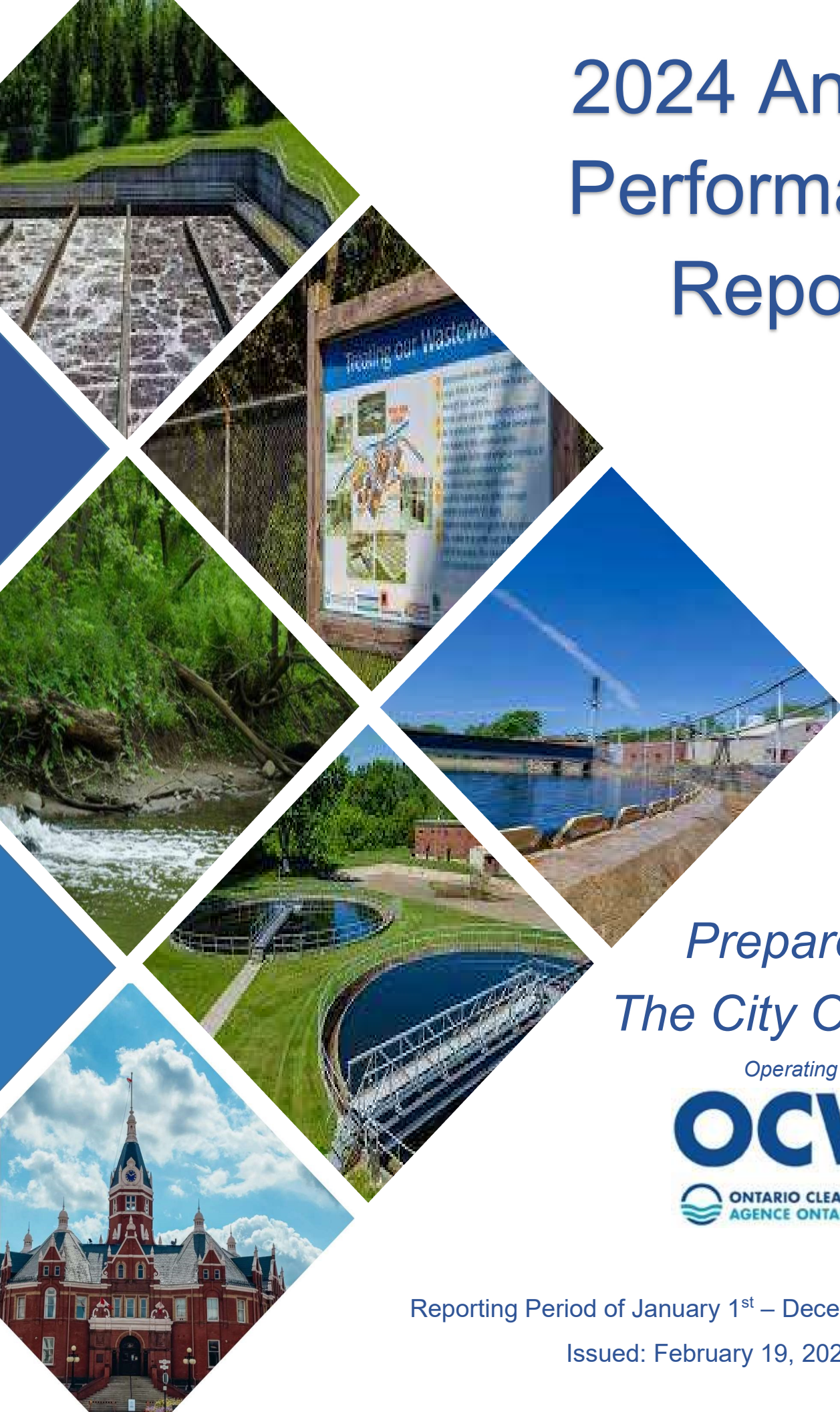


2024 Annual Performance Report



Prepared For:
The City Of Stratford

Operating Authority:

OCWA

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

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

Issued: February 19, 2025

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Overview

The following report was prepared by Ontario Clean Water Agency on behalf of the City of Stratford in accordance with:

- Section 20(4) (a) through (m) cited in Environmental Compliance Approval #9501-BG3JPF issued June 10th, 2020 to The Corporation of the City of Stratford.

System Process Description

The Stratford WPCP is located at 701 West Gore Street, Ontario. The plant is a conventional activated sludge plant with a rated capacity of 30,660 m³/d and is comprised of the following components:

- Headworks
- Wet Weather Flow Equalization Tanks and disinfection system
- Preliminary treatment facility consisting of screens and grit removal
- Imported Waste holding tanks and primary clarifiers
- Biological Treatment facility including supplementary treatment system
- Secondary sedimentation consisting of 3 secondary clarifiers
- Tertiary filtration system
- Ultraviolet based disinfection system
- Anaerobic digestion based sludge stabilization and storage facilities

Raw Wastewater Collection

The wastewater is directed by gravity to 11 pump stations located throughout the City. All pump stations are operated by the City of Stratford Environmental Services Department. For additional information, refer to the City of Stratford Sewage Collection System, Consolidated Linear Infrastructure Annual Performance Report.

Lift Station

The wastewater collection system throughout the City carries the raw domestic wastewater through the use of pumping stations to the Water Pollution Control Plant's Raw Sewage Lift Station located just inside the front gate. The 825mm and 1,500mm diameter inlet sewers feed to the lift station from the Forman/O'Loane and the Erie/Brydges/Worsley trunk sewers. The lift station is equipped with four screw pumps; three screw pumps each with a capacity of 427L/s to handle peak dry weather flows and one screw pump with a capacity of 2,600L/s to handle wet weather flows.

The raw sewage that has entered the plant through the lift station is then fed by gravity to a distribution chamber.

Wet Weather Equalization Tanks

The flow diversion chamber and equalization tanks provide temporary storage for raw sewage during times when incoming sewage flow exceeds plant capacity. When incoming flow returns to below plant capacity, the stored sewage may be pumped to the inlet chamber for proper treatment.

During severe wet weather events, once all storage is full, excess flow is diverted to two wet weather flow equalization tanks each with a capacity of approximately 3,762m³ and equipped with sediment

flushing systems and a 300 mm diameter drain pipe connecting to the base of the raw sewage lift station.

Flow passes through a manual bar screen before entering equalization tank 1, where it receives primary treatment through sedimentation. Flow then passes over the baffles into equalization tank 2 where it is dosed with sodium hypochlorite through the use of an in-line mixer. Equalization tank 2 is equipped with baffled walls to act as a chlorine contact chamber to provide additional mixing during emergency wet weather overflow events. Prior to discharge to the Avon River, flows are dosed with sodium bisulphite and integrated with an in-line mixer to ensure sufficient de-chlorination is achieved.

Preliminary Treatment

When incoming flow is below plant capacity, raw water flows through the distribution chamber and into the screening building. The building consists of two mechanical bar screens rated at a hydraulic peak flow of 450L/s. Collected screenings are lifted into a discharge hopper and dewatered by a dewatering screw auger. The screenings and grit are removed and sent to landfill.

Following screening, the raw sewage enters the Detritor, a square tank with a rotating scraper mechanism. When in the Detritor, the grit in the raw sewage settles to the bottom of the tank, while the degritted sewage flows over the effluent weir, into the primary clarifier inlet channel. The grit is collected by the rotating scraper and deposited at the base of the grit auger located in a channel beside the Detritor. The auger mechanism slowly pushes the grit up a gradual incline and into a grit bin. While passing up the incline, organic solids are separated from the grit and flow downward back into the channel. A return pump pumps sewage from the Detritor to the point where the auger emerges from the channel, causing a reverse flow which carries the organic solids back to the Detritor.

Primary Treatment

Detritor effluent enters the primary influent distribution chamber, at this same location waste activated sludge and stored sludge supernatant is added to the stream for co-thickening in the four primary clarifiers.

Under normal operating conditions two primary clarifiers provide primary treatment while the other two are used for receiving and holding imported sewage. During peak flow conditions these clarifiers can also perform as wet weather flow holding tanks.

The primary clarifiers are designed to remove settled and floating solids from the wastewater stream, utilizing sludge collector mechanisms, and thereby reducing the organic load on the downstream biological treatment process. Settled sludge collects on the bottom of the primary clarifiers and is moved to the central hoppers by a rotating scraper mechanism.

Scum and other floatables from the surface of the clarifiers are collected by the rotating surface skimmers and directed to the scum troughs. The scum troughs drain by gravity into shared scum chambers. Primary clarifiers 1 and 2 share a common combined valve and scum chamber, as do primary clarifiers 3 and 4. The collected scum can be removed from the shared scum chambers by using either of the primary sludge pumps (discharge to the digesters).

Both the sludge and scum are pumped by two sludge pumps and macerated through in-line grinders to the primary anaerobic digester.

The primary effluent system consists of three submersible pumps located in the wet well and include related piping and accessories. The clarified effluent flows over the “V” notch weirs located around the perimeter of the tank, into the clarifier effluent channel that flows by gravity into the wet well from where it is pumped to the aeration tank inlet chamber.

Secondary Treatment

The secondary treatment system, also known as the aeration or biological part of the process is the removal of dissolved and suspended solids that were not removed in the primary treatment. Effluent from the primary clarifiers flows by gravity to the wet well, from which the primary effluent is pumped to the aeration tank inlet chamber. The return activated sludge and Ferrous Chloride is discharged to this chamber where it mixes with the primary effluent. The mixture is evenly distributed between the four (4) aeration tanks via the aerated inlet channel.

Each tank is divided into three passes to provide a plug flow aeration pattern which provides flexibility to vary the air supply within the tanks allowing better oxygen transfer and dissolved oxygen (DO) control. It also improves sludge settleability. Aeration and mixing are provided by lattices of 944 ceramic disc fine pore diffusers per aeration cell. The air supply system consists of one duty APG Neuros 350HP Turbo Blower and two standby Hoffman 200HP centrifugal blowers that deliver compressed air to the aeration tanks and the diffuser air system.

Mixed liquor from aeration enters the final clarifier influent distribution chamber and is distributed evenly to the three tanks. Mixed liquor enters each of the final clarifiers via a feed pipe located at the base of the clarifier. The feed pipe discharges within a circular feed well which acts as a baffle to deflect the incoming flow downwards and reduce short circuiting.

The clarifier mechanism in each tank is classified as a rapid sludge removal type. The settled sludge is continuously removed from the tank bottom by pipes which are supported on two rotating trusses. Mechanical rake arms on the bottom of the trusses scrape the settled sludge towards the opening in the suction pipes.

The hydraulic head producing the flow in the suction pipes is equal to the difference between the liquid levels in the clarifier and the sludge return box. The eight (8) suction pipes enter the sludge return box from below. A butterfly valve on each pipe is used to control the sludge flow rate into the box from each withdrawal pipe. The settled sludge from the final clarifiers is identified as return activated sludge (RAS). It is either returned to the main RAS header and further to the inlet chamber upstream of the aeration tanks or waste activated sludge (WAS) which is pumped to the discharge point in the primary settling tank inlet chamber. The WAS then settles within the primary clarifiers and is mixed with the primary sludge and then pumped to the primary digester. The sludge from the sludge box flows through a 450 mm diameter pipe, located inside the clarifier inlet column, to the inlet of the RAS pump located in the basement of the blower building (RAS pumping station). The clarified effluent flows over the “V” notch weirs located around the perimeter of the tank, into the clarifier effluent channel that discharges to the clarifier outlet chamber.

Filtration

Secondary effluent is lifted by the Archimedean screw pumps and flows into the filter inlet gate where it is distributed evenly between four rapid filters. Each filter contains three (3) layers of media; gravel varying in size, sand and anthracite. In removing the solids, some of the residual BOD and phosphorus

are also reduced. The solids accumulated in the filter are removed when the filters are backwashed and the backwash wastewater is recycled to the primary clarifier inlet channel. In the process of pumping to the primary clarifier inlet chamber, many of the solids removed by filtration are removed in the second routing through the plant by physical, chemical or biological flocculation and resultant sedimentation; as a result the finely divided solids do not accumulate in the plant.

During backwashes, there are two rotating sub-surface agitators in each filter. Each agitator arm is provided with 38 nozzles and is designed to mix the expanded media during the backwash in order to effectively scour the media and remove all accumulated solids.

The effluent passes down through the filter media and is collected in the clear well beneath the filters and flows into the UV disinfection building channel. The rate of flow through the filters can be controlled for each filter by the filter rate control valve or by the filter inlet gate. Once passed through the filter, the effluent flows via channel to the final effluent disinfection process.

Final Effluent Disinfection

Filtered effluent flows into the UV channel where it is disinfected by the ultraviolet (UV) light before being discharged to the Avon River. The UV system consists of two banks each comprised of 10 modules with 6 lamps per rack, totaling 120 lamps within one disinfection channel. The water level in the channel is maintained by the weir located at the end of the channel.

Sludge Management System

Under normal operating conditions, the raw sludge removed from the primary treatment process is pumped to the primary digester. The primary digester has a fixed cover and can be maintained at a constant level. When operating in this configuration, sludge is pumped into the digester, excess sludge overflows into the primary tank supernatant overflow box. The lowest pipe in the overflow box connects to the transfer line that leads to the secondary digester. The second highest pipe connects to the supernatant return line to the inlet works (acts as an emergency overflow). The third pipe in the box is the feed line for the box from the primary digester. An alternative configuration used at the Stratford WPCP, the transfer pumps may be used to manually pump sludge from the bottom of the primary digester into the bottom of the secondary digester.

The primary digester gas is mixed. The gas compressor located in the gas pump room continuously moves gas through the draft tubes located at fixed intervals along the roof of the tank. This induces a rolling motion in the digester that provides complete mixing in the unit. Sludge is heated by pumping it through the heat exchanger and back to the primary digester.

Once sludge is transferred to the secondary digester, it settles and thickens in the tank. Methane gas that is produced is stored in the gas holder cover. Methane gas is used as fuel to run the boiler system which supplies heat to the heat exchanger, which in turn keeps the anaerobic digester at a constant temperature. Any methane gas that is not used will burn off into the atmosphere through the waste gas burner. Supernatant from the tank overflows in the secondary overflow box and is returned (by gravity) to the primary clarifier influent channel. Sludge can be sampled at various levels inside the digester by opening the appropriate valves in the sampling room.

Sludge is withdrawn from the bottom of the secondary digester and transferred to the sludge storage holding tank or sludge storage lagoon. Sludge can be withdrawn from either the holding tank and/ or

lagoon through the sludge loading pumps. All sludge is removed and applied to agricultural land as per the NASM Guidelines.

Standby Power

The Toromont- Cat diesel generator provides supplies emergency power to the Stratford WPCP, thereby maintaining plant operation during power outages. The generator has been sized to provide adequate power to operate the entire plant under normal conditions.

Plant Facts:

Environmental Compliance Approval:	#9501-BG3JPF (issued June 10 th , 2020)
Rated Capacity:	30,660m ³ /d
Receiving Water:	Avon River

For 2024, the Stratford WPCP was operated in accordance with the provincial regulations as required in ECA# #9501-BG3JPF. The following report is presented such that it corresponds with Section 20(4) (a) through (m).

Flow Monitoring

The Stratford WPCP is rated to treat an average daily flow of 30,660 m³. Refer to Figure 1 for a comparison of the average daily flow for the last six years against the rated capacity of the plant. The average daily flow rate in 2024 decreased 8.4% from 2023 average daily flow.

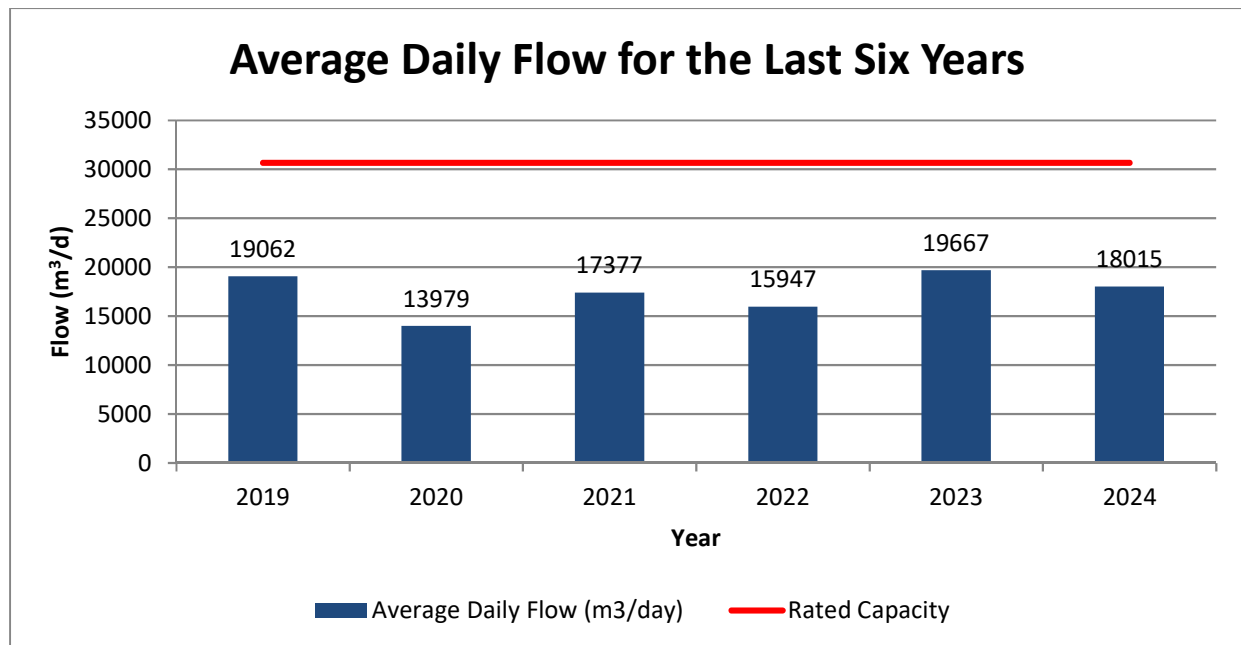


Figure 1. Average Daily Flow or the Last Six Years

The average daily flow in 2024 was 18,015 m³/d. The WPCP was at 58.8 % of the rated capacity of 30,660 m³/d in 2024. Refer to Figure 2 for average daily flow each month and the overall annual average daily flow.

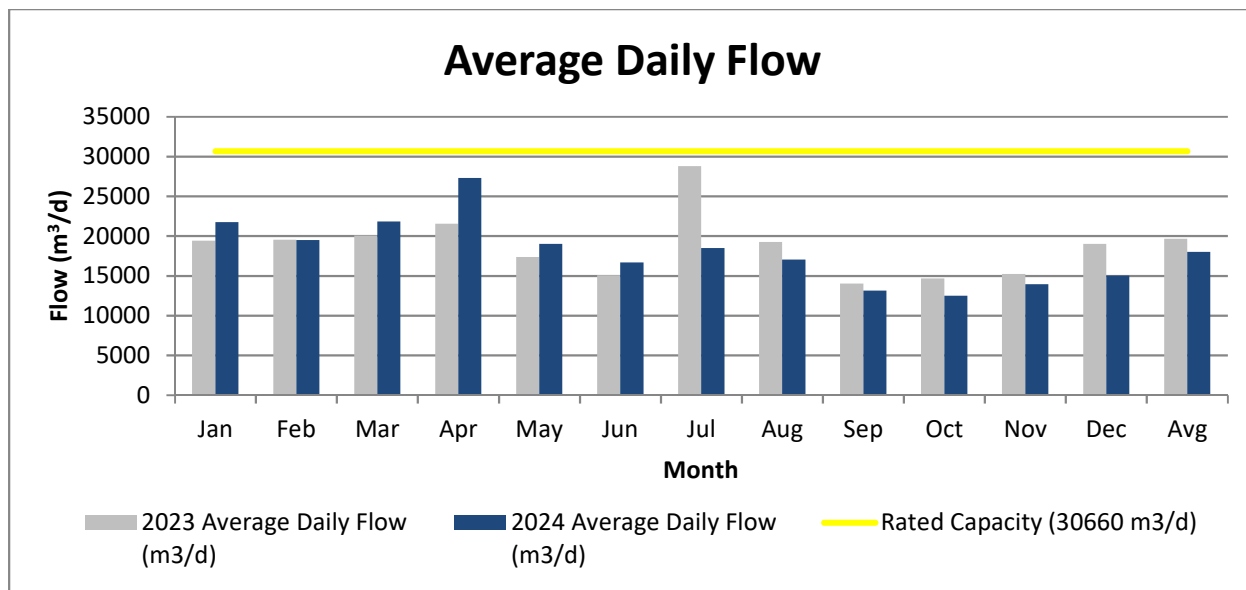


Figure 2. Average Daily Flow each Month

Influent Data

The influent is monitored for BOD5, total suspended solids, total phosphorous and total Kjeldahl nitrogen on a weekly basis by means of composite sample. Refer to **Appendix A Influent and Effluent Data** for more detail on monthly results.

In 2024, the average raw Biochemical Oxygen Demand (BOD5) concentration was 158.4 mg/L, which is 132% of the design concentration that the plant can effectively treat. There have been ten monthly concentrations above the design concentration, this did not result in ineffective treatment of the raw sewage or effluent limit exceedances. Refer to Figure 3 for a comparison of 2024 monthly raw BOD5 concentrations to 2023 concentrations.

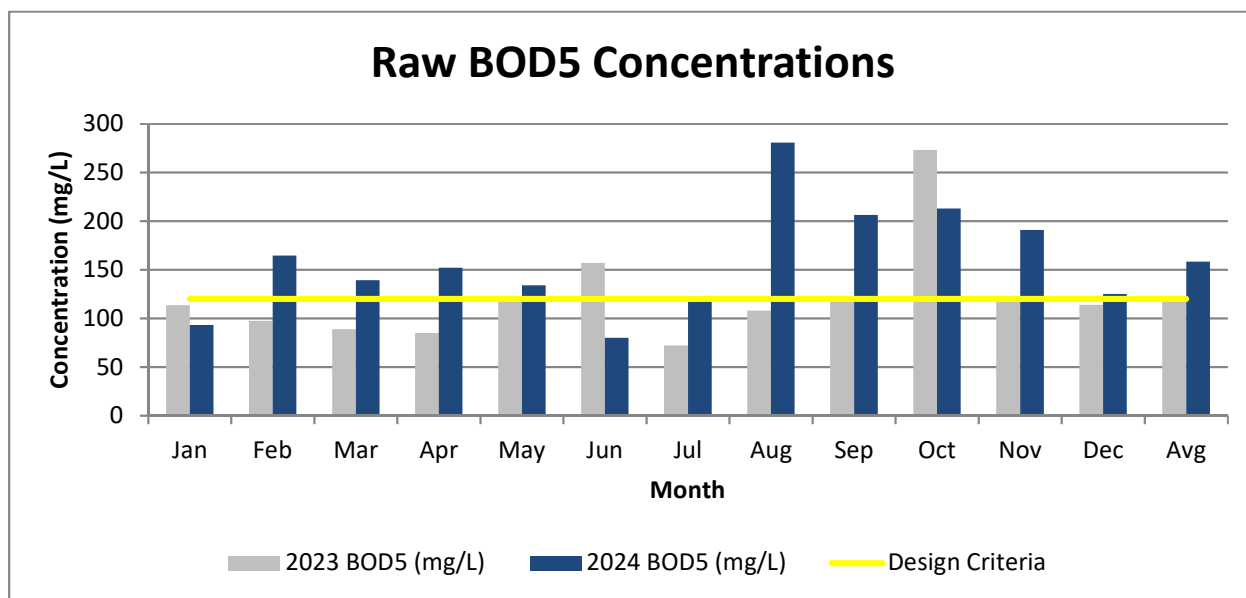


Figure 3. Raw BOD Concentrations

In 2024 the average raw Total Suspended Solids (TSS) concentration was 141.5 mg/L, which is 94% of the design concentration that the plant can effectively treat. There have been six monthly concentrations above the design concentration, this did not result in ineffective treatment of the raw sewage or effluent limit exceedances. Refer to Figure 4 for a comparison of 2024 monthly raw TSS concentrations to 2023 concentrations.

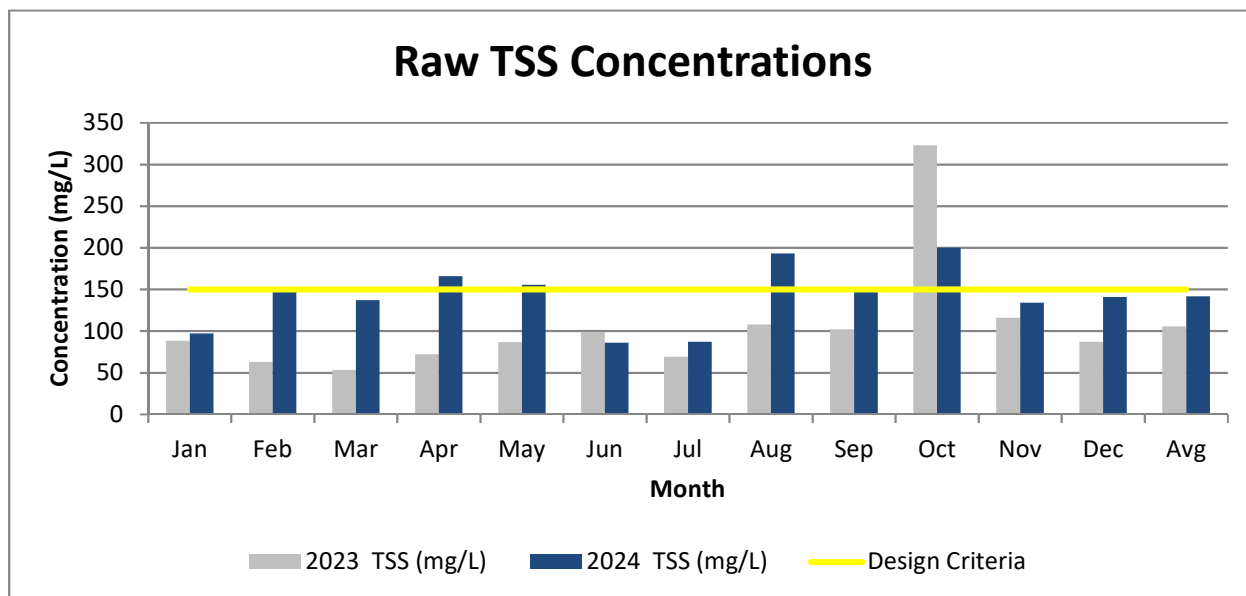


Figure 4. Raw TSS Concentrations

In 2024, the average raw Total Phosphorus (TP) concentration was 2.9 mg/L, which is 57% of the design concentration that the plant can effectively treat. There have been no monthly concentrations above

the design concentration. Refer to Figure 5 for a comparison of 2024 monthly raw TP concentrations to 2023 concentrations.

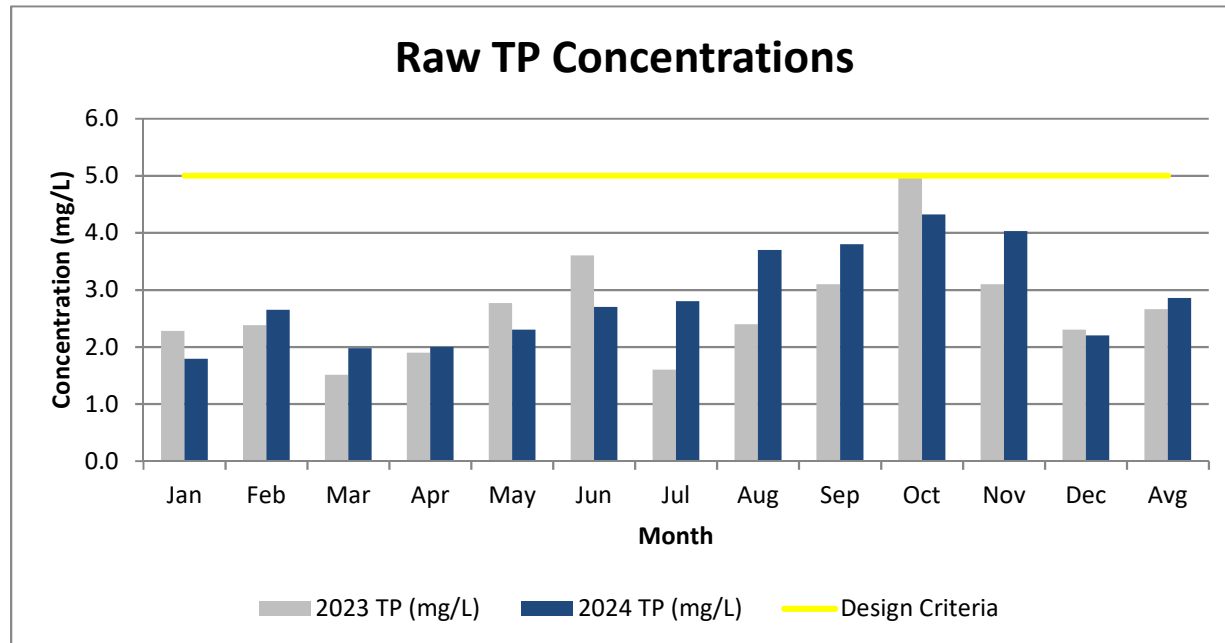


Figure 5. Raw TP Concentrations

In 2024 the average raw Total Kjeldahl Nitrogen (TKN) concentration was 24.7 mg/L, which is 99% of the design concentration that the plant can effectively treat. There have been five concentrations above the design concentration, this did not result in ineffective treatment of the raw sewage or cause effluent limit exceedances. Refer to Figure 6 for a comparison of 2024 monthly raw TKN concentrations to 2023 concentrations.

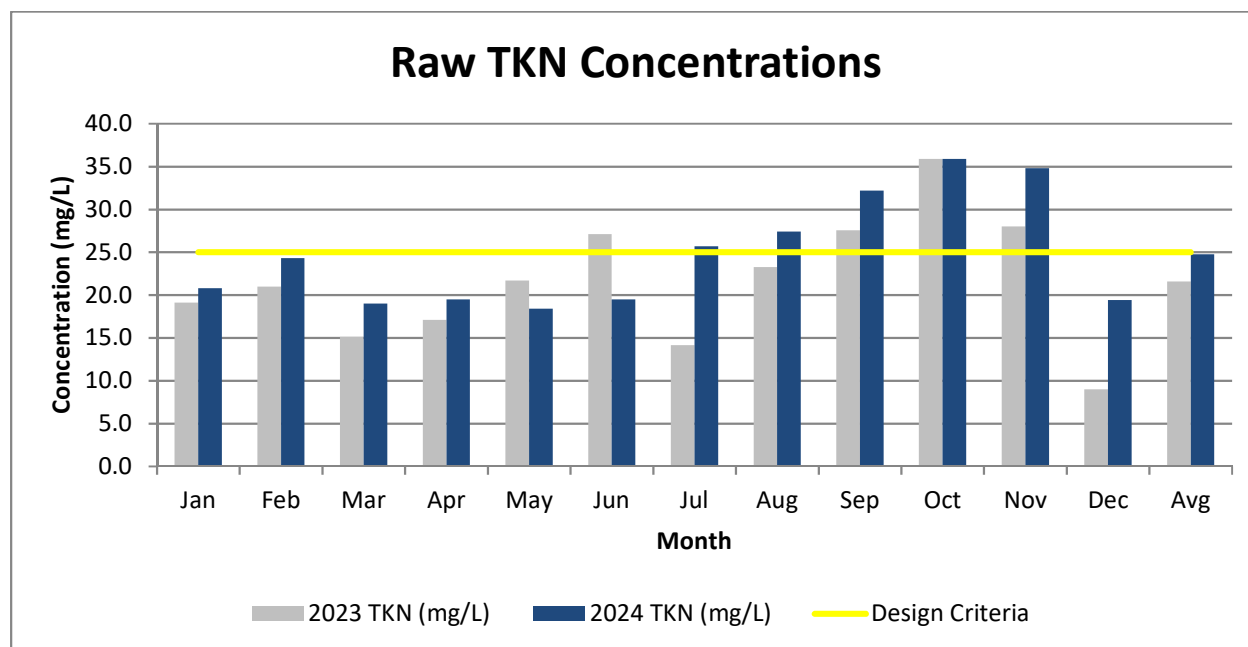


Figure 6. Raw TKN Concentrations

Imported Sewage

The Stratford WPCP is approved to accept imported sewage by licensed waste management system operators as identified within Regulation 347, General Waste Management, for co-treatment in the sewage treatment plant. In 2024, the WPCP has accepted 4931.5 m³ of imported sewage as shown in Table 1. This is a 61% decrease when compared to 2023.

Table 1. Total Imported Sewage

Month	2023	2024
January	1,479.0	669.4
February	1,315.0	947.7
March	1,864.0	1061.4
April	1,543.0	1218.8
May	1,311.0	754.0
June	13.6	22.0
July	51.5	63.8
August	963.0	43.5
September	24.7	41.6
October	704.7	49.4
November	1,617.8	36.3
December	1,697.4	23.5
Total (m³)	12,584.7	4,931.5

Effluent Monitoring Data

Composite effluent samples are collected from the Stratford WPCP over a twenty-four hour period on a weekly basis and analyzed for: CBOD₅, total suspended solids, total phosphorous and Unionized Ammonia. Effluent grab samples are collected on a weekly basis and tested for E.coli, pH and dissolved oxygen. Detailed results are found in **Appendix A Influent and Effluent Data**. Table 2 shows the monthly average effluent loadings results.

Table 2. Effluent Loading Results

Month	CBOD ₅ (kg/d)	TSS (kg/d)	TP (kg/d)	Unionized Ammonia (kg/d)
January	54.3	54.3	1.6	0.07
February	39.0	3.9	0.8	0.02
March	43.6	70.9	1.4	0.02
April	118.3	70.0	3.4	0.04
May	41.0	76.0	1.4	0.02
June	48.7	56.0	1.7	0.04
July	35.0	39.5	1.6	0.25
August	38.6	68.3	1.7	0.16
September	27.3	41.7	1.5	0.43
October	23.8	40.4	1.3	0.01
November	28.7	44.3	1.1	0.01
December	35.9	38.6	1.4	0.03
Average	44.5	50.3	1.6	0.09
Limit	306	306	6.1	3.06

Comparison to Compliance Limits and Objectives

The Stratford WPCP average monthly effluent Carbonaceous Biochemical Oxygen Demand (CBOD₅) concentration in 2024 was 2.2 mg/L, which is equal to the annual average in 2023. There were no objective or limit exceedances in 2024. Refer to Figure 7 for a comparison of 2024 monthly effluent CBOD₅ concentrations to 2023 concentrations.

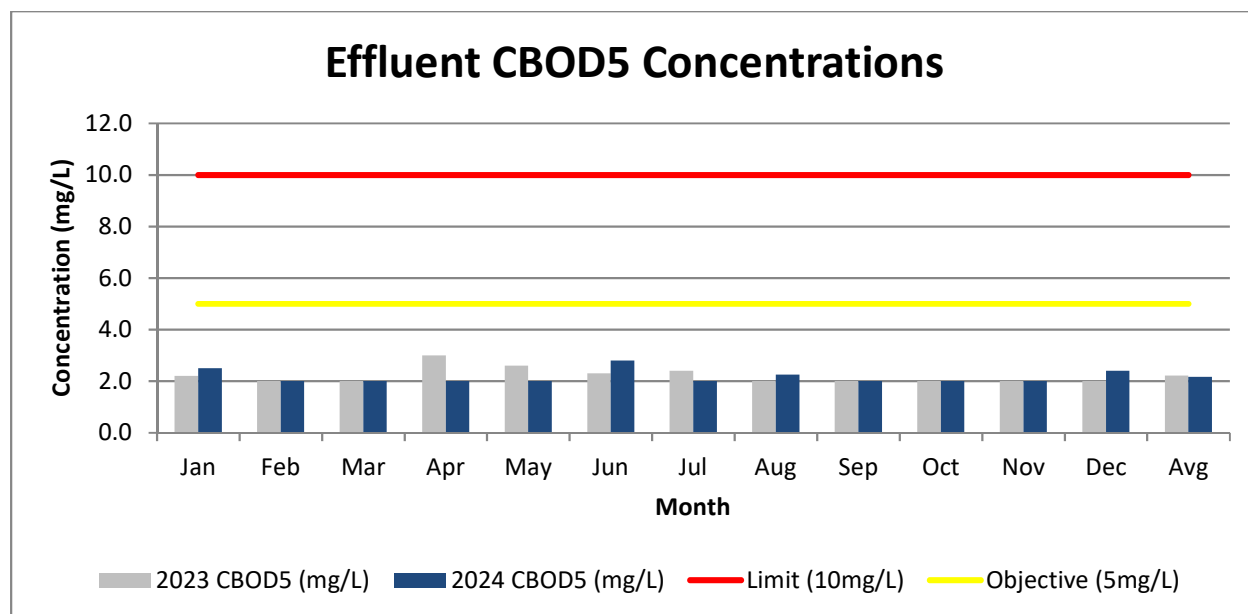


Figure 7. Effluent CBOD Concentrations

The average monthly effluent Total Suspended Solids (TSS) concentration in 2024 was 3.0 mg/L, which is equal to the annual average in 2023. There were no objective or limit exceedances in 2023. Refer to Figure 8 for a comparison of 2024 monthly effluent TSS concentrations to 2023 concentrations.

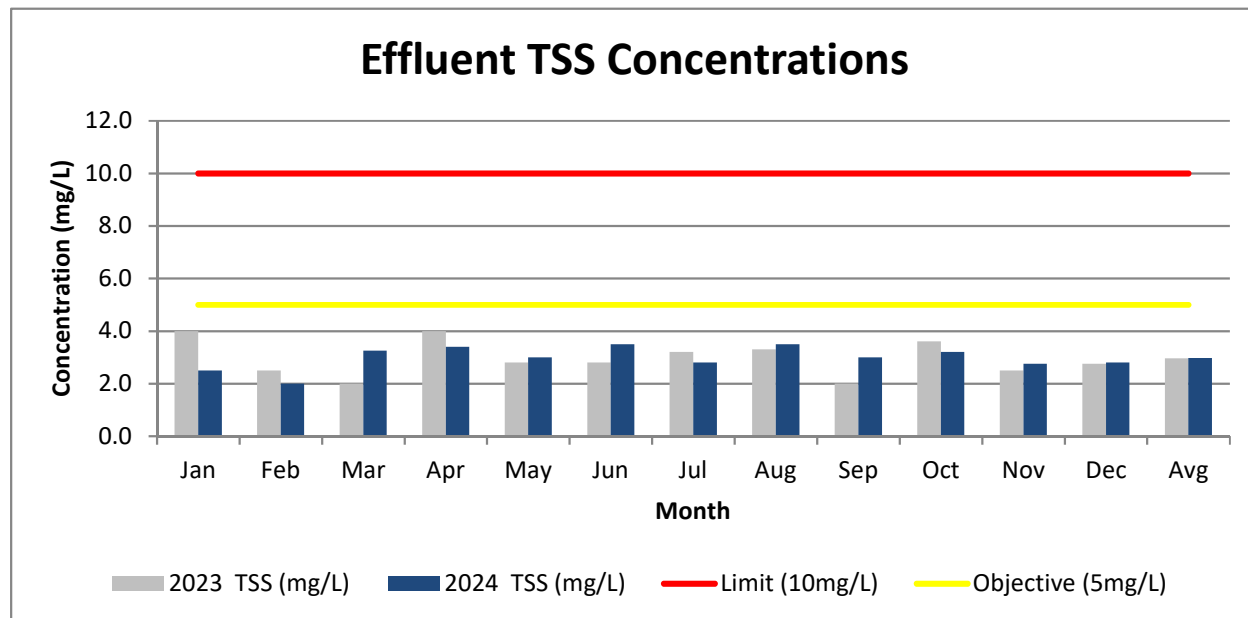


Figure 8. Effluent TSS Concentrations

The average monthly effluent Total Phosphorus (TP) concentration in 2024 was 0.08 mg/L, which is equal to the annual average in 2023. There were no objective or limit exceedances. September and October monthly averages met objectives when significant figures are utilized as identified in the ECA. Refer to Figure 9 for a comparison of 2024 monthly effluent TP concentrations to 2023 concentrations.

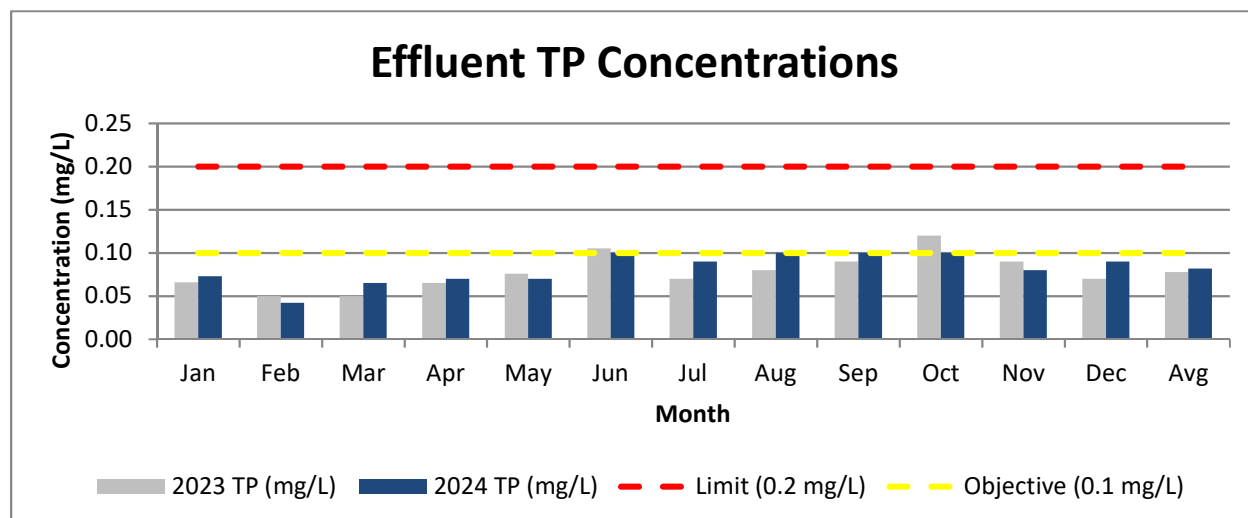


Figure 9. Effluent TP Concentrations

The average monthly effluent Unionized Ammonia concentration in 2024 was 0.01 mg/L, which is a 1603% increase from the annual average in 2023. This increase is due to frequent wet weather events,

and decreased secondary treatment performance due to aeration cell maintenance during 2024. See the **Operating Problems & Corrective Actions** section for more details. There were no objective or limit exceedances in 2024. Refer to Figure 10 for a comparison of 2024 monthly effluent Unionized Ammonia concentrations to 2023 concentrations.

In 2024, Unionized Ammonia Single Sample results ranged from 0.0001-0.127 mg/L. Despite the wide range of sample results, and significant increase in average effluent Unionized Ammonia concentrations from the 2023 average, all sample results were below the single sample concentration limit of 0.2mg/L. Refer to Figure 11 for the single sample concentrations compared to the exceedance limit.

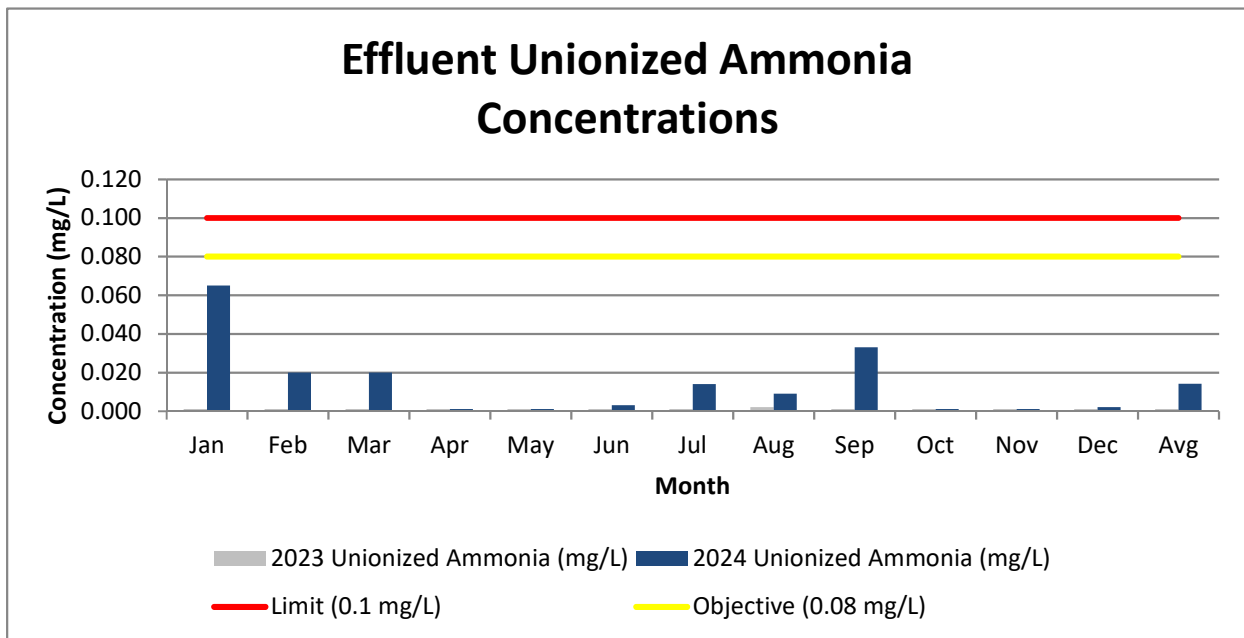


Figure 10. Effluent Unionized Ammonia Concentrations

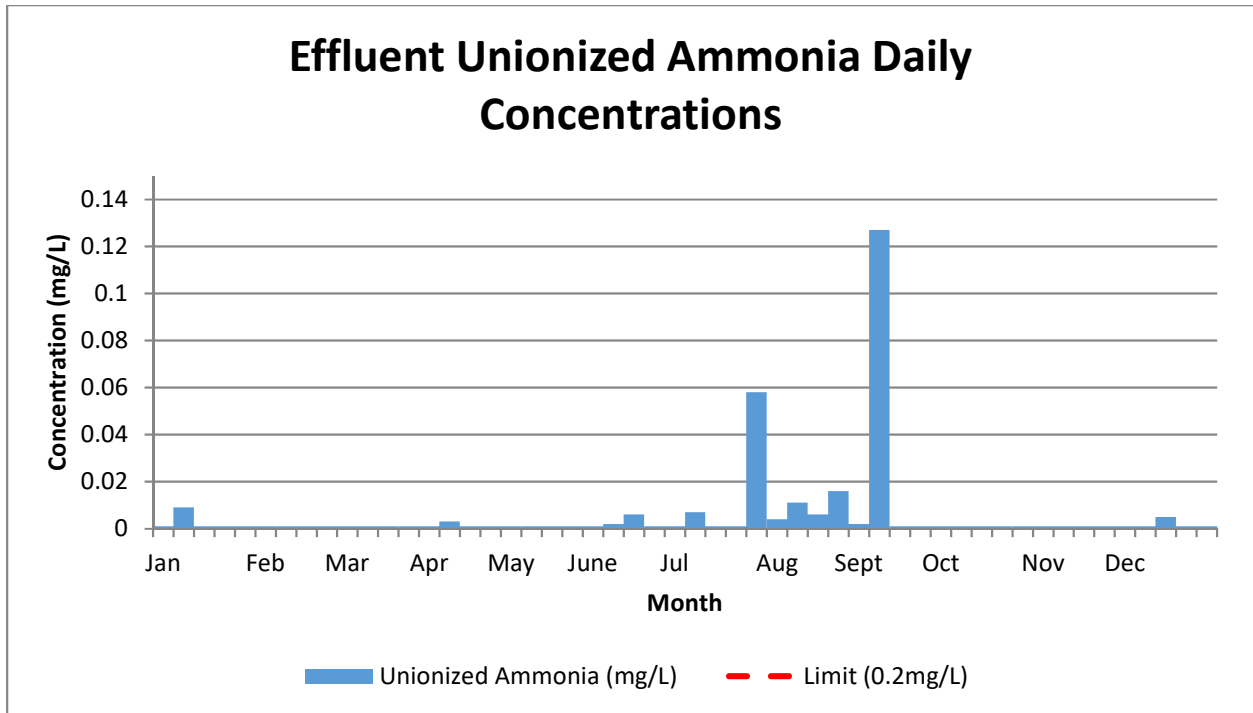


Figure 11. Daily Effluent Unionized Ammonia Concentrations

The monthly geometric mean effluent E. coli concentration in 2024 was 3.5 cfu/100mL, which is a 77% decrease from the annual average in 2023. There were no objective or limit exceedances in 2024. Refer to Figure 12 for a comparison of 2024 monthly effluent E. coli concentrations to 2023 concentrations.

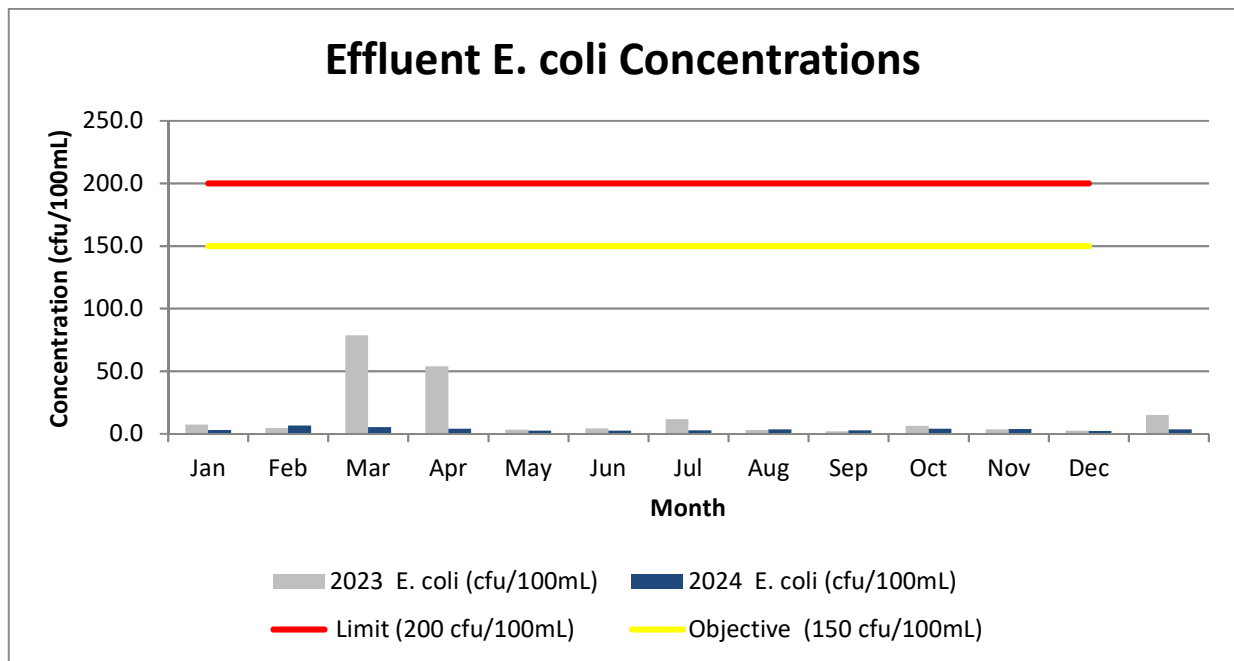


Figure 12. Effluent E. coli Concentrations

The annual monthly average pH value in 2024 was 7.3. There were no objective or limit exceedances in 2024. Refer to Figure 13 for a comparison of 2024 daily effluent pH values to the objectives and limits.

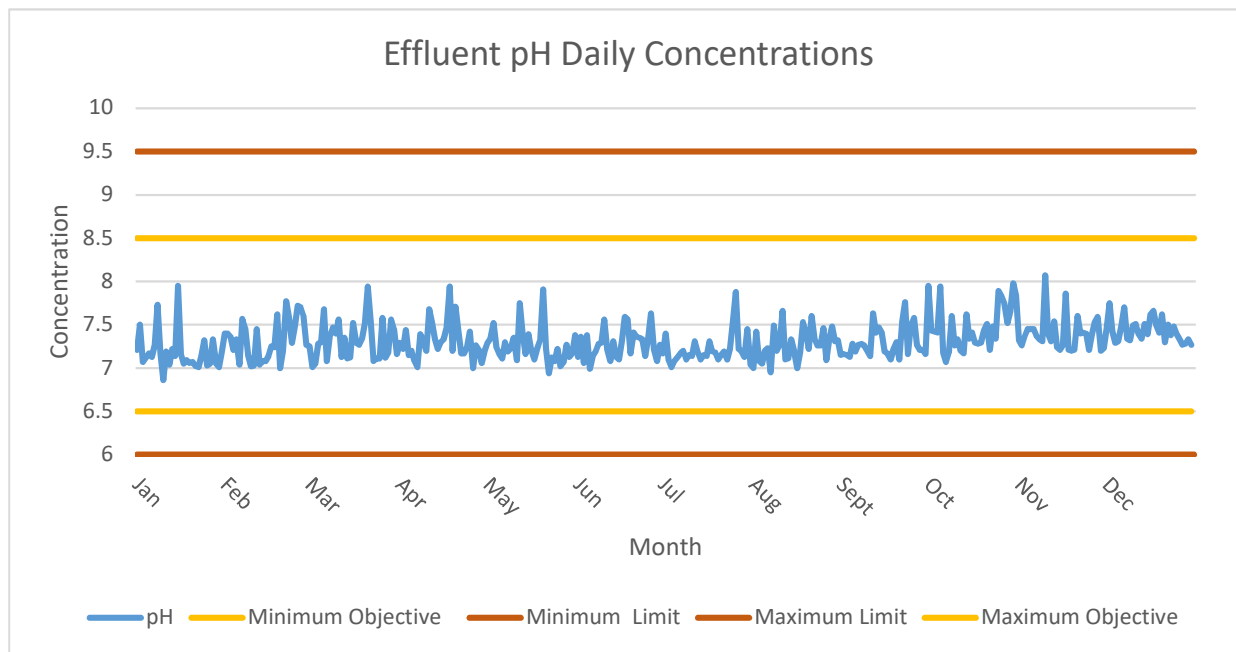


Figure 13. Effluent pH Concentrations

The monthly average Dissolved Oxygen (DO) concentration in 2024 was 8.4 mg/L. Daily effluent D.O. concentrations met objectives 94% of the time in 2024. There were Twenty-one (21) D.O. objective exceedances, out of three-hundred and sixty-three (363) total D.O. measurements in 2024. See the **Operating Problems & Corrective Actions** section for more details on effluent D.O. objective exceedances. None of the objective exceedances resulted in a limit exceedance. Refer to Figure 14 for a comparison of 2024 daily effluent DO concentrations to the objective and limits.

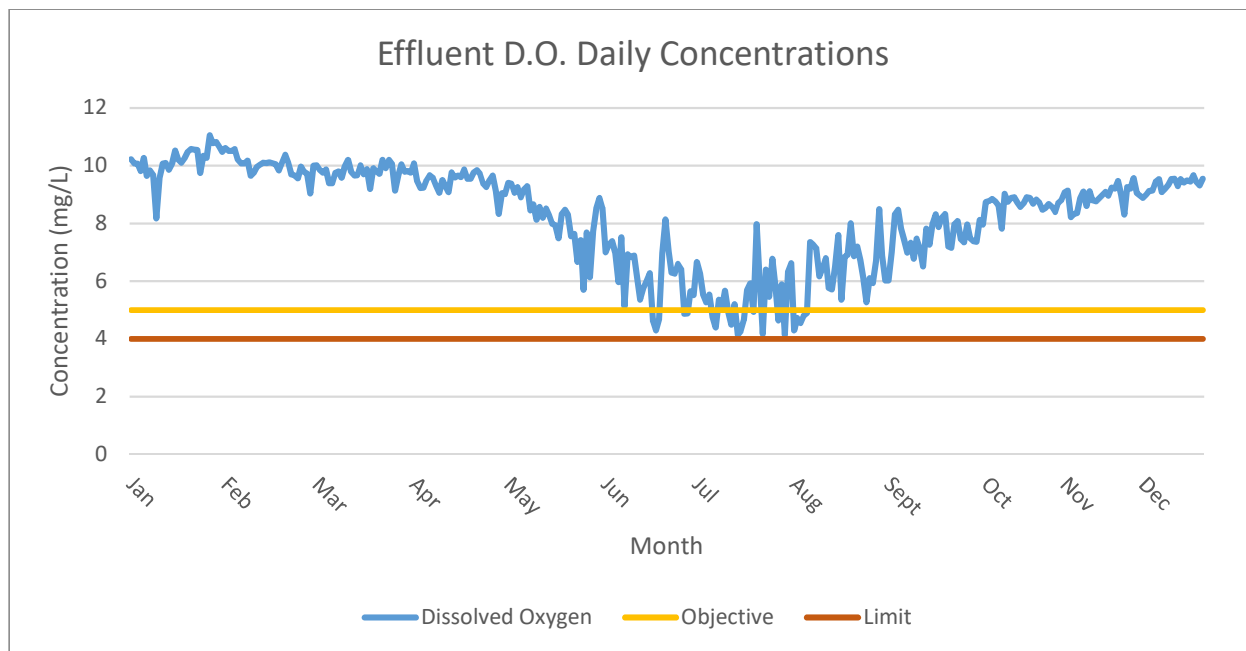


Figure 14. Effluent DO Concentrations

The Stratford WPCP performed well in 2024, producing quality effluent and meeting all limits for all required parameters. Monthly objectives were met for all required parameters, with the exception of twenty-one daily single sample objective exceedances for effluent dissolved oxygen, as discussed in the **Comparisons to Compliance Limits and Objectives** and **Operating Problems & Corrective Actions** sections.

Deviations from Monitoring Schedule

Deviations from the 2024 sample calendar are outlined in Table 3. No deviations occurred during the 2024 calendar year. Refer to **Appendix B Monitoring Schedule** for the 2025 sampling schedule.

Table 3. Summary of Deviations from Monitoring Schedule

Scheduled Date	Collected Date	Reason for Deviation
N/A	N/A	N/A

Operating Problems & Corrective Actions

Aeration cell #4 experienced a major airline break in January, 2024. Emergency repairs were completed and the aeration cell was placed back into service. Aeration cell #1 was taken out of service between June and September for a cleanout and diffuser O-ring replacements. Additional loading on the remaining three aeration cells resulted in lower effluent D.O. levels, and, at times, resulted in objective limit exceedances. Increased effluent TP, TAN, and Unionized Ammonia concentrations were also recorded during the aeration cell maintenance.

A primary digester overpressure event in May resulted in the digester roof lifting and separating from the rest of the digester structure. The digester roof separation resulted in sludge spilling onto the

ground between the WWTP digester and final effluent building. All applicable notifications of the spill were made and samples collected as required by the Environmental Compliance Approval (ECA). The primary digester has been isolated, and raw sludge diverted directly to the secondary digester. The primary digester was emptied by transferring sludge to the secondary digester and sludge storage, before being hauled offsite for disposal. Digester repair assessments have been completed and repair options are being evaluated.

Sludge storage can be a challenge for the WPCP due to limited space and land application capabilities. Wet weather in spring and summer of 2024 delayed the start of sludge haulage and limited opportunities for sludge land application during the May-November application period.

Inflow and infiltration in the collection system continues to cause operational challenges at the WPCP, due to high flows during significant rain and snowmelt events. These events resulted in multiple Primary Treated Overflows and also resulted in high volumes of inorganics and grit being carried into the WPCP. These solids are unable to be properly processed which contributes to high levels of inert solids within the primary clarifiers, aeration and anaerobic digester, which then contributes to the volume of sludge hauled each year, as well as wear on process equipment (e.g. pumps and pipes).

Filter media replacement in 2022-2023 improved the filter's ability to remove small suspended particles within wastewater, however, improved removal of small suspended particles can cause the filter media to become clogged more quickly during high flows. Such conditions resulted in an emergency tertiary bypass during a rain event in April after WPCP flow capacity was reduced by clogged filter media. Staff performed manual backwashes to increase filter flow capacity. The filter SOP has been updated with enhanced backwashing procedures during high flow events to prevent future bypasses due to reduced filter performance.

Two (2) overflow events during December were exacerbated by reduced WWTP flow capacity due to an out of service filter backwash actuator. Operational staff continued to monitor facility performance and make adjustments accordingly as well as complete preventative maintenance throughout the facility to alleviate concerns with the process and equipment.

Capital and major maintenance recommendations have been submitted by OCWA to the City of Stratford to address aging infrastructure and ongoing maintenance requirements for the WPCP to continue to produce high quality effluent. Items included on the list for 2025 are:

- Annual inspections and maintenance of:
 - Backflow preventers
 - Emergency diesel generator
 - Fire extinguishers
 - Forklift
 - Gas detectors
 - Lifting devices
 - Turbo blower
- Annual aeration cell cleanout and maintenance
- SCADA support and upgrades
- Annual service and maintenance of administration and digester building boilers
- Raw sludge pump and grinder replacement parts and repairs

- Bar screen Maintenance and repairs
- Dewatering auger maintenance and upgrades
- Archive building roof repairs
- Maintenance of lift station screw pump belts and bearings
- RAS pump repairs and maintenance
- Ferrous chloride pump maintenance and repairs
- Dewatering pump replacement and repairs
- Boiler recirculation pump repairs and maintenance
- Digester pump replacement parts and maintenance
- Digester valve and piping replacements and maintenance
- Final clarifier maintenance and replacement gaskets, tubes, etc.
- Aeration DO system maintenance
- Milltronic level transmitter replacement
- Primary digester roof repairs
- Filter surface wash arm replacement parts
- UV system replacement parts and maintenance
- Filter building screw pump, backwash pump, and surface wash pump maintenance
- Facility building improvements
- Health and safety improvements
- Grit removal system replacement
- Aeration sluice gate replacement and upgrades
- Sludge storage cleanout
- Aeration piping and valve replacements

Maintenance Activities

Preventative and corrective maintenance is assigned and monitored within OCWA's Workplace Management System (WMS) program. Refer to **Appendix C Maintenance Summary** for the WMS report for 2024. Refer to Table 4 for a list of normal and emergency repairs and replacements that took place in 2024.

Table 4. Major Maintenance

Major Maintenance
Primary clarifier lines to primary sludge pumps flushed to clear blockage.
Administrative building boiler repairs.
Replace raw sludge pump rotors and stators.
Repaired air leak in aeration cell #4 piping.
Repaired igniter on methane flare.
Replaced generator battery tender.
Repaired UV control board.
Pulled surface wash pump #1 for overhaul.
Cleared blockage from compressor/supernatant drain line.
Various primary digester maintenance and repairs following over-pressure event, including: <ul style="list-style-type: none"> • Cleanup of spilled sludge from primary digester overpressure event, • Discuss repair options with consultants and insurance adjusters, • Complete assessment of the gas train and all appurtenances, • Strip insulation from primary digester roof and scan metal thickness, • Haul primary sludge to empty digester for repairs, • Install scaffolding inside primary digester and clean digester interior, • Pull digester compressor unit for maintenance, • Complete flushing of transfer box lines and testing, • Complete pressure wash of interior and exterior to remove all coatings, • Complete weld inspection of all seams in the digester roof and support structures, • Metal analysis of the roof itself.
Heat reclaim unit maintenance.
Service turbo blower.
Service generator fuel system and annual maintenance.
Cleanout of aeration cell #1 and replace diffuser O-rings.
Digester compressor maintenance.
Stored sludge mixer #2 inoperable, pulled mixers for repairs.
Clear blockage from ferrous chloride lines.
Rebuild boiler recirculation pump.
2- Year boiler certification completed.
Double check and complete asset inventory list for the plant.
Fixed missing bench grinder guards.
Filter surface wash arm repairs.
Chemical pump installation- EQ/Chemical building.
Filter building screw pump maintenance, UV channel cleanout.
Valve replacements in digester complex.
Replace 2 actuator valves on filter 2- effluent line and backwash feed.
Unblock supernatant lines.
Annual aeration DO probe inspection and calibration.
Flowmeter, pressure sensor, and handheld D.O. probe calibrations.

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 twice per week on; raw sewage, raw sludge, primary sludge, mixed liquor, activated sludge, and effluent. These tests include dissolved oxygen, pH, temperature, settling tests and Mixed Liquor Suspended Solids (MLSS) and Mixed Liquor Volatile Suspended Solids (MLVSS). 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

Influent and effluent flow meters were calibrated by a third party contractor on October 28th, 2024. The flow meters met the accuracy tolerance of within 15% of the actual flow rate. Imported sewage volumes are calculated utilising the haul truck manifests. All in-house handheld chlorine residual analyzers, D.O. probes, and lab equipment were also calibrated in accordance with manufactures instructions. Aeration cell D.O probes and analyzers were calibrated on October 24th, 2024. The D.O. probes were found accurate within ± 0.3 ppm O₂. Gas detection meters were calibrated on December 23, 2024. Operational staff complete routine pH meter calibrations and verifications. Refer to **Appendix D Calibration Reports** for the 2024 calibration records.

Summary of Efforts Made to Achieve Design Objectives

Design objectives were not exceeded more than 50% of the time in 2024 and there were no trends in deterioration of final effluent quality. In addition, the average influent flow has not reached or exceeded 80% of the rated capacity.

Notice of Modification to the Works

The Stratford WPCP Wet Weather Overflow Disinfection Process modification involved the replacement of the existing overflow chlorination and de-chlorination dosing pumps with pumps that are more appropriately sized for the flows experienced during overflow events at the Stratford WPCP. The Wet Weather Overflow Disinfection Process modification was completed and commissioned on November 21, 2024. For details of the overflow project, refer to **Appendix E Modification of Works** for the Limited Operational Flexibility (LOF).

Sludge Generation & Haulage

The Stratford WPCP has the capacity to store a total of 4,370 m³ of sludge. The storage tanks are rated for 2,850 m³ and the storage lagoon is rated for 1,520 m³. Sludge is periodically hauled between April 1st and November 30th annually for field application. Refer to Table 5 for summary land application sites and volumes. For a comparison of the total hauled sludge over the last six years, refer to Figure 15.

Despite limited opportunities for sludge land application due to wet weather conditions in 2024, the primary digester over pressure incident necessitated emptying all sludge from the primary digester, thereby causing a higher volume of hauled sludge than projected for 2024. Refer to **Appendix F Sludge Analysis** for a summary of stored sludge data from 2024.

The anticipated sludge production value for 2025 is approximately 20,000 m³.

Table 5. Sludge Land Application

NASM Plan Site ID	Month	Volume (m ³)
24413	April	3,532
24413 25006 24607	May	3,119
24995 61393	July	3,249
61393 24504	August	3,311
24192	September	2,320
24192	October	2,300
61670 24608	November	4,476
	Total	22,307

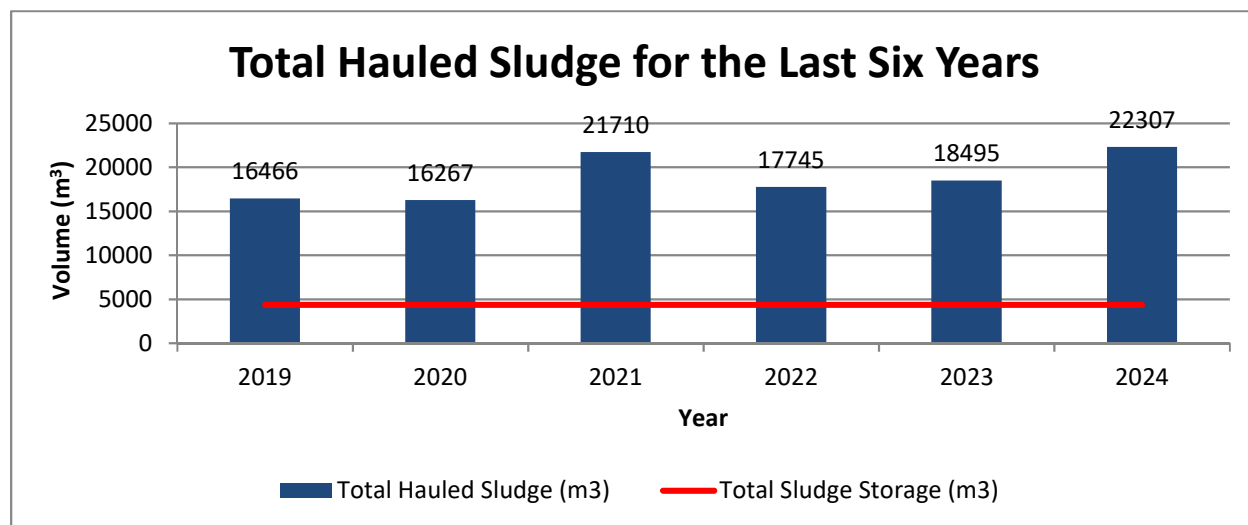


Figure 15. Total Hauled Sludge Volumes

Complaints

The Stratford WPCP has received one community complaint in 2024. A communication issue with the SCADA system on September 1st resulted in a valve opening and slowly filled the storm tank from the primary clarifiers. These contents were held in the storm tank until September 5th, when the contents were slowly pumped back into the treatment process. As a result of septic conditions, odours were released within the aeration tanks. Pumping continued until September 7th, when the tank was emptied and during this time, the odours improved.

Bypass, Overflows or Abnormal Discharge Events

A Bypass is the diversion of sewage around one or more treatment processes, within the WPCP. An Overflow is the discharge to the environment from designed location(s) other than the approved effluent discharge location. A bypass or overflow can occur during heavy precipitation and/or snowmelt events when the raw flow exceeds the rated capacity or if a treatment component is out of service for maintenance purposes.

There have been twelve overflow events in 2024, all of which have been due to heavy rain and some due to snowmelt, and one tertiary bypass. Table 6 summarizes all bypass and overflow events in 2024. Quarterly Bypass and Overflow reports are submitted to the MECP summarizing the events and providing sample results.

There were no Outside Normal Operating Condition events that occurred in 2024.

Table 6. Summary of Bypass and Overflow Events

Date	Type: Bypass/Overflow	Volume (m ³)
January 9-15, 2024	Primary Treatment Overflow	87,082
January 25-31, 2024	Primary Treatment Overflow	153,037
March 9-11, 2024	Primary Treatment Overflow	20,784
March 15-16, 2024	Primary Treatment Overflow	16,227
April 12-15, 2024	Primary Treatment Overflow	41,260
April 19, 2024	Emergency Tertiary Bypass	10,500
June 20-21, 2024	Primary Treatment Overflow	6,510
July 10-12, 2024	Primary Treatment Overflow	72,382
July 14-19, 2024	Primary Treatment Overflow	153,620
July 30-August 1, 2024	Primary Treatment Overflow	36,765
August 2-3, 2024	Primary Treatment Overflow	4,576
December 9-25, 2024	Primary Treatment Overflow	160,591
December 26, 2024-January 9, 2025	Primary Treatment Overflow	236,989

The ECA requires additional sampling for the WPCP when the plant experiences an overflow or bypass event. Bypass sample results are included in the final effluent results. For the overflow events, samples are collected every hour and combined into an eight-hour composite sample for the duration of the event. The samples are analyzed for BOD₅, total suspended solids and total phosphorous. All applicable notifications have been made and samples collected as required by the Environmental Compliance Approval (ECA) as seen in Table 7.

Table 7. Overflow Event Results

Month	BOD ₅ (mg/L)	TSS (mg/L)	TP (mg/L)
January	41.33	22.48	0.98
February	---	---	---
March	62.23	32.85	1.39
April	39.70	37.50	1.27
May	---	---	---
June	10.50	14.00	0.69
July	35.88	35.44	1.00
August	39.33	16.67	1.19
September	---	---	---
October	---	---	---
November	---	---	---
December	67.70	30.26	1.87
Average	52.56	29.44	1.42

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

The City of Stratford continues its efforts to reduce or eliminate bypass and overflow events through reducing inflow & infiltration (I & I) to the sanitary wastewater collection system. Capital projects intended to reduce collection system I & I include replacement of 1.2 km of sanitary sewer mains in 2024. Refer to the City of Stratford Sewage Collection System, Consolidated Linear Infrastructure Annual Performance Report for a strategy on managing future bypass and overflow events.

Appendix A

Influent and Effluent Data

(Appendices can be provided upon request to Clerk's Office)

5529 STRATFORD WASTEWATER TREATMENT FACILITY 110000702

	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	740,230.00	627,410.00	729,460.00	661,478.00	668,100.00	583,940.00	642,580.00	579,330.00	459,830.00	460,640.00	490,310.00	525,748.00	7,169,056.00			0.00
Raw Flow: Avg - Raw Sewage m³/d	23,878.39	21,634.83	23,530.97	22,049.27	21,551.61	19,464.67	20,728.39	18,688.06	15,327.67	14,859.35	16,343.67	16,959.61		19,587.58		30,660.00
Raw Flow: Max - Raw Sewage m³/d	27,670.00	28,900.00	28,260.00	28,820.00	27,820.00	26,610.00	26,280.00	23,860.00	18,080.00	20,960.00	18,310.00	21,580.00			28,900.00	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	673,701.00	565,632.00	676,363.00	819,408.00	594,845.00	499,852.00	573,031.00	527,957.00	394,616.00	387,183.00	418,290.00	465,640.00	6,596,518.00			0.00
Eff. Flow: Avg - Final Effluent m³/d	21,732.29	19,504.55	21,818.16	27,313.60	19,188.55	16,661.73	18,484.87	17,030.87	13,153.87	12,489.77	13,943.00	15,020.65		18,023.27		
Eff. Flow: Max - Final Effluent m³/d	25,583.00	27,004.00	32,318.00	210,902.00	26,050.00	24,582.00	24,343.00	21,453.00	15,668.00	18,568.00	16,181.00	18,658.00			210,902.00	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	93.00	164.50	139.25	151.80	134.25	80.25	121.80	280.75	206.25	212.80	190.75	124.60		158.33	280.75	0.00
Raw: # of samples of BOD5 - Raw Sewage mg/L	4.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	52.00			0.00
Carbonaceous Biochemical Oxygen Demand: CBOD																
Eff: Avg cBOD5 - Final Effluent including Bypass mg/L	< 2.50	< 2.00	< 2.00	< 2.33	< 2.00	< 2.75	< 2.00	< 2.25	< 2.00	< 2.00	< 2.00	< 2.40		< 2.19	< 2.75	10.00
Eff.Flow : Weighted Avg cBOD5 - Final Effluent including Bypass mg/L	< 2.50	< 2.00	< 2.00	< 2.00	< 2.00	< 2.75	< 2.00	< 2.25	< 2.00	< 2.00	< 0.00	< 0.00		< 0.00	< 2.75	10.00
Eff: # of samples of cBOD5 - Final Effluent including Bypass mg/L	4.00	4.00	4.00	6.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	53.00			0.00
Loading: cBOD5 - Final Effluent including Bypass kg/d	< 54.331	< 39.009	< 43.636	< 63.732	< 38.377	< 45.820	< 36.970	< 38.319	< 26.308	< 24.980	< 27.886	< 36.050		< 39.45	< 63.73	306.000
Loading Flow Weighted: cBOD5 - Final Effluent including Bypass kg/d	< 54.331	< 39.009	< 43.636	< 54.627	< 38.377	< 45.820	< 36.970	< 38.319	< 26.308	< 24.980	< 0.000	< 0.000		< 0.00	< 54.63	306.000
Total Suspended Solids: TSS																
Raw: Avg TSS - Raw Sewage mg/L	97.00	150.75	137.00	166.00	155.25	86.25	86.60	192.75	151.00	199.80	134.00	141.40		141.48	199.80	0.00
Raw: # of samples of TSS - Raw Sewage mg/L	4.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	52.00			0.00
Eff: Avg TSS - Final Effluent including Bypass mg/L	< 2.50	< 2.00	< 3.25	< 3.17	< 3.00	< 3.50	< 2.80	< 3.50	< 3.00	< 3.20	< 2.75	< 2.80		< 2.96	<	10.00
Eff.Flow : Weighted Avg TSS - Final Effluent including Bypass mg/L	2.50	2.00	3.25	3.40	3.00	3.50	2.80	3.50	3.00	3.20	0.00	0.00		0.00		10.00
Eff: # of samples of TSS - Final Effluent including Bypass mg/L	4.00	4.00	4.00	6.00	4.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	53.00			0.00
Loading: TSS - Final Effluent including Bypass kg/d	< 54.331	< 39.009	< 70.909	< 86.493	< 57.566	< 58.316	< 51.758	< 59.608	< 39.462	< 39.967	< 38.343	< 42.058		< 53.39	< 86.49	306.000
Loading Flow Weighted: TSS - Final Effluent including Bypass kg/d	54.331	39.009	70.909	92.866	57.566	58.316	51.758	59.608	39.462	39.967	0.000	0.000		0.00	92.87	306.000
Total Phosphorus: TP																
Raw: Avg TP - Raw Sewage mg/L	1.79	2.65	1.98	2.04	2.29	2.68	2.77	3.68	3.78	4.32	4.03	2.21		2.85	4.32	0.00

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

Raw: # of samples of TP - Raw Sewage mg/L		4.00		4.00		4.00		5.00		4.00		4.00		5.00		4.00		5.00		52.00				0.00						
Eff: Avg TP - Final Effluent including Bypass mg/L		0.07	<	0.04		0.07		0.08		0.07		0.10		0.09		0.10		0.11		0.11		0.08		0.09		0.08		0.11		0.20
Eff.Flow : Weighted Avg TP - Final Effluent including Bypass mg/L		0.07		0.04		0.07		0.07		0.07		0.10		0.09		0.10		0.11		0.11		0.00		0.00		0.00		0.11		0.20
Eff: # of samples of TP - Final Effluent including Bypass mg/L		4.00		4.00		4.00		6.00		4.00		4.00		5.00		4.00		4.00		5.00		4.00		5.00		53.00				0.00
Loading: TP - Final Effluent including Bypass kg/d		1.576	<	0.829		1.418		2.049		1.295		1.666		1.738		1.618		1.447		1.399		1.046		1.412		1.46		2.05		6.100
Loading Flow Weighted: TP - Final Effluent including Bypass kg/d		1.576		0.829		1.418		1.912		1.295		1.666		1.738		1.618		1.447		1.399		0.000		0.000		0.00		1.91		6.100

Nitrogen Series

Raw: Avg TKN - Raw Sewage mg/L		20.75		24.30		19.00		19.48		18.35		19.50		25.72		27.40		32.15		35.86		34.78		19.40		24.72		35.86		0.00
Raw: # of samples of TKN - Raw Sewage mg/L		4.00		4.00		4.00		5.00		4.00		4.00		5.00		4.00		4.00		5.00		4.00		5.00		52.00				0.00
Eff: Avg TAN - Final Effluent including Bypass mg/L	<	0.68	<	0.10	<	0.15	<	0.22	<	0.10	<	0.20	<	1.24	<	0.88	<	5.30	<	0.10	<	0.10	<	0.20		<	0.74	<	5.30	
Eff.Flow : Weighted Avg TAN - Final Effluent including Bypass mg/L	<	0.68	<	0.10	<	0.15	<	0.24	<	0.10	<	0.20	<	1.24	<	0.88	<	5.30	<	0.10		0.00		0.00		<	0.00	<	5.30	
Eff: # of samples of TAN - Final Effluent including Bypass mg/L		4.00		4.00		4.00		6.00		4.00		4.00		5.00		4.00		4.00		5.00		4.00		5.00		53.00				0.00
Loading: TAN - Final Effluent including Bypass kg/d	<	14.669	<	1.950	<	3.273	<	5.918	<	1.919	<	3.332	<	22.921	<	14.902	<	69.715	<	1.249	<	1.394	<	3.004		<	13.26	<	69.72	
Loading Flow Weighted: TAN - Final Effluent including Bypass kg/d	<	14.669	<	1.950	<	3.273	<	6.555	<	1.919	<	3.332	<	22.921	<	14.902	<	69.715	<	1.249		0.000		0.000		<	0.00	<	69.72	
Eff: Avg NO3-N - Final Effluent mg/L		16.78		18.70		15.65		14.44		12.93		15.40		12.96		15.58		18.05		28.80		24.90		17.56		17.64		28.80		0.00
Eff: # of samples of NO3-N - Final Effluent mg/L		4.00		4.00		4.00		5.00		4.00		4.00		5.00		4.00		4.00		5.00		4.00		5.00		52.00				0.00
Eff: Avg NO2-N - Final Effluent mg/L	<	0.17	<	0.09	<	0.06	<	0.11	<	0.05	<	0.27	<	0.35	<	0.55	<	0.04	<	0.03	<	0.03	<	0.33		<	0.17	<	0.55	
Eff: # of samples of NO2-N - Final Effluent mg/L		4.00		4.00		4.00		5.00		4.00		4.00		5.00		4.00		4.00		5.00		4.00		5.00		52.00				0.00

Disinfection

Eff: GMD E. Coli - Final Effluent cfu/100mL		2.99		6.51		5.32		3.87		2.38		2.38		2.64		3.36		2.83		3.87		3.72		2.30					200.00	
Eff: # of samples of E. Coli - Final Effluent cfu/100mL		4.00		4.00		4.00		5.00		4.00		4.00		5.00		4.00		4.00		5.00		4.00		5.00		52.00				0.00

Appendix B

Monitoring Schedule

(Appendices can be provided upon request to Clerk's Office)



Sample Schedule 2025 Stratford WPCP

Rev. Date: 2024-10-10
Rev.#: 3
Pages: 1 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

◀ December	January 2025					February ▶
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1 STAT	2 IH Full <input type="checkbox"/>	3	4
5	6 IH Full <input type="checkbox"/> Monthly Sludge <input type="checkbox"/> Monthly Raw <input type="checkbox"/> F. Effluent <input type="checkbox"/>	7	8	9 IH Full <input type="checkbox"/>	10	11
12	13 IH Full <input type="checkbox"/> Weekly Raw <input type="checkbox"/> F. Effluent <input type="checkbox"/> Acute Lethality <input type="checkbox"/>	14	15	16 IH Full <input type="checkbox"/>	17	18
19	20 IH Full <input type="checkbox"/> Weekly Raw <input type="checkbox"/> F. Effluent <input type="checkbox"/>	21	22	23 IH Full <input type="checkbox"/>	24	25
26	27 IH Full <input type="checkbox"/> Weekly Raw <input type="checkbox"/> F. Effluent <input type="checkbox"/>	28	29	30 IH Full <input type="checkbox"/>	31	

<p>IH (In House) Full:</p> <p>Monthly Sludge Sample:</p> <p>Monthly Samples:</p> <p>Weekly Samples:</p> <p>Effluent Samples:</p> <p>Annual Effluent:</p>	<p>Raw (Temp., pH, DO) Aeration (Set Test, MLSS, DO, pH, Temp.) RAS (SS) Effluent Composite (TP, NH3+NH4, SS); Grab (DO, pH, Temp.) Grab Stored Sludge (TSS,N, HG,AS,CD, CO, CR, CU, K, MO, NI, TP, PB,SE, ZN, TKN, TAN, E.coli) Grab Primary Sludge (Volatile Acid) Composite Monthly Raw (BOD5, TSS, TP, Alk, TKN) Composite Weekly Raw (BOD5, TSS, TP, TKN) Composite (cBOD5, SS,TP, Alk.,TKN, TAN, NO2+NO3, Uni.) Grab (E. coli) Acute lethality for Rainbow Trout</p>
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Revision History

Date	Revision #	Reason for Revision	Revision By
2022-10-17	0	Create Template	Cindy Sigurdson
2022-12-09	1	Create 2023 Sampling Calendar	Lisa Benoit
2023-12-04	2	Create 2024 Sampling Calendar	Lisa Benoit
2024-10-10	3	Create 2025 Sampling Calendar	Lisa Benoit



Sample Schedule 2025 Stratford WPCP

Rev. Date: 2024-10-10
Rev.#: 3
Pages: 2 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

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

IH (In House) Full: Monthly Sludge Sample: Monthly Samples: Weekly Samples: Effluent Samples: Annual Effluent:	Raw (Temp., pH, DO) Aeration (Set Test, MLSS, DO, pH, Temp.) RAS (SS) Effluent Composite (TP, NH3+NH4, SS); Grab (DO, pH, Temp.) Grab Stored Sludge (TSS,N, HG,AS,CD, CO, CR, CU, K, MO, NI, TP, PB,SE, ZN, TKN, TAN, E.coli) Grab Primary Sludge (Volatile Acid) Composite Monthly Raw (BOD5, TSS, TP, Alk, TKN) Composite Weekly Raw (BOD5, TSS, TP, TKN) Composite (cBOD5, SS,TP, Alk.,TKN, TAN, NO2+NO3, Uni.) Grab (E. coli) Acute lethality for Rainbow Trout
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Sample Schedule 2025 Stratford WPCP

Rev. Date: 2024-10-10
Rev.#: 3
Pages: 3 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

◀ February	March 2025					April ▶
Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3 IH Full <input type="checkbox"/> Monthly Sludge <input type="checkbox"/> Monthly Raw <input type="checkbox"/> F. Effluent <input type="checkbox"/>	4	5	6 IH Full <input type="checkbox"/>	7	8
9	10 IH Full <input type="checkbox"/> Weekly Raw <input type="checkbox"/> F. Effluent <input type="checkbox"/>	11	12	13 IH Full <input type="checkbox"/>	14	15
16	17 IH Full <input type="checkbox"/> Weekly Raw <input type="checkbox"/> F. Effluent <input type="checkbox"/>	18	19	20 IH Full <input type="checkbox"/>	21	22
23	24 IH Full <input type="checkbox"/> Weekly Raw <input type="checkbox"/> F. Effluent <input type="checkbox"/>	25	26	27 IH Full <input type="checkbox"/>	28	29
30	31 IH Full <input type="checkbox"/> Weekly Raw <input type="checkbox"/> F. Effluent <input type="checkbox"/>					

IH (In House) Full: Raw (Temp., pH, DO)
Aeration (Set Test, MLSS, DO, pH, Temp.) RAS (SS)
Effluent Composite (TP, NH3+NH4, SS); Grab (DO, pH, Temp.)

Monthly Sludge Sample: Grab Stored Sludge (TSS,N, HG,AS,CD, CO, CR, CU, K, MO, NI, TP, PB,SE, ZN, TKN, TAN, E.coli)
Grab Primary Sludge (Volatile Acid)

Monthly Samples: Composite Monthly Raw (BOD5, TSS, TP, Alk, TKN)
Weekly Samples: Composite Weekly Raw (BOD5, TSS, TP, TKN)
Effluent Samples: Composite (cBOD5, SS,TP, Alk.,TKN, TAN, NO2+NO3, Uni.)
Grab (E. coli)

Annual Effluent: Acute lethality for Rainbow Trout

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Date	Revision #	Reason for Revision	Revision By
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2022-12-09	1	Create 2023 Sampling Calendar	Lisa Benoit
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Sample Schedule 2025 Stratford WPCP

Rev. Date: 2024-10-10
Rev.#: 3
Pages: 4 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

◀ March	April 2025					May ▶
Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3 IH Full ☐	4	5
6	7 IH Full ☐ Monthly Sludge ☐ Monthly Raw ☐ F. Effluent ☐	8	9	10 IH Full ☐	11	12
13	14 IH Full ☐ Weekly Raw ☐ F. Effluent ☐	15	16	17 IH Full ☐	18 STAT	19
20	21 STAT	22 IH Full ☐ Weekly Raw ☐ F. Effluent ☐	23	24 IH Full ☐	25	26
27	28 IH Full ☐ Weekly Raw ☐ F. Effluent ☐	29	30			

- IH (In House) Full: Raw (Temp., pH, DO)
Aeration (Set Test, MLSS, DO, pH, Temp.) RAS (SS)
Effluent Composite (TP, NH3+NH4, SS); Grab (DO, pH, Temp.)
- Monthly Sludge Sample: Grab Stored Sludge (TSS,N, HG,AS,CD, CO, CR, CU, K, MO, NI, TP, PB,SE, ZN, TKN, TAN, E.coli)
Grab Primary Sludge (Volatile Acid)
- Monthly Samples: Composite Monthly Raw (BOD5, TSS, TP, Alk, TKN)
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Sample Schedule 2025 Stratford WPCP

Rev. Date: 2024-10-10
Rev.#: 3
Pages: 5 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

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

IH (In House) Full: Raw (Temp., pH, DO)
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Effluent Composite (TP, NH3+NH4, SS); Grab (DO, pH, Temp.)

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Weekly Samples: Composite Weekly Raw (BOD5, TSS, TP, TKN)
Effluent Samples: Composite (cBOD5, SS,TP, Alk.,TKN, TAN, NO2+NO3, Uni.)
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Sample Schedule 2025 Stratford WPCP

Rev. Date: 2024-10-10
Rev.#: 3
Pages: 6 of 12

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

- IH (In House) Full: Raw (Temp., pH, DO)
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Sample Schedule 2025 Stratford WPCP

Rev. Date: 2024-10-10
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 Pages: 7 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

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

- IH (In House) Full: Raw (Temp., pH, DO)
 Aeration (Set Test, MLSS, DO, pH, Temp.) RAS (SS)
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Sample Schedule 2025 Stratford WPCP

Rev. Date: 2024-10-10
Rev.#: 3
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Reviewed by: QEMS Representative

Approved by: Operations Management

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

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Effluent Composite (TP, NH3+NH4, SS); Grab (DO, pH, Temp.)
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Sample Schedule 2025 Stratford WPCP

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

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Sample Schedule 2025 Stratford WPCP

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

IH (In House) Full: Monthly Sludge Sample: Monthly Samples: Weekly Samples: Effluent Samples: Annual Effluent:	Raw (Temp., pH, DO) Aeration (Set Test, MLSS, DO, pH, Temp.) RAS (SS) Effluent Composite (TP, NH3+NH4, SS); Grab (DO, pH, Temp.) Grab Stored Sludge (TSS,N, HG,AS,CD, CO, CR, CU, K, MO, NI, TP, PB,SE, ZN, TKN, TAN, E.coli) Grab Primary Sludge (Volatile Acid) Composite Monthly Raw (BOD5, TSS, TP, Alk, TKN) Composite Weekly Raw (BOD5, TSS, TP, TKN) Composite (cBOD5, SS,TP, Alk.,TKN, TAN, NO2+NO3, Uni.) Grab (E. coli) Acute lethality for Rainbow Trout
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Sample Schedule 2025 Stratford WPCP

Rev. Date: 2024-10-10
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Pages: 11 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

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

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Sample Schedule 2025 Stratford WPCP

Rev. Date: 2024-10-10
Rev.#: 3
Pages: 12 of 12

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Approved by: Operations Management

◀ November	December 2025						January ▶
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
	1 IH Full ☐ Monthly Sludge ☐ Monthly Raw ☐ F. Effluent ☐	2	3	4 IH Full ☐	5	6	
7	8 IH Full ☐ Weekly Raw ☐ F. Effluent ☐	9	10	11 IH Full ☐	12	13	
14	15 IH Full ☐ Weekly Raw ☐ F. Effluent ☐	16	17	18 IH Full ☐	19	20	
21	22 IH Full ☐ Weekly Raw ☐ F. Effluent ☐	23	24 IH Full ☐	25 STAT	26 STAT	27	
28	29 IH Full ☐ Weekly Raw ☐ F. Effluent ☐	30	31				

- Distribution Residuals:** Residuals must be at least 48hrs apart.
- Monthly Samples:** Raw water (E. coli, TC); samples must be collected greater than 20 days and less than 40 days from previous month collection.
- Biweekly Bacti:** Distribution (E. coli, TC, HPC)
- Quarterly Samples:** Distribution (THMs, HAAs) TW (Nitrate and Nitrite) samples must be collected greater than 60 days and less than 120 days from previous quarterly collection.
- Schedule 15.1 Samples:** Distribution (Lead, Alkalinity & pH) Sample periods Dec 15 to April 15 and June 15 to October 15
- 60 Month Samples:** Schedule 23, 24 (2029), Sodium (2027), Fluoride (2026)

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

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Appendix C

Maintenance Summary

(Appendices can be provided upon request to Clerk's Office)

Stratford WPCP Maintenance Summary Report

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

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

Location: 5529

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

			WorkOrder		PM Schedule		Workorder Details		
WO #	Asset ID	Asset Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start
3714244	0000278028	AHU AIR HANDLING UNIT HVAC SYS INLET BLDG	PM	Refurbish/Replacement/Repair	1	MONTHS	Air Handling Unit Filter Change/Inspection (1m) 5529	CLOSE	1/1/24 12:00 AM
3714246	0000160242	COMPRESSOR AIR GENERAL USE MAINT SHOP	PM	Refurbish/Replacement/Repair	1	YEARS	Maintenance Shop Air Compressor Insp/Service (1y) 5529	CLOSE	1/1/24 12:00 AM
3714256	0000278051	FAN EXHAUST FERROUS CHLORIDE BUILDING	PM	Refurbish/Replacement/Repair	1	YEARS	Chemical Building Exhaust Fan Insp/Service (1y) 5529	CLOSE	1/1/24 12:00 AM
3714259	0000160345	PANEL ALARM/DIALER MAIN OFFICE	PM	Inspection	1	MONTHS	Alarm Dialer Testing (1m) 5529	CLOSE	1/1/24 12:00 AM
3714264	0000160033	PUMP GEAR 02 FUEL TRANSFER GEN RM BLOWER BLDG	PM	Refurbish/Replacement/Repair	1	YEARS	Diesel Fuel Pump Route Insp/Service (1y) 5529	CLOSE	1/1/24 12:00 AM
3714267	0000278021	PUMP PERISTALTIC CCP-301 FERROUS CHLORIDE DOSING BLOWER BLDG	PM	Refurbish/Replacement/Repair	6	MONTHS	Peristaltic Pump Ferrous Chloride CCP301 Insp/Service (3m) 5529	CLOSE	1/1/24 12:00 AM
3714487			PM	Inspection	3	MONTHS	Supervisor Spot Checks	CLOSE	1/1/24 12:00 AM
3714487			PM	Inspection	3	MONTHS	Supervisor Spot Checks	CLOSE	1/1/24 12:00 AM
3714487			PM	Inspection	3	MONTHS	Supervisor Spot Checks	CLOSE	1/1/24 12:00 AM
3714487			PM	Inspection	3	MONTHS	Supervisor Spot Checks	CLOSE	1/1/24 12:00 AM
3714487			PM	Inspection	3	MONTHS	Supervisor Spot Checks	CLOSE	1/1/24 12:00 AM
3714487			PM	Inspection	3	MONTHS	Supervisor Spot Checks	CLOSE	1/1/24 12:00 AM
3714487			PM	Inspection	3	MONTHS	Supervisor Spot Checks	CLOSE	1/1/24 12:00 AM
3714489			PM	Inspection	1	MONTHS	PH Probe Insp/Calib (1m) 5529	CLOSE	1/1/24 12:00 AM
3714494			OPER	Inspection	1	MONTHS	Daily O&M Activities Stratford WWTP (1m)	CLOSE	1/1/24 12:00 AM
3714499			OPER	Inspection	1	MONTHS	TPM Insp/Maint Stratford WWTP (1m)	CLOSE	1/1/24 12:00 AM
3714811	0000160037	ENGINE DIESEL STANDBY GENERATOR BLOWER BLDG	PM	Inspection	1	MONTHS	Diesel Generator Monthly Running Checks Insp/Test (1m) 5529	CLOSE	1/1/24 12:00 AM
3714830	0000160129	GEAR DRIVE FINAL CLARIFIER 01	PM	Refurbish/Replacement/Repair	6	MONTHS	Final Clarifier Route Insp/Service (6m/1y) 5529	CLOSE	1/1/24 12:00 AM
3714830	0000160129	GEAR DRIVE FINAL CLARIFIER 01	PM	Refurbish/Replacement/Repair	6	MONTHS	Final Clarifier Route Insp/Service (6m/1y) 5529	CLOSE	1/1/24 12:00 AM

3714830	0000160129	GEAR DRIVE FINAL CLARIFIER 01	PM	Refurbish/Replacement/Repair	6 MONTHS	Final Clarifier Route Insp/Service (6m/1y) 5529	CLOSE	1/1/24 12:00 AM
3714830	0000160129	GEAR DRIVE FINAL CLARIFIER 01	PM	Refurbish/Replacement/Repair	6 MONTHS	Final Clarifier Route Insp/Service (6m/1y) 5529	CLOSE	1/1/24 12:00 AM
3715085			PM	Health and	1 MONTHS	OG15 Facility OHS	CLOSE	1/1/24 12:00 AM
3715160			OPER	Compliance	1 MONTHS	WISKI Data Review	CLOSE	1/1/24 12:00 AM
3715411			OPER	Compliance	1 MONTHS	Sampling and Testing (1m) 5529	CLOSE	1/1/24 12:00 AM
3716145			PM	Health and Safety	1 YEARS	Third Party Fire Extinguishers Inspection (1y) 5529	CLOSE	1/1/24 12:00 AM
3731607			PM	Refurbish/Replacement/Repair	1 MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	CLOSE	1/1/24 12:00 AM
3731607			PM	Refurbish/Replacement/Repair	1 MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	CLOSE	1/1/24 12:00 AM
3731607			PM	Refurbish/Replacement/Repair	1 MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	CLOSE	1/1/24 12:00 AM
3731607			PM	Refurbish/Replacement/Repair	1 MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	CLOSE	1/1/24 12:00 AM
3731607			PM	Refurbish/Replacement/Repair	1 MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	CLOSE	1/1/24 12:00 AM
3734092	0000070305	COMPRESSOR GAS PRIMARY DIGESTER METHANE BOOSTER GAS PUMP RM	PM	Inspection	1 MONTHS	Methane Gas Compressor Insp/Service (1m/6m/1y) 5529	CLOSE	1/1/24 12:00 AM
3734432			PM	Inspection	1 MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	CLOSE	1/1/24 12:00 AM
3734432			PM	Inspection	1 MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	CLOSE	1/1/24 12:00 AM
3734432			PM	Inspection	1 MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	CLOSE	1/1/24 12:00 AM
3734432			PM	Inspection	1 MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	CLOSE	1/1/24 12:00 AM

						INSPECTION/SERVICE ROUTE (1m) 5529		
3734432			PM	Inspection	1	MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	CLOSE 1/1/24 12:00 AM
3734781	0000278169	FILTER CARTRIDGE HOT WATER MAINT SHOP	PM	Inspection	1	MONTHS	Shop Boiler Water Filter Cartridge Change (1m) 5529	CLOSE 1/1/24 12:00 AM
3735049			PM	Compliance	3	MONTHS	WSER Quarterly	CLOSE 1/1/24 12:00 AM
3735751	0000278081	BLOWER CENTRIFUGAL B-301 TURBO AERATION BLOWER BLDG	PM	Refurbish/Repl ace/Repair	1	MONTHS	Turbo Blower Monthly Intake Filter Replacements (1m) 5529	CLOSE 1/1/24 12:00 AM
3737447			PM	Inspection	3	MONTHS	Fleet Vehicle Maintenance Checks (3m)	CLOSE 1/1/24 12:00 AM
3750252	336242	UV LIGHT BANK 1A	PM	Inspection	0		336242 UV LIGHT BANK 1A	CLOSE 1/1/24 12:00 AM
3750259	336243	UV LIGHT BANK 1B	PM	Inspection	0		336243 UV LIGHT BANK 1B	CLOSE 1/1/24 12:00 AM
3759400			EMER	Refurbish/Repl ace/Repair	0		Main Sludge Line Blockage Clearing and Pump parts Replacement	CLOSE

3760088			EMER	Refurbish/Repl ace/Repair	0	Sludge Pump parts install	CLOSE
3760089			OPER	Administrative	0	SCADA Communication Failure #5529	CLOSE
3760534	0000278114	PUMP PROG CAV P- 202 PRIMARY SLUDGE BASEMENT	CAP	Refurbish/Repl ace/Repair	0	Primary Grit Pump Rotor and Stator Purchase	CLOSE
3761607	0000070305	COMPRESSOR GAS PRIMARY DIGESTER METHANE BOOSTER GAS PUMP RM	CORR	Refurbish/Repl ace/Repair	0	fixed two water leaks in compressor water seal line 5529	CLOSE
3761608	0000278213	DRIVE VFD P-101 RAW SEWAGE PUMP 01 INLET ELEC RM	CORR	Refurbish/Repl ace/Repair	0	inspected and re connected HIM wiring 5529	CLOSE
3762881			CORR	Refurbish/Repl ace/Repair	0	Replace Peristaltic Pump Hose #303 in Ferrous Room- 5529	CLOSE
3764129			CORR	Refurbish/Repl ace/Repair	0	Water line repair to Detroit room - 5529	CLOSE
3764135			EMER	Refurbish/Repl ace/Repair	0	Aeration Cell 4 Emergency Repair #5529	CLOSE

3769795	PM	Refurbish/Replacement/Repair	1	YEARS	VFD Route Annual Insp/Service (1y) 5529	CLOSE	2/1/24 12:00 AM
3769795	PM	Refurbish/Replacement/Repair	1	YEARS	VFD Route Annual Insp/Service (1y) 5529	CLOSE	2/1/24 12:00 AM
3769795	PM	Refurbish/Replacement/Repair	1	YEARS	VFD Route Annual Insp/Service (1y) 5529	CLOSE	2/1/24 12:00 AM
3769795	PM	Refurbish/Replacement/Repair	1	YEARS	VFD Route Annual Insp/Service (1y) 5529	CLOSE	2/1/24 12:00 AM
3769795	PM	Refurbish/Replacement/Repair	1	YEARS	VFD Route Annual Insp/Service (1y) 5529	CLOSE	2/1/24 12:00 AM
3769797	PM	Inspection	1	YEARS	Third Party	CLOSE	2/1/24 12:00 AM
3769797	PM	Inspection	1	YEARS	Third Party	CLOSE	2/1/24 12:00 AM
3769797	PM	Inspection	1	YEARS	Third Party	CLOSE	2/1/24 12:00 AM
3769797	PM	Inspection	1	YEARS	Third Party	CLOSE	2/1/24 12:00 AM
3769797	PM	Inspection	1	YEARS	Third Party	CLOSE	2/1/24 12:00 AM
3769797	PM	Inspection	1	YEARS	Third Party	CLOSE	2/1/24 12:00 AM
3769797	PM	Inspection	1	YEARS	Third Party	CLOSE	2/1/24 12:00 AM
3769797	PM	Inspection	1	YEARS	Third Party	CLOSE	2/1/24 12:00 AM
3769797	PM	Inspection	1	YEARS	Third Party	CLOSE	2/1/24 12:00 AM
3769797	PM	Inspection	1	YEARS	Third Party Lifting Device	CLOSE	2/1/24 12:00 AM
3769797	PM	Inspection	1	YEARS	Third Party Lifting Device	CLOSE	2/1/24 12:00 AM
3769797	PM	Inspection	1	YEARS	Third Party Lifting Device	CLOSE	2/1/24 12:00 AM

3769801			PM	Refurbish/Replacement/Repair	3	YEARS	MCC Route Insp/Service (3y) 5529	CLOSE	2/1/24 12:00 AM
3769913	0000278028	AHU AIR HANDLING UNIT HVAC SYS INLET BLDG	PM	Refurbish/Replacement/Repair	1	MONTHS	Air Handling Unit Filter Change/Inspection (1m) 5529	CLOSE	2/1/24 12:00 AM
3769915	0000160058	BLOWER CENTRIFUGAL B-302 AERATION BLOWER BLDG	PM	Refurbish/Replacement/Repair	1	YEARS	Blower Centrifugal 302 Insp/Service (1y) 5529	CLOSE	2/1/24 12:00 AM
3769918	0000160065	BLOWER CENTRIFUGAL B-303 AERATION BLOWER BLDG	PM	Refurbish/Replacement/Repair	1	YEARS	Blower Centrifugal 303 Insp/Service (1y) 5529	CLOSE	2/1/24 12:00 AM
3769921	0000269083	COOLER AIR P804 GEARBOX OIL LIFT STATION	PM	Refurbish/Replacement/Repair	5	YEARS	Fan P804 Oil Cooler Insp/Service (5y) 5529	COMP	2/1/24 12:00 AM
3769924	0000160345	PANEL ALARM/DIALER MAIN OFFICE	PM	Inspection	1	MONTHS	Alarm Dialer Testing (1m) 5529	CLOSE	2/1/24 12:00 AM
3770108			PM	Inspection	1	MONTHS	PH Probe Insp/Calib	CLOSE	2/1/24 12:00 AM
3770113			OPER	Inspection	1	MONTHS	Daily O&M Activities	CLOSE	2/1/24 12:00 AM
3770118			OPER	Inspection	1	MONTHS	TPM Insp/Maint	CLOSE	2/1/24 12:00 AM
3770384	0000160037	ENGINE DIESEL STANDBY GENERATOR BLOWER BLDG	PM	Inspection	1	MONTHS	Diesel Generator Monthly Running Checks Insp/Test (1m) 5529	CLOSE	2/1/24 12:00 AM
3770644			PM	Health and Safety	1	MONTHS	OG15 Facility OSHA Inspection (1m) 5529	CLOSE	2/1/24 12:00 AM
3770661			PM	Compliance	1	YEARS	OG111 OCWA's Fleet Policy Review (1y) 5529	CLOSE	2/1/24 12:00 AM
3770667			PM	Health and Safety	1	YEARS	OG109 OCWAs PPE Policy	CLOSE	2/1/24 12:00 AM
3770667			PM	Health and Safety	1	YEARS	OG109 OCWAs PPE Policy	CLOSE	2/1/24 12:00 AM
3770667			PM	Health and Safety	1	YEARS	OG109 OCWAs PPE Policy Review (1y) Stratford	CLOSE	2/1/24 12:00 AM
3770667			PM	Health and Safety	1	YEARS	OG109 OCWAs PPE Policy Review (1y) Stratford	CLOSE	2/1/24 12:00 AM
3770667			PM	Health and Safety	1	YEARS	OG109 OCWAs PPE Policy Review (1y) Stratford	CLOSE	2/1/24 12:00 AM
3770667			PM	Health and Safety	1	YEARS	OG109 OCWAs PPE Policy Review (1y) Stratford	CLOSE	2/1/24 12:00 AM
3770667			PM	Health and Safety	1	YEARS	OG109 OCWAs PPE Policy	CLOSE	2/1/24 12:00 AM

3770667			PM	Health and Safety	1 YEARS	Review (1y) Stratford OG109 OCWAs PPE Policy Review (1y) Stratford	CLOSE	2/1/24 12:00 AM
3770704			OPER	Compliance	1 MONTHS	WISKI Data Review	CLOSE	2/1/24 12:00 AM
3770859			OPER	Compliance	1 MONTHS	Sampling and Testing	CLOSE	2/1/24 12:00 AM
3771359	0000278043	HEATER ELECTRIC UH20 EX. PROOF HVAC SYS LIFT STATION	PM	Refurbish/Repl ace/Repair	1 YEARS	Lift Station Electric Heater NE Corner Insp (1y) 5529	CLOSE	2/1/24 12:00 AM
3771367	0000278042	HEATER ELECTRIC UH19 EX. PROOF HVAC SYS LIFT STATION	PM	Refurbish/Repl ace/Repair	1 YEARS	Lift Station Electric Heater SE Corner Insp (1y) 5529	CLOSE	2/1/24 12:00 AM
3782564			PM	Refurbish/Repl ace/Repair	1 MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	CLOSE	2/1/24 12:00 AM
3782564			PM	Refurbish/Repl ace/Repair	1 MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	CLOSE	2/1/24 12:00 AM
3782564			PM	Refurbish/Repl ace/Repair	1 MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	CLOSE	2/1/24 12:00 AM

3782564			PM	Refurbish/Replacement/Repair	1 MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	CLOSE	2/1/24 12:00 AM
3782564			PM	Refurbish/Replacement/Repair	1 MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	CLOSE	2/1/24 12:00 AM
3784539	0000070305	COMPRESSOR GAS PRIMARY DIGESTER METHANE BOOSTER GAS PUMP RM	PM	Inspection	1 MONTHS	Methane Gas Compressor Insp/Service (1m/6m/1y) 5529	CLOSE	2/1/24 12:00 AM
3784697			PM	Inspection	1 MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	CLOSE	2/1/24 12:00 AM

3784697			PM	Inspection	1 MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	CLOSE	2/1/24 12:00 AM
3784697			PM	Inspection	1 MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	CLOSE	2/1/24 12:00 AM
3784697			PM	Inspection	1 MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	CLOSE	2/1/24 12:00 AM
3784697			PM	Inspection	1 MONTHS	BAR SCREEN	CLOSE	2/1/24 12:00 AM
3784870	0000278169	FILTER CARTRIDGE HOT WATER MAINT SHOP	PM	Inspection	1 MONTHS	Shop Boiler Water Filter Cartridge Change (1m) 5529	CLOSE	2/1/24 12:00 AM
3785012			PM	Compliance	3 MONTHS	MECP Overflow & Bypass Event Summary	CLOSE	2/1/24 12:00 AM
3785218			PM	Refurbish/Replace/Repair	2 MONTHS	Primary/Secondary Digester Doghouse Valve Switch (2m) 5529	CLOSE	2/1/24 12:00 AM
3785452	0000278081	BLOWER CENTRIFUGAL B-301 TURBO AERATION BLOWER BLDG	PM	Refurbish/Replace/Repair	1 MONTHS	Turbo Blower Monthly Intake Filter Replacements (1m) 5529	CLOSE	2/1/24 12:00 AM

3795990	336242	UV LIGHT BANK 1A	PM	Inspection	0		336242 UV LIGHT BANK 1A	CLOSE	2/1/24 12:00 AM
3795997	336243	UV LIGHT BANK 1B	PM	Inspection	0		336243 UV LIGHT BANK 1B	CLOSE	2/1/24 12:00 AM
3804911			CORR	Refurbish/Replace/Repair	0		Raw Sludge Pump Parts Install - 5529	CLOSE	
3806214			CAP	Inspection	0		Lifting Equipment and	COMP	
3806218	0000160038	BATTERY CHARGER GENERATOR BUILDING	EMER	Refurbish/Replace/Repair	0		Generator Repair-Batteries and Battery Tender	CLOSE	
3806378	0000278214	LIFTING DEVICE FORK LIFT PROPANE GEN. RM BLOWER BLDG	PM	Health and Safety	1	YEARS	Third Party Fork Lift Annual Inspection (1y) 5529	CLOSE	2/24/24 12:00 AM
3812159	0000278028	AHU AIR HANDLING UNIT HVAC SYS INLET BLDG	PM	Refurbish/Replace/Repair	1	MONTHS	Air Handling Unit Filter Change/Inspection (1m) 5529	CLOSE	3/1/24 12:00 AM
3812161	0000160345	PANEL ALARM/DIALER MAIN OFFICE	PM	Inspection	1	MONTHS	Alarm Dialer Testing (1m) 5529	CLOSE	3/1/24 12:00 AM
3812373	356646	LAB Autoclave	PM	Inspection	1	MONTHS	PH Probe Insp/Calib (1m) 5529	CLOSE	3/1/24 12:00 AM
3812378	356646	LAB Autoclave	OPER	Inspection	1	MONTHS	Daily O&M Activities Stratford WWTP (1m)	CLOSE	3/1/24 12:00 AM
3812383	356646	LAB Autoclave	OPER	Inspection	1	MONTHS	TPM Insp/Maint Stratford WWTP (1m) 5529	CLOSE	3/1/24 12:00 AM
3812645	0000160037	ENGINE DIESEL STANDBY GENERATOR BLOWER BLDG	PM	Inspection	1	MONTHS	Diesel Generator Monthly Running Checks Insp/Test (1m) 5529	CLOSE	3/1/24 12:00 AM
3812881	0000278024	ANALYZER DO AERATION BLOWER BLDG	PM	Inspection	3	MONTHS	Aeration DO Analyzer Insp (1y) 5529	CLOSE	3/1/24 12:00 AM
3812944	356646	LAB Autoclave	PM	Health and Safety	1	MONTHS	OG15 Facility OSHA Inspection (1m) 5529	CLOSE	3/1/24 12:00 AM
3813021	356646	LAB Autoclave	OPER	Compliance	1	MONTHS	WISKI Data Review	CLOSE	3/1/24 12:00 AM
3813174	356646	LAB Autoclave	OPER	Compliance	1	MONTHS	Sampling and Testing	CLOSE	3/1/24 12:00 AM

3826007			PM	Refurbish/Replacement/Repair	1 MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	CLOSE	3/1/24 12:00 AM
3826007			PM	Refurbish/Replacement/Repair	1 MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	CLOSE	3/1/24 12:00 AM
3826007			PM	Refurbish/Replacement/Repair	1 MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	CLOSE	3/1/24 12:00 AM
3826007			PM	Refurbish/Replacement/Repair	1 MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	CLOSE	3/1/24 12:00 AM
3826007			PM	Refurbish/Replacement/Repair	1 MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	CLOSE	3/1/24 12:00 AM
3828116	0000070305	COMPRESSOR GAS PRIMARY DIGESTER METHANE BOOSTER	PM	Inspection	1 MONTHS	Methane Gas Compressor Insp/Service	CLOSE	3/1/24 12:00 AM
3828262			PM	Inspection	1 MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	CLOSE	3/1/24 12:00 AM
3828262			PM	Inspection	1 MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	CLOSE	3/1/24 12:00 AM

3828262			PM	Inspection	1 MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	CLOSE	3/1/24 12:00 AM
3828262			PM	Inspection	1 MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	CLOSE	3/1/24 12:00 AM
3828262			PM	Inspection	1 MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	CLOSE	3/1/24 12:00 AM
3828438	0000278169	FILTER CARTRIDGE HOT WATER MAINT SHOP	PM	Inspection	1 MONTHS	Shop Boiler Water Filter Cartridge Change (1m) 5529	CLOSE	3/1/24 12:00 AM
3828707			PM	Health and Safety	1 YEARS	Harness/ Lanyard Annual Inspection (1y)	CLOSE	3/1/24 12:00 AM
3829033	0000278081	BLOWER	PM	Refurbish/Repl ace/Repair	1 MONTHS	Turbo Blower Monthly	CLOSE	3/1/24 12:00 AM
3832798			PM	Refurbish/Repl ace/Repair	4 MONTHS	Primary Clarifier Rotation (4m) 5529	CLOSE	3/1/24 12:00 AM
3832798			PM	Refurbish/Repl ace/Repair	4 MONTHS	Primary Clarifier Rotation (4m) 5529	CLOSE	3/1/24 12:00 AM
3832798			PM	Refurbish/Repl ace/Repair	4 MONTHS	Primary Clarifier Rotation (4m) 5529	CLOSE	3/1/24 12:00 AM
3832798			PM	Refurbish/Repl ace/Repair	4 MONTHS	Primary Clarifier Rotation (4m) 5529	CLOSE	3/1/24 12:00 AM
3832798			PM	Refurbish/Repl ace/Repair	4 MONTHS	Primary Clarifier Rotation (4m) 5529	CLOSE	3/1/24 12:00 AM
3839378	336242	UV LIGHT BANK 1A	PM	Inspection	0	336242 UV LIGHT BANK 1A	CLOSE	3/1/24 12:00 AM
3839385	336243	UV LIGHT BANK 1B	PM	Inspection	0	336243 UV LIGHT BANK 1B	CLOSE	3/1/24 12:00 AM
3847892	0000160320	MOTOR P106 PUMP HOT WATER CIRC	CORR	Refurbish/Repl ace/Repair	0	Replaced faulty pump / motor coupling5529	CLOSE	
3850307	0000160345	PANEL ALARM/DIALER MAIN OFFICE	CORR	Refurbish/Repl ace/Repair	0	Replaced and tested EQ overflow alarm float.5529	CLOSE	

3857303	0000278028	AHU AIR HANDLING UNIT HVAC SYS INLET BLDG	PM	Refurbish/Replacement/Repair	1	MONTHS	Air Handling Unit Filter Change/Inspection (1m) 5529	CLOSE	4/1/24 12:00 AM
3857308	0000160577	MIXER SUBMERSIBLE 01 SLUDGE HOLDING TANK	PM	Inspection	1	YEARS	Sludge Storage Mixer 01 Insp/Service (1y) 5529	CLOSE	4/1/24 12:00 AM
3857311	0000160580	MIXER SUBMERSIBLE 02 SLUDGE HOLDING TANK	PM	Inspection	1	YEARS	Sludge Storage Mixer 02 Insp/Service (1y) 5529	CLOSE	4/1/24 12:00 AM
3857314	0000160345	PANEL ALARM/DIALER MAIN OFFICE	PM	Inspection	1	MONTHS	Alarm Dialer Testing (1m) 5529	CLOSE	4/1/24 12:00 AM
3857319	0000160272	PUMP SUBMERSIBLE P-305A SUMP SLUDGE RM BLOWER BLDG	PM	Refurbish/Replacement/Repair	1	YEARS	RAS Building Sump Pump P305A Insp/Service (1y) 5529	CLOSE	4/1/24 12:00 AM
3857328	0000160273	PUMP SUBMERSIBLE P-305B SUMP SLUDGE RM BLOWER BLDG	PM	Refurbish/Replacement/Repair	1	YEARS	RAS Building Sump Pump P305B Insp/Service (1y) 5529	CLOSE	4/1/24 12:00 AM
3857337	0000249129	SAFETY SPILL KIT 01 FILTER BLDG	PM	Health and Safety	1	YEARS	Safety Spill Kit 01 Insp (1y) 5529	CLOSE	4/1/24 12:00 AM
3857339	0000278001	SAFETY SPILL KIT 02 FILTER BLDG	PM	Health and Safety	1	YEARS	Safety Spill Kit 02 Insp (1y) 5529	CLOSE	4/1/24 12:00 AM
3857510	356646	LAB Autoclave	PM	Inspection	3	MONTHS	Supervisor Spot Checks	CLOSE	4/1/24 12:00 AM
3857510	356646	LAB Autoclave	PM	Inspection	3	MONTHS	Supervisor Spot Checks	CLOSE	4/1/24 12:00 AM
3857510	356646	LAB Autoclave	PM	Inspection	3	MONTHS	Supervisor Spot Checks	CLOSE	4/1/24 12:00 AM
3857510	356646	LAB Autoclave	PM	Inspection	3	MONTHS	Supervisor Spot Checks	CLOSE	4/1/24 12:00 AM
3857510	356646	LAB Autoclave	PM	Inspection	3	MONTHS	Supervisor Spot Checks	CLOSE	4/1/24 12:00 AM
3857510	356646	LAB Autoclave	PM	Inspection	3	MONTHS	Supervisor Spot Checks	CLOSE	4/1/24 12:00 AM
3857512	356646	LAB Autoclave	PM	Inspection	1	MONTHS	PH Probe Insp/Calib	CLOSE	4/1/24 12:00 AM
3857517	356646	LAB Autoclave	OPER	Inspection	1	MONTHS	Daily O&M Activities Stratford WWTP (1m)	CLOSE	4/1/24 12:00 AM
3857522	356646	LAB Autoclave	OPER	Inspection	1	MONTHS	TPM Insp/Maint Stratford WWTP (1m)	CLOSE	4/1/24 12:00 AM
3857811	0000160037	ENGINE DIESEL STANDBY GENERATOR BLOWER BLDG	PM	Inspection	1	MONTHS	Diesel Generator Monthly Running Checks Insp/Test (1m) 5529	CLOSE	4/1/24 12:00 AM
3858077	356646	LAB Autoclave	PM	Health and Safety	1	MONTHS	OG15 Facility OHSA Inspection (1m) 5529	CLOSE	4/1/24 12:00 AM

3858106	356646	LAB Autoclave	OPER	Compliance	1	MONTHS	WISKI Data Review (1m) 5529	CLOSE	4/1/24 12:00 AM
3858356	356646	LAB Autoclave	OPER	Compliance	1	MONTHS	Sampling and Testing (1m) 5529	CLOSE	4/1/24 12:00 AM
3864615	0000278100	MOTOR PROG CAV P201 RAW SLUDGE	PM	Refurbish/Repl ace/Repair	6	MONTHS	Raw Sludge Pump Motor Semi-Annual Inspection/Service (6m) 5529	CLOSE	4/1/24 12:00 AM
3872627			PM	Refurbish/Repl ace/Repair	1	MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	CLOSE	4/1/24 12:00 AM
3872627			PM	Refurbish/Repl ace/Repair	1	MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	CLOSE	4/1/24 12:00 AM
3872627			PM	Refurbish/Repl ace/Repair	1	MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	CLOSE	4/1/24 12:00 AM
3872627			PM	Refurbish/Repl ace/Repair	1	MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	CLOSE	4/1/24 12:00 AM
3872627			PM	Refurbish/Repl ace/Repair	1	MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	CLOSE	4/1/24 12:00 AM
3873962			PM	Refurbish/Repl ace/Repair	1	YEARS	RAS Pump Motors Group Inspection/Service (1y) 5529	COMP	4/1/24 12:00 AM
3873962			PM	Refurbish/Repl ace/Repair	1	YEARS	RAS Pump Motors Group Inspection/Service (1y) 5529	COMP	4/1/24 12:00 AM

3873962			PM	Refurbish/Replace/Repair	1	YEARS	RAS Pump Motors Group Inspection/Service (1y) 5529	COMP	4/1/24 12:00 AM
3873962			PM	Refurbish/Replace/Repair	1	YEARS	RAS Pump Motors Group Inspection/Service (1y) 5529	COMP	4/1/24 12:00 AM
3873962			PM	Refurbish/Replace/Repair	1	YEARS	RAS Pump Motors Group Inspection/Service (1y) 5529	COMP	4/1/24 12:00 AM
3875603	000070305	COMPRESSOR GAS PRIMARY DIGESTER METHANE BOOSTER	PM	Inspection	1	MONTHS	Methane Gas Compressor Inspection/Service	CLOSE	4/1/24 12:00 AM
3875847			PM	Inspection	1	MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	CLOSE	4/1/24 12:00 AM
3875847			PM	Inspection	1	MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	CLOSE	4/1/24 12:00 AM
3875847			PM	Inspection	1	MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	CLOSE	4/1/24 12:00 AM
3875847			PM	Inspection	1	MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	CLOSE	4/1/24 12:00 AM
3875847			PM	Inspection	1	MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	CLOSE	4/1/24 12:00 AM
3875847			PM	Inspection	1	MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	CLOSE	4/1/24 12:00 AM
3876052	0000278169	FILTER CARTRIDGE	PM	Inspection	1	MONTHS	Shop Boiler Water Filter	CLOSE	4/1/24 12:00 AM
3876233			PM	Compliance	3	MONTHS	WSER Quarterly	CLOSE	4/1/24 12:00 AM

3881757			PM	Refurbish/Repl ace/Repair	6	MONTHS	Digester Building Valve Semi-Annual Exercising (6m) 5529	COMP	4/1/24 12:00 AM
3881757			PM	Refurbish/Repl ace/Repair	6	MONTHS	Digester Building Valve Semi-Annual Exercising (6m) 5529	COMP	4/1/24 12:00 AM
3881757			PM	Refurbish/Repl ace/Repair	6	MONTHS	Digester Building Valve Semi-Annual Exercising (6m) 5529	COMP	4/1/24 12:00 AM
3881757			PM	Refurbish/Repl ace/Repair	6	MONTHS	Digester Building Valve Semi-Annual Exercising (6m) 5529	COMP	4/1/24 12:00 AM
3881757			PM	Refurbish/Repl ace/Repair	6	MONTHS	Digester Building Valve Semi-Annual Exercising (6m) 5529	COMP	4/1/24 12:00 AM
3881757			PM	Refurbish/Repl ace/Repair	6	MONTHS	Digester Building Valve Semi-Annual Exercising (6m) 5529	COMP	4/1/24 12:00 AM
3881757			PM	Refurbish/Repl ace/Repair	6	MONTHS	Digester Building Valve Semi-Annual Exercising (6m) 5529	COMP	4/1/24 12:00 AM
3881757			PM	Refurbish/Repl ace/Repair	6	MONTHS	Digester Building Valve Semi-Annual Exercising (6m) 5529	COMP	4/1/24 12:00 AM
3881757			PM	Refurbish/Repl ace/Repair	6	MONTHS	Digester Building Valve Semi-Annual Exercising (6m) 5529	COMP	4/1/24 12:00 AM
3890686	336242	UV LIGHT BANK 1A	PM	Inspection	0		336242 UV LIGHT BANK 1A	CLOSE	4/1/24 12:00 AM
3890693	336243	UV LIGHT BANK 1B	PM	Inspection	0		336243 UV LIGHT BANK 1B	CLOSE	4/1/24 12:00 AM
3899510	0000070305	COMPRESSOR GAS	CORR	Refurbish/Repl	0		Troubleshoot	CLOSE	
3901231	0000160515	METER FLOW METHANE GAS DIGESTER BUILDING	CORR	Refurbish/Repl ace/Repair	0		Trouble shot methane production totalizer not counting. 5529	CLOSE	
3901309			CORR	Refurbish/Repl	0		Clean out ferrous pump	CLOSE	
3902404	0000070305	COMPRESSOR GAS PRIMARY DIGESTER METHANE BOOSTER GAS PUMP RM	CORR	Refurbish/Repl ace/Repair	0		unclogged compressor drain / supernate 8" pipe 5529	CLOSE	
3909302	356646	LAB Autoclave	PM	Compliance	1	YEARS	Flame Arrester Route Insp/Service (1y) 5529	CLOSE	5/1/24 12:00 AM
3909302	356646	LAB Autoclave	PM	Compliance	1	YEARS	Flame Arrester Route Insp/Service (1y) 5529	CLOSE	5/1/24 12:00 AM
3909302	356646	LAB Autoclave	PM	Compliance	1	YEARS	Flame Arrester Route	CLOSE	5/1/24 12:00 AM
3909302	356646	LAB Autoclave	PM	Compliance	1	YEARS	Flame Arrester Route Insp/Service (1y) 5529	CLOSE	5/1/24 12:00 AM
3909302	356646	LAB Autoclave	PM	Compliance	1	YEARS	Flame Arrester Route Insp/Service (1y) 5529	CLOSE	5/1/24 12:00 AM
3909302	356646	LAB Autoclave	PM	Compliance	1	YEARS	Flame Arrester Route Insp/Service (1y) 5529	CLOSE	5/1/24 12:00 AM
3909302	356646	LAB Autoclave	PM	Compliance	1	YEARS	Flame Arrester Route Insp/Service (1y) 5529	CLOSE	5/1/24 12:00 AM

							Insp/Service (1y) 5529		
3909302	356646	LAB Autoclave	PM	Compliance	1	YEARS	Flame Arrester Route Insp/Service (1y) 5529	CLOSE	5/1/24 12:00 AM
3909455	0000278028	AHU AIR HANDLING UNIT HVAC SYS INLET BLDG	PM	Refurbish/Repl ace/Repair	1	MONTHS	Air Handling Unit Filter Change/Inspection (1m) 5529	CLOSE	5/1/24 12:00 AM
3909457	0000160241	ANALYZER 01 GAS	PM	Inspection	6	MONTHS	Third-Party	CLOSE	5/1/24 12:00 AM
3909457	0000160241	ANALYZER 01 GAS TRI DETECTOR SHOP ELECTRICAL ROOM	PM	Inspection	6	MONTHS	Third-Party Gas Detector Group Insp/Calib (6m) 5529	CLOSE	5/1/24 12:00 AM
3909457	0000160241	ANALYZER 01 GAS	PM	Inspection	6	MONTHS	Third-Party	CLOSE	5/1/24 12:00 AM
3909460	0000278051	FAN EXHAUST FERROUS CHLORIDE BUILDING	PM	Refurbish/Repl ace/Repair	1	YEARS	Chemical Building Exhaust Fan Insp/Service (1y) 5529	COMP	5/1/24 12:00 AM
3909463	0000160180	GEAR DRIVE DETRITOR DETRITOR RM	PM	Refurbish/Repl ace/Repair	1	YEARS	Gear Drive Insp/Service (1y) 5529	COMP	5/1/24 12:00 AM
3909466	0000160345	PANEL ALARM/DIALER MAIN OFFICE	PM	Inspection	1	MONTHS	Alarm Dialer Testing (1m) 5529	CLOSE	5/1/24 12:00 AM
3909658	356646	LAB Autoclave	PM	Inspection	1	MONTHS	PH Probe Insp/Calib (1m) 5529	CLOSE	5/1/24 12:00 AM
3909663	356646	LAB Autoclave	OPER	Inspection	1	MONTHS	Daily O&M Activities	CLOSE	5/1/24 12:00 AM
3909668	356646	LAB Autoclave	OPER	Inspection	1	MONTHS	TPM Insp/Maint	CLOSE	5/1/24 12:00 AM
3909938	0000160037	ENGINE DIESEL STANDBY GENERATOR BLOWER BLDG	PM	Inspection	1	MONTHS	Diesel Generator Monthly Running Checks Insp/Test (1m) 5529	CLOSE	5/1/24 12:00 AM
3910189	0000278077	PUMP SUBMERSIBLE 104 RAW SEWAGE	PM	Refurbish/Repl ace/Repair	6	MONTHS	Raw Sewage Pump 104 Insp/Service (6m/1y/5y) 5529	COMP	5/1/24 12:00 AM
3910232	356646	LAB Autoclave	PM	Health and Safety	1	MONTHS	OG15 Facility OHSA Inspection (1m) 5529	CLOSE	5/1/24 12:00 AM
3910261	356646	LAB Autoclave	OPER	Compliance	1	MONTHS	WISKI Data Review	CLOSE	5/1/24 12:00 AM
3910529	356646	LAB Autoclave	OPER	Compliance	1	MONTHS	Sampling and Testing (1m) 5529	CLOSE	5/1/24 12:00 AM
3924354			PM	Refurbish/Repl ace/Repair	1	MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	CLOSE	5/1/24 12:00 AM
3924354			PM	Refurbish/Repl ace/Repair	1	MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	CLOSE	5/1/24 12:00 AM

3924354			PM	Refurbish/Replacement/Repair	1 MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	CLOSE	5/1/24 12:00 AM
3924354			PM	Refurbish/Replacement/Repair	1 MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	CLOSE	5/1/24 12:00 AM
3924354			PM	Refurbish/Replacement/Repair	1 MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	CLOSE	5/1/24 12:00 AM
3926934	0000070305	COMPRESSOR GAS PRIMARY DIGESTER METHANE BOOSTER	PM	Inspection	1 MONTHS	Methane Gas Compressor Insp/Service	CLOSE	5/1/24 12:00 AM
3927074			PM	Inspection	1 MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	CLOSE	5/1/24 12:00 AM
3927074			PM	Inspection	1 MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	CLOSE	5/1/24 12:00 AM
3927074			PM	Inspection	1 MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	CLOSE	5/1/24 12:00 AM
3927074			PM	Inspection	1 MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	CLOSE	5/1/24 12:00 AM
3927074			PM	Inspection	1 MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	CLOSE	5/1/24 12:00 AM
3927074			PM	Inspection	1 MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	CLOSE	5/1/24 12:00 AM
3927454	356646	LAB Autoclave	PM	Compliance	3 MONTHS	MECP Overflow &	CLOSE	5/1/24 12:00 AM
3927909	0000278081	BLOWER CENTRIFUGAL B-301 TURBO AERATION BLOWER BLDG	PM	Refurbish/Replacement/Repair	1 MONTHS	Turbo Blower Monthly Intake Filter Replacements (1m) 5529	CLOSE	5/1/24 12:00 AM
3928003			PM	Refurbish/Replacement/Repair	1 YEARS	Digester Doghouse Pressure Relief Annual Cleaning/Inspection	CLOSE	5/1/24 12:00 AM
3928003			PM	Refurbish/Replacement/Repair	1 YEARS	Digester Doghouse	CLOSE	5/1/24 12:00 AM

3928003			PM	Refurbish/Replace/Repair	1	YEARS	Digester Doghouse Pressure Relief Annual Cleaning/Inspection	CLOSE	5/1/24 12:00 AM
3928003			PM	Refurbish/Replace/Repair	1	YEARS	Digester Doghouse Pressure Relief Annual Cleaning/Inspection	CLOSE	5/1/24 12:00 AM
3928003			PM	Refurbish/Replace/Repair	1	YEARS	Digester Doghouse Pressure Relief Annual Cleaning/Inspection	CLOSE	5/1/24 12:00 AM
3928003			PM	Refurbish/Replace/Repair	1	YEARS	Digester Doghouse Pressure Relief Annual Cleaning/Inspection	CLOSE	5/1/24 12:00 AM
3938540			PM	Compliance	1	YEARS	NPRI Reporting (1y)	CLOSE	5/1/24 12:00 AM
3939040	336242	UV LIGHT BANK 1A	PM	Inspection	0		336242 UV LIGHT BANK 1A	CLOSE	5/1/24 12:00 AM
3939040	336242	UV LIGHT BANK 1A	PM	Inspection	0		336242 UV LIGHT BANK 1A	CLOSE	5/1/24 12:00 AM
3939040	336242	UV LIGHT BANK 1A	PM	Inspection	0		336242 UV LIGHT BANK 1A	CLOSE	5/1/24 12:00 AM
3939047	336243	UV LIGHT BANK 1B	PM	Inspection	0		336243 UV LIGHT BANK 1B	CLOSE	5/1/24 12:00 AM
3946807	0000160129	GEAR DRIVE FINAL CLARIFIER 01	PM	Predictive Maintenance	0		Filter Building Screw pump Grease pot repair	CLOSE	
3947355			PM	Predictive Maintenance	0		Clear blocked lines to Ferrous Pumps #5529	CLOSE	
3947398			PM	Inspection	0		ESA inspection @ Stratford WWTP 5529	CLOSE	
3949118			CORR	Predictive Maintenance	0		Clean out Flame Arresters in gas room	CLOSE	
3951077			CAP	Refurbish/Replace/Repair	0		Sludge Loading Valve Replacements	CLOSE	
3951704	0000278258	PUMP DIAPHRAGM 02 SODIUM BISULFITE	CORR	Refurbish/Replace/Repair	0		Replacing sodium bisulfate pumps 5529	CLOSE	
3952154			EMER	Predictive Maintenance	0		Clean Sludge Out of Gas Lines #5529	CLOSE	
3952161			CAP	Predictive Maintenance	0		Primary Digester Malfunction Troubleshoot and clean out	CLOSE	

3952618	0000160085	PANEL CONTROL PLC 300 BLOWER BLDG	CORR	Refurbish/Repl ace/Repair	0		Replaced faulty UPS in blower building PLC	CLOSE	
3957898	0000160537	AC SPLIT SYSTEM OUTDOOR UNIT ADMIN BLDG	PM	Refurbish/Repl ace/Repair	1	YEARS	Office Air Conditioning Unit Insp/Service (1y) 5529	COMP	6/1/24 12:00 AM
3957905	0000278028	AHU AIR HANDLING UNIT HVAC SYS INLET BLDG	PM	Refurbish/Repl ace/Repair	1	MONTHS	Air Handling Unit Filter Change/Inspection (1m) 5529	CLOSE	6/1/24 12:00 AM
3957907	0000278081	BLOWER CENTRIFUGAL B-301 TURBO AERATION	PM	Refurbish/Repl ace/Repair	1	YEARS	Turbo Blower 301 Neuros Insp/Service (1y) 5529	CLOSE	6/1/24 12:00 AM
3957910			PM	Refurbish/Repl ace/Repair	1	YEARS	Sand Filter Insp/Service Route (1y) 5529	COMP	6/1/24 12:00 AM
3957910			PM	Refurbish/Repl ace/Repair	1	YEARS	Sand Filter Insp/Service Route (1y) 5529	COMP	6/1/24 12:00 AM
3957910			PM	Refurbish/Repl ace/Repair	1	YEARS	Sand Filter Insp/Service Route (1y) 5529	COMP	6/1/24 12:00 AM
3957910			PM	Refurbish/Repl ace/Repair	1	YEARS	Sand Filter Insp/Service Route (1y) 5529	COMP	6/1/24 12:00 AM
3957910			PM	Refurbish/Repl ace/Repair	1	YEARS	Sand Filter Insp/Service Route (1y) 5529	COMP	6/1/24 12:00 AM
3957913	0000160345	PANEL ALARM/DIALER MAIN OFFICE	PM	Inspection	1	MONTHS	Alarm Dialer Testing (1m) 5529	CLOSE	6/1/24 12:00 AM
3957918	0000160252	PUMP CENT P203 DEWATERING	PM	Refurbish/Repl ace/Repair	1	YEARS	Primary Clarifier Dewatering Pump 203 Insp/Service (1y) 5529	COMP	6/1/24 12:00 AM
3957921	0000160192	PUMP SUBMERSIBLE 101 RAW SEWAGE	PM	Refurbish/Repl ace/Repair	1	YEARS	Raw Sewage Pump 101 Insp/Service (1y) 5529	CLOSE	6/1/24 12:00 AM
3957930	0000160191	PUMP SUBMERSIBLE 102 RAW SEWAGE	PM	Refurbish/Repl ace/Repair	1	YEARS	Raw Sewage Pump 102 Insp/Service (1y) 5529	CLOSE	6/1/24 12:00 AM

102 RAW SEWAGE				ace/Repair		Insp/Service (1y) 5529			
3957939	0000160190	PUMP SUBMERSIBLE 103 RAW SEWAGE	PM	Refurbish/Repl ace/Repair	1	YEARS	Raw Sewage Pump 103 Insp/Service (1y) 5529	CLOSE	6/1/24 12:00 AM
3958299	356646	LAB Autoclave	PM	Inspection	1	MONTHS	PH Probe Insp/Calib	CLOSE	6/1/24 12:00 AM
3958304	356646	LAB Autoclave	OPER	Inspection	1	MONTHS	Daily O&M Activities	CLOSE	6/1/24 12:00 AM
3958309	356646	LAB Autoclave	OPER	Inspection	1	MONTHS	TPM Insp/Maint Stratford WWTP (1m) 5529	COMP	6/1/24 12:00 AM
3958632	0000160037	ENGINE DIESEL STANDBY GENERATOR BLOWER BLDG	PM	Inspection	1	MONTHS	Diesel Generator Monthly Running Checks Insp/Test (1m) 5529	CLOSE	6/1/24 12:00 AM
3958874	0000278024	ANALYZER DO AERATION BLOWER BLDG	PM	Inspection	3	MONTHS	Aeration DO Analyzer Insp (1y) 5529	CLOSE	6/1/24 12:00 AM
3958926	356646	LAB Autoclave	PM	Health and Safety	1	MONTHS	OG15 Facility OSHA Inspection (1m) 5529	CLOSE	6/1/24 12:00 AM
3958934	356646	LAB Autoclave	PM	Health and Safety	1	YEARS	OG110 OCWA's H&S Manual a	CLOSE	6/1/24 12:00 AM
3958934	356646	LAB Autoclave	PM	Health and Safety	1	YEARS	OG110 OCWA's H&S Manual a	CLOSE	6/1/24 12:00 AM
3958934	356646	LAB Autoclave	PM	Health and Safety	1	YEARS	OG110 OCWA's H&S Manual a nd Policy Review (1y)	CLOSE	6/1/24 12:00 AM
3958934	356646	LAB Autoclave	PM	Health and Safety	1	YEARS	OG110 OCWA's H&S Manual a nd Policy Review (1y)	CLOSE	6/1/24 12:00 AM
3958934	356646	LAB Autoclave	PM	Health and Safety	1	YEARS	OG110 OCWA's H&S Manual a nd Policy Review (1y)	CLOSE	6/1/24 12:00 AM
3958934	356646	LAB Autoclave	PM	Health and Safety	1	YEARS	OG110 OCWA's H&S Manual a nd Policy Review (1y)	CLOSE	6/1/24 12:00 AM
3958934	356646	LAB Autoclave	PM	Health and Safety	1	YEARS	OG110 OCWA's H&S Manual a nd Policy Review (1y)	CLOSE	6/1/24 12:00 AM
3958934	356646	LAB Autoclave	PM	Health and Safety	1	YEARS	OG110 OCWA's H&S Manual a nd Policy Review (1y)	CLOSE	6/1/24 12:00 AM
3958934	356646	LAB Autoclave	PM	Health and Safety	1	YEARS	OG110 OCWA's H&S Manual a nd Policy Review (1y)	CLOSE	6/1/24 12:00 AM
3958934	356646	LAB Autoclave	PM	Health and Safety	1	YEARS	OG110 OCWA's H&S Manual a nd Policy Review (1y)	CLOSE	6/1/24 12:00 AM
3958968	356646	LAB Autoclave	OPER	Compliance	1	MONTHS	WISKI Data Review	CLOSE	6/1/24 12:00 AM
3959113	356646	LAB Autoclave	OPER	Compliance	1	MONTHS	Sampling and Testing	CLOSE	6/1/24 12:00 AM
3966382			PM	Inspection	6	MONTHS	Actuator Electric	COMP	6/1/24 12:00 AM
3966382			PM	Inspection	6	MONTHS	Actuator Electric Inspection/Service Route (6m/1y) 5529	COMP	6/1/24 12:00 AM
3966382			PM	Inspection	6	MONTHS	Actuator Electric	COMP	6/1/24 12:00 AM
3966382			PM	Inspection	6	MONTHS	Actuator Electric Inspection/Service	COMP	6/1/24 12:00 AM
3966382			PM	Inspection	6	MONTHS	Actuator Electric Inspection/Service Route (6m/1y) 5529	COMP	6/1/24 12:00 AM
3966382			PM	Inspection	6	MONTHS	Actuator Electric Inspection/Service Route (6m/1y) 5529	COMP	6/1/24 12:00 AM

3976264	000070305	COMPRESSOR GAS PRIMARY DIGESTER METHANE BOOSTER	PM	Refurbish/Repl ace/Repair	1 MONTHS	Methane Gas Compressor Inp/Service	CLOSE	6/1/24 12:00 AM
3976405			PM	Inspection	1 MONTHS	BAR SCREEN	COMP	6/1/24 12:00 AM
3976405			PM	Inspection	1 MONTHS	BAR SCREEN	COMP	6/1/24 12:00 AM
3976405			PM	Inspection	1 MONTHS	BAR SCREEN	COMP	6/1/24 12:00 AM
3976405			PM	Inspection	1 MONTHS	BAR SCREEN	COMP	6/1/24 12:00 AM
3976405			PM	Inspection	1 MONTHS	BAR SCREEN	COMP	6/1/24 12:00 AM
3977178			PM	Refurbish/Repl ace/Repair	2 MONTHS	Primary/Secondary Digester Doghouse Valve Switch (2m) 5529	CLOSE	6/1/24 12:00 AM
3977498	0000278081	BLOWER CENTRIFUGAL B-301 TURBO AERATION BLOWER BLDG	PM	Refurbish/Repl ace/Repair	1 MONTHS	Turbo Blower Monthly Intake Filter Replacements (1m) 5529	CLOSE	6/1/24 12:00 AM
3988937	336242	UV LIGHT BANK 1A	PM	Inspection	0	336242 UV LIGHT BANK 1A	CLOSE	6/1/24 12:00 AM
3988937	336242	UV LIGHT BANK 1A	PM	Inspection	0	336242 UV LIGHT BANK 1A	CLOSE	6/1/24 12:00 AM
3988937	336242	UV LIGHT BANK 1A	PM	Inspection	0	336242 UV LIGHT BANK 1A	CLOSE	6/1/24 12:00 AM
3988944	336243	UV LIGHT BANK 1B	PM	Inspection	0	336243 UV LIGHT BANK 1B	CLOSE	6/1/24 12:00 AM
4007608	0000278028	AHU AIR HANDLING	PM	Refurbish/Repl	1 MONTHS	Air Handling Unit Filter	CLOSE	7/1/24 12:00 AM
4007610	0000160345	PANEL ALARM/DIALER MAIN OFFICE	PM	Inspection	1 MONTHS	Alarm Dialer Testing (1m) 5529	CLOSE	7/1/24 12:00 AM
4007615			PM	Refurbish/Repl ace/Repair	6 MONTHS	Peristaltic Pumps Ferrous Chlorid e Service (6m) 5529	COMP	7/1/24 12:00 AM
4007632	0000278021	PUMP PERISTALTIC	PM	Refurbish/Repl	0	0000278021 PUMP	COMP	7/1/24 12:00 AM
4007649	0000278235	PUMP PERISTALTIC CCP-302 FERROUS CHLORIDE DOSING BLOWER BLDG	PM	Refurbish/Repl ace/Repair	0	0000278235 PUMP PERISTALTIC FERROUS CHLORIDE PUMP #2	COMP	7/1/24 12:00 AM
4007666	356638	PUMP PERISTALTIC	PM	Refurbish/Repl	0	356638 PUMP	COMP	7/1/24 12:00 AM
4007666	356638	PUMP PERISTALTIC FERROUS CHLORIDE PUMP #3	PM	Refurbish/Repl ace/Repair	0	356638 PUMP PERISTALTIC FERROUS CHLORIDE PUMP #3	COMP	7/1/24 12:00 AM
4007860	356646	LAB Autoclave	PM	Inspection	3 MONTHS	Supervisor Spot Checks Stratford Cluster (3m) 5529/1061/1259/6774/1	COMP	7/1/24 12:00 AM
4007860	356646	LAB Autoclave	PM	Inspection	3 MONTHS	Supervisor Spot Checks Stratford Cluster (3m) 5529/1061/1259/6774/1	COMP	7/1/24 12:00 AM
4007860	356646	LAB Autoclave	PM	Inspection	3 MONTHS	Supervisor Spot Checks Stratford Cluster (3m) 5529/1061/1259/6774/1 142	COMP	7/1/24 12:00 AM
4007860	356646	LAB Autoclave	PM	Inspection	3 MONTHS	Supervisor Spot Checks Stratford Cluster (3m) 5529/1061/1259/6774/1 142	COMP	7/1/24 12:00 AM

4007860	356646	LAB Autoclave	PM	Inspection	3	MONTHS	Supervisor Spot Checks Stratford Cluster (3m) 5529/1061/1259/6774/1	COMP	7/1/24 12:00 AM
4007860	356646	LAB Autoclave	PM	Inspection	3	MONTHS	Supervisor Spot Checks Stratford Cluster (3m) 5529/1061/1259/6774/1	COMP	7/1/24 12:00 AM
4007862	356646	LAB Autoclave	PM	Inspection	1	MONTHS	PH Probe Insp/Calib	CLOSE	7/1/24 12:00 AM
4007867	356646	LAB Autoclave	OPER	Inspection	1	MONTHS	Daily O&M Activities	CLOSE	7/1/24 12:00 AM
4007872	356646	LAB Autoclave	OPER	Inspection	1	MONTHS	TPM Insp/Maint Stratford WWTP (1m) 5529	COMP	7/1/24 12:00 AM
4008157	0000160037	ENGINE DIESEL	PM	Inspection	1	MONTHS	Diesel Generator	COMP	7/1/24 12:00 AM
4008176	0000160129	GEAR DRIVE FINAL CLARIFIER 01	PM	Refurbish/Replacement/Repair	6	MONTHS	Final Clarifier Route Insp/Service (6m/1y) 5529	COMP	7/1/24 12:00 AM
4008176	0000160129	GEAR DRIVE FINAL CLARIFIER 01	PM	Refurbish/Replacement/Repair	6	MONTHS	Final Clarifier Route Insp/Service (6m/1y) 5529	COMP	7/1/24 12:00 AM
4008176	0000160129	GEAR DRIVE FINAL CLARIFIER 01	PM	Refurbish/Replacement/Repair	6	MONTHS	Final Clarifier Route Insp/Service (6m/1y) 5529	COMP	7/1/24 12:00 AM
4008176	0000160129	GEAR DRIVE FINAL CLARIFIER 01	PM	Refurbish/Replacement/Repair	6	MONTHS	Final Clarifier Route Insp/Service (6m/1y) 5529	COMP	7/1/24 12:00 AM
4008420	356646	LAB Autoclave	PM	Health and Safety	1	MONTHS	OG15 Facility OHSa Inspection (1m) 5529	CLOSE	7/1/24 12:00 AM
4008449	356646	LAB Autoclave	OPER	Compliance	1	MONTHS	WISKI Data Review	CLOSE	7/1/24 12:00 AM
4008613	356646	LAB Autoclave	OPER	Compliance	1	MONTHS	Sampling and Testing	CLOSE	7/1/24 12:00 AM
4023703	0000070305	COMPRESSOR GAS PRIMARY DIGESTER METHANE BOOSTER GAS PUMP RM	PM	Inspection	1	MONTHS	Methane Gas Compressor Insp/Service (1m/6m/1y) 5529	CLOSE	7/1/24 12:00 AM
4023930			PM	Inspection	1	MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	COMP	7/1/24 12:00 AM
4023930			PM	Inspection	1	MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	COMP	7/1/24 12:00 AM
4023930			PM	Inspection	1	MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	COMP	7/1/24 12:00 AM
4023930			PM	Inspection	1	MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	COMP	7/1/24 12:00 AM
4023930			PM	Inspection	1	MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	COMP	7/1/24 12:00 AM
4024271			PM	Compliance	3	MONTHS	WSER Quarterly	CLOSE	7/1/24 12:00 AM
4024875	0000278081	BLOWER CENTRIFUGAL B-301 TURBO AERATION	PM	Refurbish/Replacement/Repair	1	MONTHS	Turbo Blower Monthly Intake Filter Replacements (1m)	COMP	7/1/24 12:00 AM
4026048			PM	Inspection	3	MONTHS	Fleet Vehicle Maintenance Checks (3m)	COMP	7/1/24 12:00 AM
4037420	336242	UV LIGHT BANK 1A	PM	Inspection	0		336242 UV LIGHT BANK 1A	COMP	7/1/24 12:00 AM
4037420	336242	UV LIGHT BANK 1A	PM	Inspection	0		336242 UV LIGHT BANK 1A	COMP	7/1/24 12:00 AM
4037420	336242	UV LIGHT BANK 1A	PM	Inspection	0		336242 UV LIGHT BANK 1A	COMP	7/1/24 12:00 AM

						BANK 1A			
4037427	336243	UV LIGHT BANK 1B	PM	Inspection	0		336243 UV LIGHT BANK 1B	COMP	7/1/24 12:00 AM
4046242			PM	Refurbish/Repl	0		Aeration Cell 1 Clean	CLOSE	
4048242			CAP	Predictive Maintenance	0		Aeration Cell #1 Cleanout	CLOSE	
4048672	00002781710	SAMPLER OVERFLOW EVENT EQUALIZATION BUILDING	CORR	Refurbish/Repl ace/Repair	0		Trouble shot and fixed sampler 5529	CLOSE	
4048672	00002781710	SAMPLER OVERFLOW EVENT EQUALIZATION BUILDING	CORR	Refurbish/Repl ace/Repair	0		Trouble shot and fixed sampler 5529	CLOSE	
4049715			CAP	Inspection	0		Engineering Assessment of Primary Digester Roof	COMP	
4051367	0000278044	BOILER DIGESTER / NATURAL GAS BOILER RM	PM	Refurbish/Repl ace/Repair	1	YEARS	Third Party Digester Boiler Insp/Service (1y) 5529	CLOSE	7/27/24 12:00 AM
4051896			CAP	Inspection	0		Stratford Digester Scaffolding Installation- Repair Project	CLOSE	
4056660	0000278028	AHU AIR HANDLING UNIT HVAC SYS INLET BLDG	PM	Refurbish/Repl ace/Repair	1	MONTHS	Air Handling Unit Filter Change/Inspection (1m) 5529	CLOSE	8/1/24 12:00 AM
4056662	0000278045	BURNER WASTE GAS BOILER RM	PM	Refurbish/Repl ace/Repair	1	YEARS	Waste Burner Insp/Service (1y) 5529	CLOSE	8/1/24 12:00 AM
4056665	0000160345	PANEL ALARM/DIALER MAIN OFFICE	PM	Inspection	1	MONTHS	Alarm Dialer Testing (1m) 5529	CLOSE	8/1/24 12:00 AM
4056884	356646	LAB Autoclave	PM	Inspection	1	MONTHS	PH Probe Insp/Calib	CLOSE	8/1/24 12:00 AM
4056889	356646	LAB Autoclave	OPER	Inspection	1	MONTHS	Daily O&M Activities Stratford WWTP (1m) 5529	CLOSE	8/1/24 12:00 AM
4056894	356646	LAB Autoclave	OPER	Inspection	1	MONTHS	TPM Insp/Maint Stratford WWTP (1m) 5529	COMP	8/1/24 12:00 AM
4057221	0000160037	ENGINE DIESEL STANDBY GENERATOR BLOWER BLDG	PM	Inspection	1	MONTHS	Diesel Generator Monthly Running Checks Insp/Test (1m) 5529	CLOSE	8/1/24 12:00 AM
4057450	356646	LAB Autoclave	PM	Health and Safety	1	MONTHS	OG15 Facility OHSa Inspection (1m) 5529	CLOSE	8/1/24 12:00 AM
4057479	356646	LAB Autoclave	OPER	Compliance	1	MONTHS	WISKI Data Review	CLOSE	8/1/24 12:00 AM
4057638	356646	LAB Autoclave	OPER	Compliance	1	MONTHS	Sampling and Testing	CLOSE	8/1/24 12:00 AM
4069114			PM	Refurbish/Repl ace/Repair	1	MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	CLOSE	8/1/24 12:00 AM
4069114			PM	Refurbish/Repl ace/Repair	1	MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	CLOSE	8/1/24 12:00 AM

4072205	356646	LAB Autoclave	PM	Compliance	3 MONTHS	MECP Overflow &	CLOSE	8/1/24 12:00 AM
4072371			PM	Refurbish/Replacement/Repair	2 MONTHS	Primary/Secondary Digester Doghouse	COMP	8/1/24 12:00 AM
4072624	0000278081	BLOWER CENTRIFUGAL B-301 TURBO AERATION	PM	Refurbish/Replacement/Repair	1 MONTHS	Turbo Blower Monthly Intake Filter Replacements (1m)	COMP	8/1/24 12:00 AM
4083154	336242	UV LIGHT BANK 1A	PM	Inspection	0	336242 UV LIGHT BANK 1A	COMP	8/1/24 12:00 AM
4083154	336242	UV LIGHT BANK 1A	PM	Inspection	0	336242 UV LIGHT BANK 1A	COMP	8/1/24 12:00 AM
4083154	336242	UV LIGHT BANK 1A	PM	Inspection	0	336242 UV LIGHT BANK 1A	COMP	8/1/24 12:00 AM
4083161	336243	UV LIGHT BANK 1B	PM	Inspection	0	336243 UV LIGHT BANK 1B	COMP	8/1/24 12:00 AM
4091854			CORR	Refurbish/Replacement/Repair	0	Fluid / Filter change, limit switch replacement on boom truck 5529	COMP	
4092289			CAP	Refurbish/Replacement/Repair	0	Pressure Washing of the Primary Digester-Interior	CLOSE	
4095370	0000278044	BOILER DIGESTER / NATURAL GAS BOILER PM	CAP	Inspection	0	Annual Boiler Maintenance- Digester Boiler	COMP	
4096021			CORR	Refurbish/Replacement/Repair	0	ferrous line cleanout	CLOSE	
4101410	0000278028	AHU AIR HANDLING UNIT HVAC SYS INLET BLDG	PM	Refurbish/Replacement/Repair	1 MONTHS	Air Handling Unit Filter Change/Inspection (1m) 5529	CLOSE	9/1/24 12:00 AM
4101415	0000160345	PANEL ALARM/DIALER MAIN OFFICE	PM	Inspection	1 MONTHS	Alarm Dialer Testing (1m) 5529	CLOSE	9/1/24 12:00 AM
4101630	356646	LAB Autoclave	PM	Inspection	1 YEARS	DO Probe Calibration (1y) 5529	COMP	9/1/24 12:00 AM
4101641	356646	LAB Autoclave	PM	Inspection	1 MONTHS	PH Probe Insp/Calib	CLOSE	9/1/24 12:00 AM
4101646	356646	LAB Autoclave	PM	Administrative	1 YEARS	Lab Accreditation Check (1y) 5529	CLOSE	9/1/24 12:00 AM
4101648	356646	LAB Autoclave	OPER	Inspection	1 MONTHS	Daily O&M Activities Stratford WWTP (1m)	CLOSE	9/1/24 12:00 AM
4101653	356646	LAB Autoclave	OPER	Inspection	1 MONTHS	TPM Insp/Maint Stratford WWTP (1m) 5529	COMP	9/1/24 12:00 AM
4101998	0000160037	ENGINE DIESEL STANDBY GENERATOR	PM	Inspection	1 MONTHS	Diesel Generator Monthly Running Checks Insp/Test (1m)	COMP	9/1/24 12:00 AM
4102017	0000160037	ENGINE DIESEL STANDBY GENERATOR	PM	Refurbish/Replacement/Repair	1 YEARS	Engine Diesel Stratford Insp/Service (1y) 5529	COMP	9/1/24 12:00 AM
4102520	0000278024	ANALYZER DO AERATION BLOWER BLDG	PM	Inspection	3 MONTHS	Aeration DO Analyzer Insp (1y) 5529	CLOSE	9/1/24 12:00 AM
4102549	356646	LAB Autoclave	PM	Health and Safety	1 MONTHS	OG15 Facility OHSa Inspection (1m) 5529	CLOSE	9/1/24 12:00 AM
4102609	356646	LAB Autoclave	OPER	Compliance	1 MONTHS	WISKI Data Review (1m) 5529	CLOSE	9/1/24 12:00 AM

4102758	356646	LAB Autoclave	OPER	Compliance	1	MONTHS	Sampling and Testing (1m) 5529	CLOSE	9/1/24 12:00 AM
4108336	356646	LAB Autoclave	OPER	Compliance	1	YEARS	NPRI Report (1 year) 5529	CLOSE	9/1/24 12:00 AM
4115706			PM	Refurbish/Replacement/Repair	1	MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	COMP	9/1/24 12:00 AM
4115706			PM	Refurbish/Replacement/Repair	1	MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	COMP	9/1/24 12:00 AM
4115706			PM	Refurbish/Replacement/Repair	1	MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	COMP	9/1/24 12:00 AM
4115706			PM	Refurbish/Replacement/Repair	1	MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	COMP	9/1/24 12:00 AM
4115706			PM	Refurbish/Replacement/Repair	1	MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	COMP	9/1/24 12:00 AM
4115706			PM	Refurbish/Replacement/Repair	1	MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	COMP	9/1/24 12:00 AM
4115792			PM	Refurbish/Replacement/Repair	1	YEARS	Detritor Electric Heater Inspection Route (1y) 5529	COMP	9/1/24 12:00 AM
4115792			PM	Refurbish/Replacement/Repair	1	YEARS	Detritor Electric Heater Inspection Route (1y) 5529	COMP	9/1/24 12:00 AM
4115792			PM	Refurbish/Replacement/Repair	1	YEARS	Detritor Electric Heater Inspection Route (1y) 5529	COMP	9/1/24 12:00 AM
4118946	0000070305	COMPRESSOR GAS PRIMARY DIGESTER METHANE BOOSTER	PM	Inspection	1	MONTHS	Methane Gas Compressor Insp/Service	CLOSE	9/1/24 12:00 AM
4119108			PM	Inspection	1	MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	COMP	9/1/24 12:00 AM
4119108			PM	Inspection	1	MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	COMP	9/1/24 12:00 AM
4119108			PM	Inspection	1	MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	COMP	9/1/24 12:00 AM
4119108			PM	Inspection	1	MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	COMP	9/1/24 12:00 AM
4119108			PM	Inspection	1	MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	COMP	9/1/24 12:00 AM
4119369	0000278169	FILTER CARTRIDGE	PM	Inspection	1	MONTHS	Shop Boiler Water Filter	CLOSE	9/1/24 12:00 AM
4120130	0000278081	BLOWER CENTRIFUGAL B-301 TURBO AERATION	PM	Refurbish/Replacement/Repair	1	MONTHS	Turbo Blower Monthly Intake Filter Replacements (1m)	COMP	9/1/24 12:00 AM
4131529	336242	UV LIGHT BANK 1A	PM	Inspection	0		336242 UV LIGHT BANK 1A	COMP	9/1/24 12:00 AM
4131529	336242	UV LIGHT BANK 1A	PM	Inspection	0		336242 UV LIGHT BANK 1A	COMP	9/1/24 12:00 AM

						BANK 1A			
4131529	336242	UV LIGHT BANK 1A	PM	Inspection	0		336242 UV LIGHT BANK 1A	COMP	9/1/24 12:00 AM
4131536	336243	UV LIGHT BANK 1B	PM	Inspection	0		336243 UV LIGHT BANK 1B	COMP	9/1/24 12:00 AM
4141302	0000160029	PANEL CONTROL FUEL TRANSFER PUMP GEN RM BLOWER BLDG	CORR	Refurbish/Replacement/Repair	0		Trouble shot generator day tank not functioning properly	CLOSE	
4146106			PM	Refurbish/Replacement/Repair	0		Water Circulation pump #2 Digester boiler	CLOSE	
4152244	0000278028	AHU AIR HANDLING UNIT HVAC SYS INLET BLDG	PM	Refurbish/Replacement/Repair	1	MONTHS	Air Handling Unit Filter Change/Inspection (1m) 5529	COMP	10/1/24 12:00 AM
4152249	0000160515	METER FLOW METHANE GAS DIGESTER BUILDING	PM	Calibration	1	YEARS	Digester Gas Flowmeter Insp/Service (1y) 5529	COMP	10/1/24 12:00 AM
4152255	0000207018	METER LEVEL LIT-301 FERROUS CHLORIDE TANK 01 BLOWER BLDG	PM	Calibration	1	YEARS	Level Meter Lit 301 Chemical Insp/Service (1y) 5529	CLOSE	10/1/24 12:00 AM
4152260	0000207015	METER LEVEL LIT-302 FERROUS CHLORIDE TANK 02 BLOWER BLDG	PM	Calibration	1	YEARS	Level Meter Lit 302 Chemical Insp/Service (1y) 5529	CLOSE	10/1/24 12:00 AM
4152265	0000160345	PANEL ALARM/DIALER MAIN OFFICE	PM	Inspection	1	MONTHS	Alarm Dialer Testing (1m) 5529	CLOSE	10/1/24 12:00 AM
4152448			PM	Inspection	3	MONTHS	Supervisor Spot Checks	COMP	10/1/24 12:00 AM
4152448			PM	Inspection	3	MONTHS	Supervisor Spot Checks	COMP	10/1/24 12:00 AM
4152448			PM	Inspection	3	MONTHS	Supervisor Spot Checks	COMP	10/1/24 12:00 AM
4152448			PM	Inspection	3	MONTHS	Supervisor Spot Checks	COMP	10/1/24 12:00 AM
4152448			PM	Inspection	3	MONTHS	Supervisor Spot Checks	COMP	10/1/24 12:00 AM
4152448			PM	Inspection	3	MONTHS	Supervisor Spot Checks	COMP	10/1/24 12:00 AM
4152448			PM	Inspection	3	MONTHS	Supervisor Spot Checks	COMP	10/1/24 12:00 AM
4152450			PM	Inspection	1	MONTHS	PH Probe Insp/Calib	CLOSE	10/1/24 12:00 AM
4152455			OPER	Inspection	1	MONTHS	Daily O&M Activities Stratford WWTP (1m) 5529	COMP	10/1/24 12:00 AM
4152460			OPER	Inspection	1	MONTHS	TPM Insp/Maint Stratford WWTP (1m) 5529	COMP	10/1/24 12:00 AM
4152807	0000160037	ENGINE DIESEL STANDBY	PM	Inspection	1	MONTHS	Diesel Generator Monthly Running	CLOSE	10/1/24 12:00 AM
4153032			PM	Health and Safety	1	MONTHS	OG15 Facility OSHA Inspection (1m) 5529	COMP	10/1/24 12:00 AM

4153071			OPER	Compliance	1	MONTHS	WISKI Data Review (1m) 5529	COMP	10/1/24 12:00 AM
4153257			OPER	Compliance	1	MONTHS	Sampling and Testing (1m) 5529	COMP	10/1/24 12:00 AM
4158084	0000278100	MOTOR PROG CAV P201 RAW SLUDGE	PM	Refurbish/Repl ace/Repair	6	MONTHS	Raw Sludge Pump Motor Semi-Annual Inspection/Service (6m) 5529	COMP	10/1/24 12:00 AM
4165862			PM	Refurbish/Repl ace/Repair	1	MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	COMP	10/1/24 12:00 AM
4165862			PM	Refurbish/Repl ace/Repair	1	MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	COMP	10/1/24 12:00 AM
4165862			PM	Refurbish/Repl ace/Repair	1	MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	COMP	10/1/24 12:00 AM
4165862			PM	Refurbish/Repl ace/Repair	1	MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	COMP	10/1/24 12:00 AM
4165862			PM	Refurbish/Repl ace/Repair	1	MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	COMP	10/1/24 12:00 AM
4165862			PM	Refurbish/Repl ace/Repair	1	MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	COMP	10/1/24 12:00 AM
4165876	0000278148	VALVE BACKFLOW	PM	Refurbish/Repl	1	YEARS	Third Party Annual	COMP	10/1/24 12:00 AM
4168711	0000070305	COMPRESSOR GAS PRIMARY DIGESTER METHANE BOOSTER GAS PUMP RM	PM	Inspection	1	MONTHS	Methane Gas Compressor Insp/Service (1m/6m/1y) 5529	CLOSE	10/1/24 12:00 AM
4169224			PM	Inspection	1	MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	COMP	10/1/24 12:00 AM
4169224			PM	Inspection	1	MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	COMP	10/1/24 12:00 AM
4169224			PM	Inspection	1	MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	COMP	10/1/24 12:00 AM
4169224			PM	Inspection	1	MONTHS	BAR SCREEN INSPECTION/SERVICE	COMP	10/1/24 12:00 AM

				INSPECTION/SERVICE ROUTE (1m) 5529			
4169224			PM	Inspection	1 MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	COMP 10/1/24 12:00 AM
4169411	0000278169	FILTER CARTRIDGE HOT WATER MAINT SHOP	PM	Inspection	1 MONTHS	Shop Boiler Water Filter Cartridge Change (1m)	COMP 10/1/24 12:00 AM
4169626			PM	Compliance	3 MONTHS	WSER Quarterly Reporting (3m) 5529	CLOSE 10/1/24 12:00 AM
4169807			PM	Refurbish/Replace/Repair	2 MONTHS	Primary/Secondary Digester Doghouse	COMP 10/1/24 12:00 AM
4170238	0000278081	BLOWER CENTRIFUGAL B-301 TURBO AERATION	PM	Refurbish/Replace/Repair	1 MONTHS	Turbo Blower Monthly Intake Filter Replacements (1m)	COMP 10/1/24 12:00 AM
4171640			PM	Inspection	3 MONTHS	Fleet Vehicle Maintenance Checks (3m)	COMP 10/1/24 12:00 AM
4174331			PM	Refurbish/Replace/Repair	6 MONTHS	Digester Building Valve	COMP 10/1/24 12:00 AM
4174331			PM	Refurbish/Replace/Repair	6 MONTHS	Digester Building Valve Semi-Annual Exercising (6m) 5529	COMP 10/1/24 12:00 AM
4174331			PM	Refurbish/Replace/Repair	6 MONTHS	Digester Building Valve	COMP 10/1/24 12:00 AM
4174331			PM	Refurbish/Replace/Repair	6 MONTHS	Digester Building Valve Semi-Annual Exercising (6m) 5529	COMP 10/1/24 12:00 AM
4174331			PM	Refurbish/Replace/Repair	6 MONTHS	Digester Building Valve	COMP 10/1/24 12:00 AM
4174331			PM	Refurbish/Replace/Repair	6 MONTHS	Digester Building Valve Semi-Annual Exercising (6m) 5529	COMP 10/1/24 12:00 AM
4174331			PM	Refurbish/Replace/Repair	6 MONTHS	Digester Building Valve	COMP 10/1/24 12:00 AM
4174331			PM	Refurbish/Replace/Repair	6 MONTHS	Digester Building Valve Semi-Annual Exercising (6m) 5529	COMP 10/1/24 12:00 AM
4174331			PM	Refurbish/Replace/Repair	6 MONTHS	Digester Building Valve	COMP 10/1/24 12:00 AM
4174331			PM	Refurbish/Replace/Repair	6 MONTHS	Digester Building Valve Semi-Annual Exercising (6m) 5529	COMP 10/1/24 12:00 AM
4174331			PM	Refurbish/Replace/Repair	6 MONTHS	Digester Building Valve	COMP 10/1/24 12:00 AM
4174331			PM	Refurbish/Replace/Repair	6 MONTHS	Digester Building Valve Semi-Annual Exercising (6m) 5529	COMP 10/1/24 12:00 AM
4174331			PM	Refurbish/Replace/Repair	6 MONTHS	Digester Building Valve	COMP 10/1/24 12:00 AM
4174331			PM	Refurbish/Replace/Repair	6 MONTHS	Digester Building Valve Semi-Annual Exercising (6m) 5529	COMP 10/1/24 12:00 AM
4174331			PM	Refurbish/Replace/Repair	6 MONTHS	Digester Building Valve	COMP 10/1/24 12:00 AM
4174331			PM	Refurbish/Replace/Repair	6 MONTHS	Digester Building Valve Semi-Annual Exercising (6m) 5529	COMP 10/1/24 12:00 AM
4174331			PM	Refurbish/Replace/Repair	6 MONTHS	Digester Building Valve	COMP 10/1/24 12:00 AM
4174331			PM	Refurbish/Replace/Repair	6 MONTHS	Digester Building Valve Semi-Annual Exercising (6m) 5529	COMP 10/1/24 12:00 AM
4174331			PM	Refurbish/Replace/Repair	6 MONTHS	Digester Building Valve	COMP 10/1/24 12:00 AM
4174331			PM	Refurbish/Replace/Repair	6 MONTHS	Digester Building Valve Semi-Annual Exercising (6m) 5529	COMP 10/1/24 12:00 AM

4174331			PM	Refurbish/Replacement/Repair	6	MONTHS	Digester Building Valve Semi-Annual Exercising	COMP	10/1/24 12:00 AM
4174331			PM	Refurbish/Replacement/Repair	6	MONTHS	Digester Building Valve Semi-Annual Exercising	COMP	10/1/24 12:00 AM
4174331			PM	Refurbish/Replacement/Repair	6	MONTHS	Digester Building Valve Semi-Annual Exercising	COMP	10/1/24 12:00 AM
4182269	0000156110	METER FLOW FIT-500 FINAL EFFLUENT	PM	Calibration	1	YEARS	Meter Flow FIT-500 Final Effluent Calibration/Service (1y) 5529	COMP	10/1/24 12:00 AM
4182272	0000160229	METER FLOW 140 EFFLUENT MAINTENANCE SHOP ELECTRICAL ROOM	PM	Calibration	1	YEARS	Meter Flow 140 Effluent manit. Shop Calib/Service (1y) 5529	COMP	10/1/24 12:00 AM
4182275	0000160515	METER FLOW METHANE GAS DIGESTER BUILDING	PM	Calibration	1	YEARS	Meter Flow Methane Gas Digester Bldg Calib/Service (1y) 5529	COMP	10/1/24 12:00 AM
4182278	0000207004	METER FLOW FIT-130 MAIN PLANT FLOW	PM	Calibration	1	YEARS	Meter Flow FIT-130 Main Plant Calibration/Service (1y) 5529	COMP	10/1/24 12:00 AM
4182281	0000207005	METER FLOW FIT-120 PLANT BYPASS CCT BLDG	PM	Calibration	1	YEARS	Meter Flow Overflow Equalization Bldg Calib/Service(1y) 5529	COMP	10/1/24 12:00 AM
4182284	0000207013	METER FLOW 200 RAW SLUDGE	PM	Calibration	1	YEARS	Meter Flow 200 Raw Sludge Calibration/Service (1y) 5529	COMP	10/1/24 12:00 AM
4182287	0000207017	METER FLOW FIT-400 WAS SLUDGE RM BLOWER BLDG	PM	Calibration	1	YEARS	Meter Flow FIT-400 WAS RAS Room Calibration/Service (1y) 5529	COMP	10/1/24 12:00 AM
4182290	0000278156	METER FLOW FIT-410 RAS SLUDGE RM BLOWER BLDG	PM	Calibration	1	YEARS	Meter Flow FIT-410 RAS Bldg Calibration/Service (1y) 5529	COMP	10/1/24 12:00 AM
4182293	0000278215	METER FLOW FIT-140 PRIMARY EFFLUENT TO AERATION INLET	PM	Calibration	1	YEARS	Meter Flow FIT-140 Primary Effluent Calib/Service (1y) 5529	COMP	10/1/24 12:00 AM
4182296	0000278163	METER FLOW FE 802 HAULED SLUDGE	PM	Calibration	1	YEARS	Meter Flow FE-802 Hauled Sludge Calibrations (1y) 5529	COMP	10/1/24 12:00 AM
4182299	0000278185	METER FLOW SLUDGE HAULING DOGHOUSE	PM	Calibration	1	YEARS	Meter Flow Sludge Hauling Doghouse Calibrations (1y) 5529	COMP	10/1/24 12:00 AM
4182492			PM	Inspection	1	MONTHS	UV Light Insp/Clean/Service Route (1m) 5529	COMP	10/1/24 12:00 AM
4182492			PM	Inspection	1	MONTHS	UV Light Insp/Clean/Service Route (1m) 5529	COMP	10/1/24 12:00 AM
4192124			CORR	Refurbish/Replacement/Repair	0		fixed missing bench grinder eye guards 5529	CLOSE	
4196822	0000160325	FAN EXHAUST MAINTENANCE SHOP	CORR	Refurbish/Replacement/Repair	0		Replaced faulty exhaust fan in garage 5529	CLOSE	
4197030			ADMIN	Inspection	0		Stratford, Black Creek, St Pauls ESA Inspections	CLOSE	
4197324	0000396974	FAN EXHAUST 310 CHEMICAL RM ROOF BLOWER BLDG	CORR	Refurbish/Replacement/Repair	0		faulty exhaust fan with disintegrated impeller rebuild 5529	CLOSE	

4201716	0000278028	AHU AIR HANDLING UNIT HVAC SYS INLET BLDG	PM	Refurbish/Replacement/Repair	1	MONTHS	Air Handling Unit Filter Change/Inspection (1m) 5529	COMP	11/1/24 12:00 AM
4201718	0000160241	ANALYZER 01 GAS TRI DETECTOR SHOP ELECTRICAL ROOM	PM	Inspection	6	MONTHS	Third-Party Gas Detector Group Insp/Calib (6m) 5529	COMP	11/1/24 12:00 AM
4201718	0000160241	ANALYZER 01 GAS TRI DETECTOR SHOP ELECTRICAL ROOM	PM	Inspection	6	MONTHS	Third-Party Gas Detector Group Insp/Calib (6m) 5529	COMP	11/1/24 12:00 AM
4201718	0000160241	ANALYZER 01 GAS TRI DETECTOR SHOP ELECTRICAL ROOM	PM	Inspection	6	MONTHS	Third-Party Gas Detector Group Insp/Calib (6m) 5529	COMP	11/1/24 12:00 AM
4201721	0000160345	PANEL ALARM/DIALER MAIN OFFICE	PM	Inspection	1	MONTHS	Alarm Dialer Testing (1m) 5529	COMP	11/1/24 12:00 AM
4201726	0000160311	PUMP GRINDER GDR-201 RAW SLUDGE BASEMENT	PM	Refurbish/Replacement/Repair	1	YEARS	Raw Sludge Grinder 201 Insp/Service (1y) 5529	COMP	11/1/24 12:00 AM
4201727	0000160313	PUMP CENT 202 GRINDER SLUDGE	PM	Refurbish/Replacement/Repair	1	YEARS	Raw Sludge Grinder 202 Insp/Service (1y) 5529	COMP	11/1/24 12:00 AM
4201883			PM	Inspection	1	MONTHS	PH Probe Insp/Calib (1m) 5529	COMP	11/1/24 12:00 AM
4201888			OPER	Inspection	1	MONTHS	Daily O&M Activities Stratford WWTP (1m) 5529	COMP	12/3/24 12:00 AM
4201893			OPER	Inspection	1	MONTHS	TPM Insp/Maint Stratford WWTP (1m) 5529	COMP	11/1/24 12:00 AM
4202507	0000278077	PUMP SUBMERSIBLE 104 RAW SEWAGE	PM	Refurbish/Replacement/Repair	6	MONTHS	Raw Sewage Pump 104 Insp/Service (6m/1y/5y) 5529	COMP	11/1/24 12:00 AM
4202508			PM	Compliance	1	YEARS	OG35 FEP Review (1y) 5529	COMP	11/1/24 12:00 AM
4202543			PM	Health and Safety	1	MONTHS	OG15 Facility OSHA Inspection (1m) 5529	COMP	11/1/24 12:00 AM
4202586			OPER	Compliance	1	MONTHS	WISKI Data Review (1m) 5529	COMP	11/1/24 12:00 AM
4202756			OPER	Compliance	1	MONTHS	Sampling and Testing (1m) 5529	COMP	11/1/24 12:00 AM
4207120	0000278101	PUMP PROG CAV P-201 PRIMARY SLUDGE BASEMENT	PM	Refurbish/Replacement/Repair	1	YEARS	Raw Sludge Pump P201 Insp/Service (1y) 5529	COMP	11/1/24 12:00 AM
4213607			PM	Refurbish/Replacement/Repair	1	MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	COMP	11/1/24 12:00 AM

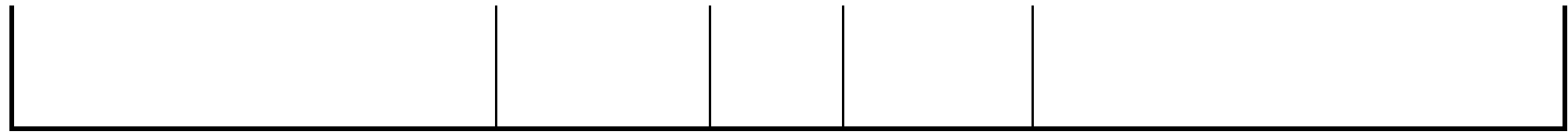
4213607			PM	Refurbish/Replacement/Repair	1 MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	COMP	11/1/24 12:00 AM
4213607			PM	Refurbish/Replacement/Repair	1 MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	COMP	11/1/24 12:00 AM
4213607			PM	Refurbish/Replacement/Repair	1 MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	COMP	11/1/24 12:00 AM
4213607			PM	Refurbish/Replacement/Repair	1 MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	COMP	11/1/24 12:00 AM
4213682	0000278114	PUMP PROG CAV P-202 PRIMARY SLUDGE BASEMENT	PM	Refurbish/Replacement/Repair	1 YEARS	Raw Sludge Pump P202 Sludge Insp/Service (1y) 5529	COMP	11/1/24 12:00 AM
4215620	0000070305	COMPRESSOR GAS PRIMARY DIGESTER METHANE BOOSTER GAS PUMP RM	PM	Inspection	1 MONTHS	Methane Gas Compressor Insp/Service (1m/6m/1y) 5529	COMP	11/1/24 12:00 AM
4215786			PM	Inspection	1 MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	COMP	11/1/24 12:00 AM
4215786			PM	Inspection	1 MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	COMP	11/1/24 12:00 AM

4215786			PM	Inspection	1 MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	COMP	11/1/24 12:00 AM
4215786			PM	Inspection	1 MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	COMP	11/1/24 12:00 AM
4215786			PM	Inspection	1 MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	COMP	11/1/24 12:00 AM
4216266	0000278169	FILTER CARTRIDGE HOT WATER MAINT SHOP	PM	Inspection	1 MONTHS	Shop Boiler Water Filter Cartridge Change (1m) 5529	COMP	11/1/24 12:00 AM
4216419			PM	Compliance	3 MONTHS	MECP Overflow & Bypass Event Summary Report (3m) 5529	COMP	11/1/24 12:00 AM
4216851	0000278081	BLOWER CENTRIFUGAL B-301 TURBO AERATION	PM	Refurbish/Replacement/Repair	1 MONTHS	Turbo Blower Monthly Intake Filter Replacements (1m)	COMP	11/1/24 12:00 AM
4226598			PM	Inspection	1 MONTHS	UV Light Insp/Clean/Service Route (1m) 5529	COMP	11/1/24 12:00 AM
4226598			PM	Inspection	1 MONTHS	UV Light Insp/Clean/Service Route (1m) 5529	COMP	11/1/24 12:00 AM
4237019			CAP	Refurbish/Replacement/Repair	0	Valve Replacements-Install	COMP	
4243654	0000160345	PANEL ALARM/DIALER MAIN OFFICE	PM	Inspection	1 MONTHS	Alarm Dialer Testing (1m) 5529	COMP	12/1/24 12:00 AM
4243816			PM	Inspection	1 MONTHS	PH Probe Insp/Calib (1m) 5529	BUSCOMP	12/1/24 12:00 AM

4243821			OPER	Inspection	1	MONTHS	Daily O&M Activities Stratford WWTP (1m) 5529	COMP	12/1/24 12:00 AM
4243826			OPER	Inspection	1	MONTHS	TPM Insp/Maint Stratford WWTP (1m) 5529	BUSCOMP	12/1/24 12:00 AM
4244195	0000160037	ENGINE DIESEL STANDBY GENERATOR BLOWER BLDG	PM	Inspection	1	MONTHS	Diesel Generator Monthly Running Checks Insp/Test (1m) 5529	COMP	12/1/24 12:00 AM
4244417	0000278024	ANALYZER DO AERATION BLOWER BLDG	PM	Inspection	3	MONTHS	Aeration DO Analyzer Insp (1y) 5529	COMP	12/1/24 12:00 AM
4244428			PM	Health and Safety	1	YEARS	Confined Space Hazard Assessment Review	COMP	12/1/24 12:00 AM
4244428			PM	Health and Safety	1	YEARS	Confined Space Hazard Assessment Review	COMP	12/1/24 12:00 AM
4244428			PM	Health and Safety	1	YEARS	Confined Space Hazard Assessment Review	COMP	12/1/24 12:00 AM
4244428			PM	Health and Safety	1	YEARS	Confined Space Hazard Assessment Review	COMP	12/1/24 12:00 AM
4244428			PM	Health and Safety	1	YEARS	Confined Space Hazard Assessment Review	COMP	12/1/24 12:00 AM
4244428			PM	Health and Safety	1	YEARS	Confined Space Hazard Assessment Review	COMP	12/1/24 12:00 AM
4244428			PM	Health and Safety	1	YEARS	Confined Space Hazard Assessment Review	COMP	12/1/24 12:00 AM
4244428			PM	Health and Safety	1	YEARS	Confined Space Hazard Assessment Review	COMP	12/1/24 12:00 AM
4244448			PM	Health and Safety	1	MONTHS	OG15 Facility OSHA Inspection (1m) 5529	COMP	12/1/24 12:00 AM
4244493			OPER	Compliance	1	MONTHS	WISKI Data Review (1m) 5529	COMP	12/1/24 12:00 AM
4244633			OPER	Compliance	1	MONTHS	Sampling and Testing (1m) 5529	COMP	12/1/24 12:00 AM
4250258			PM	Inspection	6	MONTHS	Actuator Electric Inspection/Service Route (6m/1y) 5529	COMP	12/1/24 12:00 AM
4250258			PM	Inspection	6	MONTHS	Actuator Electric Inspection/Service Route (6m/1y) 5529	COMP	12/1/24 12:00 AM
4250258			PM	Inspection	6	MONTHS	Actuator Electric Inspection/Service Route (6m/1y) 5529	COMP	12/1/24 12:00 AM

4250258			PM	Inspection	6	MONTHS	Actuator Electric Inspection/Service Route (6m/1y) 5529	COMP	12/1/24 12:00 AM
4250258			PM	Inspection	6	MONTHS	Actuator Electric Inspection/Service Route (6m/1y) 5529	COMP	12/1/24 12:00 AM
4250258			PM	Inspection	6	MONTHS	Actuator Electric Inspection/Service Route (6m/1y) 5529	COMP	12/1/24 12:00 AM
4250258			PM	Inspection	6	MONTHS	Actuator Electric Inspection/Service Route (6m/1y) 5529	COMP	12/1/24 12:00 AM
4250258			PM	Inspection	6	MONTHS	Actuator Electric Inspection/Service Route (6m/1y) 5529	COMP	12/1/24 12:00 AM
4255786			PM	Refurbish/Replacement/Repair	1	MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	COMP	12/1/24 12:00 AM
4255786			PM	Refurbish/Replacement/Repair	1	MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	COMP	12/1/24 12:00 AM
4255786			PM	Refurbish/Replacement/Repair	1	MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	COMP	12/1/24 12:00 AM
4255786			PM	Refurbish/Replacement/Repair	1	MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	COMP	12/1/24 12:00 AM
4255786			PM	Refurbish/Replacement/Repair	1	MONTHS	Primary Clarifier Insp/Service Route (1m/1y) 5529	COMP	12/1/24 12:00 AM
4255831	0000278115	SAMPLER AUTOMATIC RAW SEWAGE INLET FLEC	PM	Refurbish/Replacement/Repair	1	YEARS	Raw Sewage Auto Sampler Annual Inspection (1y) 5529	COMP	12/1/24 12:00 AM
4257927			PM	Inspection	1	MONTHS	BAR SCREEN INSPECTION/SERVICE	COMP	12/1/24 12:00 AM

						INSPECTION/SERVICE ROUTE (1m) 5529		
4257927			PM	Inspection	1	MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	COMP 12/1/24 12:00 AM
4257927			PM	Inspection	1	MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	COMP 12/1/24 12:00 AM
4257927			PM	Inspection	1	MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	COMP 12/1/24 12:00 AM
4257927			PM	Inspection	1	MONTHS	BAR SCREEN INSPECTION/SERVICE ROUTE (1m) 5529	COMP 12/1/24 12:00 AM
4258115	0000278169	FILTER CARTRIDGE HOT WATER MAINT SHOP	PM	Inspection	1	MONTHS	Shop Boiler Water Filter Cartridge Change (1m) 5529	COMP 12/1/24 12:00 AM
4258674	0000278081	BLOWER CENTRIFUGAL B-301 TURBO AERATION BLOWER BLDG	PM	Refurbish/Repl ace/Repair	1	MONTHS	Turbo Blower Monthly Intake Filter Replacements (1m) 5529	COMP 12/1/24 12:00 AM
4276508	0000356646	LAB FURNACE HEAT TREATING ADMIN BLDG	OPER	Refurbish/Repl ace/Repair	0		Replacement of Muffle Furnace- Stratford.	COMP
4278529			PM	Inspection	1	MONTHS	UV Light Insp/Clean/Service Route (1m) 5529	COMP 12/12/24 12:00 AM
4278529			PM	Inspection	1	MONTHS	UV Light Insp/Clean/Service Route (1m) 5529	COMP 12/12/24 12:00 AM
4278529			PM	Inspection	1	MONTHS	UV Light Insp/Clean/Service Route (1m) 5529	COMP 12/12/24 12:00 AM
4278871			PM	Compliance	1	YEARS	Sampling Calendar Review (1y) 5529	COMP 12/15/24 12:00 AM
4279351			EMER	Refurbish/Repl ace/Repair	0		Lift Station Network Communication Loss 5529	COMP



Appendix D

Calibration Reports

(Appendices can be provided upon request to Clerk's Office)



Pierce Services
& Solutions Inc.

519.820.4853 Fax 519.824.9402

Instrument Verification Sheet

Client Name: Ontario Clean Water Agency

Date: October 28, 2024

Equipment Description: Flow Transmitter

Assigned Number: FIT 200

Area Located: Stratford

Asset Number: 0000207013

Instrument Data

Manufacturer: ABB

Model Number: FET325-1AOP1B3CO

Type: Mag Meter

Serial Number: 240111976/Y073

Range: 0-50 l/s

Accuracy: +/- 5%

Method Of Calibration: Standard Verification

Application: Waste Water

Calibration Data

Input %	Input	Theoretical	As Found	Pass/Fail
0	0	0.00 l/s	0.00 l/s	
10	10	5.00 l/s	5.00 l/s	Pass
20	20	10 l/s	10.00 l/s	Pass
15.25	8.23 l/s	8.23 l/s	8.23 l/s	Pass

Confirmed Run Mode: ✓

Placed back in service: ✓

Comments:

Verification of Original Calibration Only



SP =79

REF=62790

SM=33116

SM=35137

AMP=8

DCc=0

EV1=0mV

EV2=0mV

Checked By: Greg Pierce CCST

Signature:



Pierce Services
& Solutions Inc.

519.820.4853

Instrument Verification Sheet

Client Name: Ontario Clean Water Agency

Date: October 28, 2024

Equipment Description: Flow Transmitter

Assigned Number: FIT 410

Area Located: Stratford

AMMS Number: 0000278156

Instrument Data

Manufacturer: Endress & Hauser

Model Number: 5W4C6H-53A9/0

Type: Mag

Serial Number: N4097C16000

Range: 0-1750 M3/HR

Accuracy: +/- 5%

Method Of Calibration: Standard Verification

Application: Waste Water

Calibration Data

Input %	Input	As Found	As Left	Pass/Fail
0	4.00 mA	0.00 m3/hr	0.00 l/s	Pass
25	8.00 mA	437.5 m3/hr	437.5 m3/hr	Pass
53	12.48 mA	927.56 m3/hr	927.56 m3/hr	Pass
75	16.00 mA	1312.5 m3/hr	1312.5 m3/hr	Pass
100	20.00 mA	1750 m3/hr	1750 m3/hr	Pass
52.8	12.44 mA	929.27 m3/hr	923.37 m3/hr	Pass

Confirmed Run Mode:

Placed back in service:

Comments:

Verification of original calibration only



20"

Checked By: Greg Pierce CCST

Signature: 



Pierce Services
& Solutions Inc.

519.820.4853

Instrument Verification Sheet

Client Name: Ontario Clean Water Agency

Date: October 28, 2024

Equipment Description: Hand Held Turbidimeter

Assigned Number: HH 8

Area Located: Stratford

Asset Number: 000336246

Instrument Data

Manufacturer: Hach

Model Number: 2100 Q

Part Number: LPG 439.01.00002

Serial Number: 23090D000614

Range: 0 - 8.00 NTU

Accuracy: +/- 5%

Method Of Calibration: Standard Verification

Application: Water

Calibration Data

Input %	Input	As Found	As Left	Pass/Fail
	0.1 NTU	0.1 NTU	0.1 NTU	
	20 NTU	19.8 NTU	20.1 NTU	
	100 NTU	99.4 NTU	100.1 NTU	
	800 NTU	798 NTU	800 NTU	
	10.0 NTU	10.1 NTU	10.1 NTU	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

Instrument Verification Sheet

Client Name: Ontario Clean Water Agency

Date: October 28, 2024

Equipment Description: Hand Held Chlorine Analyzer

Assigned Number: 5

Area Located: Stratford

Asset Number: 0000278076

Instrument Data

Manufacturer: Hach

Model Number: DR 300

Part Number: LG 445.99.00000

Serial Number: 22020 B001988

Range: 0 - 5.00 mg/l

Accuracy: +/- 5%

Method Of Calibration: Standard Verification

Application: Water

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

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: October 28, 2024

Equipment Description: DO Probe

Assigned Number: 2

Area Located: Stratford

Asset Number: 000278164

Instrument Data

Manufacturer: Hach

Model Number: HQ40d

Part Number: HQ40d

Serial Number: 110600055966

Range: 0 - 14

Accuracy: +/- 5%

Method Of Calibration: Standard Verification

Application: Waste Water

Calibration Data

Input %	Input	As Found	As Left	Pass/Fail
	4.01	4.14	4.01	Pass
	7	6.79	7.01	Pass
	10.02	9.49	10.01	Pass
	9.10mg/l	9.10 mg/l	9.10 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.

Instrument Verification Sheet

519.824.4853

Client Name: OCWA Stratford

Date: October 28, 2024

Equipment Description: Differential Pressure Transmitter

Assigned Number: FIT 101

Area Located: Stratford WPCP Digester Gas Room

Drawing Number: N/A

Instrument Data

Manufacturer: Fischer Porter

Model Number: 2408-30B-211

Type: Differential Pressure

Serial Number: 87A 1287

Range: 3 in - 20 in WTR

Accuracy: +/- 5%

Method Of Calibration: Fluke 719

Application: Methane Gas

Calibration Data

Input %	Input	As Found	As Left	Pass/Fail
		PSI .31 low		Pass
		PSI .59 High	520 w3/day	Pass
0%	4.00 mA	4.00 mA	4 mA	
100%	20.00 mA	20.00 mA	20 mA	
0.60%	Actual	4.61 mA	4.61 mA	Pass

Confirmed Run Mode:



Comments:

Checked By: Greg Pierce CCST

Signature:



519-824-4853

Client Name: OCWA Stratford

Date: October 28, 2024

Equipment Description: Flow Meter

Assigned Number: FIT 802

Area Located: Stratford WPCP Sludge Pump Room

Drawing Number: N/A

Instrument Data

Manufacturer: ABB

Model Number: FEW 315150H1S1A1B1A1A0P1B3A1

Type: Mag Meter 6"

Serial Number: 3K620000239452

Range: 0 - 80 l/s

Accuracy: +/- 1%

Method Of Calibration: Standard Verification

Application: Sludge

Calibration Data

Input %	Input	As Found	As Left	Pass/Fail
0%	0 mA	0 l/s	0 l/s	Pass
25%	8 mA	20 l/s	20 l/s	Pass
50%	12 mA	40 l/s	40 l/s	Pass
75%	16 mA	60 l/s	60 l/s	Pass
100%	20 mA	80 l/s	80 l/s	Pass

Confirmed Run Mode:



Comments:

No Alarms

No Flow, Electrical Calibration Only

E1 - 15.54 K Ω

E12 - 0.033 \sqrt

E2 - 0.42 K Ω


CD1 - 179.93 mA

E1 - 0.308 \sqrt

CD2 - 33.87 Ω

E2 - 0.275 \sqrt

Signature: _____


Greg Pierce, CCST



Pierce Services
& Solutions Inc.

Instrument Verification Sheet

519-820-4853

Client Name: OCWA Stratford

Date: October 28, 2024

Equipment Description: Sludge Room

Assigned Number: FIT 801

Area Located: Stratford WPCP Dog House Day Bed

Drawing Number: N/A

Instrument Data

Manufacturer: Krohne

Model Number: Enviro Mag 2100 C

Type: Mag Meter 6"

Serial Number: C18503459

Range: 0 - 63.09 l/s

Accuracy: +/- 5%

Method Of Calibration: Standard Verification

Application: Sludge

Calibration Data

Input %	Input	As Found	As Left	Pass/Fail
0%	4 mA	0 l/s	0 l/s	
25%	8 mA	15.77 l/s	15.77 l/s	
50%	12 mA	31.55 l/s	31.55 l/s	
75%	16 mA	47.32 l/s	47.32 l/s	
100%	20 mA	63.09 l/s	63.09 l/s	

Confirmed Run Mode:

Comments:



NO FLOW, ELECTRICAL CALIBRATION ONLY

Coil Temp 222.5 F

Electrical Temp - 6.5 F

Continuity .219 ms/cm

Coil Resistance 80.5 Ohm

Signature: _____

Greg Pierce, CCST



Pierce Services
& Solutions Inc.

Instrument Verification Sheet

519.820.4853

Client Name: Ontario Clean Water Agency

Date: October 28, 2024

Equipment Description: Flow Transmitter

Assigned Number: FIT 140

Area Located: Stratford

Asset Number: 0000160229

Instrument Data

Manufacturer: ABB

Model Number: FEW325500K1D4A1B1A1A3P2B3A1

Type: Mag 600 mm

Serial Number: 3K672525091446

Range: 0-4100 m3/hr

Accuracy: +/- 5%

Method Of Calibration: Standard Verification

Application: Waste Water

Calibration Data

Input %	Input	Theoretical	As Found	Pass/Fail
0	4.00 mA	0.00 m3/hr	0.00 m3/hr	Pass
25	8.00 mA	1025 m3/hr	1025 m3/hr	Pass
50	12.00 mA	2050 m3/hr	2050 m3/hr	Pass
75	16.00 mA	3075 m3/hr	3075 m3/hr	Pass
100	20.00 mA	4100 m3/hr	4100 m3/hr	Pass
17.91	6.866 m3/hr	734.39 m3/hr	734.39 m3/hr	Pass

Confirmed Run Mode:

Placed back in service:

Comments:

Verification of original calibration only



V - 1.0058

E1 - 0.16 kΩ

E2 - 0.16 kΩ

E1 - 0.001 V

E2 - -0.001 V

E12 - -0.046 V

CDI - 179.92 mA

CDR - 47.85 Ω

Checked By: Greg Pierce CCST

Signature: 



Pierce Services
& Solutions Inc.

519.820.4853

Instrument Verification Sheet

Client Name: Ontario Clean Water Agency

Date: October 28, 2024

Equipment Description: Flow Transmitter

Assigned Number: FIT 502

Area Located: Stratford

Asset Number: 0000156110

Instrument Data

Manufacturer: Siemens

Model Number: LUT 400

Serial Number: PBD-R3014000

Type: Ultrasonic

Flume/Weir Type: sharp Crested Multi Weir

Range: 0-1300 m3/hr

Accuracy: +/- 5%

Method Of Calibration: Standard Verification

Application: Waste Water

Calibration Data

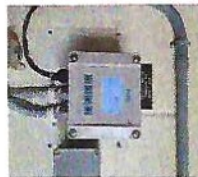
Input %	Input	Theoretical	As Found	Pass/Fail
0	0.0 cm	0.00 l/s	0.00 l/s	
	1 cm	67.5 l/s	67.58 l/s	Pass
	1.5 cm	124.00 l/s	124.48 l/s	Pass
	2 cm	190.92 l/s	191.16 l/s	Pass
	2.5 cm	266.82 l/s	267.32 l/s	Pass
	3.8 cm	500 l/s	500 l/s	Pass
	2.2 cm	201 l/s	201 l/s	Pass

Confirmed Run Mode: ✓

Placed back in service: ✓

Comments:

Confirmed with Isco Open Channel Flow



Handbook (sixth edition)

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: October 28, 2024

Equipment Description: Flow Transmitter

Assigned Number: FIT 130

Area Located: Stratford

Asset Number: 000207004

Instrument Data

Manufacturer: Siemens

Model Number: OCM III

Type: Ultrasonic

Flume/Weir Type: Sharp Crested 6m

Range: 0-1771.0 m3/hr

Accuracy: +/- 5%

Method Of Calibration: Standard Verification

Application: Waste Water

Calibration Data

Input %	Input	Theoretical	As Found	Pass/Fail
0	0.0 cm	0.00 l/s	0.00 l/s	
	3 cm	206.248 m3/hr	206.248 m3/hr	Pass
	6 cm	583.358 m3/hr	583.358 m3/hr	Pass
	9 cm	1071.70 m3/hr	1071.70 m3/hr	Pass
	12 cm	1612.00 m3/hr	1649.48 m3/hr	Pass
30.9	5.27 cm	548.15 m3/hr	548.15 m3/hr	Pass

Confirmed Run Mode:

Placed back in service:

Comments:

Confirmed with Isco Open Channel Flow



Handbook (sixth edition)

Checked By: Greg Pierce CCST

Signature: _____



#	Parameter	Value	#	Parameter	Value
P0	Language	0	D0	Head	5.27
P1	Dimensional Units	0	D1	Flow Rate	548.56
P2	Temperature Units	0	D2	Short Total	29288.16
P3	Primary Element	0	D3	Maximum Flow Rate	4004.5
P4	Method of Calculation	1	D4	Minimum Flow Rate	69.50434
P5	Flow Rate Units	6	D5	Temperature	9
P6	Flow at Maximum Head	1771	D6	Maximum Temperature	25.36
P7	Height of Maximum Head	12.57979	D7	Minimum Temperature	-5.00
P8	Volts in at Zero Velocity	-	D8	Velocity	-
P9	Velocity at 5 Volts In	-	D9	Nominal Target Range	84
P10	Velocity at maximum flow	-	D10	Analog Milliamps	8.35
P13	Display Damping	0	D11	Internal DC Volts	29.99
P14	Display Lighting	0	D12	Velocity Volts	-
P15	Relay 1 Assignment	0	D13	Auxiliary Input Volts	0.00
P16	Relay 1 High Set Point	-	D14	Temperature Sensor Ohms	11033
P17	Relay 1 Low Set Point	-	D15	Self-test Checksum	0000H
P18	Relay 2 Assignment	0	D16	Restarts	1013
P19	Relay 2 High Set Point	-	D17	Exceptions	0
P20	Relay 2 Low Set Point	-	D18	Valid Echoes per 100	100
P21	Relay 3 Assignment	0			
P22	Relay 3 High Set Point	-			
P23	Relay 3 Low Set Point	-			
P24	mA assignment	0	F2	Run Mode l/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	4004.3
P29	Fail-safe Time	60		Time	03:13:21
P30	Fail-safe Analog Mode	0		Date	2026-02-24
P31	Fail-safe Analog mA	0		Min Flow	6.05
P32	Totalizer Multiplier	3		Time	07:57:33
P33	Flow Rate Display	1		Date	23-05-24
P34	Printer Mode	0		Max Temperature	25.36
P35	Printer Timing	-		Time	13:20:26
P36	Measurement Interval	0		Date	2001-08-24
P37	Serial Data Rate	5		Min Temperature	-4.99
P38	Site Number	0		Time	22:46:06
P39	Data Logging Rate	2		Date	19-01-24
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	89.36641			
P47	Blanking Distance	30.48264			
U0	Exponent	1.5			



Pierce Services
& Solutions Inc.

519.820.4853 Fax 519.824.9402

Instrument Verification Sheet

Client Name: Ontario Clean Water Agency

Date: October 28, 2024

Equipment Description: Flow Transmitter

Assigned Number: FIT Bypass

Area Located: Stratford

Asset Number: 0000207205

Instrument Data

Manufacturer: Siemens

Model Number: OCM III

Serial Number: PDB/V130175

Type: Ultrasonic

Flume/Weir Type: Rectangular Weir
With End Contractions

Range: 0-15633 l/s

Accuracy: +/- 5%

Method Of Calibration: Standard Verification

Application: Waste Water

Calibration Data

Input %	Input	Theoretical	As Found	Pass/Fail
0	0.0 cm	0.00 l/s	0.00 l/s	
	5 cm	1365.3 l/s	1365.367 l/s	Pass
	10 cm	3861.9 l/s	3861.842 l/s	Pass
	15 cm	7094.7 l/s	7094.657 l/s	Pass
	20 cm	10922.9 l/s	10922.93 l/s	Pass
	25 cm	15265.3 l/s	15265.27 l/s	Pass

Confirmed Run Mode:

Placed back in service:


Comments:

Confirmed with Isco Open Channel Flow



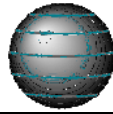
Handbook (sixth edition)

Checked By: Greg Pierce CCST

Signature: 



#	Parameter	Value	#	Parameter	Value
P0	Language	0	D0	Head	-364.80
P1	Dimensional Units	0	D1	Flow Rate	0
P2	Temperature Units	0	D2	Short Total	736024
P3	Primary Element	0	D3	Maximum Flow Rate	28626.53
P4	Method of Calculation	1	D4	Minimum Flow Rate	0
P5	Flow Rate Units	6	D5	Temperature	10.53
P6	Flow at Maximum Head	15633.09	D6	Maximum Temperature	100.89
P7	Height of Maximum Head	25.39999	D7	Minimum Temperature	-9.83
P8	Volts in at Zero Velocity	-	D8	Velocity	-
P9	Velocity at 5 Volts In	-	D9	Nominal Target Range	485
P10	Velocity at maximum flow	-	D10	Analog Milliamps	4.00
P13	Display Damping	0	D11	Internal DC Volts	29.99
P14	Display Lighting	0	D12	Velocity Volts	-
P15	Relay 1 Assignment	0	D13	Auxiliary Input Volts	0.01
P16	Relay 1 High Set Point	-	D14	Temperature Sensor Ohms	10839
P17	Relay 1 Low Set Point	-	D15	Self-test Checksum	0000H
P18	Relay 2 Assignment	0	D16	Restarts	719
P19	Relay 2 High Set Point	-	D17	Exceptions	0
P20	Relay 2 Low Set Point	-	D18	Valid Echoes per 100	32
P21	Relay 3 Assignment	0			
P22	Relay 3 High Set Point	-			
P23	Relay 3 Low Set Point	-			
P24	mA assignment	0	F2	Run Mode l/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	28626.53
P29	Fail-safe Time	60		Time	7:42:36
P30	Fail-safe Analog Mode	0		Date	03-02-23
P31	Fail-safe Analog mA	0		Min Flow	0
P32	Totalizer Multiplier	3		Time	7:03:03
P33	Flow Rate Display	2		Date	03-11-22
P34	Printer Mode	0		Max Temperature	100.88
P35	Printer Timing	-		Time	10:59:02
P36	Measurement Interval	0		Date	02-06-23
P37	Serial Data Rate	5		Min Temperature	-9.92
P38	Site Number	0		Time	21:26:45
P39	Data Logging Rate	2		Date	21:03:24
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	118.745			
P47	Blanking Distance	61.01694			
U0	Exponent	1.522			



CERTIFICATE NUMBER: 10242024-1

CUSTOMER	OCWA Stratford WWTP
ADDRESS PHONE	701 West Gore St. Stratford Ont. N5A-1L4 (519)271-9071
REQUESTED BY	Jeremy Schutt

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 48A1239				
STANDARD	0.00 PPM	9.5PPM @ 18.0°C	0.00PPM	9.5PPM @ 18.0°C
		AS FOUND		AS LEFT
Plant 1				
PROBE 1 S/N 10S6021 D.O.	0.00	9.4	0.00	9.5
DELTA	0.00	0.1	0	0
PASS/FAIL/COMMENTS	PASS	PASS	PASS	PASS
STANDARD	0.00 PPM	9.5PPM @ 18.4°C	0.00PPM	9.5PPM @ 18.4°C
		AS FOUND		AS LEFT
PROBE 2 S/N 10S6196 DO	0.00	9.2	0.00	9.5
DELTA	0.00	0.3	0	0
PASS/FAIL/COMMENTS	PASS	PASS	PASS	PASS
STANDARD	0.00 PPM	9.4PPM @ 18.6°C	0.00PPM	9.4PPM @ 18.6°C
		AS FOUND		AS LEFT
PROBE 2 S/N 10S6198 DO	0.00	13.1	0.00	9.4
DELTA	0.00	3.7	0	0
PASS/FAIL/COMMENTS	PASS	FAIL	PASS	PASS
STANDARD	0.00 PPM	9.4PPM @ 18.7°C	0.00PPM	9.4PPM @ 18.7°C
		AS FOUND		AS LEFT
PROBE 2 S/N 10S10058 DO	0.20	9.1	0.00	9.4
DELTA	0.20	0.3	0	0
PASS/FAIL/COMMENTS	PASS	PASS	PASS	PASS

REFERENCE STANDARDS

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 STRATFORD HUB
701 West Gore Street
Raw sewage plant
STRATFORD, ON N5A 1L4

Make/ Model: 4000-0000 MSA ULTIMA X LEL
Serial Number: 104-1667488-20-001
Calibration Date: Dec 23 2024 9:00AM - CC-JE
Calibrated by: Jordan Eckel
Service Order#: 122795

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?	Yes
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.

122795 Task #2
Signed By: Jordan Eckel
on Mon December 23 2024 12:

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

Technician Signature

2085 Piper Lane
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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 STRATFORD HUB
701 West Gore Street
Raw sewage plant
STRATFORD, ON N5A 1L4

Make/ Model: 4250-0000 ARMSTRONG AMC-1022
Serial Number: 12201285
Calibration Date: Dec 23 2024 9:00AM - CC-JE
Calibrated by: Jordan Eckel
Service Order#: 122795

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?	Yes
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.

122795 Task #3
Signed By: Jordan Eckel
on Mon December 23 2024 12:27

2085 Piper Lane
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Tel: (709) 368-9000

Customer: OCWA STRATFORD HUB
701 West Gore Street
Raw sewage plant
STRATFORD, ON N5A 1L4

Make/ Model: 4250-0000 ARMSTRONG AMC-1022
Serial Number: 12201286
Calibration Date: Dec 23 2024 9:00AM - CC-JE
Calibrated by: Jordan Eckel
Service Order#: 122795

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	47.5	LEL Methane (CH4) Lot: 304-402677920-1 (50% LEL, Balance Air 20.9)	Yes

Other Information:

Are relays working?	Yes
Are internal alarms working?	Yes
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.

122795 Task #4
Signed By: Jordan Eckel
on Mon December 23 2024 12:28

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A1L 0A7
Tel: (709) 368-9000

Customer: OCWA STRATFORD HUB
701 West Gore Street
Raw sewage plant
STRATFORD, ON N5A 1L4

Make/ Model: 4250-0000 ARMSTRONG AMC-1022 Methane
Serial Number: 12201287
Calibration Date: Dec 23 2024 9:00AM - CC-JE
Calibrated by: Jordan Eckel
Service Order#: 122795

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?	Yes
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.

122795 Task #5
Signed By: Jordan Eckel
on Mon December 23 2024 12:27

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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 STRATFORD HUB
701 West Gore Street
Raw sewage plant
STRATFORD, ON N5A 1L4

Make/ Model: 7500-0000 PS200 (LEL/O2/CO/H2S) w/pump
Serial Number: 368812
Calibration Date: May 31 2024 12:00PM - CC-JE
Calibrated by: Jordan Eckel
Service Order#: 120644

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: 302-402509119 (25 PPM H2S, 100 PPM CO, 50 LEL, 18% O2, Balance N2)	✓
Hydrocarbon	39	N/A	
Carbon Monoxide	105	N/A	
Hydrogen Sulphide	25	N/A	
Oxygen	18.1	N/A	

Other Information:		General Comments:
Zeroed Instrument/Sensor	Yes	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.

120644 Task #5
Signed By: Jordan Eckel
on Fri May 31 2024 2:22PM

Technician Signature

2085 Piper Lane
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Tel: (780) 628-7864

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

Customer: OCWA STRATFORD HUB
701 West Gore Street
Raw sewage plant
STRATFORD, ON N5A 1L4

Make/ Model: 7500-0000 PS200 (LEL/O2/CO/H2S) w/pump
Serial Number: 368812
Calibration Date: Dec 23 2024 9:00AM - CC-JE
Calibrated by: Jordan Eckel
Service Order#: 122795

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	32	N/A	
Carbon Monoxide	98	N/A	
Hydrogen Sulphide	24	N/A	
Oxygen	18	N/A	

Other Information:		General Comments:
Zeroed Instrument/Sensor	Yes	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.

122795 Task #1
Signed By: Jordan Eckel
on Mon December 23 2024 12:00

Technician Signature

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A1L 0A7
Tel: (709) 368-9000

Customer: OCWA STRATFORD HUB
701 West Gore Street
Raw sewage plant
STRATFORD, ON N5A 1L4

Make/ Model: 4000-0000 MSA ULTIMA X LEL
Serial Number: 104-1667488-20-001
Calibration Date: May 31 2024 12:00PM - CC-JE
Calibrated by: Jordan Eckel
Service Order#: 120644

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	44.0	LEL Methane (CH4) Lot: 304-402772574-1 (50% LEL, Balance Air 20.9)	Yes

Other Information:

Are relays working?	Yes
Are internal alarms working?	Yes
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.

120644 Task #1
Signed By: Jordan Eckel
on Fri May 31 2024 2:18PM

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Tel: (709) 368-9000

Technician Signature

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

Customer: OCWA STRATFORD HUB
701 West Gore Street
Raw sewage plant
STRATFORD, ON N5A 1L4

Make/ Model: 4250-0000 ARMSTRONG AMC-1022
Serial Number: 12201285
Calibration Date: May 31 2024 12:00PM - CC-JE
Calibrated by: Jordan Eckel
Service Order#: 120644

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	48.0	LEL Methane (CH4) Lot: 304-402772574-1 (50% LEL, Balance Air 20.9)	Yes

Other Information:

Are relays working?	Yes
Are internal alarms working?	Yes
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.

120644 Task #2
Signed By: Jordan Eckel
on Fri May 31 2024 2:19PM

2085 Piper Lane
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Tel: (519) 659-1144

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Technician Signature

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

Customer: OCWA STRATFORD HUB
701 West Gore Street
Raw sewage plant
STRATFORD, ON N5A 1L4

Make/ Model: 4250-0000 ARMSTRONG AMC-1022
Serial Number: 12201286
Calibration Date: May 31 2024 12:00PM - CC-JE
Calibrated by: Jordan Eckel
Service Order#: 120644

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	51.0	LEL Methane (CH4) Lot: 304-402772574-1 (50% LEL, Balance Air 20.9)	Yes

Other Information:

Are relays working?	Yes
Are internal alarms working?	Yes
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.

120644 Task #3
Signed By: Jordan Eckel
on Fri May 31 2024 2:20PM

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

8725 53 Ave.
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T6E 5E9
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

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

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

Customer: OCWA STRATFORD HUB
701 West Gore Street
Raw sewage plant
STRATFORD, ON N5A 1L4

Make/ Model: 4250-0000 ARMSTRONG AMC-1022 Methane
Serial Number: 12201287
Calibration Date: May 31 2024 12:00PM - CC-JE
Calibrated by: Jordan Eckel
Service Order#: 120644

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	51.0	LEL Methane (CH4) Lot: 304-402772574-1 (50% LEL, Balance Air 20.9)	Yes

Other Information:

Are relays working?	Yes
Are internal alarms working?	Yes
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.

120644 Task #4
Signed By: Jordan Eckel
on Fri May 31 2024 2:21PM

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A1L 0A7
Tel: (709) 368-9000

Technician Signature

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Tel: (709) 368-9000

Appendix E

Modification of Works

(Appendices can be provided upon request to Clerk's Office)



RETAIN COPY OF COMPLETED FORM AS PART OF THE ECA ON-SITE PRIOR TO THE SCHEDULED IMPLEMENTATION DATE.

Part 1 – Environmental Compliance Approval (ECA) with Limited Operational Flexibility

(Insert the ECA's owner, number and issuance date and notice number, which should start with "01" and consecutive numbers thereafter)

ECA Number 9501-BG3JPF	Issuance Date (mm/dd/yy) 06/10/20	Notice number (if applicable)
ECA Owner The Corporation of the City of Stratford		Municipality City of Stratford

Part 2: Description of the modifications as part of the Limited Operational Flexibility

(Attach a detailed description of the sewage works)

Replacement of all six pumps with four chemical feed pumps for the wet weather overflow disinfection with four Grundfos DDA-120-7 chemical feed pumps. The SMART digital DDA in a positive displacement, diaphragm dosing pump with variable-speed drive and intelligent control electronics with minimum energy consumption.

Chlorination

-Two (2) chemical metering pumps (one standby), each rated at 120L/h to dose chemical to the inlet chamber of the wet weather flow equalization tank No.2 equipped with an in-line mixer, and to the backup dosing point at the equalization tank distribution chamber

Dechlorination

-Two (2) chemical metering pumps (one standby), each rated at 120L/h to dose chemical to the inlet chamber of the wet weather flow equalization tank No.2 equipped with an in-line mixer, and to the backup dosing point at the bypass channel of the wet weather flow equalization tank No.2

Pump specifications and features listed below:

- Flow Rate up to 120 Liters/hour – 7 Bar Pressure;
- Turn-down ratio: 1:800;
- Service information display to show when service and which wear-part order number is required;
- Max. flow in slow mode 50%: 60 liters/Hour;
- Max. flow in slow mode 25%: 30 liters/Hour;
- Long lifetime and universal, chemically resistant full double PTFE diaphragm;
- Ball valves for highest dosing accuracy;
- Deaeration valve for easy startup. Operating modes:
 - Manual dosing in ml/h, l/h or gph;
 - Pulse control in ml/pulse (incl. memory function); and
 - Analog control 0/4-20 mA (scalable).

Description shall include:

1. A detail description of the modifications and/or operations to the sewage works (e.g. sewage work component, location, size, equipment type/model, material, process name, etc.)
2. Confirmation that the anticipated environmental effects are negligible.
3. List of updated versions of, or amendments to, all relevant technical documents that are affected by the modifications as applicable, i.e. submission of documentation is not required, but the listing of updated documents is (design brief, drawings, emergency plan, etc.)

Part 3 – Declaration by Professional Engineer

I hereby declare that I have verified the scope and technical aspects of this modification and confirm that the design:

1. Has been prepared or reviewed by a Professional Engineer who is licensed to practice in the Province of Ontario;
 2. Has been designed in accordance with the Limited Operational Flexibility as described in the ECA;
 3. Has been designed consistent with Ministry's Design Guidelines, adhering to engineering standards, industry's best management practices, and demonstrating ongoing compliance with s.53 of the Ontario Water Resources Act; and other appropriate regulations.
- I hereby declare that to the best of my knowledge, information and belief the information contained in this form is complete and accurate

Name (Print)

Jeff Paznar

PEO License Number

100137929

Signature



Date (mm/dd/yy)

12/21/2023

Name of Employer

R.J. Burnside & Associates Ltd.

Part 4 – Declaration by Owner

I hereby declare that:

1. I am authorized by the Owner to complete this Declaration;
2. The Owner consents to the modification; and
3. This modifications to the sewage works are proposed in accordance with the Limited Operational Flexibility as described in the ECA.
4. The Owner has fulfilled all applicable requirements of the *Environmental Assessment Act*.

I hereby declare that to the best of my knowledge, information and belief the information contained in this form is complete and accurate

Name of Owner Representative (Print)

JOHN BOWES

Owner representative's title (Print)

MANAGER OF ENVIRONMENTAL SERVICES

Owner Representative's Signature



Date (mm/dd/yy)

12/21/23

Appendix F

Sludge Analysis

(Appendices can be provided upon request to Clerk's Office)

MW Stratford WPCP Annual Sludge Analysis

Facility Name: STRATFORD WASTEWATER TREATMENT FACILITY
Receiver: Avon River

Facility Org Number: 5529
Facility Owner: Corporation/Company: The Corporation of the City of Stratford

Works: 110000702
Facility Classification: Class 4 Wastewater Treatment
Total Design Capacity: 30660 m3/day



From 01/01/2024 to 12/31/2024

Stored Sludge													2024			
	Jan 2024	Feb 2024	Mar 2024	Apr 2024	May 2024	Jun 2024	Jul 2024	Aug 2024	Sep 2024	Oct 2024	Nov 2024	Dec 2024	Total	Avg	Max	Min
Arsenic: As Dry Wt - mg/kg																
Lab Count	1.00	1.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	13.00			
Lab Month.Mean	5.00	6.00	15.00	5.50	5.00	4.00	5.00	6.00	6.00	6.00	< 8.00	4.00	<	6.23	15.00	4.00
Cadmium: Cd Dry Wt - mg/kg																
Lab Count	1.00	1.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	13.00			
Lab Month.Mean	0.60	0.90	2.00	0.75	0.60	0.50	0.70	0.80	0.80	0.60	0.60	0.40		0.77	2.00	0.40
Cobalt: Co Dry Wt - mg/kg																
Lab Count	1.00	1.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	13.00			
Lab Month.Mean	12.00	16.00	28.00	8.50	7.00	5.00	7.00	6.00	5.00	4.00	4.00	3.00		8.77	28.00	3.00
Chromium: Cr Dry Wt - mg/kg																
Lab Count	1.00	1.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	13.00			
Lab Month.Mean	170.00	180.00	400.00	160.00	110.00	98.00	140.00	130.00	130.00	88.00	100.00	60.00		148.15	400.00	60.00
Copper: Cu Dry Wt - mg/kg																
Lab Count	1.00	1.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	13.00			
Lab Month.Mean	750.00	970.00	2000.00	880.00	650.00	560.00	880.00	810.00	870.00	680.00	750.00	500.00		860.00	2000.00	500.00
E. Coli: EC - cfu/100mL																
Lab Count	1.00	1.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	13.00			
Lab Month.Mean	7000.00	530000.00	620000.00	160000.00	190000.00	14500.00	2000000.00	870000.00	30000000.00	1390000.00	540000.00	26000000.00		4806269.23	30000000.00	7000.00
E. Coli: EC Dry Wt - cfu/g																
Lab Count	1.00	1.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	13.00			
Lab Month.Mean	1464.00	204633.00	548673.00	37235.50	52778.00	6017.00	549451.00	191209.00	8746356.00	492908.00	415385.00	5543710.00		1294388.85	8746356.00	1464.00
Mercury: Hg Dry Wt - mg/kg																
Lab Count	1.00	1.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	13.00			
Lab Month.Mean	0.25	0.35	0.71	0.45	0.36	0.29	0.44	0.66	0.41	0.28	0.31	0.23		0.40	0.71	0.23
Potassium: K Dry Wt - mg/kg																
Lab Count	1.00	1.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	13.00			
Lab Month.Mean	1400.00	3700.00	7400.00	2050.00	2300.00	2700.00	2000.00	1800.00	2700.00	1900.00	4000.00	1900.00		2761.54	7400.00	1400.00
Molybdenum: Mo Dry Wt - mg/kg																
Lab Count	1.00	1.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	13.00			
Lab Month.Mean	27.00	26.00	58.00	23.00	17.00	15.00	25.00	27.00	27.00	29.00	29.00	22.00		26.77	58.00	15.00
Nickel: Ni Dry Wt - mg/kg																
Lab Count	1.00	1.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	13.00			
Lab Month.Mean	200.00	190.00	480.00	205.00	140.00	120.00	190.00	210.00	170.00	120.00	150.00	74.00		188.77	480.00	74.00

MW Stratford WPCP Annual Sludge Analysis

Facility Name: STRATFORD WASTEWATER TREATMENT FACILITY
Receiver: Avon River

Facility Org Number: 5529
Facility Owner: Corporation/Company: The Corporation of the City of Stratford

Works: 110000702
Facility Classification: Class 4 Wastewater Treatment
Total Design Capacity: 30660 m3/day



From 01/01/2024 to 12/31/2024

Nitrate + Nitrite as N: NO3 + NO2 Dry Wt - mg/kg																		
Lab Count	1.00	1.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	13.00				
Lab Month.Mean	< 60.00	< 120.00	< 270.00	< 75.00	< 90.00	< 120.00	120.00	< 70.00	< 90.00	< 110.00	< 230.00	< 64.00		< 114.92	270.00	60.00		
Nitrite: NO2 MGKG - mg/kg																		
Lab Count	1.00	1.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	13.00				
Lab Month.Mean	< 60.00	< 120.00	< 270.00	< 75.00	< 90.00	< 120.00	120.00	< 70.00	< 90.00	< 110.00	< 230.00	< 64.00		< 114.92	270.00	60.00		
Nitrate: NO3 MGKG - mg/kg																		
Lab Count	1.00	1.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	13.00				
Lab Month.Mean	< 60.00	< 120.00	< 270.00	< 75.00	< 90.00	< 120.00	< 80.00	< 70.00	< 90.00	< 110.00	< 230.00	< 64.00		< 111.85	270.00	60.00		
Lead: Pb Dry Wt - mg/kg																		
Lab Count	1.00	1.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	13.00				
Lab Month.Mean	73.00	100.00	300.00	145.00	160.00	130.00	130.00	89.00	59.00	35.00	28.00	17.00		108.54	300.00	17.00		
Phosphorus: P Dry Wt - mg/kg																		
Lab Count	1.00	1.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	13.00				
Lab Month.Mean	29000.00	28000.00	62000.00	26500.00	23000.00	21000.00	27000.00	29000.00	31000.00	21000.00	21000.00	25000.00		28461.54	62000.00	21000.00		
Selenium: Se Dry Wt - mg/kg																		
Lab Count	1.00	1.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	13.00				
Lab Month.Mean	4.00	5.00	10.00	4.50	4.00	< 4.00	4.00	4.00	4.00	4.00	< 4.00	< 8.00	< 2.00	< 4.77	10.00	2.00		
Total Ammonia Nitrogen: NH3 + NH4 as N MGKG - mg/kg																		
Lab Count	1.00	1.00	1.00	2.00	1.00	1.00		1.00	1.00	1.00	1.00	1.00	1.00	12.00				
Lab Month.Mean	19000.00	26000.00	63000.00	22000.00	30000.00	17000.00		5100.00	5100.00	6200.00	14000.00	1300.00		19225.00	63000.00	1300.00		
Zinc: Zn Dry Wt - mg/kg																		
Lab Count	1.00	1.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	13.00				
Lab Month.Mean	2600.00	2500.00	5600.00	2150.00	1700.00	1700.00	2400.00	2800.00	2400.00	1500.00	1300.00	1500.00		2330.77	5600.00	1300.00		