



March 15th, 2024

Pierre Adrien
Ministry of the Environment, Conservation and Parks
733 Exeter Road
London, ON N6E 1L3

Dear Mr. Adrien,

**Re: Annual Wastewater Report
Thorndale Wastewater Treatment Plant and Sanitary Collection System**

Attached is the 2023 Annual Performance Report for the Thorndale Wastewater Treatment Facility, all associated sewage pumping stations (SPS's) and the Thorndale Linear Infrastructure. This report has been completed in accordance with the following Approvals:

- Environmental Compliance Approval 0955-8MKJNP
- CLI-ECA Number: 059-W601

This report, as it pertains to the WWTF and the SPS was prepared by the Ontario Clean Water Agency on behalf of the Municipality of Thames Centre, based on the information contained in our records. The report included in Appendix A on the Thorndale linear infrastructure was provided by the Municipality of Thames Centre. The report covers the period from January 1, 2023 to December 31, 2023.

Please feel free to contact me should you require any additional information regarding this report. I can be reached at 519-870-7841.

Sincerely,

Matthew Belding

Process and Compliance Technician
Ontario Clean Water Agency

Cc. Neville Rising, Water Inspector, Ministry of the Environment, Conservation and Parks
Jarrod Craven, Director of Environmental Services, Thames Centre
Kevin Willson, Superintendent Environmental Services, Thames Centre
Dale LeBritton, Regional Hub Manager, Ontario Clean Water Agency
Vitaliy Talashok, Senior Operations Manager, Ontario Clean Water Agency
Maegan Garber, Safety, Process and Compliance Manager, Ontario Clean Water Agency

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Section 1: Overview of System

The Thorndale Wastewater Treatment Plant was commissioned in October 2014, with the first effluent being discharged on October 22nd, 2014. The wastewater treatment plant is a modified sequential batch reactor (SBR) treatment plant, known as intermittent cycle extended aeration system (ICEAS). This process differs from the conventional SBR system by allowing for continuous inflow of wastewater. This supplies a constant food source to the basins and optimizes biological treatment. The process is as follows:

Raw Wastewater Collection

The wastewater is collected by gravity and directed to the pump station located onsite at the treatment plant. Given the location of this pump station, it is not included as part of CLI-ECA Number: 059-W601. This pump station is equipped with three submersible pumps (two duty and one stand by) with rated capacity of 28.2L/s. The pumps are controlled by the Milltronics ultrasonic level control system, with a back-up float system.

Inlet Works

The raw wastewater is pumped from the pump station to the grit channel and auger screen for removal of larger material. A flow splitting and weir system is set up to direct the flow to either SBR basins, the mini SBR or the sludge holding tank. This is completed by the operator manually.

Sequential Batch Reactors

There are a total of three reactors (basins) at the Thorndale WWTP. They are each equipped with fine bubble aeration system, decanter, level control and waste activated sludge pumps. One basin, the mini SBR, was used from October 2014 until October 2015 when the influent flows were low. In 2022, the mini SBR was converted to sludge storage as it was designed. Since November 2020 both regular size basins have been online as flows are sufficient. The wastewater from the inlet works enters the SBR. The basin has two compartments. The wastewater first enters what is known as the pre-react zone. There is a baffle wall that expands the width of the tank with openings at the bottom to hydraulically connect to the main react zone. This baffle wall prevents short circuiting of the raw wastewater.

React Phase

During the react phase the raw wastewater flows into the pre-react zone and main-react zone continuously to react with the mixed liquor suspended solids. During this phase the basin contents are aerated, anoxically mixed and reacted anaerobically based on a timer. The react phase allows for biological oxidation/reduction reactions to take place to treat the incoming wastewater. Aluminum sulfate is added towards the end of this phase to chemically remove phosphorus. The alum system consists of a 16,200L tank with two (duty/standby) metering pumps. There are two blowers onsite for the fine bubble diffuser aeration system. The SBRs each contain 128 fine bubble diffusers.

Settle Phase

After the react phase the basin is allowed to settle during the settle phase. This allows the solids to settle to the bottom of the basin. The raw wastewater continues to flow into the pre-react zone as the main react zone is settling. A clear layer of water will form on the top of the basin during this phase.

Decant Phase

Once the timer is complete on the settling phase the decant phase begins. The decant motor lowers the decanter into the basin to draw off the clarified supernatant formed during the settle phase. This clear liquid is then directed to the effluent line. The raw wastewater continues to flow into the pre-react zone as this phase continues. Settled solids (sludge) on the bottom of the basin are wasted to the sludge holding tank during this cycle.

Disinfection Phase

The effluent is directed by gravity to the open channel ultra-violet (UV) disinfection system before being finally discharged to the Thames River.

Sludge Management System

The mixed liquor suspended solids in the react phase are controlled by the wasting pumps operated in the decant phase. This waste sludge is directed to the sludge holding tank. This tank is equipped with a fine bubble aeration system controlled by a blower. The tank also contains a decanter to remove the clear liquid and return it to the head of the plant for re-processing. Periodically the sludge is hauled by a licensed hauler and land applied if possible or hauled to another facility for further processing. Since the mini SBR is no longer needed it is being used as part of the sludge management system to provide additional sludge storage when needed.

Standby Power

The wastewater treatment plant has an automatic standby generator that will transfer over when there is a power failure. This allows for continuous running of the pump station and treatment plant when outages occur.

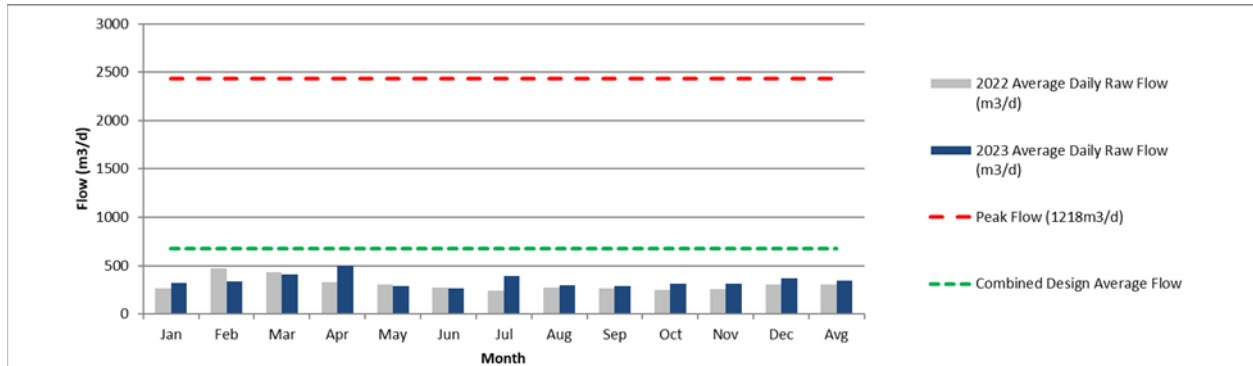
Section 2: Summary of Monitoring Data

The Thorndale Wastewater Treatment Plant is monitored as per the Environmental Compliance Approval requirements. Detailed monitoring data is supplied in Appendix B. The Sanitary Collection System in Thorndale is operated under CLI-ECA Number: 059-W601.

Raw Wastewater Monitoring

The average daily flow of raw wastewater that entered the WWTP in 2023 was 341.1m³/d compared to 305.6m³/d in 2022. The rated capacity identified in the ECA is 674m³/d with a peak flow of 2,436m³/d. As depicted in Chart 1, the WWTP is currently at 50.6% of the rated capacity for the entire plant as identified in the ECA. It is required by the ECA that when the plant reaches 50% of the rated capacity the *Owner* shall complete a detailed performance assessment of the *Works* to determine whether the *Works* will have to be upgraded, through the installation of a tertiary filtration system or otherwise, in order to be able to meet the effluent objectives and effluent limits in the ECA. Given the annual average flow in 2023, the detailed performance assessment of the *Works* is required. The *Owner* has retained the services of Stantec to complete this assessment. The performance assessment was submitted to the Director, as required, on February 29th, 2024.

Chart 1. Average daily influent flows compared to the SBR basins rated capacity and peak flow.



There were eight instances where the flow exceeded the rated capacity of the treatment plant, refer to Table 1. In 2023, there were eight instances compared to five recorded instances in 2022. These high flows are the result of inflow and infiltration in the collection system. In most instances, the Municipality has located the source and has made the necessary repairs. Monitoring inflow and infiltration continues to be a priority for the municipality.

Table 1. Daily flow readings above the SBRs rated capacity of 674m³/d in 2023.

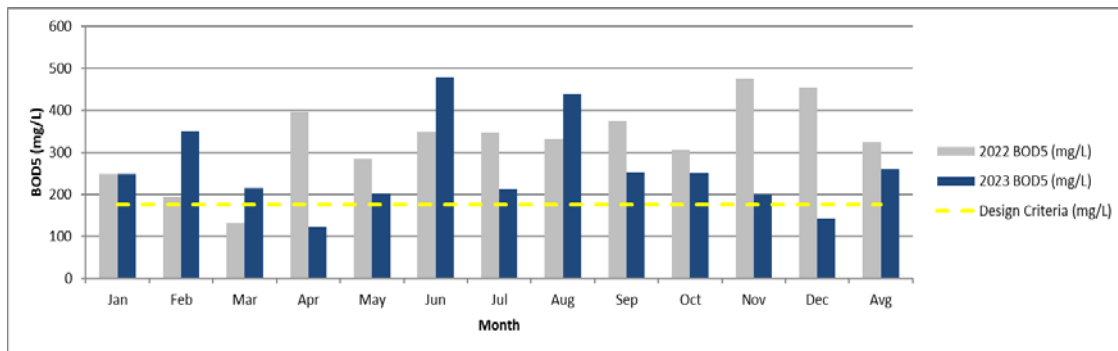
Date	Flow (m ³ /d)
02/09/2023	957.94
03/17/2023	953.14
03/31/2024	843.97
04/01/2024	3706.34

Date	Flow (m ³ /d)
04/04/2024	1005.33
04/05/2024	724.15
07/06/2024	937.54
07/20/2024	1062.56

The raw wastewater is monitored for BOD₅, total suspended solids, total phosphorus and total Kjeldahl nitrogen at a minimum on a monthly basis by composite sample. The plant was designed to treat based on raw water characteristics identified in the Operations Manual from the design engineers. Refer to Appendix B for more detailed monthly results and design parameters.

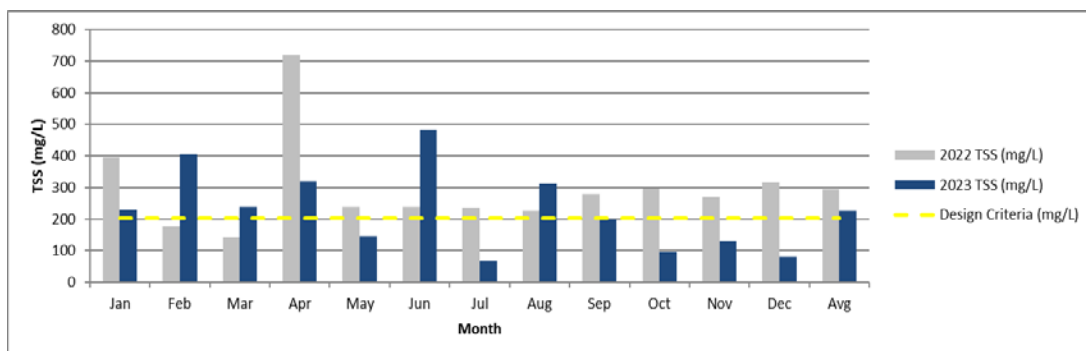
The annual average for raw sewage BOD₅ concentration to the plant was 259.3mg/L. This is a decrease from 2022 raw BOD₅ results by 20.0%. Refer to Chart 2 for a comparison of the monthly results in 2023 and 2022. In 2023, BOD₅ was above the design concentrations in ten out of the twelve months. The average BOD₅ loading to the plant was 88.5kg/d in 2023.

Chart 2. Raw sewage monthly average concentration of BOD₅ for 2023 compared to 2022.



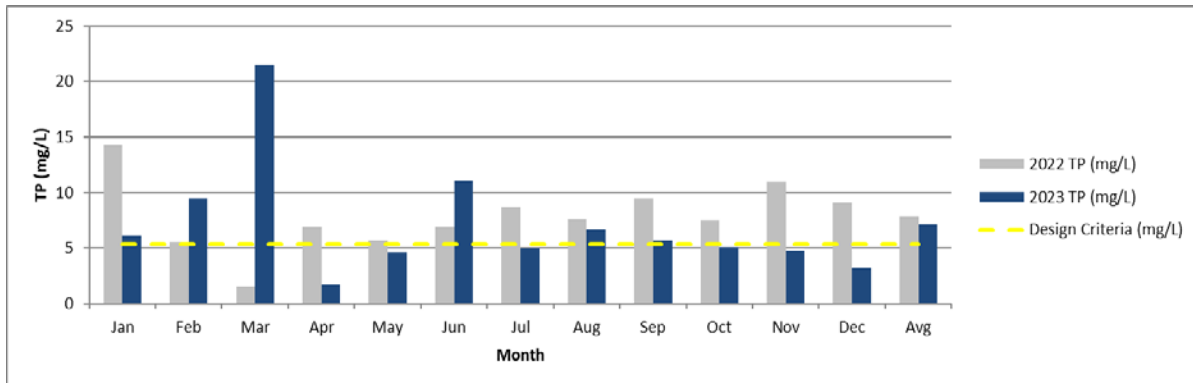
The annual average for raw sewage total suspended solids (TSS) concentration to the plant was 225.8mg/L. Refer to Chart 3 for a comparison of the monthly concentrations in 2023 to 2022. Overall, the average TSS concentration is down by 23.4%. In 2023, TSS was above the design concentrations in six out of the twelve months. The average TSS loading to the plant was 77.0kg/d for 2023.

Chart 3. Raw sewage average monthly concentration of TSS for 2023 compared to 2022.



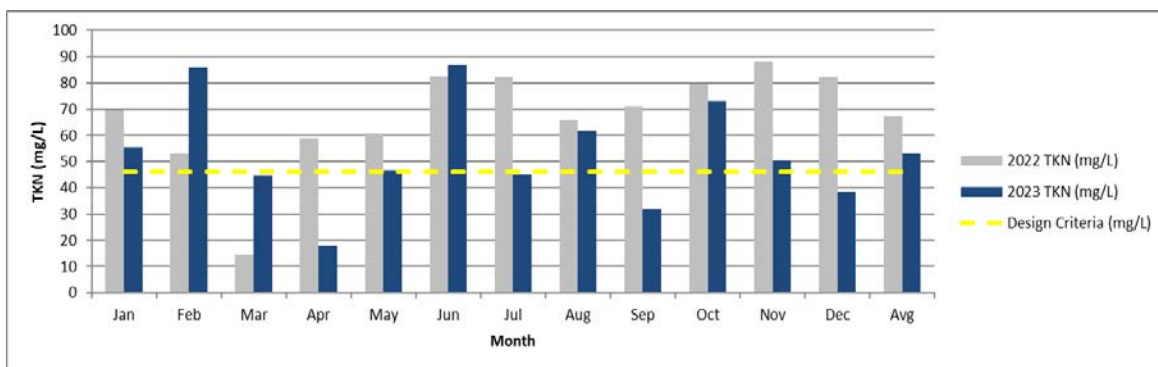
The annual average for raw sewage total phosphorus (TP) concentration to the plant was 7.1mg/L. Refer to Chart 4 for a comparison of the monthly concentrations in 2023 to 2022. Overall, the TP concentration has decreased by 9.3% in 2023 compared to 2022. In 2023, TP was above the design concentrations in six out of the twelve months. The average TP loading to the plant was 2.4kg/d for 2023.

Chart 4. Raw sewage average monthly concentration of TP for 2023 compared to 2022.



The annual average for raw sewage total Kjeldahl nitrogen (TKN) concentration to the plant was 53.2mg/L. This is an overall decrease of 21.1% in 2023 compared to 2022. Refer to Chart 5 for a comparison of the monthly concentrations in 2023 compared to 2022. In 2023, TKN was above the design concentrations in seven out of the twelve months. The average TKN loading to the plant was 18.1kg/d for 2023.

Chart 5. Raw sewage average monthly concentration of TKN for 2023 compared to 2022.



The influent characteristics have changed throughout the year. This is to be expected with the flow variations that are experienced. Concentrations are also affected by infiltration issues, essentially diluting the raw wastewater as well as potential discharges to the collection system which have caused extremely high influent parameter concentrations.

Effluent Monitoring

Effluent is sampled on a weekly basis and tested for cBOD₅, total suspended solids, total phosphorus and total ammonia as a composite sample in accordance with the ECA. A grab sample is also taken weekly and tested for E. coli, pH and temperature. Detailed results are found in Appendix B. Table 2 below shows the monthly average effluent results and loadings. Section 3 describes the results in more detail.

Table 2. Monthly average effluent ranges for 2023.

Parameter	Effluent Monthly Average Limits	Monthly Average Effluent Result Ranges	Monthly Average Effluent Loading Limits	Monthly Average Loadings Result Ranges (kg/d)
cBOD ₅ (mg/L)	10	2.0 – 5.4	6.74	0.56 – 2.72
TSS (mg/L)	10	2.0 – 60.0	6.74	0.56 – 30.2
TP (mg/L)	0.65	0.09 – 0.33	0.44	0.02 -0.11
TAN (mg/L)	4.1	0.18 – 2.50	2.76	0.06 – 0.81
TAN (mg/L)	8.6	0.18 – 1.75	5.80	0.03 – 0.54
Freezing				
E. coli (cfu/100mL)*	100	5.35 – 260.14	n/a	n/a
pH**	6-9.5	6.92 – 7.73	n/a	n/a
Temperature (°C)**	n/a	8.7 – 20.5	n/a	n/a

*geometric mean

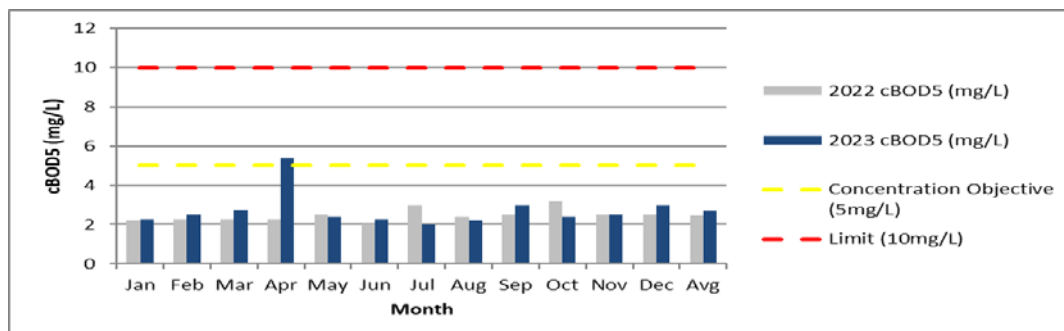
**minimum and maximum result (not monthly averages)

Note: TAN Freezing Limit is from December 1 to April 30

Section 3: Comparison of Effluent Quality and Quantity Compared to Limits and Objectives

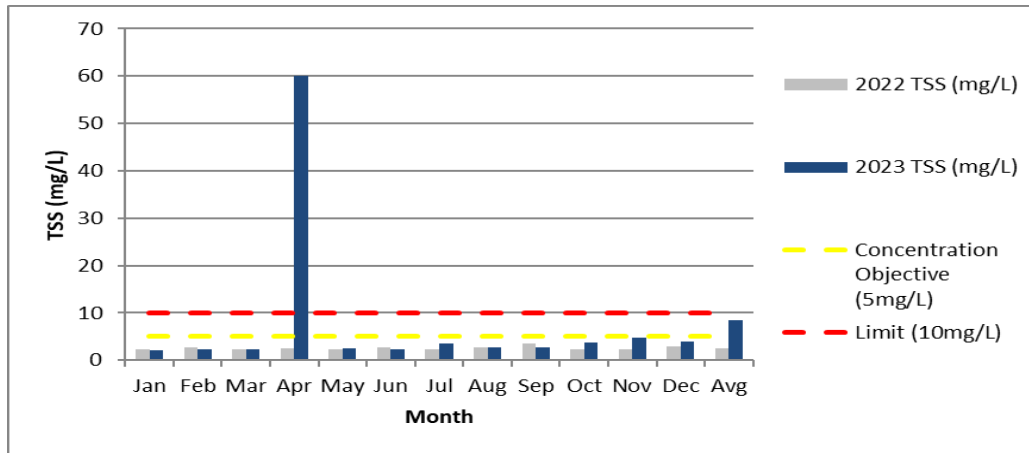
The annual average effluent cBOD₅ in 2023 was 2.75mg/L; this value has increased by 10.6% when compared to the 2022 annual average. The annual average loading of cBOD₅ was 0.91kg/d. The limit of 10mg/L was not exceeded in 2023. The concentration objective of 5mg/L was exceeded once in 2023. The elevated concentration in April was due to results from a grab sample taken during a peak flow exceedance (refer to Table 4). Refer to Chart 6 for a comparison of effluent monthly average concentration of CBOD₅.

Chart 6. The effluent monthly average concentration of cBOD₅ in 2023 compared to 2022.



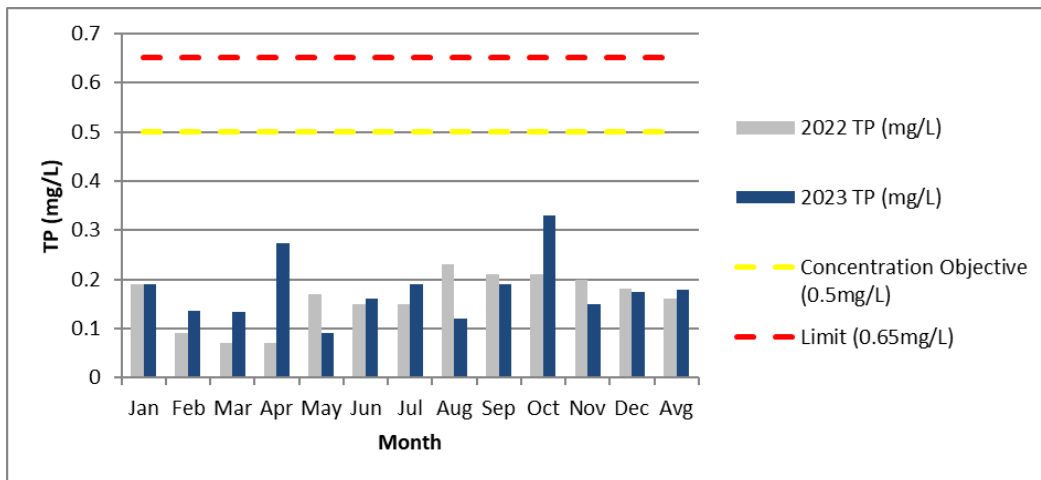
The annual average effluent TSS in 2023 was 8.48mg/L; this value has increased by 231.5% from the annual average in 2022. The annual average loading of TSS was 2.8kg/d. The limit of 10mg/L was exceeded once in 2023. The concentration objective of 5mg/L was also exceeded once in 2023. The elevated concentration in April was due to results from a grab sample taken during a peak flow exceedance. Refer to Chart 7 for a comparison of the effluent monthly average concentration of TSS.

Chart 7. The effluent monthly average concentration of TSS in 2023 compared to 2022.



The annual average effluent TP in 2023 was 0.18mg/L. The annual average result for TP in 2023 is up by 11.4% compared to the 2022 annual average. The annual average loading of TP was 0.06kg/d. There were no objective or limit exceedances in 2023. Refer to Chart 8 for a comparison of the effluent monthly average concentration of TP.

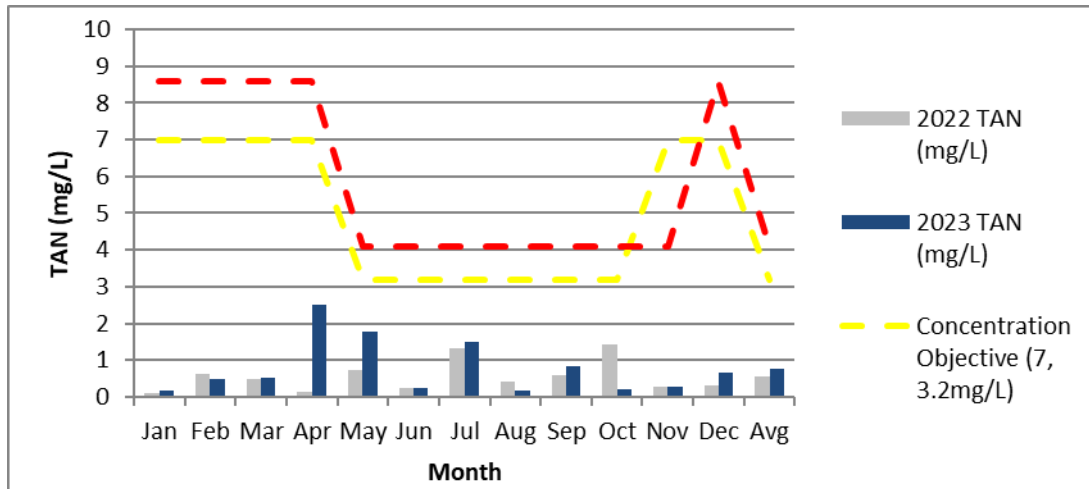
Chart 8. The effluent monthly average concentration of TP in 2023 compared to 2022.



The annual average effluent Total Ammonia Nitrogen (TAN) in 2023 was 0.80mg/L. The annual average result for TAN in 2023 has increased by 40.8% compared to the 2022 annual average. The annual average loading of TAN was 0.26 kg/d during the freezing period and 0.15 kg/d during the non-freezing period. The limits and objectives for TAN vary based on the freezing period, which between December

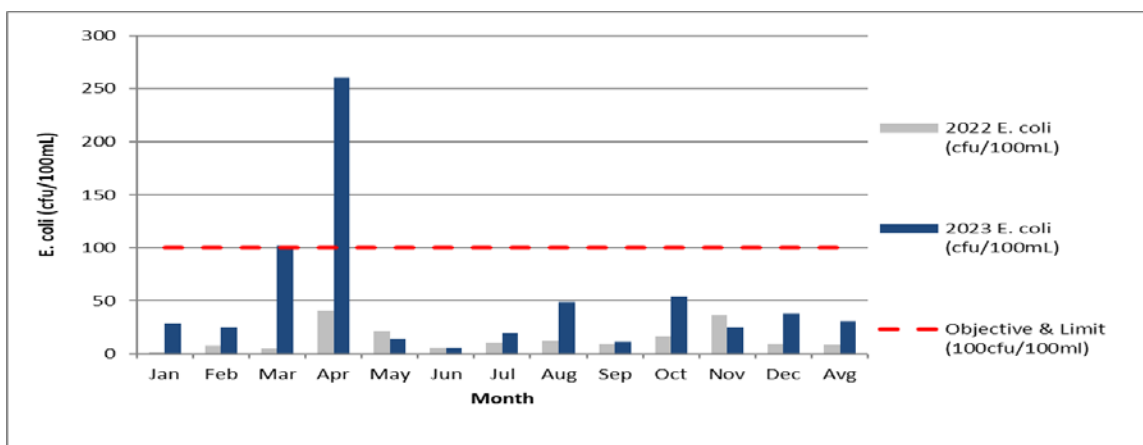
1st and April 30th is 8.6 mg/L, while during the warmer months of May 1st and Oct 31st is 4.1mg/L. There were no limit or objective exceedances (refer to Table 4) for TAN in 2023. Refer to Chart 9 for a comparison of the effluent monthly average concentrations.

Chart 9. The effluent monthly average concentration of TAN in 2023 compared to 2022.



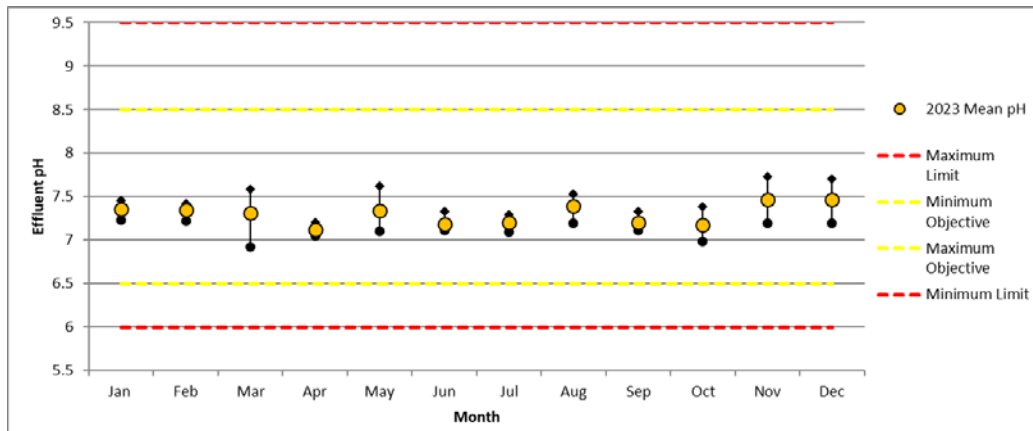
The annual geometric mean for effluent E. coli in 2023 was 31.0cfu/100mL. The annual geometric mean result for E. coli in 2023 was up 252.8% when compared to the annual geometric mean for E. coli in 2022. There were two objective and limit exceedances reported in 2023 (refer to Chart 10). In March, a rodent chewed through a hydraulic hose causing the UV system to fault. In April, a sample was collected due to flow exceeding the daily peak flow *Note: Both the objective and limit for E. coli is 100cfu/100mL.*

Chart 10. The effluent monthly geometric mean concentration of E. coli in 2023 compared to 2022.



The effluent pH is monitored weekly at a minimum at the Thorndale WWTP. Overall the plant has provided effective treatment as there have been no results below or above the compliance limits of 6.0-9.5 in 2023. The pH is required to be maintained between 6.0-9.5 at all times. Refer to Chart 11 for the monthly minimum, maximum and mean pH readings.

Chart 11. Effluent pH readings for 2023.



The Thorndale WWTP performed well in 2023 producing quality effluent however, there were five monthly objective exceedances. In March, a rodent chewed through a hydraulic hose in the UV system, causing an E.coli exceedance. In April, the flow exceeded the peak daily flow and a sample was collected resulting in the other four objective exceedances. As specified in the ECA, objectives are based on single concentrations however on April 21st, 2021 clarification was provided from the MECP’s Policy Branch indicating that the intent of Table 1 in the ECA was to compare the Monthly Average Results of the effluent parameters to the Objectives present in the table.

Table 3. Individual sample results compared against the effluent objectives.

Parameter	Effluent Objective	Monthly Effluent Result Ranges	# of Objective Exceedances	Effluent Loading Objective	Monthly Loadings Result Ranges (kg/d)	# of Objective Loading Exceedances
cBOD ₅ (mg/L)	5	2.0 – 5.4	1	3.37	0.55 – 2.72	0
TSS (mg/L)	5	2.0 – 60.0	1	3.37	0.56 – 30.23	1
TP (mg/L)	0.5	0.12 – 0.33	0	0.34	0.00 – 0.11	0
TAN (mg/L)	3.2	0.20 – 1.78	0	2.16	0.03 – 0.26	0
TAN (mg/L)	7.0	0.18 – 2.50	0	4.72	0.06 – 0.81	0
Freezing						
E. coli (cfu/100mL)*	100	5.4 – 260.1	2	n/a	n/a	n/a
pH**	6.5 – 8.5	6.92 – 7.73	0	n/a	n/a	n/a

*expressed as geometric mean

**minimum and maximum result (not monthly averages)

Note: TAN Freezing objective is from November 1 to April 30

Table 4. Objective exceedances in 2023.

Date	Parameter	Concentration mg/L	Loadings kg/d	Comment
03/2023	E.coli	102.34	-	Due to UV failure
04/2023	E.coli	260.14	-	Due to Flow exceedance
04/2023	TSS	60	30.23	Both Conc. and Loading
04/2023	cBOD5	5.40	2.72	Due to Flow Exceedance

Section 4: Operating Problems and Corrective Actions

The collection system is experiencing inflow and infiltration issues during rain and snow melt events however efforts made by the Owner to inspect new building developments and video the collection system have significantly reduced these occurrences. There were eight days in 2023 where the daily flow rate exceeded the capacity of the plant, compared to five days in 2022 and seven days in 2021.

In February 2021, the Owner undertook collection system monitoring, obtaining samples from various points in the collection system in an effort to determine the locations of the elevated concentrations. Since February, 2021 influent results appear to increase on a seasonal basis with higher concentrations noted from October to February. Operators at the treatment plant have been closely monitoring influent results and adjusting the chemical dosages as required.

Section 5: Maintenance Activities

Regular scheduled monthly preventative maintenance is assigned and monitored using the Workplace Management System (WMS) program. Some items that were repaired or replaced in 2023 were:

- Replaced heater and thermostat in alum room.
- SCADA Programming
- Replaced SCADA Computer and worked on programming dialer/diagnostics
- UV system hydraulic line replacement, replaced blown bulbs, Full system maintenance.
- Waste pumps guide rails and chains replaced.
- Repair to decant arm and returned to service.

Section 6: Effluent Quality Assurance

Effluent quality assurance is evaluated by monitoring parameters and changes throughout the plants processes. The operators monitor the basins by performing weekly tests on the mixed liquor. These tests include dissolved oxygen, pH, temperature, settling tests and Mixed Liquor Suspended Solids (MLSS). As well, monitoring of the alum dosages and wasting volumes are completed. 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.

Section 7: Calibration and Maintenance on Effluent Monitoring Equipment

The raw flow meter was calibrated by Flowmetrix on November 15th, 2023. In house meters for pH and dissolved oxygen are calibrated by OCWA operators as per manufacturer's instructions.

Section 8: Sludge Handling and Generated

Sludge is pumped from the basins to the aerated sludge holding tank. Periodically, the air is shut off and the sludge settles to the bottom and the clear liquid is decanted back to the plant.

13m³ of MLSS was brought from Talbotville WWTP to Thorndale on July 28th, 2023 for seeding.

In 2023, 703 m³ of sludge was removed by Bartels and assessed for land application. The approximate amount of sludge produced in 2023 was 1,300m³. It is anticipated that more sludge will be produced in 2024 as it is expected that the system will have more connections and therefore more flow. An approximate amount of sludge is estimated to be 1,350m³ in 2024.

Section 9: Complaints

On April 11th an odor complaint from a resident in Thorndale was received. The complaint was possibly caused by agricultural activities in the area on that day. There were no other community complaints received for the Thorndale WWTP or Collection System in 2023.

Section 10: By-pass, Spill or Abnormal Discharge Events

On April 1st, 2023 the peak daily flow of 2436m³/day was exceeded. The plant received 3706.34m³ of raw flow due to heavy rainfall. As per the ECA, a grab sample was collected and the results were used in the calculation of average monthly concentrations. This additional sample resulted in an ECA limit exceedance for E.coli, TSS, and TSS loading. The objective for CBOD₅ was also exceeded.

There still remains infiltration issues during wet weather events, which can impact the effluent quality. These events are monitored as they occur to ensure effluent limits are met. With both SBRs now in operation, the plant is operating at 50.6% capacity and is providing effective treatment.

As per the ECA , with the plant operating at >50.0% the owner of the system is undergoing a detailed performance assessment and Contingency Plan which outlines the outcome of the performance assessment, detailed contingency plans, and any need for an upgrade of the *Works*. The performance assessment was submitted to the Director, as required, on February 29th, 2024

APPENDIX A

Appendix A

Linear Infrastructure 2023 Annual Performance Report Thorndale Collection System

Prepared by: the Municipality of Thames Centre

Section 1: Operating Problems and Corrective Actions

No operating problems encountered in this reporting period for the linear infrastructure.

Section 2: Calibration, Maintenance and Repairs

2023 Repairs:

- No Repairs in this reporting period in the Thorndale Collection System.

2023 Maintenance:

- Flushing and CCTV inspections – 4,020m, Approximately 29% of Thorndale collection system

Section 3: Alterations to the System

Authorized Alterations to system

- Local Sewer Extension
 - 1) Nissouri Road (north of Thorndale Road) – approximately 22m

Alterations to the system (under individual ECA)

- 1) Rosewood Subdivision Phase 2 – (unassumed by Municipality & not in service) – approximately 2,128m
- 2) Elliott Estates Subdivision – (unassumed by Municipality & not in service) – approximately 1,200m

Section 4: Community Complaints and Concerns

No community complaints or concerns on the operation of the sanitary system.

Section 5: Spills of Sewage

No spills in the linear infrastructure through the reporting year.

APPENDIX B

1248 THORNDALE WWTP 110001443

	1 / 2023	2 / 2023	3 / 2023	4 / 2023	5 / 2023	6 / 2023	7 / 2023	8 / 2023	9 / 2023	10 / 2023	11 / 2023	12 / 2023	<-Total-->	<-Avg-->	<-Max-->	<-Criteria-->
Flows																
Raw Flow: Total - Raw m ³ /d	9,875.49	9,359.73	12,663.32	14,997.22	8,949.93	7,975.98	12,240.94	9,268.77	8,686.56	9,661.47	9,375.83	11,458.91	124,514.15			0.00
Raw Flow: Avg - Raw m ³ /d	318.56	334.28	408.49	499.91	288.71	265.87	394.87	298.99	289.55	311.66	312.53	369.64		341.13		674.00
Raw Flow: Max - Raw m ³ /d	461.16	957.94	953.14	1,005.33	396.73	302.30	1,062.56	552.69	490.60	577.73	504.50	522.00			1,062.56	0.00
Raw Flow: Count - Raw m ³ /d	31.00	28.00	31.00	30.00	31.00	30.00	31.00	30.00	30.00	31.00	30.00	31.00	365.00			0.00
Eff. Flow: Total - Effluent m ³ /d	9,656.80	8,960.06	11,763.71	15,113.81	8,996.81	7,428.22	12,051.42	8,852.00	8,087.23	10,031.44	8,728.97	11,005.00	120,675.47			0.00
Eff. Flow: Avg - Effluent m ³ /d	311.51	320.00	379.47	503.79	290.22	247.61	388.76	285.55	269.57	323.59	290.97	355.00		330.62		2,436.00
Eff. Flow: Max - Effluent m ³ /d	504.57	678.47	624.84	1,729.32	415.60	298.25	1,201.80	417.33	460.40	587.33	375.18	823.00			1,729.32	0.00
Eff Flow: Count - Effluent m ³ /d	31.00	28.00	31.00	30.00	31.00	30.00	31.00	31.00	30.00	31.00	30.00	31.00	365.00			0.00
Carbonaceous Biochemical Oxygen Demand: CBOD																
Eff: Avg cBOD5 - Effluent mg/L	< 2.25	< 2.50	< 2.75	< 5.40	< 2.40	< 2.25	< 2.00	< 2.20	< 3.00	< 2.40	< 2.50	< 3.00		< 2.75	< 5.40	10.00
Eff: # of samples of cBOD5 - Effluent	4.00	4.00	4.00	5.00	5.00	4.00	4.00	4.00	5.00	4.00	5.00	4.00	52.00			0.00
Loading: cBOD5 - Effluent kg/d	< 0.701	< 0.800	< 1.044	< 2.720	< 0.697	< 0.557	< 0.778	< 0.628	< 0.809	< 0.777	< 0.727	< 1.065		< 0.91	< 2.72	6.740
Biochemical Oxygen Demand: BOD5																
Raw: Avg BOD5 - Raw mg/L	248.00	351.00	215.00	122.00	201.00	479.00	212.00	439.00	253.00	250.00	199.00	142.00		259.25	479.00	0.00
Raw: # of samples of BOD5 - Raw	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			0.00
Total Suspended Solids: TSS																
Raw: Avg TSS - Raw mg/L	229.00	406.00	239.00	319.00	147.00	482.00	67.00	312.00	200.00	96.00	132.00	81.00		225.83	482.00	0.00
Raw: # of samples of TSS - Raw	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			0.00
Eff: Avg TSS - Effluent mg/L	< 2.00	< 2.25	< 2.25	< 60.00	< 2.80	< 2.25	< 3.50	< 2.80	< 2.75	< 3.80	< 4.75	< 4.00		< 8.48	< 60.00	10.00
Eff: # of samples of TSS - Effluent	4.00	4.00	4.00	5.00	5.00	4.00	4.00	5.00	4.00	5.00	4.00	4.00	52.00			0.00
Loading: TSS - Effluent kg/d	< 0.623	< 0.720	< 0.854	< 30.228	< 0.755	< 0.557	< 1.361	< 0.800	< 0.741	< 1.230	< 1.382	< 1.420		< 2.80	< 30.23	6.740
Percent Removal: TSS - Raw %	99.13	99.45	99.06	81.19	98.23	99.53	94.78	99.10	98.63	96.04	96.40	95.06		96.38	99.53	0.00
Total Phosphorus: TP																
Raw: Avg TP - Raw mg/L	6.08	9.50	21.50	1.72	4.65	11.10	5.04	6.67	5.74	5.12	4.79	3.23		7.10	21.50	0.00
Raw: # of samples of TP - Raw	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			0.00
Eff: Avg TP - Effluent mg/L	0.19	0.14	0.13	0.27	0.09	0.16	0.19	0.12	0.19	0.33	0.15	0.18		0.18	0.33	0.65
Eff: # of samples of TP - Effluent	4.00	4.00	4.00	5.00	5.00	4.00	4.00	5.00	4.00	5.00	4.00	4.00	52.00			0.00
Loading: TP - Effluent kg/d	0.059	0.045	0.049	0.136	0.026	0.040	0.091	0.035	0.051	0.107	0.044	0.062		0.02	0.14	0.440
Percent Removal: TP - Raw %	96.88	98.58	99.38	84.07	98.02	98.58	96.23	98.14	96.73	93.55	96.82	94.58		95.96	99.38	0.00
Nitrogen Series																
Raw: Avg TKN - Raw mg/L	55.50	85.80	44.80	17.90	46.70	87.00	45.00	61.80	31.80	72.90	50.30	38.30		53.15	87.00	0.00
Raw: # of samples of TKN - Raw	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			0.00
Eff: Avg TAN - Effluent mg/L	0.18	0.48	0.53	2.50	1.78	0.23	1.48	< 0.18	0.83	0.20	0.28	0.65		0.80	2.50	8.60
Eff: # of samples of TAN - Effluent	4.00	4.00	4.00	5.00	5.00	4.00	4.00	5.00	4.00	5.00	4.00	4.00	52.00			0.00
Loading: TAN - Effluent kg/d	0.062	0.128	0.152	0.806	0.261	0.074	0.039	0.029	0.539	0.032	0.087	0.142		0.27	0.81	5.800
Disinfection																
Eff: GMD E. Coli - Effluent cfu/100mL	28.39	24.82	102.34	260.14	14.28	5.35	19.23	48.68	11.76	53.65	24.92	37.68				100.00
Eff: # of samples of E. Coli - Effluent	4.00	4.00	4.00	5.00	5.00	4.00	4.00	5.00	3.00	5.00	4.00	4.00	51.00			0.00
Temperature																
Eff: Temperature - Maximum	12.20	10.60	10.50	12.60	15.70	18.70	20.50	19.40	20.00	19.50	15.50	13.30			20.5	0.00
Eff: Temperature - Minimum	8.90	8.90	9.30	8.70	11.80	16.80	18.30	19.20	18.30	18.20	12.20	12.00				0.00
Eff: Temperature - Average	10.83	9.90	9.75	10.96	14.25	17.45	19.15	19.34	19.05	16.88	14.10	12.65		14.596		0.00

APPENDIX C



Sample Schedule 2023 1248 Thorndale WWTP

Issued: 2023-09-11
Rev.#: 2
Pages: 1 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

January 2023

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1	2 STAT	3 IH Full Monthly Raw & Effluent Samples	4	5 IH Full	6 IH Reduced	7
8	9 IH Reduced	10 IH Full Effluent Samples	11	12 IH Full	13 IH Reduced	14
15	16 IH Reduced	17 IH Full Effluent Samples	18	19 IH Full	20 IH Reduced	21
22	23 IH Reduced	24 IH Full Effluent Samples	25	26 IH Full	27 IH Reduced	28
29	30 IH Reduced	31 IH Full Effluent Samples				

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

IH (In House) Reduced: Aeration (Set Test, DO, pH, Temp.) Raw TP
Effluent (DO, pH, Temp., TSS, TP, NH3+NH4)

Raw Samples: Composite Monthly-required by ECA but complete weekly as required due to issues (BOD5, TSS, TP, TKN)

Effluent Samples: Composite Weekly (cBOD5, TSS, TAN, TP)
Grab (E. coli)

Notes: Initial on date when sample was taken. Add any additional sampling completed for the facility. At the end of the month hand in to the PCT with folder.

Revision History

Date	Revision #	Reason for Revision	Revision By
2022-10-05	0	Create Schedule	Matt Belding
2023-05-17	1	Added IH Lab Frequency	Matt Belding
2023-09-11	2	Added October 2 nd STAT	Maegan Garber



Sample Schedule 2023 1248 Thorndale WWTP

Issued: 2023-09-11
Rev.#: 2
Pages: 2 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

February 2023

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			1	2 IH Full	3 IH Reduced	4
5	6 IH Reduced	7 IH Full Monthly Raw & Effluent Samples	8	9 IH Full	10 IH Reduced	11
12	13 IH Reduced	14 IH Full Effluent Samples	15	16 IH Full	17 IH Reduced	18
19	20 STAT	21 IH Full Effluent Samples	22	23 IH Full	24 IH Reduced	25
26	27 IH Reduced	28 IH Full Effluent Samples				

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

IH (In House) Reduced: Aeration (Set Test, DO, pH, Temp.) Raw TP
Effluent (DO, pH, Temp., TSS, TP, NH3+NH4)

Raw Samples: Composite Monthly-required by ECA but complete weekly as required due to issues (BOD5, TSS, TP, TKN)

Effluent Samples: Composite Weekly (cBOD5, TSS, TAN, TP)
Grab (E. coli)

Notes: Initial on date when sample was taken. Add any additional sampling completed for the facility. At the end of the month hand in to the PCT with folder.

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2023-05-17	1	Added IH Lab Frequency	Matt Belding
2023-09-11	2	Added October 2 nd STAT	Maegan Garber



Sample Schedule 2023

1248 Thorndale WWTP

Issued: 2023-09-11
 Rev.#: 2
 Pages: 3 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

March 2023

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			1	2 IH Full	3 IH Reduced	4
5	6 IH Reduced	7 IH Full Monthly Raw & Effluent Samples	8	9 IH Full	10 IH Reduced	11
12	13 IH Reduced	14 IH Full Effluent Samples	15	16 IH Full	17 IH Reduced	18
19	20 IH Reduced	21 IH Full Effluent Samples	22	23 IH Full	24 IH Reduced	25
26	27 IH Reduced	28 IH Full Effluent Samples	29	30 IH Full	31 IH Reduced	

IH (In House) Full:

Raw (Temp., pH)
 Aeration (Set Test, MLSS, MLVSS, DO, pH, Temp.)
 Effluent Composite (TP, NH3+NH4, SS); Grab (DO, pH, Temp.)

IH (In House) Reduced:

Aeration (Set Test, DO, pH, Temp.) Raw TP
 Effluent (DO, pH, Temp., TSS, TP, NH3+NH4)

Raw Samples:

Composite Monthly-required by ECA but complete weekly as required due to issues (BOD5, TSS, TP, TKN)

Effluent Samples:

Composite Weekly (cBOD5, TSS, TAN, TP)
 Grab (E. coli)

Notes: Initial on date when sample was taken. Add any additional sampling completed for the facility. At the end of the month hand in to the PCT with folder.

Revision History

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2023-05-17	1	Added IH Lab Frequency	Matt Belding
2023-09-11	2	Added October 2 nd STAT	Maegan Garber



Sample Schedule 2023

1248 Thorndale WWTP

Issued: 2023-09-11
 Rev.#: 2
 Pages: 4 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

April 2023

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						1
2	3 IH Reduced	4 IH Full Monthly Raw &	5	6 IH Full	7 STAT	8
9	10 STAT	11 IH Full Effluent	12	13 IH Full	14 IH Reduced	15
16	17 IH Reduced	18 IH Full Effluent Samples	19	20 IH Full	21 IH Reduced	22
23	24 IH Reduced	25 IH Full Effluent Samples	26	27 IH Full	28 IH Reduced	29
30						

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

IH (In House) Reduced: Aeration (Set Test, DO, pH, Temp.) Raw TP
 Effluent (DO, pH, Temp., TSS, TP, NH3+NH4)

Raw Samples: Composite Monthly-required by ECA but complete weekly as required due to issues (BOD5, TSS, TP, TKN)

Effluent Samples: Composite Weekly (cBOD5, TSS, TAN, TP)
 Grab (E. coli)

Notes: Initial on date when sample was taken. Add any additional sampling completed for the facility. At the end of the month hand in to the PCT with folder.

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2022-10-05	0	Create Schedule	Matt Belding
2023-05-17	1	Added IH Lab Frequency	Matt Belding
2023-09-11	2	Added October 2 nd STAT	Maegan Garber



Sample Schedule 2023 1248 Thorndale WWTP

Issued: 2023-09-11
Rev.#: 2
Pages: 5 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

May 2023

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1 IH Reduced	2 IH Full Monthly Raw & Effluent Samples	3	4 IH Full	5 IH Reduced	6
7	8 IH Reduced	9 IH Full Effluent Samples	10	11 IH Full	12 IH Reduced	13
14	15 IH Reduced	16 IH Full Effluent Samples	17	18 IH Full	19 IH Reduced	20
21	22 STAT	23 IH Full Effluent Samples	24	25 IH Full	26 IH Reduced	27
28	29 IH Reduced	30 IH Full Effluent Samples	31			

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

IH (In House) Reduced: Aeration (Set Test, DO, pH, Temp.) Raw TP
Effluent (DO, pH, Temp., TSS, TP, NH3+NH4)

Raw Samples: Composite Monthly-required by ECA but complete weekly as required due to issues (BOD5, TSS, TP, TKN)

Effluent Samples: Composite Weekly (cBOD5, TSS, TAN, TP)
Grab (E. coli)

Notes: Initial on date when sample was taken. Add any additional sampling completed for the facility. At the end of the month hand in to the PCT with folder.

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2023-05-17	1	Added IH Lab Frequency	Matt Belding
2023-09-11	2	Added October 2 nd STAT	Maegan Garber



Sample Schedule 2023 1248 Thorndale WWTP

Issued: 2023-09-11
Rev.#: 2
Pages: 6 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

June 2023

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				1 IH Full	2 IH Reduced	3
4	5 IH Reduced	6 IH Full Monthly Raw & Effluent Samples	7	8 IH Full	9 IH Reduced	10
11	12 IH Reduced	13 IH Full Effluent Samples	14	15 IH Full	16 IH Reduced	17
18	19 IH Reduced	20 IH Full Effluent Samples	21	22 IH Full	23 IH Reduced	24
25	26 IH Reduced	27 IH Full Effluent Samples	28	29 IH Full	30 IH Reduced	

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

IH (In House) Reduced: Aeration (Set Test, DO, pH, Temp.) Raw TP
Effluent (DO, pH, Temp., TSS, TP, NH3+NH4)

Raw Samples: Composite Monthly-required by ECA but complete weekly as required due to issues (BOD5, TSS, TP, TKN)

Effluent Samples: Composite Weekly (cBOD5, TSS, TAN, TP)
Grab (E. coli)

Notes: Initial on date when sample was taken. Add any additional sampling completed for the facility. At the end of the month hand in to the PCT with folder.

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2023-05-17	1	Added IH Lab Frequency	Matt Belding
2023-09-11	2	Added October 2 nd STAT	Maegan Garber



Sample Schedule 2023 1248 Thorndale WWTP

Issued: 2023-09-11
Rev.#: 2
Pages: 7 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

July 2023

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						1
2	3 STAT	4 IH Full Monthly Raw & Effluent Samples	5	6 IH Full	7 IH Reduced	8
9	10 IH Reduced	11 IH Full Effluent Samples	12	13 IH Full	14 IH Reduced	15
16	17 IH Reduced	18 IH Full Effluent Samples	19	20 IH Full	21 IH Reduced	22
23	24 IH Reduced	25 IH Full Effluent Samples	26	27 IH Full	28 IH Reduced	29
30	31 IH Reduced					

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

IH (In House) Reduced: Aeration (Set Test, DO, pH, Temp.) Raw TP
Effluent (DO, pH, Temp., TSS, TP, NH3+NH4)

Raw Samples: Composite Monthly-required by ECA but complete weekly as required due to issues (BOD5, TSS, TP, TKN)

Effluent Samples: Composite Weekly (cBOD5, TSS, TAN, TP)
Grab (E. coli)

Notes: Initial on date when sample was taken. Add any additional sampling completed for the facility. At the end of the month hand in to the PCT with folder.

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2023-05-17	1	Added IH Lab Frequency	Matt Belding
2023-09-11	2	Added October 2 nd STAT	Maegan Garber



Sample Schedule 2023 1248 Thorndale WWTP

Issued: 2023-09-11
Rev.#: 2
Pages: 8 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

August 2023

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		1 IH Full Monthly Raw & Effluent Samples	2	3 IH Full	4 IH Reduced	5
6	7 STAT	8 IH Full Effluent Samples	9	10 IH Full	11 IH Reduced	12
13	14 IH Reduced	15 IH Full Effluent Samples	16	17 IH Full	18 IH Reduced	19
20	21 IH Reduced	22 IH Full Effluent Samples	23	24 IH Full	25 IH Reduced	26
27	28 IH Reduced	29 IH Full	30	31 IH Full		

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

IH (In House) Reduced: Aeration (Set Test, DO, pH, Temp.) Raw TP
Effluent (DO, pH, Temp., TSS, TP, NH3+NH4)

Raw Samples: Composite Monthly-required by ECA but complete weekly as required due to issues (BOD5, TSS, TP, TKN)

Effluent Samples: Composite Weekly (cBOD5, TSS, TAN, TP)
Grab (E. coli)

Notes: Initial on date when sample was taken. Add any additional sampling completed for the facility. At the end of the month hand in to the PCT with folder.

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2022-10-05	0	Create Schedule	Matt Belding
2023-05-17	1	Added IH Lab Frequency	Matt Belding
2023-09-11	2	Added October 2 nd STAT	Maegan Garber



Sample Schedule 2023 1248 Thorndale WWTP

Issued: 2023-09-11
Rev.#: 2
Pages: 9 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

September 2023

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
					1 IH Reduced	2
3	4 STAT	5 IH Full Monthly Raw & Effluent Samples	6	7 IH Full	8 IH Reduced	9
10	11 IH Reduced	12 IH Full Effluent Samples	13	14 IH Full	15 IH Reduced	16
17	18 IH Reduced	19 IH Full Effluent Samples	20	21 IH Full	22 IH Reduced	23
24	25 IH Reduced	26 IH Full	27	28 IH Full	29 IH Reduced	30

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

IH (In House) Reduced: Aeration (Set Test, DO, pH, Temp.) Raw TP
Effluent (DO, pH, Temp., TSS, TP, NH3+NH4)

Raw Samples: Composite Monthly-required by ECA but complete weekly as required due to issues (BOD5, TSS, TP, TKN)

Effluent Samples: Composite Weekly (cBOD5, TSS, TAN, TP)
Grab (E. coli)

Notes: Initial on date when sample was taken. Add any additional sampling completed for the facility. At the end of the month hand in to the PCT with folder.

Revision History

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2023-05-17	1	Added IH Lab Frequency	Matt Belding
2023-09-11	2	Added October 2 nd STAT	Maegan Garber



Sample Schedule 2023 1248 Thorndale WWTP

Issued: 2023-09-11
Rev.#: 2
Pages: 10 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

October 2023

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1	2 STAT	3 IH Reduced	4 IH Full Monthly Raw & Effluent	5 IH Full	6 IH Reduced	7
8	9 STAT	10 IH Full Effluent Samples	11	12 IH Full	13 IH Reduced	14
15	16 IH Reduced	17 IH Full Effluent Samples	18	19 IH Full	20 IH Reduced	21
22	23 IH Reduced	24 IH Full Effluent Samples	25	26 IH Full	27 IH Reduced	28
29	30 IH Reduced	31 IH Full Effluent				

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

IH (In House) Reduced: Aeration (Set Test, DO, pH, Temp.) Raw TP
Effluent (DO, pH, Temp., TSS, TP, NH3+NH4)

Raw Samples: Composite Monthly-required by ECA but complete weekly as required due to issues (BOD5, TSS, TP, TKN)

Effluent Samples: Composite Weekly (cBOD5, TSS, TAN, TP)
Grab (E. coli)

Notes: Initial on date when sample was taken. Add any additional sampling completed for the facility. At the end of the month hand in to the PCT with folder.

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2023-05-17	1	Added IH Lab Frequency	Matt Belding
2023-09-11	2	Added October 2 nd STAT	Maegan Garber



Sample Schedule 2023 1248 Thorndale WWTP

Issued: 2023-09-11
Rev.#: 2
Pages: 11 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

November 2023

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			1	2 IH Full	3 IH Reduced	4
5	6 IH Reduced	7 IH Full Monthly Raw & Effluent Samples	8	9 IH Full	10 IH Reduced	11
12	13 STAT	14 IH Full Effluent Samples	15	16 IH Full	17 IH Reduced	18
19	20 IH Reduced	21 IH Full Effluent Samples	22	23 IH Full	24 IH Reduced	25
26	27 IH Reduced	28 IH Full Effluent Samples	29	30 IH Full		

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

IH (In House) Reduced: Aeration (Set Test, DO, pH, Temp.) Raw TP
Effluent (DO, pH, Temp., TSS, TP, NH3+NH4)

Raw Samples: Composite Monthly-required by ECA but complete weekly as required due to issues (BOD5, TSS, TP, TKN)

Effluent Samples: Composite Weekly (cBOD5, TSS, TAN, TP)
Grab (E. coli)

Notes: Initial on date when sample was taken. Add any additional sampling completed for the facility. At the end of the month hand in to the PCT with folder.

Revision History

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2023-05-17	1	Added IH Lab Frequency	Matt Belding
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Sample Schedule 2023 1248 Thorndale WWTP

Issued: 2023-09-11
Rev.#: 2
Pages: 12 of 12

Reviewed by: QEMS Representative

Approved by: Operations Management

December 2023

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
					1 IH Reduced	2
3	4 IH Reduced	5 IH Full Monthly Raw & Effluent	6	7 IH Full	8 IH Reduced	9
10	11 IH Reduced	12 IH Full Effluent Samples	13	14 IH Full	15 IH Reduced	16
17	18 IH Reduced	19 IH Full Effluent Samples	20	21 IH Full	22 IH Reduced	23
24	25 STAT	26 STAT	27 IH Full Effluent Samples	28 IH Full	29 IH Reduced	30
31						

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

IH (In House) Reduced: Aeration (Set Test, DO, pH, Temp.) Raw TP
Effluent (DO, pH, Temp., TSS, TP, NH3+NH4)

Raw Samples: Composite Monthly-required by ECA but complete weekly as required due to issues (BOD5, TSS, TP, TKN)

Effluent Samples: Composite Weekly (cBOD5, TSS, TAN, TP)
Grab (E. coli)

Notes: Initial on date when sample was taken. Add any additional sampling completed for the facility. At the end of the month hand in to the PCT with folder.

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APPENDIX D

Workorder Summary Report

 Report Start Date: Jan 1, 2023 12:00 AM
 Report End Date: Dec 31, 2023 11:59 PM
 Location: 1248,1248-SPTH,1248-WWTH
 Work Order Type: OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3169522	0000063165	PANEL ALARM/ DIALER PANEL	1248, Thorndale WWTP	PM	Inspection	1	MONTHS	Alarm Dialer Test/Insp (1m) - 1248	CLOSE	1/1/23 12:00 AM	1/16/23 03:02 PM	1/16/23 03:02 PM	- tested pump station high level and power fail
3169915	0000063194	ENGINE DIESEL GENERATOR	1248, Thorndale WWTP	PM	Inspection	1	MONTHS	Engine Diesel Test/Insp (1m) - 1248	CLOSE	1/1/23 12:00 AM	1/16/23 03:00 PM	1/16/23 03:00 PM	- completed generator run test
3170623			1248, Thorndale WWTP	OPER	Inspection	1	YEARS	Daily O&M Activities Thorndale WWTP (1y) - 1248	COMP	1/1/23 12:00 AM	1/2/24 01:56 PM	1/2/24 01:56 PM	Completed Rounds - - Completed rounds on January 2/23 - on location with Mike going over possible call out situations - training with Brodie on possible call out scenarios for on call - operational rounds and readings - 12/25/23 operational rounds and readings troubleshooting storm mode issues cause by the power flicker - 12/26/23 log entry and sending out reports on the call out from [previous night - completed in 2023
3170845			1248, Thorndale WWTP	PM	Health and Safety	1	MONTHS	OHSA Inspection Thorndale (1m) - 1248	CLOSE	1/1/23 12:00 AM	1/16/23 02:59 PM	1/16/23 02:59 PM	- checked fire extinguishers checked first aid kit checked spill kit tested emergency lights tested eye wash/shower completed thames centre safety check sheet
3185166			1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	1	MONTHS	UV Bank Insp (1m) - 1248	CLOSE	1/1/23 12:00 AM	1/23/23 03:07 PM	1/23/23 03:07 PM	- inspected UV system. no faults present and all bulbs good

Workorder Summary Report

 Report Start Date: Jan 1, 2023 12:00 AM
 Report End Date: Dec 31, 2023 11:59 PM
 Location: 1248,1248-SPTH,1248-WWTH
 Work Order Type: OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3204164			1248, Thorndale WWTP	PM	Compliance	1	YEARS	RP03 Annual Report ECA	CLOSE	1/17/23 12:00 AM	3/14/23 02:10 PM	3/14/23 02:10 PM	Thorndale Annual Wastewater Report - Completed Thorndale's annual wastewater report. Emailed to ministry and client on 03/13/2023. Whole report took about 10 hours to complete.
3220857	0000063165	PANEL ALARM/ DIALER PANEL	1248, Thorndale WWTP	PM	Inspection	1	MONTHS	Alarm Dialer Test/Insp (1m) - 1248	CLOSE	2/1/23 12:00 AM	2/24/23 03:42 PM	2/24/23 03:42 PM	- tested power fail and wet well high level alarms
3221222	0000063194	ENGINE DIESEL GENERATOR	1248, Thorndale WWTP	PM	Inspection	1	MONTHS	Engine Diesel Test/Insp (1m) - 1248	CLOSE	2/1/23 12:00 AM	2/24/23 03:36 PM	2/24/23 03:36 PM	- completed generator run test
3221950			1248, Thorndale WWTP	PM	Health and Safety	1	MONTHS	OHSA Inspection Thorndale (1m) - 1248	CLOSE	2/1/23 12:00 AM	2/21/23 02:55 PM	2/21/23 02:55 PM	- checked fire extinguishers, firstaid and spill kits tested emergency lights and eyewash/shower completed Thames Centre safety check sheet
3231642			1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	1	MONTHS	UV Bank Insp (1m) - 1248	CLOSE	2/1/23 12:00 AM	2/21/23 02:54 PM	2/21/23 02:54 PM	- inspected UV system. bank B has reached 12000 hours and has rotated bank A as duty. notified manager that bulb replacement is required
3234873	0000334594	SAFETY SPILL KIT 20 Gallons, Universal	1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	6	MONTHS	Semi-Annual Spill Kit Inspect (6m) 1248	CLOSE	2/1/23 12:00 AM	2/16/23 03:13 PM	2/16/23 03:13 PM	- confirmed spill kit inventory
3237075	0000063178	BLOWER 01 AIR SLUDGE TANK	1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	1	MONTHS	Blower 01 Air Sludge Tank Insp/Service (1m) - 1248	CLOSE	2/1/23 12:00 AM	2/27/23 03:09 PM	2/27/23 03:09 PM	- inspected blower
3237083	0000063180	BLOWER 02 AERATION	1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	1	MONTHS	Blower 02 Aeration Insp/Service (1m) - 1248	CLOSE	2/1/23 12:00 AM	2/27/23 03:10 PM	2/27/23 03:10 PM	- inspected blower
3237091	0000063182	BLOWER 03 AIR AERATION	1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	1	MONTHS	Blower 03 Air Aeration Insp/Service (1m) - 1248	CLOSE	2/1/23 12:00 AM	2/27/23 03:10 PM	2/27/23 03:10 PM	- inspected blower
3237133			1248, Thorndale WWTP	PM	Compliance	1	MONTHS	CL01 Client Performance Report ORG	CLOSE	2/1/23 12:00 AM	2/17/23 10:18 AM	2/17/23 10:18 AM	Client Report for Thorndale - Completed client report. Had to update the Excel workbook, graphs, and format document. Took about 2 hours to complete this time.

Workorder Summary Report

 Report Start Date: Jan 1, 2023 12:00 AM
 Report End Date: Dec 31, 2023 11:59 PM
 Location: 1248,1248-SPTH,1248-WWTH
 Work Order Type: OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3237135			1248, Thorndale WWTP	OPER	Compliance	1	MONTHS	WISKI Data Review (1m) 1248	CLOSE	2/1/23 12:00 AM	2/22/23 11:30 AM	2/22/23 11:30 AM	Wiski Data Reviewed - Wiski Data was reviewed this month while preparing the monthly client report 02/14/23. Finished reviewing today and closing out the work order 02/22/23. Took about an hour of time.
3263113	0000063165	PANEL ALARM/ DIALER PANEL	1248, Thorndale WWTP	PM	Inspection	1	MONTHS	Alarm Dialer Test/Insp (1m) - 1248	CLOSE	3/1/23 12:00 AM	3/13/23 03:17 PM	3/13/23 03:17 PM	- tested power fail and wetwell high level alarms
3263530	0000063194	ENGINE DIESEL GENERATOR	1248, Thorndale WWTP	PM	Inspection	1	MONTHS	Engine Diesel Test/Insp (1m) - 1248	CLOSE	3/1/23 12:00 AM	3/13/23 03:16 PM	3/13/23 03:16 PM	- completed generator runtest
3264304			1248, Thorndale WWTP	PM	Health and Safety	1	MONTHS	OHSA Inspection Thorndale (1m) - 1248	CLOSE	3/1/23 12:00 AM	3/9/23 03:36 PM	3/9/23 03:36 PM	- checked fire extinguishers, first aid and spill kits. tested emergency lights and eyewash/shower. completed Thames Centre safety check sheet.
3267184			1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Diaphragm Insp/Service Route (1y) - 1248	CLOSE	3/1/23 12:00 AM	3/31/23 03:13 PM	3/31/23 03:13 PM	- took pumps apart and checked/cleaned diaphragms, cleaned connections and returned pumps to service checking for leaks
3268639			1248, Thorndale Sewage Pumping Stn	OPER	Inspection	0		1248-SPTH 1248, Thorndale Sewage Pumping Stn	CLOSE	3/1/23 12:00 AM	4/11/23 09:10 AM	4/11/23 09:10 AM	No Issues Noted - No Issues noted
3268641			1248, Thorndale WWTP	OPER	Inspection	0		1248-WWTH 1248, Thorndale WWTP	CLOSE	3/1/23 12:00 AM	4/11/23 09:12 AM	4/11/23 09:12 AM	No Issues Noted - No issues noted
3274470			1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	1	MONTHS	UV Bank Insp (1m) - 1248	CLOSE	3/1/23 12:00 AM	3/28/23 03:22 PM	3/28/23 03:22 PM	- inspe ted UV system and clean channel. trojan booked for service to wiper system
3277401	0000063178	BLOWER 01 AIR SLUDGE TANK	1248, Thorndale WWTP	PM	Inspection	3	MONTHS	Blower 1 Service (3m) -1248	CLOSE	3/1/23 12:00 AM	4/27/23 03:44 PM	4/27/23 03:44 PM	- checked oil levels and belt condition
3277404	0000063182	BLOWER 03 AIR AERATION	1248, Thorndale WWTP	PM	Inspection	3	MONTHS	Blower 2 Service (3m) -1248	CLOSE	3/1/23 12:00 AM	4/27/23 03:45 PM	4/27/23 03:45 PM	- checked oil levels and belt condition

Workorder Summary Report

 Report Start Date: Jan 1, 2023 12:00 AM
 Report End Date: Dec 31, 2023 11:59 PM
 Location: 1248,1248-SPTH,1248-WWTH
 Work Order Type: OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3277407	0000063180	BLOWER 02 AERATION	1248, Thorndale WWTP	PM	Inspection	3	MONTHS	Blower 3 Service (3m) -1248	CLOSE	3/1/23 12:00 AM	4/27/23 03:45 PM	4/27/23 03:45 PM	- checked oil levels and belt condition
3277780	0000063228	LIFTING DEVICE GANTRY	1248, Thorndale WWTP	PM	Inspection	1	YEARS	Lifting Equipment Inspection (1y) 1248	CLOSE	3/1/23 12:00 AM	3/28/23 03:26 PM	3/28/23 03:26 PM	- HB material handling completed inspection and certification
3277784	0000334600	LIFTING DEVICE WINCH	1248, Thorndale WWTP	PM	Inspection	1	YEARS	Lifting Equipment Inspection (1y) 1248	CLOSE	3/1/23 12:00 AM	3/28/23 03:26 PM	3/28/23 03:26 PM	- HB material handling completed inspection and certification
3277790	0000334606	LIFTING DEVICE DAVIT	1248, Thorndale WWTP	PM	Inspection	1	YEARS	Lifting Equipment Inspection (1y) 1248	CLOSE	3/1/23 12:00 AM	3/28/23 03:27 PM	3/28/23 03:27 PM	- HB material handling completed inspection and certification
3277794	0000334607	LIFTING DEVICE DAVIT	1248, Thorndale WWTP	PM	Inspection	1	YEARS	Lifting Equipment Inspection (1y) 1248	CLOSE	3/1/23 12:00 AM	3/28/23 03:27 PM	3/28/23 03:27 PM	- HB material handling completed inspection and certification
3277798	0000334608	LIFTING DEVICE BASE	1248, Thorndale WWTP	PM	Inspection	1	YEARS	Lifting Equipment Inspection (1y) 1248	CLOSE	3/1/23 12:00 AM	3/28/23 03:29 PM	3/28/23 03:29 PM	- HB material handling completed inspection and certification
3280096	0000063178	BLOWER 01 AIR SLUDGE TANK	1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	1	MONTHS	Blower 01 Air Sludge Tank Insp/ Service (1m) - 1248	CLOSE	3/1/23 12:00 AM	3/23/23 03:13 PM	3/23/23 03:13 PM	- inspected blower
3280104	0000063180	BLOWER 02 AERATION	1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	1	MONTHS	Blower 02 Aeration Insp/Service (1m) - 1248	CLOSE	3/1/23 12:00 AM	3/23/23 03:14 PM	3/23/23 03:14 PM	- inspected blower
3280112	0000063182	BLOWER 03 AIR AERATION	1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	1	MONTHS	Blower 03 Air Aeration Insp/ Service (1m) - 1248	CLOSE	3/1/23 12:00 AM	3/23/23 03:14 PM	3/23/23 03:14 PM	- inspected blower
3280154			1248, Thorndale WWTP	PM	Compliance	1	MONTHS	CL01 Client Performance Report ORG	CLOSE	3/1/23 12:00 AM	3/16/23 08:25 AM	3/16/23 08:25 AM	Client Report - Finished client report 03/10/2023 and submitted for review. Completed requested changes 03/13/2023. Took about an hour.
3280156			1248, Thorndale WWTP	OPER	Compliance	1	MONTHS	WISKI Data Review (1m) 1248	CLOSE	3/1/23 12:00 AM	3/16/23 08:14 AM	3/16/23 08:14 AM	Wiski Data Reviewed - Reviewed WISKI Data. Ran report and entered data into Client report PAR spreadsheet to ensure compliance. 1 hour.
3308525	0000063165	PANEL ALARM/ DIALER PANEL	1248, Thorndale WWTP	PM	Inspection	1	MONTHS	Alarm Dialer Test/Insp (1m) - 1248	CLOSE	4/1/23 12:00 AM	4/13/23 02:54 PM	4/13/23 02:54 PM	- tested power fail and well high level alarms

Workorder Summary Report

 Report Start Date: Jan 1, 2023 12:00 AM
 Report End Date: Dec 31, 2023 11:59 PM
 Location: 1248,1248-SPTH,1248-WWTH
 Work Order Type: OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3308898	0000063194	ENGINE DIESEL GENERATOR	1248, Thorndale WWTP	PM	Inspection	1	MONTHS	Engine Diesel Test/Insp (1m) - 1248	CLOSE	4/1/23 12:00 AM	4/13/23 02:53 PM	4/13/23 02:53 PM	- completed generator run test
3309626			1248, Thorndale WWTP	PM	Health and Safety	1	MONTHS	OHSA Inspection Thorndale (1m) - 1248	CLOSE	4/1/23 12:00 AM	4/11/23 03:18 PM	4/11/23 03:18 PM	- inspected fire extinguishers, firstaid and spill kits tested emergency lights and eyewash/shower completed Thames Centre safety check sheet
3322435			1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	1	MONTHS	UV Bank Insp (1m) - 1248	CLOSE	4/1/23 12:00 AM	4/17/23 03:22 PM	4/17/23 03:22 PM	- cleaned all bulb. wiper system hydraulic hoses have been ordered and will be replaced to get wipers operational again
3325205			1248, Thorndale Sewage Pumping Stn	PM	Inspection	6	MONTHS	Wetwell Cleanout Thorndale Insp/ Service (6m) - 1248	CLOSE	4/1/23 12:00 AM	4/21/23 03:30 PM	4/21/23 03:30 PM	- completed well cleaning
3329349	0000063178	BLOWER 01 AIR SLUDGE TANK	1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	1	MONTHS	Blower 01 Air Sludge Tank Insp/ Service (1m) - 1248	CLOSE	4/1/23 12:00 AM	4/17/23 03:23 PM	4/17/23 03:23 PM	- inspected blower
3329357	0000063180	BLOWER 02 AERATION	1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	1	MONTHS	Blower 02 Aeration Insp/Service (1m) - 1248	CLOSE	4/1/23 12:00 AM	4/17/23 03:24 PM	4/17/23 03:24 PM	- inspected blower
3329365	0000063182	BLOWER 03 AIR AERATION	1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	1	MONTHS	Blower 03 Air Aeration Insp/ Service (1m) - 1248	CLOSE	4/1/23 12:00 AM	4/17/23 03:25 PM	4/17/23 03:25 PM	- inspected blower
3329492			1248, Thorndale WWTP	PM	Compliance	1	MONTHS	CL01 Client Performance Report ORG	CLOSE	4/1/23 12:00 AM	4/19/23 03:04 PM	4/19/23 03:04 PM	Client Report Completed - Thorndale client report completed.
3329494			1248, Thorndale WWTP	PM	Compliance	3	MONTHS	RP05 WSER Monitoring ORG	CLOSE	4/1/23 12:00 AM	4/19/23 03:20 PM	4/19/23 03:20 PM	WSER Reported - Thorndales WSER reported.
3329497			1248, Thorndale WWTP	OPER	Compliance	1	MONTHS	WISKI Data Review (1m) 1248	CLOSE	4/1/23 12:00 AM	4/19/23 02:35 PM	4/19/23 02:35 PM	Wiski Data Reviewed - Thorndale's wiski data reviewed.
3357562	0000063165	PANEL ALARM/ DIALER PANEL	1248, Thorndale WWTP	PM	Inspection	1	MONTHS	Alarm Dialer Test/Insp (1m) - 1248	CLOSE	5/1/23 12:00 AM	5/8/23 03:07 PM	5/8/23 03:07 PM	- tested power fail and well high level alarms
3357915	0000063194	ENGINE DIESEL GENERATOR	1248, Thorndale WWTP	PM	Inspection	1	MONTHS	Engine Diesel Test/Insp (1m) - 1248	CLOSE	5/1/23 12:00 AM	5/8/23 03:06 PM	5/8/23 03:06 PM	- completed generator run test

Workorder Summary Report

 Report Start Date: Jan 1, 2023 12:00 AM
 Report End Date: Dec 31, 2023 11:59 PM
 Location: 1248,1248-SPTH,1248-WWTH
 Work Order Type: OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3358648			1248, Thorndale WWTP	PM	Health and Safety	1	MONTHS	OHSA Inspection Thorndale (1m) - 1248	CLOSE	5/1/23 12:00 AM	5/15/23 03:04 PM	5/15/23 03:04 PM	- checked fire extinguishers, firstaid kit and spill kit. tested emergency lights and eyewash/shower. completed Thames Centre safety check sheet.
3369001			1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	1	MONTHS	UV Bank Insp (1m) - 1248	CLOSE	5/1/23 12:00 AM	5/31/23 03:06 PM	5/31/23 03:06 PM	- received CCB1,CCB2and HSB1 communication alarms. no visible damage, did a system reset but alarms still active. Put bank 1A in manual as instructed by trojan and a service tech will reply with availability for a site visit. - waiting on hoses for wiper system and still in communication fault
3375002			1248, Thorndale WWTP	PM	Compliance	1	MONTHS	CL01 Client Performance Report ORG	CLOSE	5/1/23 12:00 AM	5/11/23 07:50 AM	5/11/23 07:50 AM	Client Report Completed - Thorndale's monthly client report completed.
3375004			1248, Thorndale WWTP	OPER	Compliance	1	MONTHS	WISKI Data Review (1m) 1248	CLOSE	5/1/23 12:00 AM	5/9/23 10:18 AM	5/9/23 10:18 AM	Wiski Data Reviewed - Wiski data for Thorndale reviewed. Non-compliance for ecoli reported to MECP.
3385016			1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	0		Thames Center inlet trough cleanings	CLOSE		5/12/23 10:53 AM	5/12/23 10:53 AM	- completed
3402908	0000063165	PANEL ALARM/ DIALER PANEL	1248, Thorndale WWTP	PM	Inspection	1	MONTHS	Alarm Dialer Test/Insp (1m) - 1248	CLOSE	6/1/23 12:00 AM	6/7/23 03:12 PM	6/7/23 03:12 PM	- tested power fail and well high level alarms
3403258	0000063194	ENGINE DIESEL GENERATOR	1248, Thorndale WWTP	PM	Inspection	1	MONTHS	Engine Diesel Test/Insp (1m) - 1248	CLOSE	6/1/23 12:00 AM	6/7/23 03:10 PM	6/7/23 03:10 PM	- completed generator run test

Workorder Summary Report

 Report Start Date: Jan 1, 2023 12:00 AM
 Report End Date: Dec 31, 2023 11:59 PM
 Location: 1248,1248-SPTH,1248-WWTH
 Work Order Type: OPER,PM
 Work Order Class:

WO #	Asset ID	Asset Description	Location Description	WorkOrder		PM Schedule		Workorder Details					WorkLog Detail
				Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	
3404085			1248, Thorndale WWTP	PM	Health and Safety	1	MONTHS	OHSA Inspection Thorndale (1m) - 1248	CLOSE	6/1/23 12:00 AM	6/9/23 03:25 PM	6/9/23 03:25 PM	- checked fire extinguishers, first aid, and spill kits tested emergency lights and eyewash/shower completed Thames Centre safety check sheet
3408713			1248, Thorndale Sewage Pumping Stn	OPER	Inspection	0		1248-SPTH 1248, Thorndale Sewage Pumping Stn	CLOSE	6/1/23 12:00 AM	6/30/23 12:05 PM	6/30/23 12:05 PM	Ground Hog/Rat Issue - Noted issues with Rodents this quarter, trapper contracted and resolved issued. No other issues noted.
3408715			1248, Thorndale WWTP	OPER	Inspection	0		1248-WWTH 1248, Thorndale WWTP	CLOSE	6/1/23 12:00 AM	6/30/23 12:11 PM	6/30/23 12:11 PM	No issues noted - No issues noted
3408996	0000063194	ENGINE DIESEL GENERATOR	1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	1	YEARS	Engine Diesel Generator Insp/ Service (1y) - 1248	CLOSE	6/1/23 12:00 AM	7/31/23 03:31 PM	7/31/23 03:31 PM	- gencare and Thames Centre completed annual inspection
3416548			1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	1	MONTHS	UV Bank Insp (1m) - 1248	CLOSE	6/1/23 12:00 AM	6/30/23 02:59 PM	6/30/23 02:59 PM	- communication alarms still present. wipers not working. Hydraulic hoses came in and trojan scheduled for July.6 to work on system
3419435	0000063178	BLOWER 01 AIR SLUDGE TANK	1248, Thorndale WWTP	PM	Inspection	3	MONTHS	Blower 1 Service (3m) -1248	CLOSE	6/1/23 12:00 AM	7/12/23 03:30 PM	7/12/23 03:30 PM	- checked belt condition and tension, cleaned intake air filters, and changed oil.
3419438	0000063182	BLOWER 03 AIR AERATION	1248, Thorndale WWTP	PM	Inspection	3	MONTHS	Blower 2 Service (3m) -1248	CLOSE	6/1/23 12:00 AM	7/12/23 03:31 PM	7/12/23 03:31 PM	- checked belt condition and tension, cleaned intake air filters, and changed oil.
3419441	0000063180	BLOWER 02 AERATION	1248, Thorndale WWTP	PM	Inspection	3	MONTHS	Blower 3 Service (3m) -1248	CLOSE	6/1/23 12:00 AM	7/12/23 03:33 PM	7/12/23 03:33 PM	- checked belt condition and tension, cleaned intake air filters, and changed oil.
3419858	0000063214	ACTUATOR ELECTRIC 02 AIR SUPPLY SBR 1	1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	1	YEARS	Actuator Electric Inspection/Service (1y) - AIR SUPPLY SBR 1 1248	CLOSE	6/1/23 12:00 AM	7/7/23 08:01 AM	7/7/23 08:01 AM	- inspected and tested air actuator.

Workorder Summary Report

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 Location: 1248,1248-SPTH,1248-WWTH
 Work Order Type: OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3419867	0000063215	ACTUATOR ELECTRIC 01 AIR SUPPLY SBR 2	1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	1	YEARS	Actuator Electric Inspection/Service (1y) - AIR SUPPLY SBR 2 1248	CLOSE	6/1/23 12:00 AM	7/7/23 08:02 AM	7/7/23 08:02 AM	- inspected and tested air actuator.
3422564			1248, Thorndale WWTP	PM	Compliance	1	MONTHS	CL01 Client Performance Report ORG	CLOSE	6/1/23 12:00 AM	6/13/23 08:21 AM	6/13/23 08:21 AM	Client Report Completed - PCT portion of the client report completed.
3422566			1248, Thorndale WWTP	OPER	Compliance	1	MONTHS	WISKI Data Review (1m) 1248	CLOSE	6/1/23 12:00 AM	6/13/23 08:33 AM	6/13/23 08:33 AM	Wiski Data Reviewed -Wiski Data reviewed.
3451635	0000063165	PANEL ALARM/ DIALER PANEL	1248, Thorndale WWTP	PM	Inspection	1	MONTHS	Alarm Dialer Test/Insp (1m) - 1248	CLOSE	7/1/23 12:00 AM	7/19/23 02:33 PM	7/19/23 02:33 PM	- tested power fail and well high level alarms
3452047	0000063194	ENGINE DIESEL GENERATOR	1248, Thorndale WWTP	PM	Inspection	1	MONTHS	Engine Diesel Test/Insp (1m) - 1248	CLOSE	7/1/23 12:00 AM	7/19/23 02:31 PM	7/19/23 02:31 PM	- completed generator run test
3452755			1248, Thorndale WWTP	PM	Health and Safety	1	MONTHS	OHSA Inspection Thorndale (1m) - 1248	CLOSE	7/1/23 12:00 AM	7/5/23 02:48 PM	7/5/23 02:48 PM	- inspected fire extinguishers,first aid kit and spill kit. Tested emergency lights and eyewash/ shower. Completed Thames Centre safety check sheet.
3464297			1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	1	MONTHS	UV Bank Insp (1m) - 1248	CLOSE	7/1/23 12:00 AM	7/31/23 03:30 PM	7/31/23 03:30 PM	- assisted trojan with replacing all hydraulic hoses on both banks and cylinders on bank A. HMI fried and tech looking into replacement - On site to relieve Brodie Geromette. Trojan technician finished cleaning bulb sleeves on bank 1A and filled newly installed cylinders. Hydraulic tank was topped up before connecting leads. Bank 1A turned on. All normal. As per primary operator bank 1A left on in local. Bank 1B turned off

Workorder Summary Report

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 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3468019	0000063201	PUMP SUBMERSIBLE 02 RAW WETWELL	1248, Thorndale Sewage Pumping Stn	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Subm 02 Raw Sewage Insp/ Service (1y) 1248	CLOSE	7/1/23 12:00 AM	9/22/23 07:36 AM	9/22/23 07:36 AM	- pulled and inspected, replaced lifting chain. - completed
3468028	0000315256	PUMP SUBMERSIBLE RAW 01	1248, Thorndale Sewage Pumping Stn	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Subm 01 Raw Sewage Insp/ Service (1y) 1248	CLOSE	7/1/23 12:00 AM	9/22/23 07:37 AM	9/22/23 07:37 AM	- pulled and inspected, replaced lifting chain. - completed
3468037	0000315255	PUMP SUBMERSIBLE RAW 03	1248, Thorndale Sewage Pumping Stn	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Subm 03 Raw Sewage Insp/ Service (1y) 1248	CLOSE	7/1/23 12:00 AM	9/22/23 07:38 AM	9/22/23 07:38 AM	- pulled and inspected, replaced lifting chain. - completed
3471004			1248, Thorndale WWTP	PM	Compliance	1	MONTHS	CL01 Client Performance Report ORG	CLOSE	7/1/23 12:00 AM	7/14/23 12:51 PM	7/14/23 12:51 PM	Client Report Completed - Client report completed
3471006			1248, Thorndale WWTP	PM	Compliance	3	MONTHS	RP05 WSER Monitoring ORG	CLOSE	7/1/23 12:00 AM	7/14/23 12:41 PM	7/14/23 12:41 PM	WSER Reporting - Dorchester, Thorndale and Talbotville WSER reports submitted.
3471009			1248, Thorndale WWTP	OPER	Compliance	1	MONTHS	WISKI Data Review (1m) 1248	CLOSE	7/1/23 12:00 AM	7/14/23 12:54 PM	7/14/23 12:54 PM	Wiski Data Reviewed - Wiski data reviewed.
3498188	0000063165	PANEL ALARM/ DIALER PANEL	1248, Thorndale WWTP	PM	Inspection	1	MONTHS	Alarm Dialer Test/Insp (1m) - 1248	CLOSE	8/1/23 12:00 AM	8/10/23 03:48 PM	8/10/23 03:48 PM	- tested power fail and well high level alarms
3498531	0000063194	ENGINE DIESEL GENERATOR	1248, Thorndale WWTP	PM	Inspection	1	MONTHS	Engine Diesel Test/Insp (1m) - 1248	CLOSE	8/1/23 12:00 AM	8/10/23 03:46 PM	8/10/23 03:46 PM	- completed generator run test
3499218			1248, Thorndale WWTP	PM	Health and Safety	1	MONTHS	OHSA Inspection Thorndale (1m) - 1248	CLOSE	8/1/23 12:00 AM	8/8/23 03:26 PM	8/8/23 03:26 PM	- checked fire extinguishers, firstaid and spill kits tested emergency lights and eyewash/ shower completed Thames Centre safety check sheet
3504094	0000063178	BLOWER 01 AIR SLUDGE TANK	1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	1	YEARS	Blower 01 Air Sludge Tank Insp/ Service (1y) - 1248	CLOSE	8/1/23 12:00 AM	11/21/23 12:08 PM	11/21/23 12:08 PM	Checked oil/belt condition, cleaned screens, greased fittings. -

Workorder Summary Report

Report Start Date: Jan 1, 2023 12:00 AM
 Report End Date: Dec 31, 2023 11:59 PM
 Location: 1248,1248-SPTH,1248-WWTH
 Work Order Type: OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3504102	0000063180	BLOWER 02 AERATION	1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	1	YEARS	Blower 02 Aeration Insp/Service (1y) - 1248	CLOSE	8/1/23 12:00 AM	11/21/23 12:12 PM	11/21/23 12:12 PM	Checked oil/belt condition, cleaned screens, greased fittings. -
3504110	0000063182	BLOWER 03 AIR AERATION	1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	1	YEARS	Blower 03 Air Aeration Insp/ Service (1y) - 1248	CLOSE	8/1/23 12:00 AM	11/21/23 12:16 PM	11/21/23 12:16 PM	Checked oil/belt condition, cleaned screens, greased fittings. -
3504118	0000063188	SWITCH TRANSFER AUTOMATIC	1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	1	YEARS	Transfer Switch Insp/Service (1y) - 1248	CLOSE	8/1/23 12:00 AM	8/14/23 09:14 AM	8/14/23 09:14 AM	- gencare completed annual inspection 07/21/23 and monthly test completed 08/10/23
3509204			1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	1	MONTHS	UV Bank Insp (1m) - 1248	CLOSE	8/1/23 12:00 AM	8/31/23 10:45 AM	8/31/23 10:45 AM	- installed and programmed new HMI - scrubbed sides and bottom of UV channel to reduce buildup
3512313	0000334594	SAFETY SPILL KIT 20 Gallons, Universal	1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	6	MONTHS	Semi-Annual Spill Kit Inspect (6m) 1248	CLOSE	8/1/23 12:00 AM	8/9/23 03:29 PM	8/9/23 03:29 PM	- verified spill kit inventory
3514824			1248, Thorndale WWTP	PM	Compliance	1	MONTHS	CL01 Client Performance Report ORG	CLOSE	8/1/23 12:00 AM	8/14/23 01:20 PM	8/14/23 01:20 PM	Client Report Completed - Completed client report. Sent to Kate for compile and editing.
3514826			1248, Thorndale WWTP	OPER	Compliance	1	MONTHS	WISKI Data Review (1m) 1248	CLOSE	8/1/23 12:00 AM	8/14/23 01:10 PM	8/14/23 01:10 PM	Wiski Data Reviewed - Reviewed Wiski Data - All good.
3542978	0000063165	PANEL ALARM/ DIALER PANEL	1248, Thorndale WWTP	PM	Inspection	1	MONTHS	Alarm Dialer Test/Insp (1m) - 1248	CLOSE	9/1/23 12:00 AM	9/18/23 08:13 AM	9/18/23 08:13 AM	- tested power fail and well high level alarms
3543305	0000063194	ENGINE DIESEL GENERATOR	1248, Thorndale WWTP	PM	Inspection	1	MONTHS	Engine Diesel Test/Insp (1m) - 1248	CLOSE	9/1/23 12:00 AM	9/18/23 08:12 AM	9/18/23 08:12 AM	- completed generator run test
3544072			1248, Thorndale WWTP	PM	Health and Safety	1	MONTHS	OHSA Inspection Thorndale (1m) - 1248	CLOSE	9/1/23 12:00 AM	9/8/23 03:24 PM	9/8/23 03:24 PM	- inspected fire extinguishers, firstaid kit and spill kit. tested emergency lights and eyewash/shower. completed Thames Centre safety check sheet
3547878			1248, Thorndale Sewage Pumping Stn	OPER	Inspection	0		1248-SPTH 1248, Thorndale Sewage Pumping Stn	CLOSE	9/1/23 12:00 AM	11/10/23 09:17 AM	11/10/23 09:17 AM	

Workorder Summary Report

 Report Start Date: Jan 1, 2023 12:00 AM
 Report End Date: Dec 31, 2023 11:59 PM
 Location: 1248,1248-SPTH,1248-WWTH
 Work Order Type: OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3547880			1248, Thorndale WWTP	OPER	Inspection	0		1248-WWTH 1248, Thorndale WWTP	CLOSE	9/1/23 12:00 AM	11/10/23 09:17 AM	11/10/23 09:17 AM	
3549562	0000063184	TANK PROCESS 01 HOT WATER	1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Process 01 Hot Water Insp/ Service (1y) - 1248	CLOSE	9/1/23 12:00 AM	9/18/23 03:03 PM	9/18/23 03:03 PM	- inspected heater and connected piping. tested valves on water lines near heater
3549565	0000063185	TANK STORAGE 02 HOT WATER	1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	1	YEARS	Tank Storage 02 Hot Water Insp/ Service (1y) - 1248	CLOSE	9/1/23 12:00 AM	9/18/23 03:04 PM	9/18/23 03:04 PM	- inspected heater and connected piping. tested valves on water lines near heater
3555592			1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	1	MONTHS	UV Bank Insp (1m) - 1248	CLOSE	9/1/23 12:00 AM	9/29/23 03:57 PM	9/29/23 03:57 PM	- cleaned sleeves on bank B - Trojan replaced pressure relief as he had one on hand. Bled and flushed hydraulic lines as wiper pressure alarm was due to air or dirt near the switch, wipers now working. Diagnosed bank A module 3 as needing a new module control board, will send quote.
3558418	0000063178	BLOWER 01 AIR SLUDGE TANK	1248, Thorndale WWTP	PM	Inspection	3	MONTHS	Blower 1 Service (3m) -1248	CLOSE	9/1/23 12:00 AM	9/20/23 03:10 PM	9/20/23 03:10 PM	-checked oil, belt condition, and intake air filter
3558421	0000063182	BLOWER 03 AIR AERATION	1248, Thorndale WWTP	PM	Inspection	3	MONTHS	Blower 2 Service (3m) -1248	CLOSE	9/1/23 12:00 AM	9/21/23 03:38 PM	9/21/23 03:38 PM	- checked oil, belt condition, and intake air filter
3558424	0000063180	BLOWER 02 AERATION	1248, Thorndale WWTP	PM	Inspection	3	MONTHS	Blower 3 Service (3m) -1248	CLOSE	9/1/23 12:00 AM	9/21/23 03:39 PM	9/21/23 03:39 PM	- checked oil, belt condition, and intake air filter
3558785	0000334605	HEATER VALVE ROOM	1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	1	YEARS	Heater Unit Insp. (1y) - 1248	CLOSE	9/1/23 12:00 AM	9/15/23 03:59 PM	9/15/23 03:59 PM	- inspected and tested all electric heaters

Workorder Summary Report

 Report Start Date: Jan 1, 2023 12:00 AM
 Report End Date: Dec 31, 2023 11:59 PM
 Location: 1248,1248-SPTH,1248-WWTH
 Work Order Type: OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3558790	0000334590	PANEL CONTROL 01 BLOWER ABL-310	1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	3	YEARS	PANEL CONTROL SERV (3y) - 1248 BLOWER 01	CLOSE	9/1/23 12:00 AM	9/29/23 03:49 PM	9/29/23 03:49 PM	- inspected and cleaned panel
3558795	0000334592	PANEL CONTROL Mini SBR Decanter DCT-232	1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	3	YEARS	PANEL CONTROL SERV (3y) - 1248 Mini SBR Decanter	CLOSE	9/1/23 12:00 AM	9/29/23 03:49 PM	9/29/23 03:49 PM	- inspected and cleaned panel
3558799	0000334588	PANEL CONTROL Sludge holding tank BLOWER 2 ABL-330	1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	3	YEARS	PANEL CONTROL SERV (3y) - 1248 Sludge holding tank BLOWER 2	CLOSE	9/1/23 12:00 AM	9/29/23 03:50 PM	9/29/23 03:50 PM	- inspected and cleaned panel
3558803	0000334593	PANEL CONTROL SBR 1 Decanter DCT-212	1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	3	YEARS	PANEL CONTROL SERV (3y) - 1248 SBR 1 Decanter	CLOSE	9/1/23 12:00 AM	9/29/23 03:51 PM	9/29/23 03:51 PM	- inspected and cleaned panel
3558807	0000334591	PANEL CONTROL Sludge Holding Tank Decanter	1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	3	YEARS	PANEL CONTROL SERV (3y) - 1248 Sludge Holding Tank Decanter	CLOSE	9/1/23 12:00 AM	9/29/23 03:52 PM	9/29/23 03:52 PM	- inspected and cleaned panel
3558811	0000334597	ACTUATOR ELECTRIC AIR TO SBR	1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	1	YEARS	Actuator Electric Inspec/Service (1y) 1248 AIR TO SBR	CLOSE	9/1/23 12:00 AM	12/8/23 10:09 AM	12/8/23 10:09 AM	-Hawkins onsite to diagnose why actuator not opening. quoting new one. - new actuator being quoted by Hawkins. - quote sent to SOM by Hawkins
3561525			1248, Thorndale WWTP	PM	Compliance	1	MONTHS	CL01 Client Performance Report ORG	CLOSE	9/1/23 12:00 AM	9/19/23 03:07 PM	9/19/23 03:07 PM	Client Report Completed - Thorndale's client report completed.
3561527			1248, Thorndale WWTP	OPER	Compliance	1	MONTHS	WISKI Data Review (1m) 1248	CLOSE	9/1/23 12:00 AM	9/19/23 02:59 PM	9/19/23 02:59 PM	Wiski Data Reviewed - Thorndale wiski data reviewed.
3591412	0000063165	PANEL ALARM/ DIALER PANEL	1248, Thorndale WWTP	PM	Inspection	1	MONTHS	Alarm Dialer Test/Insp (1m) - 1248	CLOSE	10/1/23 12:00 AM	10/16/23 03:19 PM	10/16/23 03:19 PM	- tested power fail and well high level alarms
3591796	0000063194	ENGINE DIESEL GENERATOR	1248, Thorndale WWTP	PM	Inspection	1	MONTHS	Engine Diesel Test/Insp (1m) - 1248	CLOSE	10/1/23 12:00 AM	10/16/23 03:18 PM	10/16/23 03:18 PM	- completed generator run test

Workorder Summary Report

 Report Start Date: Jan 1, 2023 12:00 AM
 Report End Date: Dec 31, 2023 11:59 PM
 Location: 1248,1248-SPTH,1248-WWTH
 Work Order Type: OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3592467			1248, Thorndale WWTP	PM	Health and Safety	1	MONTHS	OHSA Inspection Thorndale (1m) - 1248	CLOSE	10/1/23 12:00 AM	10/12/23 03:26 PM	10/12/23 03:26 PM	- checked fire extinguishers, first aid kit and spill kit. tested emergency lights and eyewash/shower. completed thames centre safety check sheet.
3604856			1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	1	MONTHS	UV Bank Insp (1m) - 1248	CLOSE	10/1/23 12:00 AM	11/6/23 08:56 AM	11/6/23 08:56 AM	- completed
3607353			1248, Thorndale Sewage Pumping Stn	PM	Inspection	6	MONTHS	Wetwell Cleanout Thorndale Insp/ Service (6m) - 1248	COMP	10/1/23 12:00 AM	12/15/23 01:29 PM	12/15/23 01:29 PM	- to be moved to 2024, wetwell clean during inspection.
3611222			1248, Thorndale WWTP	PM	Compliance	1	MONTHS	CL01 Client Performance Report ORG	CLOSE	10/1/23 12:00 AM	10/23/23 02:54 PM	10/23/23 02:54 PM	Client Report Completed - Dorchester's client report completed
3611224			1248, Thorndale WWTP	PM	Compliance	3	MONTHS	RP05 WSER Monitoring ORG	CLOSE	10/1/23 12:00 AM	10/23/23 02:56 PM	10/23/23 02:56 PM	WSER Reported - Dorchester's WSER reported.
3611227			1248, Thorndale WWTP	OPER	Compliance	1	MONTHS	WISKI Data Review (1m) 1248	CLOSE	10/1/23 12:00 AM	10/23/23 02:52 PM	10/23/23 02:52 PM	Wiski Data Reviewed - Dorchester's wiski data reviewed.
3612930	0000063204	PUMP SUBMERSIBLE 02 WASTE SBR 1	1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	1	YEARS	PUMP SUBMERSIBLE 02 WASTE SBR 1 Inspection/Service (1y) 1248	CLOSE	10/1/23 12:00 AM	10/11/23 03:27 PM	10/11/23 03:27 PM	- pump pull and inspection completed sept.6
3612939	0000063205	PUMP SUBMERSIBLE 03 WASTE SBR 2	1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	1	YEARS	PUMP SUBMERSIBLE 03 WASTE SBR 2 Inspection/Service (1y) 1248	CLOSE	10/1/23 12:00 AM	10/11/23 03:29 PM	10/11/23 03:29 PM	- pump pull and inspection completed aug.16
3639083	0000063165	PANEL ALARM/ DIALER PANEL	1248, Thorndale WWTP	PM	Inspection	1	MONTHS	Alarm Dialer Test/Insp (1m) - 1248	CLOSE	11/1/23 12:00 AM	12/5/23 08:28 AM	12/5/23 08:28 AM	- completed in November
3639391	0000063194	ENGINE DIESEL GENERATOR	1248, Thorndale WWTP	PM	Inspection	1	MONTHS	Engine Diesel Test/Insp (1m) - 1248	CLOSE	11/1/23 12:00 AM	12/5/23 09:17 AM	12/5/23 09:17 AM	- completed in month of november
3640060			1248, Thorndale WWTP	PM	Health and Safety	1	MONTHS	OHSA Inspection Thorndale (1m) - 1248	CLOSE	11/1/23 12:00 AM	12/5/23 09:16 AM	12/5/23 09:16 AM	Completed November Inspection. - completed
3643276	0000063191	METER FLOW EFFLUENT	1248, Thorndale WWTP	PM	Calibration	1	YEARS	Meter Flow Insp/Service (1y) - 1248	CLOSE	11/1/23 12:00 AM	11/21/23 11:59 AM	11/21/23 11:59 AM	SCG Flowmetrix completed calibration. -

Workorder Summary Report

 Report Start Date: Jan 1, 2023 12:00 AM
 Report End Date: Dec 31, 2023 11:59 PM
 Location: 1248,1248-SPTH,1248-WWTH
 Work Order Type: OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3649189			1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	1	MONTHS	UV Bank Insp (1m) - 1248	CLOSE	11/1/23 12:00 AM	12/5/23 08:29 AM	12/5/23 08:29 AM	- completed
3653313	0000334595	METER FLOW FIT-335 AIR SBR	1248, Thorndale WWTP	PM	Calibration	1	YEARS	Annual Flowmeter Calibrations - 1248 (1y)	CLOSE	11/1/23 12:00 AM	11/21/23 12:01 PM	11/21/23 12:01 PM	SCG Flowmetrix completed calibrations.
3653325	0000063197	METER FLOW RAW INFLUENT	1248, Thorndale WWTP	PM	Calibration	1	YEARS	Meter Flow Insp/Service (1y) - 1248	CLOSE	11/1/23 12:00 AM	11/21/23 11:57 AM	11/21/23 11:57 AM	SCG Flowmetrix completed calibration.
3654522			1248, Thorndale WWTP	PM	Compliance	1	MONTHS	CL01 Client Performance Report ORG	CLOSE	11/1/23 12:00 AM	11/20/23 08:33 AM	11/20/23 08:33 AM	Client Report Completed - Client report completed late. Had to enter all operator data in the "wiski data sheet" and Wiski, Operator, Lucas, was new to location and was not shown to do that.
3654524			1248, Thorndale WWTP	OPER	Compliance	1	MONTHS	WISKI Data Review (1m) 1248	CLOSE	11/1/23 12:00 AM	11/20/23 08:56 AM	11/20/23 08:56 AM	Wiski Data Reviewed - Wiski Data Reviewed.
3680655	0000063165	PANEL ALARM/DIALER PANEL	1248, Thorndale WWTP	PM	Inspection	1	MONTHS	Alarm Dialer Test/Insp (1m) - 1248	COMP	12/1/23 12:00 AM	12/29/23 04:14 PM	12/29/23 04:14 PM	Completed December testing.
3681064	0000063194	ENGINE DIESEL GENERATOR	1248, Thorndale WWTP	PM	Inspection	1	MONTHS	Engine Diesel Test/Insp (1m) - 1248	COMP	12/1/23 12:00 AM	12/14/23 10:27 AM	12/14/23 10:27 AM	Completed December testing.
3682026			1248, Thorndale WWTP	PM	Health and Safety	1	MONTHS	OHSA Inspection Thorndale (1m) - 1248	CLOSE	12/1/23 12:00 AM	12/11/23 08:59 AM	12/11/23 08:59 AM	
3685173			1248, Thorndale Sewage Pumping Stn	OPER	Inspection	0		1248-SPTH 1248, Thorndale Sewage Pumping Stn	COMP	12/1/23 12:00 AM	1/8/24 11:19 AM	1/8/24 11:19 AM	
3685175			1248, Thorndale WWTP	OPER	Inspection	0		1248-WWTH 1248, Thorndale WWTP	COMP	12/1/23 12:00 AM	1/8/24 11:19 AM	1/8/24 11:19 AM	
3690652			1248, Thorndale WWTP	PM	Refurbish/ Replace/Repair	1	MONTHS	UV Bank Insp (1m) - 1248	COMP	12/1/23 12:00 AM	12/18/23 04:33 PM	12/18/23 04:33 PM	Removed all racks and wiped bulbs by hand, scraped algae buildup from effluent trough.
3693309	0000063178	BLOWER 01 AIR SLUDGE TANK	1248, Thorndale WWTP	PM	Inspection	3	MONTHS	Blower 1 Service (3m) -1248	CLOSE	12/1/23 12:00 AM	12/8/23 10:26 AM	12/8/23 10:26 AM	- to be completed in 2024. all blower in good working order
3693312	0000063182	BLOWER 03 AIR AERATION	1248, Thorndale WWTP	PM	Inspection	3	MONTHS	Blower 2 Service (3m) -1248	CLOSE	12/1/23 12:00 AM	12/8/23 10:28 AM	12/8/23 10:28 AM	- To be completed in 2024, all in good working order.

Workorder Summary Report

Report Start Date: Jan 1, 2023 12:00 AM
 Report End Date: Dec 31, 2023 11:59 PM
 Location: 1248,1248-SPTH,1248-WWTH
 Work Order Type: OPER,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
3693315	0000063180	BLOWER 02 AERATION	1248, Thorndale WWTP	PM	Inspection	3	MONTHS	Blower 3 Service (3m) -1248	CLOSE	12/1/23 12:00 AM	12/8/23 10:37 AM	12/8/23 10:37 AM	- completed work order, all blowers in good working order no concerns.
3694702	0000334596	METER FLOW FIT-315 AIR SBR	1248, Thorndale WWTP	PM	Calibration	1	YEARS	Annual Flowmeter Calibrations - 1248 (1y)	CLOSE	12/1/23 12:00 AM	12/8/23 10:24 AM	12/8/23 10:24 AM	- completed Nov 15th and 16th 2023
3695824			1248, Thorndale WWTP	PM	Compliance	1	MONTHS	CL01 Client Performance Report ORG	CLOSE	12/1/23 12:00 AM	12/11/23 12:22 PM	12/11/23 12:22 PM	Client Report Completed -Thorndale's client report completed.
3695826			1248, Thorndale WWTP	OPER	Compliance	1	MONTHS	WISKI Data Review (1m) 1248	CLOSE	12/1/23 12:00 AM	12/11/23 11:22 AM	12/11/23 11:22 AM	Wiski Data Reviewed - Thorndale's Wiski Data Reviewed.