	Fail Safe Value
P111	Pump Fixed Duty Setting	52	Pump Fixed Duty Setting
P112	Relay on Level	0.500	Meters
P113	Relay off Level	0.150	Meters
P118	Output Relay Logic	3	
P309	Run Time	2.4	Hours
P111	Pump Fixed Duty Setting	52	Pump Fixed Duty Setting
P112	Relay on Level	0.630	Meters
P113	Relay off Level	0.250	Meters
P118	Output Relay Logic	3	
P309	Run Time	3.4	Hours
P111	Pump Fixed Duty Setting		Pump Fixed Duty Setting
P112	Relay on Level		Meters
P113	Relay off Level		Meters
P309	Run Time		Hours
P111	Loss of Echo		
P112	Relay on Level		Meters
P113	Relay off Level		Meters
P309	Run Time		Hours
P111	Loss of Echo		
P112	Relay on Level		Meters
P113	Relay off Level		Meters
P309	Run Time		Hours
P660	Temperature Source Fixed	—	
P802	Transducer Submergence	—	Off
	Temp	17	
	Level	1.05	
	mA	7.83	
	Echo	100	
	%	23.9	
P300	Max Temp	25	
P301	Min Temp	3C	
P341	Run Time	24	
P342	Start Time	0	

Queen Street Pumping Station

Asset # 0000269110

S/N #012105123XB



Pierce Services
& Solutions Inc.

Instrument Verification Sheet

Client Name: OCWA St Mary's

Date: June 27, 2024

Equipment Description: Level Transmitter

Assigned Number: LIT 401

Area Located: Robinson Pumping Station

Asset Number: N/A

Instrument Data

Manufacturer: Millitronica

Model Number: Multi - Ranger

Type: Ultrasonic

Serial Number: PBD-S3056016

Range: 0 - 2.8 m

Accuracy: 0 - 5%

Method Of Calibration: Standard Verification

Application: Wastewater

Calibration Data

Input %	Input	As Found	As Left	mA
0%	0 m	0 m	0 m	4.00
50%	1.4 m	1.4 m	1.4 m	12.00
100%	2.8 m	2.8 m	2.8 m	20.00
75.00%	2.84 m	2.84 m	2.84 m	5.62

Confirmed Run Mode: ☒

Pass:

☒

Fail:

Comments:



Checked By: Greg Pierce CCST

Signature:



Parameter #	Parameter Description	Parameter Value	Value Description	Relay #
P001	Operation	1	Level measurement	
P002	Material	1	Liquid surface	
P003	Process Speed	2	Medium (1m/min)	
P004	Transducer	112	XPS 10	
P005	Units	1	Meters	
P006	Empty	3.580	Transducer to base	
P007	Span	2.800	Maximum reading	
P065	Reading Override Value	4.67	Fail Safe Value	
P111	Pump Fixed Duty Setting	1	Pump Fixed Duty Setting	1
P112	Relay on Level	1.300	Meters	1
P113	Relay off Level	0.300	Meters	1
P118	Output Relay Logic			1
P309	Run Time		Hours	1
P111	Pump Fixed Duty Setting		Pump Fixed Duty Setting	2
P112	Relay on Level		Meters	2
P113	Relay off Level		Meters	2
P118	Output Relay Logic			2
P309	Run Time		Hours	2
P111	Pump Fixed Duty Setting		Pump Fixed Duty Setting	3
P112	Relay on Level		Meters	3
P113	Relay off Level		Meters	3
P309	Run Time		Hours	3
P111	Loss of Echo			4
P112	Relay on Level		Meters	4
P113	Relay off Level		Meters	4
P309	Run Time		Hours	4
P111	Loss of Echo			5
P112	Relay on Level		Meters	5
P113	Relay off Level		Meters	5
P309	Run Time		Hours	5
P650	Temperature Source Fixed	---		
P802	Transducer Submergence	---	Off	
	Temp	18		
	Level	0.284		
	mA	5.62		
	Echo	100		
	%	25.00		
P300	Max Temp	24 C		
P301	Min Temp	8 C		
P341	Run Time	221		
P342	Start Ups	2		

Asset # 000065240

St Mary's WPCP



Pierce Services
& Solutions Inc.

Instrument Verification Sheet

Client Name: OCWA St Marys

Date: June 28, 2024

Equipment Description: Level Transmitter

Assigned Number: LIT 253

Area Located: WPCP HeadWorks

Asset Number: 0000065240

Instrument Data

Manufacturer: Siemens

Model Number: 100/200

Type: Ultrasonic

Serial Number:

Range: 0 - 0.980 m

Accuracy: 0 - 5%

Method Of Calibration: Standard Verification

Application: Wastewater

Calibration Data

Input %	Input	As Found	As Left	mA
0%	0 m	0 m	0 m	4.00
50%	0.49 m	0.49 m	0.49 m	12.00
100%	0.980 m	0.980 m	0.98	20.00
60.22%	0.60	0.60	0.60	13.75

Confirmed Run Mode: ☒

Pass:

☒

Fail:

Comments:



Checked By: Greg Pierce CCST

Signature:



Parameter #	Parameter Description	Parameter Value	Value Description	Relay #
P001	Operation	1	Level measurement	
P002	Material	1	Liquid surface	
P003	Process Speed	2	Medium (1m/min)	
P004	Transducer	102	XPS 10	
P005	Units	1	Meters	
P006	Empty	5.500	Transducer to base	
P007	Span	5.150	Minimum reading	
P055	Reading Override Value	5	Fail Safe Value	
P111	Pump Fixed Duty Setting	0	Pump Fixed Duty Setting	1
P112	Relay on Level	3.605	Meters	1
P113	Relay off Level	1.030	Meters	1
P118	Output Relay Logic	2		1
P309	Run Time		Hours	1
P111	Pump Fixed Duty Setting		Pump Fixed Duty Setting	2
P112	Relay on Level		Meters	2
P113	Relay off Level		Meters	2
P118	Output Relay Logic			2
P309	Run Time		Hours	2
P111	Pump Fixed Duty Setting		Pump Fixed Duty Setting	3
P112	Relay on Level		Meters	3
P113	Relay off Level		Meters	3
P309	Run Time		Hours	3
P111	Loss of Echo			4
P112	Relay on Level		Meters	4
P113	Relay off Level		Meters	4
P309	Run Time		Hours	4
P111	Loss of Echo			6
P112	Relay on Level		Meters	6
P113	Relay off Level		Meters	5
P309	Run Time		Hours	5
P660	Temperature Source Fixed	—		
P802	Transducer Submergence	—	Off	
	Temp	80		
	Level	5.15		
	mA	20		
	Echo	100		
	%	100		
P300	Max Temp	141.0 C		
P301	Min Temp	-12		
P341	Run Time	52.31		
P342	Start Time	212		

OCWA # 0000326598

St Mary's WPCP



Pierce Services
& Solutions Inc.

Instrument Verification Sheet

Client Name: OCWA St Mary's

Date: June 28, 2024

Equipment Description: Level Transmitter

Assigned Number: LIT 201

Area Located: Boiler Room

Drawing Number: 0000326738

Instrument Data

Manufacturer: Siemens

Model Number: LUT 400

Type: Ultrasonic

Serial Number: PBD/L5150166

Range: 0 - 4.00 mg1

Accuracy: 0-2%

Method Of Calibration: Standard Verification

Application: Wastewater

Calibration Data

Input %	Input	As Found	As Left	mA
0%	0 m	0.00 m	0.00 m	4.00 mA
50%	2.00 m	2.00 m	2.00 m	12.00 mA
100%	4.00 m	4.00 m	4.00 m	20.00 mA
13%	0.62 m	0.62 m	0.62 m	6.124 mA

Confirmed Run Mode: ☒

Pass: ☒

Fail: ☐

Comments:



Checked By: Greg Pierce CCST

Signature:



Tag # LIT 201

Date: June 28, 2024

Parameter #	Parameter Description	Parameter Value	Value Description	Relay #
P001	Operation	1	Level measurement	
P002	Material	1	Liquid surface	
P003	Process Speed	1	Medium (1m/min)	
P004	Transducer	15	XPS 10	
P005	Units	1	Meters	
P006	Empty	4.60	Transducer to base	
P007	Span	4.00	Maximum reading	
P065	Reading Override Value	5.00	Fail Safe Value	
P111	Pump Fixed Duty Setting		Pump Fixed Duty Setting	1
P112	Relay on Level		Meters	1
P113	Relay off Level		Meters	1
P118	Output Relay Logic			1
P309	Run Time		Hours	1
P111	Pump Fixed Duty Setting		Pump Fixed Duty Setting	2
P112	Relay on Level		Meters	2
P113	Relay off Level		Meters	2
P118	Output Relay Logic			2
P309	Run Time		Hours	2
P111	Pump Fixed Duty Setting		Pump Fixed Duty Setting	3
P112	Relay on Level		Meters	3
P113	Relay off Level		Meters	3
P309	Run Time		Hours	3
P111	Loss of Echo			4
P112	Relay on Level		Meters	4
P113	Relay off Level		Meters	4
P309	Run Time		Hours	4
P111	Loss of Echo			5
P112	Relay on Level		Meters	5
P113	Relay off Level		Meters	5
P309	Run Time		Hours	5
P660	Temperature Source Fixed	—		
P802	Transducer Submergence	—	Off	
	Temp	21.1		
	Level	0.52		
	mA	16.12		
	Echo	61		
	%	89.32		
P300	Max Temp	26.7 C		
P301	Min Temp	-13.80		
P341	Run Times	1650		
P342	Restarts	N/A		
	Max Readings	4.385 m		
	Min Reading	-0.366 m		

St Mary's Reservoir

Cal_StMarys Reservoir LIT 7_Jun2524



Pierce Services
& Solutions Inc.

Instrument Verification Sheet

Client Name: OCWA St. Marys

Date: June 28, 2024

Equipment Description: Level Transmitter

Assigned Number: LIT 337

Area Located: WPCP

Asset Number: 0000326655

Instrument Data

Manufacturer: Siemens

Model Number: 100/200

Type: UltraSonic

Serial Number:

Range: 0 - 3.851 m

Accuracy: 0 - 5%

Method Of Calibration: Standard Verification

Application: Wastewater

Calibration Data

Input %	Input	As Found	As Left	mA
0%	0 m	0 m	0 m	4.00
50%	1.925 m	1.925 m	1.925 m	12.00
100%	3.851 m	3.851 m	3.851 m	20.00
76.78%	2.75	2.75	2.75	16.30

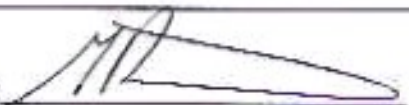
Confirmed Run Mode: ☒

Pass: ☒

Fail: ☐

Comments:

Checked By: Greg Pierce CCST

Signature: 



Parameter #	Parameter Description	Parameter Value	Value Description	Relay #
P001	Operation	1 / 1	Level measurement	
P002	Material	1 / 1	Liquid surface	
P003	Process Speed	2 / 2	Medium (1m/min)	
P004	Transducer	102 / 102	XPS 10	
P005	Units	1 / 1	Meters	
P006	Empty	4.081 / 4.081	Transducer to base	
P007	Span	3.851 / 3.581	Minimum reading	
P065	Reading Override Value	5.000 / 0.000	Fail Safe Value	
P111	Pump Fixed Duty Setting	0 / 0	Pump Fixed Duty Setting	1
P112	Relay on Level	2.507 / 2.507	Meters	1
P113	Relay off Level	0.716 / 0.716	Meters	1
P118	Output Relay Logic			1
P309	Run Time		Hours	1
P111	Pump Fixed Duty Setting		Pump Fixed Duty Setting	2
P112	Relay on Level		Meters	2
P113	Relay off Level		Meters	2
P118	Output Relay Logic			2
P309	Run Time		Hours	2
P111	Pump Fixed Duty Setting		Pump Fixed Duty Setting	3
P112	Relay on Level		Meters	3
P113	Relay off Level		Meters	3
P309	Run Time		Hours	3
P111	Loss of Echo			4
P112	Relay on Level		Meters	4
P113	Relay off Level		Meters	4
P309	Run Time		Hours	4
P111	Loss of Echo			5
P112	Relay on Level		Meters	5
P113	Relay off Level		Meters	5
P309	Run Time		Hours	5
P660	Temperature Source Fixed	---		
P802	Transducer Submergence	---	Off	
	Temp	31/21		
	Level	2.76/2.78		
	mA	16.30/16.41		
	Echo	100 / 100		
	%	76.70/77.58		
P300	Max Temp	47 C		
P301	Min Temp	-25 C		
P341	Run Time	5306		
P342	Start Time	65		

OCWA #

326655

St Mary's WPCP



Pierce Services
& Solutions Inc.

Instrument Verification Sheet

Client Name: OCWA St Marys

Date: June 28, 2024

Equipment Description: Level Transmitter

Assigned Number: LIT 401

Area Located: WPCP Headwater

Asset Number: 0000065240

Instrument Data

Manufacturer: Siemens

Model Number: 100/200

Type: Ultrasonic

Serial Number:

Range: 0 - 0.980 m

Accuracy: 0 - 5%

Method Of Calibration: Standard Verification

Application: Wastewater

Calibration Data

Input %	Input	As Found	As Left	mA
0%	0 m	0 m	0 m	4.00
50%	0.49 m	0.49 m	0.49 m	12.00
100%	0.980 m	0.980 m	0.98	20.00
60.22%	0.60	0.60	0.60	13.75

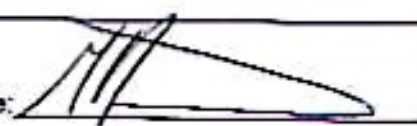
Confirmed Run Mode: ☒

Pass: ☒

Fail: ☐

Comments:

Checked By: Greg Pierce CCST

Signature: 



Tag # Wetwell LIT 401

Date: June 28, 2024

Parameter #	Parameter Description	Parameter Value	Value Description	Relay #
P001	Operation	1	Level measurement	
P002	Material	1	Liquid surface	
P003	Process Speed	2	Medium (1m/min)	
P004	Transducer	112	XPS 10	
P005	Units	1	Meters	
P006	Empty	4.250	Transducer to base	
P007	Span	0.980	Maximum reading	
P065	Reading Override Value	4.67	Fail Safe Value	
P111	Pump Fixed Duty Setting	1	Pump Fixed Duty Setting	1
P112	Relay on Level	0.950	Meters	1
P113	Relay off Level	0.700	Meters	1
P118	Output Relay Logic	3		1
P309	Run Time	60	Hours	1
P111	Pump Fixed Duty Setting	1	Pump Fixed Duty Setting	2
P112	Relay on Level	0.600	Meters	2
P113	Relay off Level	0.575	Meters	2
P118	Output Relay Logic	3		2
P309	Run Time	79	Hours	2
P111	Pump Fixed Duty Setting	1	Pump Fixed Duty Setting	3
P112	Relay on Level	0.980	Meters	3
P113	Relay off Level	0.800	Meters	3
P309	Run Time	3	Hours	3
P111	Loss of Echo	1		4
P112	Relay on Level	0.098	Meters	4
P113	Relay off Level	0.147	Meters	4
P309	Run Time		Hours	4
P111	Loss of Echo	1		5
P112	Relay on Level	0.940	Meters	5
P113	Relay off Level	0.710	Meters	5
P309	Run Time		Hours	5
P660	Temperature Source Fixed	---		
P802	Transducer Submergence	---	Off	
	Temp	18		
	Level	6.6		
	mA	13.75		
	Echo	100		
	%	60.22		
P300	Max Temp	24 C		
P301	Min Temp	8 C		
P341	Run Time	1072		
P342	Start Ups	118		

Asset # 0000065240

St Mary's WPCP



Pierce Services
& Solutions Inc.

Instrument Verification Sheet

Client Name: OCWA St Mary's

Date: June 28, 2024

Equipment Description: Level Transmitter

Assigned Number: LIT 235

Area Located: Water Pollution Control Plant

Asset Number: 0000277998

Instrument Data

Manufacturer: Siemens

Model Number: 100/200

Type: Ultrasonic

Serial Number: PBD/X8170074

Range: 0 - 2.20 m

Accuracy: 0 - 5%

Method Of Calibration: Standard Verification

Application: Wastewater

Calibration Data

Input %	Input	As Found	As Left	mA
0%	0 m	0 m	0 m	4.00
50%	1.1 m	1.1 m	1.1 m	12.00
100%	2.2 m	2.2 m	2.2 m	20.00
38.39%	0.844	0.844	0.844	10.14

Confirmed Run Mode: ✓

Pass: ✓

Fail:

Comments:



Checked By: Greg Pierce CCST

Signature:



Tag # WAS Level
Date: June 28, 2024

Parameter #	Parameter Description	Parameter Value	Value Description	Relay #
P001	Operation	4	Level measurement	
P002	Material	2	Liquid surface	
P003	Process Speed	2	Medium (1m/min)	
P004	Transducer	102	XPS 10	
P005	Units	2	Meters	
P006	Empty	240/207	Transducer to base	
P007	Span	220/187	Maximum reading	
P065	Reading Override Value	5.00	Fail Safe Value	
P111	Pump Fixed Duty Setting		Pump Fixed Duty Setting	1
P112	Relay on Level		Meters	1
P113	Relay off Level		Meters	1
P118	Output Relay Logic			1
P309	Run Time		Hours	1
P111	Pump Fixed Duty Setting		Pump Fixed Duty Setting	2
P112	Relay on Level		Meters	2
P113	Relay off Level		Meters	2
P118	Output Relay Logic			2
P309	Run Time		Hours	2
P111	Pump Fixed Duty Setting		Pump Fixed Duty Setting	3
P112	Relay on Level		Meters	3
P113	Relay off Level		Meters	3
P309	Run Time		Hours	3
P111	Loss of Echo			4
P112	Relay on Level		Meters	4
P113	Relay off Level		Meters	4
P309	Run Time		Hours	4
P111	Loss of Echo			5
P112	Relay on Level		Meters	5
P113	Relay off Level		Meters	5
P309	Run Time		Hours	5
P660	Temperature Source Fixed	—		
P802	Transducer Submergence	—	Off	
		1	2	
	Temp	2.2	20 C	
	Level	84.46	126.18	
	mA	10.14	14.8	
	Echo	100	100	
	%	38.39	67.48	
P300	Max Temp	29 c		
P301	Min Temp	-57 c		
P341	Run Time	1094		
P342	Restarts	48		

St Mary's Reservoir



Pierce Services
& Solutions Inc.

Instrument Verification Sheet

Client Name: OCWA St Marys

Date: June 28, 2024

Equipment Description: level Transmitter

Assigned Number: LIT 220

Area Located: KOH Chemical Tank

Asset Number: 0000332708

Instrument Data

Manufacturer: Siemens

Model Number: 100/200

Type: Ultrasonic

Serial Number: PBD/X8120510

Range: 0 - 2.70

Accuracy: 0 - 5%

Method Of Calibration: Standard Verification

Application: Wastewater

Calibration Data

Input %	Input	As Found	As Left	mA
0%	0 m	0 m	0 m	4.00
50%	1.35 m	1.35 m	1.35 m	12.00
100%	2.70 m	2.70 m	2.70 m	20.00
57.96%	1.57	1.57	1.57	13.28

Confirmed Run Mode: ☒

Pass: ☒

Fail: ☐

Comments:



Checked By: Greg Pierce CCST

Signature:



Tag # KOH Tank Level LIT 220

Date: June 28, 2024

Parameter #	Parameter Description	Parameter Value	Value Description	Relay #
P001	Operation	1	Level measurement	
P002	Material	1	Liquid surface	
P003	Process Speed	1	Medium (1m/min)	
P004	Transducer	104	XPS 10	
P005	Units	1	Meters	
P006	Empty	4.89	Transducer to base	
P007	Span	4.80	Maximum reading	
P065	Reading Override Value	5.00	Fail Safe Value	
P111	Pump Fixed Duty Setting		Pump Fixed Duty Setting	1
P112	Relay on Level		Meters	1
P113	Relay off Level		Meters	1
P118	Output Relay Logic			1
P309	Run Time		Hours	1
P111	Pump Fixed Duty Setting		Pump Fixed Duty Setting	2
P112	Relay on Level		Meters	2
P113	Relay off Level		Meters	2
P118	Output Relay Logic			2
P309	Run Time		Hours	2
P111	Pump Fixed Duty Setting		Pump Fixed Duty Setting	3
P112	Relay on Level		Meters	3
P113	Relay off Level		Meters	3
P309	Run Time		Hours	3
P111	Loss of Echo			4
P112	Relay on Level		Meters	4
P113	Relay off Level		Meters	4
P309	Run Time		Hours	4
P111	Loss of Echo			5
P112	Relay on Level		Meters	5
P113	Relay off Level		Meters	5
P309	Run Time		Hours	5
P660	Temperature Source Fixed	----		
P802	Transducer Submergence	----	Off	
	Temp	22		
	Level	1.57		
	mA	13.28		
	Echo	100		
	%	57.97		
P300	Max Temp	32 c		
P301	Min Temp	3 c		
P341	Run Time	1749		
P342	Restarts	47		

St Mary's Reservoir



Pierce Services
& Solutions Inc.

Instrument Verification Sheet

Client Name: OCWA St. Mary's

Date: June 28, 2024

Equipment Description: Level Transmitter

Assigned Number: LIT 300

Area Located: WPCP

Asset Number:

Instrument Data

Manufacturer: Siemens

Model Number: LR 250

Type: Radar

Serial Number: PBD/X8040040

Range: 0 - 1.5 m

Accuracy: 0 - 5%

Method Of Calibration: Standard Verification

Application: Wastewater

Calibration Data

Input %	Input	As Found	As Left	mA
0%	0 m	0 m	0 m	4.00
50%	.75 m	.75 m	.75 m	12.00
100%	1.50 m	1.50 m	1.50 m	20.00
24.0%	0.36	0.36	0.36	7.84

Confirmed Run Mode: ☒

Pass: ☒

Fail: ☐

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: June 28, 2024

Equipment Description: Flow Transmitter

Assigned Number: FIT 401

Area Located: St Mary's

ASSET Number: 0000326732

Instrument Data

Manufacturer: Siemens

Model Number: OCM III

Type: Ultrasonic

Flow Meter Type: Parshall 0.305 m

Range: 0-240.6 l/s

Accuracy: +/- 5%

Method Of Calibration: Standard Verification

Application: Waste Water

Calibration Data

Input %	Input	As Found	Theoretical	Pass/Fail
0	0.00 cm	0.00 l/s	0.00 l/s	Pass
25	12.5 cm	29.1716 l/s	29.17 l/s	Pass
50	25.0 cm	83.77761 l/s	83.77 l/s	Pass
75	37.5 cm	155.2883 l/s	155.3 l/s	Pass
100	50.0 cm	240.6 l/s	240.6 l/s	Pass

Confirmed Run Mode: ✓

Placed back in service: ✓

Comments:

Measurements confirmed with ISCO open

channel flow handbook (sixth edition)



Checked By: Greg Pierce CCST

Signature: _____



#	Parameter	Value	#	Parameter	Value
P0	Language	0	D0	Head	17.58
P1	Dimensional Units	0	D1	Flow Rate	48.6163
P2	Temperature Units	0	D2	Short Total	163169
P3	Primary Element	0	D3	Maximum Flow Rate	289.6327
P4	Method of Calculation	1	D4	Minimum Flow Rate	0.827331
P5	Flow Rate Units	6	D5	Temperature	19.06
P6	Flow at Maximum Head	240.6	D6	Maximum Temperature	36.43
P7	Height of Maximum Head	50	D7	Minimum Temperature	-14.58
P8	Volts In at Zero Velocity	-	D8	Velocity	-
P9	Velocity at 5 Volts In	-	D9	Nominal Target Range	64
P10	Velocity at maximum flow	-	D10	Analog Milliamps	8.92
P13	Display Damping	0	D11	Internal DC Volts	29.99
P14	Display Lighting	1	D12	Velocity Volts	-
P15	Relay 1 Assignment	0	D13	Auxiliary Input Volts	0.01
P16	Relay 1 High Set Point	-	D14	Temperature Sensor Ohms	9791
P17	Relay 1 Low Set Point	-	D15	Self-test Checksum	0000H
P18	Relay 2 Assignment	0	D16	Restarts	102
P19	Relay 2 High Set Point	-	D17	Exceptions	0
P20	Relay 2 Low Set Point	-	D18	Valid Echoes per 100	41
P21	Relay 3 Assignment	0			
P22	Relay 3 High Set Point	-			
P23	Relay 3 Low Set Point	-			
P24	mA assignment	0	F2	Run Mode I/s	0.00
P25	If Custom mA, 20 mA =?	-		Total X 1000	
P26	mA Span	0	F6	Software Identification Number	
P27	mA Damping	10	F7	View Min/Max Data	
P28	mA Options	0		Max Flow	289.63
P29	Fail-safe Time	60		Time	23:26:00
P30	Fail-safe Analog Mode	1		Date	2019-06-24
P31	Fail-safe Analog mA	0		Min Flow	0.82
P32	Totalizer Multiplier	6		Time	06:11:36
P33	Flow Rate Display	2		Date	2020-03-24
P34	Printer Mode	0		Max Temperature	36.42
P35	Printer Timing	-		Time	13:21:40
P36	Measurement Interval	0		Date	2019-06-24
P37	Serial Data Rate	5		Min Temperature	-14.57
P38	Site Number	0		Time	05:31:16
P39	Data Logging Rate	2		Date	24-01-15
P40	Log Rapid Set point	-	F8	Reset Min/Max Data	Yes
P41	Log Normal Set point	-			
P42	Head Determination	0			
P43	Volts in For Zero Head	-			
P44	Head at 5 Volts In	-			
P45	Low Flow Cut-off Head	0			
P46	Range at Zero Head	86.4			
P47	Blanking Distance	30.48264			
U0	Exponent	1.522			



Pierce Services
& Solutions Inc.

519.820.4853 Fax 519.824.9402

Instrument Verification Sheet

Client Name: Ontario Clean Water Agency

Date: June 28, 2024

Equipment Description: Flow Transmitter

Assigned Number: FIT 403

Area Located: St Mary's

Asset Number: 0000157005

Instrument Data

Manufacturer: Siemens

Model Number: Milltronics 200

S/N: 051702103WY

Flume/Weir Type: Sharp Crested 1.0668m

Range: 0-4.34 m

Accuracy: +/- 5%

Method Of Calibration: Standard Verification

Application: Waste Water

Calibration Data

Input %	Input	Theoretical	As Found	Pass/Fail
0	0 m	0.00 l/s	0.00 l/s	
25	1.09 m	0.00 l/s	0.00 l/s	Pass
50	2.17 m	0.00 l/s	0.00 l/s	Pass
75	3.225 m	0.00 l/s	0.00 l/s	Pass
100	4.34 m	0.00 l/s	0.00 l/s	Pass

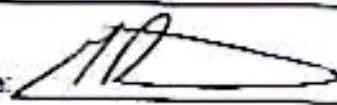
Confirmed Run Mode: ✓

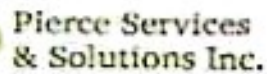
Placed back in service: ✓

Comments:



Checked By: Greg Pierce CCST

Signature: 



200

Date: June 28, 2024

Site Location: St. Mary's WPCP
Cal_St Marys WPCP_4_Jun2824



Pierce Services
& Solutions Inc.

45 Wilton Road
Guelph, ON N1E 7L6

Phone: 519.820.4853
Fax: 519.824.9402

Flowmeter Report

Verification: ☒

Calibration: ☐

Client: OCWA St Mary's
Description: Mag Meter
Manufacturer: ABB
Model: Watermaster
Inventory No.:

Location: St Mary's WPCP Recirc Flc
Date: 28-Jun-24
Checked By: Greg Pierce
Serial No.: 240265104/Y005

Velocity	mA	As Found	As Left	Pass/Fail
0 m/s	4 mA	0.00 l/s	0.00 l/s	Pass
0.990 m/s	8 mA	69.68 l/s	69.68 l/s	Pass
1.964 m/s	12 mA	138.81 l/s	138.81 l/s	Pass
2.950 m/s	16 mA	208.15 l/s	208.15 l/s	Pass
3.919 m/s	20 mA	277.00 l/s	277.00 l/s	Pass
1.291m/s	10.47 mA	112.2 l/s	112.2 l/s	Pass

Confirmed Run Mode: X

Returned to service: X

Service Comments:

Flowmeter Information

Flow Unit: l/s
Meter Size: 300 mm
Pipe Material: Stainless Steel
Liner Material: PU
Range: 0-277.00 l/s
Tag Number: FIT 322



Totalizer Start: 51289269.71
Totalizer Finish: 51289272.56

Comments:

Verification of original calibration

No Alarms

Q - 41.42 DCv - 0
SP - 1300 EV1 - 0 mV
REF - 62879 EV2 - 0 mV
SM - 33918
Sm - 32459
Amp - 2

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 St Mary's

Location: St Mary's WPCP Lystek

Description: Mag Meter

Date: 28-Jun-24

Manufacturer: ABB

Checked By: Greg Pierce

Model: Watermaster

Serial No.: 240265404/Y002

Inventory No.: 0000241337

Velocity	mA	As Found	As Left	Pass/Fail
0 m/s	4 mA	0.00 l/s	0.00 l/s	Pass
0.686 m/s	8 mA	12.12 l/s	12.12 l/s	Pass
1.423 m/s	12 mA	24.14 l/s	24.14 l/s	Pass
2.127 m/s	16 mA	37.58 l/s	37.58 l/s	Pass
2.829 m/s	20 mA	50.00 l/s	50.00 l/s	Pass
6.30 m/s	6.45 mA	2.4 l/s	2.4 l/s	Pass

Confirmed Run Mode: X

Returned to service: X

Service Comments:

Flowmeter Information

Flow Unit: l/s
Meter Size: 150 mm
Pipe Material: Stainless Steel
Liner Material: PU
Range: 0-50.00 l/s
Tag Number: FIT 004



Totalizer Start: 491037.99
Totalizer Finish: 491038.62

Comments:

Verification of original calibration

No Alarms

Q - 16.3% NRC - 0

I - 6.6070 mA

SP - 621

REF - 62831

SM - 33219

Sm - 32490

AMP - 64

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: ☒

Calibration: ☐

Client: OCWA St Mary's
Description: Mag Meter
Manufacturer: ABB
Model: Watermaster
Inventory No.: 241353

Location: St Mary's WPCP Lystek
Date: 28-Jun-24
Checked By: Greg Pierce
Serial No.: 240265404/Y003

Velocity	mA	As Found	As Left	Pass/Fail
0 m/s	4 mA	0.00 l/s	0.00 l/s	Pass
1.290 m/s	8 mA	10.13 l/s	10.13 l/s	Pass
2.549 m/s	12 mA	20.02 l/s	20.02 l/s	Pass
3.835 m/s	16 mA	30.12 l/s	30.12 l/s	Pass
5.093 m/s	20 mA	40.00 l/s	40.00 l/s	Pass
0.420 m/s	7.43 mA	3.30 l/s	3.30 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: Stainless Steel
Liner Material: PU
Range: 0-40.00 l/s
Tag Number: FIT 260



Totalizer Start: 33946.19
Totalizer Finish: 30964.87

Comments:
Verification of original calibration
No Alarms

Q - 0.0% NRC - 0

I - 4.00 mA

SP - 66

REF - 62831

SM - 32673

Sm - 32612

Amp - 64

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: June 28, 2024

Equipment Description: Flow Transmitter

Assigned Number: FIT 07

Area Located: St Mary's

Asset Number: 0000157006

Instrument Data

Manufacturer: Grayline

Model Number: AVFM 6.1

Type: Ultrasonic

Serial Number: 96171

Range: 0-1042 l/s

Accuracy: +/- 5%

Method Of Calibration: Standard Verification

Application: Waste Water

Calibration Data

Input %	Input	As Found	As Left	Pass/Fail
level	98.92 mm	13.14 cm	13.14 cm	Pass
velocity	1.72 m/s	31262 cm/hr	31262 cm/hr	Pass
flow	54.76 l/s	147.2 Vs	147.2 l/s	Pass

Confirmed Run Mode: ✓

Placed back in service: ✓

Comments:



Checked By: Greg Pierce CCST

Signature: 



Pierce Services
& Solutions Inc.

Instrument Calibration Sheet

Client Name: Ontario Clean Water Agency

Date: June 28, 2024

Equipment Description: RAS Flow Meter

Assigned Number: FIT-03

Area Located: St. Mary's WPCP

Asset Number: 0000065564

Instrument Data

Manufacturer: ABB Kent-Taylor

Model Number: Magmaster

Type: Mag Flow

Serial Number: V/87122/1/1

Range: 0 - 50 l/s

Accuracy: $\pm 1\%$

Method Of Calibration: Greyline PDFM 5.1

Application: Wastewater

Calibration Data

Input %	Input	As Found	As Left	Pass/Fail
0	4 mA	0.00 l/s	0.00 l/s	Fail
25	8 mA	12.21 l/s	12.21 l/s	Fail
50	12 mA	25.58 l/s	25.58 l/s	Fail
75	16 mA	37.12 l/s	37.12 l/s	Fail
100	20 mA	50.0 l/s	50.0 l/s	Fail

Confirmed Run Mode: ☒

Placed back in service: ☒

Comments:



Meter has coil failure and is recommended for replacement.

Checked By: Greg Pierce, CCST

Signature: 



Pierce Services
& Solutions Inc.

Instrument Calibration Sheet

Client Name: Ontario Clean Water Agency

Date: June 28, 2024

Equipment Description: RAS Flow Meter

Assigned Number: FIT-01

Area Located: St. Mary's WPCP

Asset Number: 0000065597

Instrument Data

Manufacturer: Fischer & Porter

Model Number: 10014 66B

Type: Mag Flow

Serial Number: 8811B2004/1/B1

Range: 0 - 100 l/s

Accuracy: $\pm 1\%$

Method Of Calibration: Greyline PDFM 5.1

Application: Wastewater

Calibration Data

Input %	Input	As Found	As Left	Pass/Fail
0	4 mA	0.0 l/s	0.0 l/s	Pass
25	8 mA	24.74 l/s	24.74 l/s	Pass
50	12 mA	49.83 l/s	49.83 l/s	Pass
75	16 mA	74.86 l/s	74.86 l/s	Pass
100	20 mA	100.00 l/s	100.00 l/s	Pass
39	39	40.5 l/s	40.5 l/s	Pass

Confirmed Run Mode: ☒

Placed back in service: ☒

Comments:



Verification of original calibration only.

Unit is beginning to show drift. Will continue to monitor

Drift becoming more apparent

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: June 28, 2024

Equipment Description: Spectrophotometer

Assigned Number: AIT 5

Area Located: St Marys

Asset Number: N/A

Instrument Data

Manufacturer: Hach

Model Number: DR/2010

Part Number: 49300-00

Serial Number: 971100006191

Range: 0 - 5.00 mg/l

Accuracy: +/- 5%

Method Of Calibration: Standard Verification

Application: Wastewater

Calibration Data

Input %	Input	As Found	As Left	Pass/Fail
	0.00 mg/l	0.00 mg/l	0.00 mg/l	
	0.22 mg/l	0.22 mg/l	0.22 mg/l	Pass
	1.65 mg/l	1.65 mg/l	1.65 mg/l	Pass
	4.00 mg/l	3.96 mg/l	3.96 mg/l	Pass

Confirmed Run Mode: ☒

Placed back in service: ☒

Comments:

Equipment in good shape, No issues



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: June 28, 2024

Equipment Description: pH Meter

Assigned Number: AIT 7

Area Located: St. Marys

Asset Number: N/A

Instrument Data

Manufacturer: Orion

Model Number: 330

Part Number:

Serial Number: 003035

Range: 0 - 14

Accuracy: +/- 5%

Method Of Calibration: Standard Verification

Application: Potable Water

Calibration Data

Input %	Input	As Found	As Left	Pass/Fail
	7.00	6.72	7.01	Pass
	10.02	9.79	9.94	Pass

Confirmed Run Mode: ✓

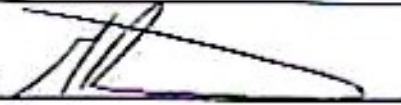
Placed back in service: ✓

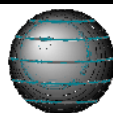
Comments:

Equipment in good shape, No issues



Checked By: Greg Pierce CCST

Signature: 



CERTIFICATE NUMBER: 10242024-1

CUSTOMER	OCWA ST. Marys
ADDRESS PHONE	309 Thomas St. St. Marys, Ont. N4X 1B6
REQUESTED BY	Mark Bouw

VISUAL AND FUNCTIONAL INSPECTION

Visual Inspection – Sensors, enclosures, connections, display, switches, pushbuttons, nameplates, tags are to be checked for its presence, physical integrity, cleanliness, readability and adequacy of installation

Functional Inspection – Switches, pushbuttons, display, signal integrity, response to process variable and response to calibration standards are to be checked for functionality, response within manufacturer's and end-user specifications

The sensors were cleaned and the analyzer calibrated.

CALIBRATION DATA

PASS/FAIL CRITERIA +/- 0.3 ppm O₂

AYSIX MODEL MPA48 D.O. ANALYZER S/N 48A1301

STANDARD	0.00 PPM	10.4PPM @ 14.1°C	0.00 PPM	10.4PPM @ 14.1°C
	AS FOUND		AS LEFT	
PROBE 1 S/N 10S8967	0.14	10.1	0.00	10.8
DELTA	0.14	0.3	0	0
PASS/FAIL/COMMENTS	PASS	PASS	PASS	PASS

STANDARD	0.00 PPM	10.4PPM @ 13.8°C	0.00PPM	10.4PPM @ 13.8°C
	AS FOUND		AS LEFT	
PROBE 2 S/N 10S7442	0.00	10.5	0.00	10.4
DELTA	0.00	0.1	0	0
PASS/FAIL/COMMENTS	PASS	PASS	PASS	PASS

STANDARD	0.00 PPM	10.6PPM @ 13.4°C	0.00PPM	10.6PPM @ 13.4°C
	AS FOUND		AS LEFT	
PROBE 3 S/N 10S3522	0.10	10.3	0.00	10.6
DELTA	0.10	0.3	0	0
PASS/FAIL/COMMENTS	PASS	PASS	PASS	PASS

REFERENCE STANDARDS

Dissolver Oxygen

Zero solution - solution of water saturated with sodium sulfite.

Span solution – Oxygen saturated clean water.

	PRINT NAME	SIGNATURE	DATE
PERFORMED BY	James Griffin		October 24 2024

Next calibration due October 2025

Customer: OCWA St.Marys
309 Thomas Street
STP
St.Marys, ON N4X 1B8

Make/ Model: 7500-0000 PS200 (LEL/O2/CO/H2S) w/pump
Serial Number: 338416
Calibration Date: Dec 5 2024 10:00AM - CC-JE
Calibrated by: Jordan Eckel
Service Order#: 122838

This instrument has been calibrated and tested in accordance with our process and conforms to the quality and calibration standards laid out by the manufacturers requirements.

Calibration Information		Calibration Cylinder Information	
Scale	Before Reading	Gas Concentration and Tank Registration	Applicable?
Quad Gas Tank	N/A	Quad Gas Lot: 302-402980849 (25 PPM H2S, 100 PPM CO, 50 LEL, 18% O2, Balance N2)	✓
Hydrocarbon	46	N/A	
Carbon Monoxide	87	N/A	
Hydrogen Sulphide	21	N/A	
Oxygen	17.8	N/A	
Other Information:		General Comments:	
Zeroed Instrument/Sensor	Yes	338416 O2 sensor past life expectancy, replaced O2 sensor. Zeroed and calibrated unit, working well.	
Alarms Verified	Yes		
Attachments Checked	NA		
Battery Checked	Yes		

The instrument has been calibrated with mixtures which are prepared and analyzed to a known tolerance of the major components, traceable to national standards, and the results are within the calibration tolerance.

122838 Task #9
Signed By: Jordan Eckel
on Thu December 5 2024 4:39P

Technician Signature

2085 Piper Lane
London, ON
N5V 3S5
Tel: (519) 659-1144

8725 53 Ave.
Edmonton, AB
T6E 5E9
Tel: (780) 628-7864

145 McNamara Drive
Paradise, NL
A1L 0A7
Tel: (709) 368-9000

Customer: OCWA St.Marys
309 Thomas Street
STP
St.Marys, ON N4X 1B8

Make/ Model: 4000-0000 Armstrong AMC Digester Area 2 LEL upper and lower
Serial Number: 0000207056
Calibration Date: Dec 5 2024 10:00AM - CC-JE
Calibrated by: Jordan Eckel
Service Order#: 122838

This instrument has been calibrated and tested in accordance with our process and conforms to the quality and calibration standards laid out by the manufacturers requirements.

Head/ Location		Calibration Information	Calibration Cylinder Information	
Location	Gas Type	Before Reading	Gas Concentrations and Tank Registration	Adjusted Zero
	LEL Methane	42.0	LEL Methane (CH4) Lot: 304-402677920-1 (50% LEL, Balance Air 20.9)	Yes
	LEL Methane	48.0	LEL Methane (CH4) Lot: 304-402677920-1 (50% LEL, Balance Air 20.9)	Yes

Other Information:

Are relays working?	Yes
Are internal alarms working?	Not Applicable
Were other peripherals checked?	Yes
Are relays working?	Yes
Are internal alarms working?	Not Applicable
Were other peripherals checked?	Yes

General Comments:

Upper LEL sensor was very slow to calibrate, recommend replacing at next service. Both LEL sensors zeroed and calibrated.

The instrument has been calibrated with mixtures which are prepared and analyzed to a known tolerance of the major components, traceable to national standards, and the results are within the calibration tolerance.

Technician Signature

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Tel: (780) 628-7864

145 McNamara Drive
Paradise, NL
A1L 0A7
Tel: (709) 368-9000

Customer: OCWA St.Marys
309 Thomas Street
STP
St.Marys, ON N4X 1B8

Make/ Model: 4000-0000 MSA Ultima XE H2S #2 Upstairs Lystek bldg
Serial Number: J09-3215377-10-001d
Calibration Date: Dec 5 2024 10:00AM - CC-JE
Calibrated by: Jordan Eckel
Service Order#: 122838

This instrument has been calibrated and tested in accordance with our process and conforms to the quality and calibration standards laid out by the manufacturers requirements.

Head/ Location		Calibration Information	Calibration Cylinder Information	
Location	Gas Type	Before Reading	Gas Concentrations and Tank Registration	Adjusted Zero
	Hydrogen Sulphide	0.0	Hydrogen Sulfide Lot: 304-402960305-1 (25 ppm h2s, balance N2)	Yes

Other Information:

Are relays working?	Yes
Are internal alarms working?	Not Applicable
Were other peripherals checked?	Yes
Are relays working?	
Are internal alarms working?	
Were other peripherals checked?	

General Comments:

Sensor failed calibration, it was reading 0ppm. Replaced sensor, zeroed and calibrated unit, working well.

The instrument has been calibrated with mixtures which are prepared and analyzed to a known tolerance of the major components, traceable to national standards, and the results are within the calibration tolerance.

122838 Task #5
Signed By: Jordan Eckel
on Fri December 6 2024 1:21PM

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145 McNamara Drive
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Tel: (709) 368-9000

Technician Signature

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145 McNamara Drive
Paradise, NL
A1L 0A7
Tel: (709) 368-9000

Customer: OCWA St.Marys
309 Thomas Street
STP
St.Marys, ON N4X 1B8

Make/ Model: 4000-0000 MSA Ultima XE #2 H2S raw sewage lower
Serial Number: G10-3459830-20-001
Calibration Date: Dec 5 2024 10:00AM - CC-JE
Calibrated by: Jordan Eckel
Service Order#: 122838

This instrument has been calibrated and tested in accordance with our process and conforms to the quality and calibration standards laid out by the manufacturers requirements.

Head/ Location		Calibration Information	Calibration Cylinder Information	
Location	Gas Type	Before Reading	Gas Concentrations and Tank Registration	Adjusted Zero
	Hydrogen Sulphide	19.0	Hydrogen Sulfide Lot: 304-402960305-1 (25 ppm h2s, balance N2)	Yes

Other Information:

Are relays working?	Yes
Are internal alarms working?	Not Applicable
Were other peripherals checked?	Yes

Are relays working?	
Are internal alarms working?	
Were other peripherals checked?	

General Comments:

Sensor was very slow to calibrate, recommend replacing at next service. Zeroed and calibrated unit, working well.

The instrument has been calibrated with mixtures which are prepared and analyzed to a known tolerance of the major components, traceable to national standards, and the results are within the calibration tolerance.

122838 Task #11
Signed By: Jordan Eckel
on Fri December 6 2024 1:13PM

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Tel: (709) 368-9000

Technician Signature

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Edmonton, AB
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Tel: (780) 628-7864

145 McNamara Drive
Paradise, NL
A1L 0A7
Tel: (709) 368-9000

Customer: OCWA St.Marys
309 Thomas Street
STP
St.Marys, ON N4X 1B8

Make/ Model: 4000-0000 MSA Ultima XE H2S #2 raw sewage upper
Serial Number: G10-3459830-20-002
Calibration Date: Dec 5 2024 10:00AM - CC-JE
Calibrated by: Jordan Eckel
Service Order#: 122838

This instrument has been calibrated and tested in accordance with our process and conforms to the quality and calibration standards laid out by the manufacturers requirements.

Head/ Location		Calibration Information	Calibration Cylinder Information	
Location	Gas Type	Before Reading	Gas Concentrations and Tank Registration	Adjusted Zero
	Hydrogen Sulphide	22.0	Hydrogen Sulfide Lot: 304-402960305-1 (25 ppm h2s, balance N2)	Yes

Other Information:

Are relays working?	Yes
Are internal alarms working?	Not Applicable
Were other peripherals checked?	Yes

Are relays working?	
Are internal alarms working?	
Were other peripherals checked?	

General Comments:

Zeroed and calibrated unit, working well.

The instrument has been calibrated with mixtures which are prepared and analyzed to a known tolerance of the major components, traceable to national standards, and the results are within the calibration tolerance.

122838 Task #2
Signed By: Jordan Eckel
on Fri December 6 2024 1:27PM

2085 Piper Lane
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Tel: (519) 659-1144

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Tel: (780) 628-7864

145 McNamara Drive
Paradise, NL
A1L 0A7
Tel: (709) 368-9000

Technician Signature

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Tel: (519) 659-1144

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Edmonton, AB
T6E 5E9
Tel: (780) 628-7864

145 McNamara Drive
Paradise, NL
A1L 0A7
Tel: (709) 368-9000

Customer: OCWA St.Marys
309 Thomas Street
STP
St.Marys, ON N4X 1B8

Make/ Model: 4000-0000 MSA Ultima XE H2S #2 Downstairs Lystek bldg
Serial Number: J09-3215377-10-001c
Calibration Date: Dec 5 2024 10:00AM - CC-JE
Calibrated by: Jordan Eckel
Service Order#: 122838

This instrument has been calibrated and tested in accordance with our process and conforms to the quality and calibration standards laid out by the manufacturers requirements.

Head/ Location		Calibration Information	Calibration Cylinder Information	
Location	Gas Type	Before Reading	Gas Concentrations and Tank Registration	Adjusted Zero
	Hydrogen Sulphide	20.0	Hydrogen Sulfide Lot: 304-402960305-1 (25 ppm h2s, balance N2)	Yes

Other Information:

Are relays working?	Yes
Are internal alarms working?	Not Applicable
Were other peripherals checked?	Yes

Are relays working?	
Are internal alarms working?	
Were other peripherals checked?	

General Comments:

Zeroed and calibrated unit, working well.

The instrument has been calibrated with mixtures which are prepared and analyzed to a known tolerance of the major components, traceable to national standards, and the results are within the calibration tolerance.

122838 Task #8
Signed By: Jordan Eckel
on Fri December 6 2024 1:31 PM

2085 Piper Lane
London, ON
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8725 53 Ave.
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Paradise, NL
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Tel: (709) 368-9000

Technician Signature

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Tel: (519) 659-1144

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Edmonton, AB
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Tel: (780) 628-7864

145 McNamara Drive
Paradise, NL
A1L 0A7
Tel: (709) 368-9000

Customer: OCWA St.Marys
309 Thomas Street
STP
St.Marys, ON N4X 1B8

Make/ Model: 4000-0000 MSA Ultima XE #3 O2 raw sewage lower
Serial Number: G10-3459830-30-001
Calibration Date: Dec 5 2024 10:00AM - CC-JE
Calibrated by: Jordan Eckel
Service Order#: 122838

This instrument has been calibrated and tested in accordance with our process and conforms to the quality and calibration standards laid out by the manufacturers requirements.

Head/ Location		Calibration Information	Calibration Cylinder Information	
Location	Gas Type	Before Reading	Gas Concentrations and Tank Registration	Adjusted Zero
	Oxygen	21.3	Oxygen: 302-402986210 (20.9% O2, Nitrogen Balance)	Yes

Other Information:

Are relays working?	Yes
Are internal alarms working?	Not Applicable
Were other peripherals checked?	Yes

Are relays working?	
Are internal alarms working?	
Were other peripherals checked?	

General Comments:

Zeroed and calibrated unit, working well.

The instrument has been calibrated with mixtures which are prepared and analyzed to a known tolerance of the major components, traceable to national standards, and the results are within the calibration tolerance.

122838 Task #12
Signed By: Jordan Eckel
on Fri December 6 2024 1:34PM

2085 Piper Lane
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Technician Signature

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Tel: (709) 368-9000

Customer: OCWA St.Marys
309 Thomas Street
STP
St.Marys, ON N4X 1B8

Make/ Model: 4000-0000 MSA Ultima XE LEL IR #1 Downstairs
Lystek bldg
Serial Number: J09-3215377-10-001b
Calibration Date: Dec 5 2024 10:00AM - CC-JE
Calibrated by: Jordan Eckel
Service Order#: 122838

This instrument has been calibrated and tested in accordance with our process and conforms to the quality and calibration standards laid out by the manufacturers requirements.

Head/ Location		Calibration Information	Calibration Cylinder Information	
Location	Gas Type	Before Reading	Gas Concentrations and Tank Registration	Adjusted Zero
	LEL Methane	58.0	LEL Methane (CH4) Lot: 304-402677920-1 (50% LEL, Balance Air 20.9)	Yes

Other Information:

Are relays working?	Yes
Are internal alarms working?	Not Applicable
Were other peripherals checked?	Yes
Are relays working?	
Are internal alarms working?	
Were other peripherals checked?	

General Comments:

Zeroed and calibrated unit, working well.

The instrument has been calibrated with mixtures which are prepared and analyzed to a known tolerance of the major components, traceable to national standards, and the results are within the calibration tolerance.

122838 Task #3
Signed By: Jordan Eckel
on Fri December 6 2024 1:38PM

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Customer: OCWA St.Marys
309 Thomas Street
STP
St.Marys, ON N4X 1B8

Make/ Model: 4000-0000 MSA Ultima XE LEL IR #3 Downstairs
Lystek bldg
Serial Number: J09-3215377-10-002a
Calibration Date: Dec 5 2024 10:00AM - CC-JE
Calibrated by: Jordan Eckel
Service Order#: 122838

This instrument has been calibrated and tested in accordance with our process and conforms to the quality and calibration standards laid out by the manufacturers requirements.

Head/ Location		Calibration Information	Calibration Cylinder Information	
Location	Gas Type	Before Reading	Gas Concentrations and Tank Registration	Adjusted Zero
	LEL Methane	61.0	LEL Methane (CH4) Lot: 304-402677920-1 (50% LEL, Balance Air 20.9)	Yes

Other Information:

Are relays working?	Yes
Are internal alarms working?	Not Applicable
Were other peripherals checked?	Yes
Are relays working?	
Are internal alarms working?	
Were other peripherals checked?	

General Comments:

Zeroed and calibrated unit, working well.

The instrument has been calibrated with mixtures which are prepared and analyzed to a known tolerance of the major components, traceable to national standards, and the results are within the calibration tolerance.

122838 Task #4
Signed By: Jordan Eckel
on Fri December 6 2024 1:42PM

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Tel: (709) 368-9000

Customer: OCWA St.Marys
309 Thomas Street
STP
St.Marys, ON N4X 1B8

Make/ Model: 4000-0000 MSA Ultima XE LEL IR #1 Upstairs Lystek bldg
Serial Number: J09-3215377-10-001a
Calibration Date: Dec 5 2024 10:00AM - CC-JE
Calibrated by: Jordan Eckel
Service Order#: 122838

This instrument has been calibrated and tested in accordance with our process and conforms to the quality and calibration standards laid out by the manufacturers requirements.

Head/ Location		Calibration Information	Calibration Cylinder Information	
Location	Gas Type	Before Reading	Gas Concentrations and Tank Registration	Adjusted Zero
	LEL Methane	49.0	LEL Methane (CH4) Lot: 304-402677920-1 (50% LEL, Balance Air 20.9)	Yes

Other Information:

Are relays working?	Yes
Are internal alarms working?	Not Applicable
Were other peripherals checked?	Yes
Are relays working?	
Are internal alarms working?	
Were other peripherals checked?	

General Comments:

Zeroed and calibrated unit, working well.

The instrument has been calibrated with mixtures which are prepared and analyzed to a known tolerance of the major components, traceable to national standards, and the results are within the calibration tolerance.

122838 Task #7
Signed By: Jordan Eckel
on Fri December 6 2024 1:52PM

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Technician Signature

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A1L 0A7
Tel: (709) 368-9000

Customer: OCWA St.Marys
309 Thomas Street
STP
St.Marys, ON N4X 1B8

Make/ Model: 4000-0000 MSA Ultima XE IR LEL #1 upper raw
sewage
Serial Number: G10-3459830-10-002
Calibration Date: Dec 5 2024 10:00AM - CC-JE
Calibrated by: Jordan Eckel
Service Order#: 122838

This instrument has been calibrated and tested in accordance with our process and conforms to the quality and calibration standards laid out by the manufacturers requirements.

Head/ Location		Calibration Information	Calibration Cylinder Information	
Location	Gas Type	Before Reading	Gas Concentrations and Tank Registration	Adjusted Zero
	LEL Methane	46.0	LEL Methane (CH4) Lot: 304-402677920-1 (50% LEL, Balance Air 20.9)	Yes

Other Information:

Are relays working?	Yes
Are internal alarms working?	Not Applicable
Were other peripherals checked?	Yes
Are relays working?	
Are internal alarms working?	
Were other peripherals checked?	

General Comments:

Zeroed and calibrated unit, working well.

The instrument has been calibrated with mixtures which are prepared and analyzed to a known tolerance of the major components, traceable to national standards, and the results are within the calibration tolerance.

122838 Task #13
Signed By: Jordan Eckel
on Fri December 6 2024 1:56PM

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Tel: (519) 659-1144

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Technician Signature

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A1L 0A7
Tel: (709) 368-9000

Customer: OCWA St.Marys
309 Thomas Street
STP
St.Marys, ON N4X 1B8

Make/ Model: 4000-0000 MSA Ultima XE LEL IR #3 Upstairs Lystek Bldg
Serial Number: I19-401641316-10-001
Calibration Date: Dec 5 2024 10:00AM - CC-JE
Calibrated by: Jordan Eckel
Service Order#: 122838

This instrument has been calibrated and tested in accordance with our process and conforms to the quality and calibration standards laid out by the manufacturers requirements.

Head/ Location		Calibration Information	Calibration Cylinder Information	
Location	Gas Type	Before Reading	Gas Concentrations and Tank Registration	Adjusted Zero
	LEL Methane	47.0	LEL Methane (CH4) Lot: 304-402677920-1 (50% LEL, Balance Air 20.9)	Yes

Other Information:

Are relays working?	Yes
Are internal alarms working?	Not Applicable
Were other peripherals checked?	Yes
Are relays working?	
Are internal alarms working?	
Were other peripherals checked?	

General Comments:

Zeroed and calibrated unit, working well.

The instrument has been calibrated with mixtures which are prepared and analyzed to a known tolerance of the major components, traceable to national standards, and the results are within the calibration tolerance.

122838 Task #6
Signed By: Jordan Eckel
on Fri December 6 2024 1:50PM

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Tel: (519) 659-1144

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Tel: (709) 368-9000

Customer: OCWA St.Marys
309 Thomas Street
STP
St.Marys, ON N4X 1B8

Make/ Model: 4000-0000 MSA Ultima XE LEL #1 raw sewage lower
Serial Number: G10-3459830-30-002
Calibration Date: Dec 5 2024 10:00AM - CC-JE
Calibrated by: Jordan Eckel
Service Order#: 122838

This instrument has been calibrated and tested in accordance with our process and conforms to the quality and calibration standards laid out by the manufacturers requirements.

Head/ Location		Calibration Information	Calibration Cylinder Information	
Location	Gas Type	Before Reading	Gas Concentrations and Tank Registration	Adjusted Zero
	LEL Methane	53.0	LEL Methane (CH4) Lot: 304-402677920-1 (50% LEL, Balance Air 20.9)	Yes

Other Information:

Are relays working?	Yes
Are internal alarms working?	Not Applicable
Were other peripherals checked?	Yes

Are relays working?	
Are internal alarms working?	
Were other peripherals checked?	

General Comments:

Zeroed and calibrated unit, working well.

The instrument has been calibrated with mixtures which are prepared and analyzed to a known tolerance of the major components, traceable to national standards, and the results are within the calibration tolerance.

122838 Task #10
Signed By: Jordan Eckel
on Fri December 6 2024 1:54PM

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